Brocade Virtual Traffic Manager: Configuration System Guide

Supporting 10.2



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http://www.brocade.com/en/support/support-tools/oscd.html.

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Preface

Read this preface for an overview of the information provided in this guide. This preface includes the following sections:

- "About This Guide" on page 1
- "Documentation and Release Notes" on page 2
- "Contacting Brocade" on page 3

About This Guide

The *Stingray Traffic Manager Configuration System Guide* describes the Brocade Virtual Traffic Manager (Traffic Manager)configuration system.

This guide introduces you to the structure of the configuration system, and is intended as a complete reference to all configuration items available in the Traffic Manager.

Brocade product names have changed. At the time of publication, the user interfaces of the products described in this guide may have not changed, and the original names may be used in the text. For the product naming key, see http://www.riverbed.com/products/#Product_List.

Document Conventions

This guide uses the following standard set of typographical conventions

Convention	Meaning
italics	Within text, new terms and emphasized words appear in italic typeface.
boldface	Within text, CLI commands, CLI parameters, and REST API properties appear in bold typeface.
Courier	Code examples appear in Courier font:
	<pre>amnesiac > enable amnesiac # configure terminal</pre>
<>	Values that you specify appear in angle brackets: interface <ip-address></ip-address>
[]	Optional keywords or variables appear in brackets: ntp peer <ip-address> [version <number>]</number></ip-address>
{}	Elements that are part of a required choice appear in braces: { <interface-name> ascii <string> hex <string>}</string></string></interface-name>
1	The pipe symbol represents a choice to select one keyword or variable to the left or right of the symbol. The keyword or variable can be either optional or required: {delete <filename> upload <filename>}</filename></filename>

Documentation and Release Notes

To obtain the most current version of all Brocade documentation, go to the Riverbed Support site at https://support.riverbed.com.

If you need more information, see the Riverbed Knowledge Base for any known issues, how-to documents, system requirements, and common error messages. You can browse titles or search for keywords and strings. To access the Riverbed Knowledge Base, log in to the Riverbed Support site at https://support.riverbed.com.

Each software release includes release notes. The release notes identify new features in the software as well as known and fixed problems. To obtain the most current version of the release notes, go to the Software and Documentation section of the Riverbed Support Web site at https://support.riverbed.com.

Examine the release notes before you begin the installation and configuration process.

Traffic Manager Manuals

The Traffic Manager includes a comprehensive user manual that describes the Traffic Manager features in depth. There are also getting started guides, and a series of reference guides to cover additional functionality such as the TrafficScript rules language and product APIs.

You can download documentation for all supported versions of the Traffic Manager from the Riverbed Support Web site at:

https://support.riverbed.com/software/index.htm

Traffic Manager Online Help

Click the **Help** button on any page of the Admin UI to see detailed help information for that page. You can also view contents and use index pages to navigate the online help.

Contacting Brocade Preface

The Rules > Edit page also has a link to TrafficScript Help, a quick reference guide for the Traffic Manager functions.

Traffic Manager Information Online

Product specifications can be found at:

http://www.riverbed.com/products-solutions/products/application-delivery-stingray/

Visit the Brocade Splash community website for further documentation, examples, white papers, and other resources:

http://splash.riverbed.com

Contacting Brocade

This section describes how to contact departments within Brocade.

- Technical support If you have problems installing, using, or replacing Brocade products, contact Riverbed Support or your channel partner who provides support. To contact Riverbed Support, open a trouble ticket by calling 1-888-BROCADE (1-888-276-2233) in the United States and Canada or +1 408-333-4300 outside the United States. You can also go to https://support.riverbed.com.
- Professional services Brocade has a staff of professionals who can help you with installation, provisioning, network redesign, project management, custom designs, consolidation project design, and custom coded solutions. To contact Riverbed Professional Services, email ProfessionalServicesPartner@brocade.com or go to http://www.riverbed.com/services-training/Services-Training.html.
- **Documentation** The Brocade Technical Publications team continually strives to improve the quality and usability of Brocade documentation. Brocade appreciates any suggestions you might have about its online documentation or printed materials. Send documentation comments to TechPubsMB@brocade.com.

Preface Contacting Brocade

CHAPTER 1 Introduction

This chapter provides an introduction to the Traffic Manager configuration system. This chapter contains the following sections:

- "Purpose of this Guide" on page 5
- "The Traffic Manager Configuration File System" on page 6
- "The Effect of Location Support when using Multi-Site Cluster Management" on page 7

Purpose of this Guide

This guide describes the configuration system structure of Brocade Virtual Traffic Manager. Brocade intends this guide to be used by users wanting to manually manipulate the configuration system of the Traffic Manager, and in particular, users of the zconf command line utility.

The Traffic Manager is available in a variety of software and appliance configurations. All configurations share the same core Traffic Manager software, but different variants can provide different levels of functionality depending on the enabling license key.

Chapter 2, "Configuration Sections" lists each configuration section present in the core software, irrespective of license key, including a brief summary of its purpose and a table of any available configuration keys. Each key is displayed with its description and a list of its attributes. Such attributes include the key type and default value.

Consider the following restrictions on each key:

- If no default value is given then a value MUST be specified for the key;
- Some values are picked/tuned at install so may not be the specified default;
- (file)names must not contain certain illegal characters: _#-\!/* (or any control characters);
- Newlines cannot be used in key values;
- Some keys have certain dependencies. A "requires" attribute is displayed where this is the case.

This manual describes the configuration for version 10.2.

The Traffic Manager Configuration File System

The Traffic Manager stores its configuration in a series of text files under a tree structure of directories, one per object type. As you make configuration changes through the UI or one of the product APIs, the Traffic Manager's "Admin Server" management component maintains and updates the files and directories accordingly.

Important: Unless instructed to do so by your support provider, Brocade strongly recommends that you do not modify these files directly. They are maintained automatically by the Admin Server and as such your changes can be lost or cause unpredictable behavior in your Traffic Manager deployment. Always use the UI, programming APIs, or zconf utility to make changes.

The core Traffic Manager software reads the config when triggered by an observed update, or on a predefined chronological basis, and applies the appropriate logic. Additionally, the Traffic Manager ensures synchronization between itself and all other Traffic Manager instances in a cluster, and replicates out any changes that occur. The following diagram demonstrates the directory structure under the root config directory:

Each of the sections listed in Chapter 2, "Configuration Sections" typically have a file or directory entry under /conf in this way.

When you add a new object of a particular type, the Traffic Manager creates a new config text file with the same name and stores it under the corresponding sub-directory. For example, it you create a new virtual server called "myvirtualserver", the Traffic Manager creates a new text file:

```
ZEUSHOME/zxtm/conf/vservers/myvirtualserver
```

Each config file consists of lines of key-value pairs, separated by new-line characters, in the following format:

```
<key> <value>[ <next value>...]
```

The key refers to some setting or feature, and the value is the item, or list of items, applied to that key. The key and value are separated by whitespace, and where the value is actually a list, each item is again separated by whitespace.

The key might be *simple* or *compound*. Compound keys are used to group related settings together, and consist of a common component and subsequent sub-components, separated by a '!' character.

You can add comments into config files, pre-pended by the hash (#) character.

The following is an example virtual server config file (name on disk: ZEUSHOME/zxtm/conf/vservers/Intranet) that demonstrates all of the above features:

```
# This is an example config file for a
# virtual server named 'Intranet'
Address *
Enabled Yes
Pool Intranet-pool
Port 80
Protection servprot1
request_tracing!enabled Yes
request_tracing!trace_io Yes
responserules headeradjust test_rule
rules
slm slm-class1
timeout 40
webcache!enabled Yes
```

The Effect of Location Support when using Multi-Site Cluster Management

You can configure the Traffic Manager to provide support for management of multiple distributed physical, virtual or cloud-based Traffic Manager clusters. This is implemented in the configuration system by appending location names to the relevant keys in affected configuration files. The Traffic Manager uses the at (@) symbol followed by the location name, so key "foo" would become "foo@location".

For example, a simple config key might be:

Enabled Yes

By adding location support, this key would become:

```
Enabled@cambridge Yes
Enabled@sanfrancisco No
```

This convention ensures that config keys set as specific to a particular location are ignored by other locations.

For further information regarding location support, see the Multi-site Cluster Management chapter of the *Brocade Virtual Traffic Manager: User's Guide*.

CHAPTER 2 Configuration Sections

This chapter provides a complete reference of the Traffic Manager configuration system. Each section refers to a specific configuration type, and lists all applicable configuration keys contained therein.

conf/actionprogs

The conf/actionprogs directory contains programs and scripts that can be used by actions of the program type. Action programs can be managed under the Catalogs > Extra Files > Action Programs section of the Admin Server UI or by using functions under the Alerting. Action section of the SOAP API and CLI.

Description
Des

There are no items to display for this configuration type.

conf/actions

The conf/actions directory contains configuration files for event handlers. The name of a file is the name of the action it defines. Actions can be configured under the System > Alerting section of the Admin Server UI or by using functions under the Alerting. Action section of the the SOAP API and CLI.

Configuration Sections conf/actions

Key	Description
note	A description of the action.
	• From://products/zxtm/eventd/handleraction.cpp:55
	Value type: string
	• Default value: <none></none>
overridelog	Whether or not to override logging to the main event log if this action is triggered. Note that this will only stop logging to the main event log, other actions will still be triggered.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	 From://products/zxtm/eventd/handleraction.cpp:64
	• Value type: Yes / No
	Default value: "No"
type	The action type.
	 From://products/zxtm/eventd/handleraction.cpp:46
	Value type: enumeration
	• Default value: <none></none>
	Permitted values:
	email: E-Mail
	log: Log to File
	syslog: Log to Syslog
	program: Program
	trap: SNMP Notify or Trap
	soap: SOAP Callback
Additional keys used v	when type is "email"
from	The e-mail address from which messages will appear to originate.
	From://products/zxtm/eventd/email_handler.cpp:33
	• Requires: type is set to "email"
	Value type: string
	 Default value: "vTM@%hostname%"
server	The SMTP server to which messages should be sent. This must be a valid IPv4 address or resolvable hostname (with optional port).
	From://products/zxtm/eventd/email_handler.cpp:62
	• Requires: type is set to "email"
	Value type: string
	• Default value: <none></none>
to	A list of e-mail addresses to which messages will be sent.
	• From://products/zxtm/eventd/email_handler.cpp:45
	Requires: type is set to "email"
	Value type: string
	• Default value: <none></none>
Additional keys used v	when type is "leg"

conf/actions Configuration Sections

Key	Description
file	The full path of the file to log to. The text %zeushome% will be replaced with the location where the software is installed.
	 From://products/zxtm/eventd/log_handler.cpp:40
	Requires: type is set to "log"
	Value type: string
	Default value: <none></none>
Additional keys used who	en type is "program"
arg!*	An argument to pass to the program. For example, to specify that the argumenfoo=bar should be passed to the program executed by this action you would set a key arg!foo to the value bar.
	 From://products/zxtm/eventd/script_handler.cpp:56
	Requires: type is set to "program"
	Value type: string
	Default value: <none></none>
describe!*	A description for an argument provided to the program, this is used only for display purposes in the Admin Server UI. To give a description to thefoo example for arg!* above you would set the description text as the value for the key description!foo.
	• From://products/zxtm/eventd/script_handler.cpp:73
	 Requires: type is set to "program"
	Value type: string
	 Default value: <none></none>
program	The program to run.
	• From://products/zxtm/eventd/script_handler.cpp:39
	 Requires: type is set to "program"
	Value type: string
	 Default value: <none></none>
Additional keys used who	en type is "program", "email", or "soap"
timeout	How long the action can run for before it is stopped automatically (set to 0 to disable timeouts).
	• From://products/zxtm/eventd/script_handler.cpp:91
	Requires: type is set to "program", "email", or "soap"
	Value type: seconds
	• Default value: "60"
Additional keys used who	en type is "program", or "email"
verbose	Enable or disable verbose logging for this action.
	• From://products/zxtm/eventd/script_handler.cpp:81
	Requires: type is set to "program", or "email"
	Value type: Yes / No
	Default value: "No"

Configuration Sections conf/actions

Key	Description
additional	Additional information to send with the SOAP call.
	• From://products/zxtm/eventd/soap_handler.cpp:43
	Requires: type is set to "soap"
	Value type: string
	• Default value: <none></none>
password	The password for HTTP basic authentication.
	• From://products/zxtm/eventd/soap_handler.cpp:66
	Requires: type is set to "soap"
	Value type: password
	Default value: <none></none>
proxy	The address of the server implementing the SOAP interface (For example, https://example.com).
	• From://products/zxtm/eventd/soap_handler.cpp:31
	• Requires: type is set to "soap"
	Value type: string
	• Default value: <none></none>
username	Username for HTTP basic authentication. Leave blank if you do not wish to use authentication.
	• From://products/zxtm/eventd/soap_handler.cpp:54
	Requires: type is set to "soap"
	Value type: string
	• Default value: <none></none>
Additional keys used when t	ype is "syslog"
syslog_msg_len_limit	Maximum length in bytes of a message sent to the remote syslog. Messages longer than this will be truncated before they are sent.
	• From://products/zxtm/eventd/syslog_handler.cpp:40
	Requires: type is set to "syslog"
	Value type: unsigned integer
	• Default value: "1024"
sysloghost	The host and optional port to send syslog messages to (if empty, messages will be sent to localhost).
	• From://products/zxtm/eventd/syslog_handler.cpp:28
	• Requires: type is set to "syslog"
	Value type: string
	• Default value: <none></none>

conf/actions Configuration Sections

Key	Description
community	The community string to use when sending a Trap over SNMPv1 or a Notify over SNMPv2c.
	• From://products/zxtm/eventd/trap_handler.cpp:40
	Requires: type is set to "trap"
	Value type: string
	• Default value: <none></none>
snmp!auth_password	The authentication password for sending a Notify over SNMPv3. Blank to send unauthenticated traps.
	• From://products/zxtm/eventd/trap_handler.cpp:88
	Requires: type is set to "trap"
	Value type: password
	• Default value: <none></none>
snmp!hash_alg	The hash algorithm for SNMPv3 authentication.
	• From://products/zxtm/eventd/trap_handler.cpp:109
	• Requires: type is set to "trap"
	Value type: enumeration
	• Default value: "md5"
	Permitted values:
	md5: MD5
	sha1: SHA-1
snmp!priv_password	The encryption password to encrypt a Notify message for SNMPv3. Requires that authentication also be configured. Blank to send unencrypted traps.
	• From://products/zxtm/eventd/trap_handler.cpp:100
	Requires: type is set to "trap"
	Value type: password
	• Default value: <none></none>
snmp!username	The SNMP username to use to send the Notify over SNMPv3.
	• From://products/zxtm/eventd/trap_handler.cpp:77
	Requires: type is set to "trap"
	Value type: string
	• Default value: <none></none>

Configuration Sections conf/appliance/nat.cfg

Key	Description
snmp!version	The SNMP version to use to send the Trap/Notify.
	• From://products/zxtm/eventd/trap_handler.cpp:67
	• Requires: type is set to "trap"
	Value type: enumeration
	Default value: "snmpv1"
	Permitted values:
	snmpv1: SNMPv1
	snmpv2c: SNMPv2c
	snmpv3: SNMPv3
traphost	The hostname or IPv4 address and optional port number that should receive traps.
	• From://products/zxtm/eventd/trap_handler.cpp:57
	• Requires: type is set to "trap"
	Value type: string
	• Default value: <none></none>

conf/appliance/nat.cfg

The NAT configuration file stores rules controlling NAT on an appliance.

Key	Description
many_to_one_overload!*!pool	Pool of a "many to one overload" type NAT rule. • From://products/zxtm/lb/nat_conf.cpp:96 • Value type: string
many_to_one_overload!*!tip	 Default value: <none></none> TIP Group of a "many to one overload" type NAT rule. From://products/zxtm/lb/nat_conf.cpp:105 Value type: string Default value: <none></none>
many_to_one_port_locked!*!pool	Pool of a "many to one port locked" type NAT rule. • From://products/zxtm/lb/nat_conf.cpp:62 • Value type: string • Default value: <none></none>
many_to_one_port_locked!*!port	Port number of a "many to one port locked" type NAT rule. • From://products/zxtm/lb/nat_conf.cpp:78 • Value type: unsigned integer • Default value: <none></none>

conf/appliance/nat.cfg Configuration Sections

Key	Description
many_to_one_port_locked!*!prot	Protocol of a "many to one port locked" type NAT rule.
ocol	• From://products/zxtm/lb/nat_conf.cpp:70
	Value type: enumeration
	• Default value: <none></none>
	Permitted values:
	tcp: TCP
	udp: UDP
	udplite: UDPLITE
	sctp: SCTP
	icmp: ICMP
many_to_one_port_locked!*!tip	TIP Group of a "many to one port locked" type NAT rule.
	• From://products/zxtm/lb/nat_conf.cpp:87
	Value type: string
	• Default value: <none></none>
one_to_one!*!enable_inbound	Enabling the inbound part of a "one to one" type NAT rule.
	• From://products/zxtm/lb/nat_conf.cpp:53
	• Value type: Yes / No
	• Default value: <none></none>
one_to_one!*!ip	IP Address of a "one to one" type NAT rule.
	• From://products/zxtm/lb/nat_conf.cpp:45
	Value type: string
	• Default value: <none></none>
one_to_one!*!tip	TIP group of a "one to one" type NAT rule.
	• From://products/zxtm/lb/nat_conf.cpp:36
	Value type: string
	• Default value: <none></none>
port_mapping!*!dport_first	First port of the dest. port range of a "port mapping" rule.
	• From://products/zxtm/lb/nat_conf.cpp:122
	Value type: unsigned integer
	• Default value: <none></none>
port_mapping!*!dport_last	Last port of the dest. port range of a "port mapping" rule.
	• From://products/zxtm/lb/nat_conf.cpp:130
	Value type: unsigned integer
	• Default value: <none></none>
port_mapping!*!virtual_server	Target Virtual Server of a "port mapping" rule.
	• From://products/zxtm/lb/nat_conf.cpp:114
	Value type: string

Configuration Sections conf/aptimizer/profiles

conf/aptimizer/profiles

The conf/aptimize directory contains configuration files for Aptimizer profiles. Aptimizer profiles can be configured under the Catalogs > Aptimizer > Aptimizer Profiles section of the Admin Server UI or by using functions under the Catalog. Aptimizer. Aptimizer Profiles section of the SOAP API and CLI.

Key	Description
background_after	If Aptimizer can finish optimizing the resource within this time limit then serve the optimized content to the client, otherwise complete the optimization in the background and return the original content to the client. If set to 0, Aptimizer will always wait for the optimization to complete before sending a response to the client.
	• From://products/zxtm/lb/wax.cpp:63
	Value type: unsigned integer
	• Default value: "0"
background_on_additional_reso urces	If a web page contains resources that have not yet been optimized, fetch and optimize those resources in the background and send a partially optimized web page to clients until all resources on that page are ready.
	• From://products/zxtm/lb/wax.cpp:75
	Value type: Yes / No
	Default value: "No"
built_in	If set to Yes this indicates that this configuration is built-in (provided as part of the software) and cannot be deleted or edited.
	• From://products/zxtm/lb/wax.cpp:100
	• Value type: Yes / No
	Default value: "No"
config	The configuration string for the Aptimize profile.
	• From://products/zxtm/lb/wax.cpp:86
	Value type: string
	• Default value: <none></none>

conf/aptimizer/scopes Configuration Sections

Key	Description
mode	Set the Aptimizer mode to turn acceleration on or off.
	• From://products/zxtm/lb/wax.cpp:39
	Value type: enumeration
	Default value: "active"
	• Permitted values:
	idle: Off - Acceleration is disabled, but requests for Aptimizer resources are served
	stealth: Stealth - Acceleration is controlled by a cookie
	active: On - Aptimizer acceleration is enabled
show_info_bar	Show the Aptimizer information bar on aptimized web pages. This requires HTML optimization to be enabled in the Acceleration settings.
	• From://products/zxtm/lb/wax.cpp:49
	• Value type: Yes / No
	Default value: "No"

conf/aptimizer/scopes

Priority should be higher than that of virtual servers

Key	Description
canonical_hostname	If the hostnames for this scope are aliases of each other, the canonical hostname will be used for requests to the server.
	• From://products/zxtm/lb/scope.cpp:34
	Value type: string
	• Default value: <none></none>
hostnames	The hostnames to limit acceleration to.
	• From://products/zxtm/lb/scope.cpp:44
	Value type: list
	• Default value: <none></none>
root	The root path of the application defined by this application scope.
	• From://products/zxtm/lb/scope.cpp:23
	Value type: string
	• Default value: "/"

Configuration Sections conf/auth

conf/auth

The conf/auth directory contains configuration files for remote authentication services used to control access to the software. The name of a file is the name of the authenticator it defines. Authenticators can be configured under the System > Users section of the Admin Server UI.

Key	Description
auth!description	A description of the authenticator.
	• From: Zeus/Authen.pm:85
	Value type: string
	• Default value: <none></none>
auth!enabled	Whether or not this authenticator is enabled.
	• From: Zeus/Authen.pm:101
	Value type: Yes / No
	Default value: "No"
auth!type	The type of the authenticator.
	• From: Zeus/Authen.pm:94
	Value type: enumeration
	• Default value: <none></none>
	Permitted values:
	LDAP: LDAP
	RADIUS: RADIUS
	TACACSPlus: TACACS+
Additional keys used wher	type is "LDAP"
ldap!basedn	The base DN (Distinguished Name) under which directory searches will be applied. The entries for your users should all appear under this DN. An example of a typical base DN is: OU=users, DC=mycompany, DC=local
	• From: Zeus/Authen/LDAP.pm:359
	 Requires: auth!type is set to "LDAP"
	Value type: string
	• Default value: <none></none>
ldap!binddn	Template to construct the bind DN (Distinguished Name) from the username. The string %u will be replaced by the username. Examples: %u@mycompany.local for Active Directory or cn=%u, dc=mycompany, dc=local for both LDAP and Active Directory.
	• From: Zeus/Authen/LDAP.pm:430
	• Requires: auth!type is set to "LDAP"
	Value type: string

conf/auth Configuration Sections

Key	Description
ldap!dnmethod	The bind DN (Distinguished Name) for a user can either be searched for in the directory using the Idap!basedn and Idap!filter values, or it can be constructed from the username.
	• From: Zeus/Authen/LDAP.pm:390
	 Requires: auth!type is set to "LDAP"
	Value type: enumeration
	• Default value: <none></none>
	Permitted values:
	construct: Construct
	search: Search
ldap!fallbackgroup	If ldap!groupattr is not defined, or returns no results for the user logging in, the group named here will be used. If not specified, users will be denied access to the traffic manager if no groups matching a Permission Group can be found for them in the directory.
	• From: Zeus/Authen/LDAP.pm:491
	 Requires: auth!type is set to "LDAP"
	Value type: string
	• Default value: <none></none>
ldap!filter	A filter that can be used to extract a unique user record located under the base DN (Distinguished Name). The string %u will be replaced by the username. This filter is used to find a user's bind DN when ldap!dnmethod is set to "Search", and to extract group information if ldap!groupfilter is not specified. Examples: sAMAccountName=%u for Active Directory, or uid=%u for some Unix LDAP schemas.
	• From: Zeus/Authen/LDAP.pm:376
	 Requires: auth!type is set to "LDAP"
	Value type: string
	• Default value: <none></none>
ldap!groupattr	The LDAP attribute that gives a user's group. If there are multiple entries for the attribute all will be extracted and they'll be lexicographically sorted, then the first one to match a Permission Group name will be used.
	• From: Zeus/Authen/LDAP.pm:460
	 Requires: auth!type is set to "LDAP"
	Value type: string
	• Default value: <none></none>
ldap!groupfield	The sub-field of the group attribute that gives a user's group. For example, if ldap!groupattr is memberOf and this retrieves values of the form CN=mygroup, OU=groups, OU=users, DC=mycompany, DC=local you would set groupfield to CN. If there are multiple matching fields only the first matching field will be used.
	• From: Zeus/Authen/LDAP.pm:476
	 Requires: auth!type is set to "LDAP"
	Value type: string
	• Default value: <none></none>

Configuration Sections conf/auth

Key	Description
ldap!groupfilter	If the user record returned by ldap!filter does not contain the required group information you may specify an alternative group search filter here. This will usually be required if you have Unix/POSIX-style user records. If multiple records are returned the list of group names will be extracted from all of them. The string %u will be replaced by the username. Example: (&(memberUid=%u)(objectClass=posixGroup))
	• From: Zeus/Authen/LDAP.pm:447
	Requires: auth!type is set to "LDAP"
	Value type: string
	• Default value: <none></none>
ldap!port	The port to connect to the LDAP server on.
	• From: Zeus/Authen/LDAP.pm:335
	Requires: auth!type is set to "LDAP"
	Value type: unsigned integer
	• Default value: "389"
ldap!searchdn	The bind DN (Distinguished Name) to use when searching the directory for a user's bind DN. You can leave this blank if it is possible to perform the bind DN search using an anonymous bind.
	• From: Zeus/Authen/LDAP.pm:403
	Requires: auth!type is set to "LDAP"
	Value type: string
	• Default value: <none></none>
ldap!searchpass	If binding to the LDAP server using ldap!searchdn requires a password, enter it here.
	• From: Zeus/Authen/LDAP.pm:416
	Requires: auth!type is set to "LDAP"
	Value type: password
	• Default value: <none></none>
ldap!server	The IP or hostname of the LDAP server.
1	• From: Zeus/Authen/LDAP.pm:323
	Requires: auth!type is set to "LDAP"
	Value type: string
	• Default value: <none></none>
ldap!timeout	Connection timeout in seconds.
-	• From: Zeus/Authen/LDAP.pm:346
	Requires: auth!type is set to "LDAP"
	Value type: unsigned integer
	• Default value: "30"

conf/auth Configuration Sections

Key	Description
radius!fallbackgroup	If no group is found using the vendor and group identifiers, or the group found is not valid, the group specified here will be used.
	• From: Zeus/Authen/RADIUS.pm:322
	 Requires: auth!type is set to "RADIUS"
	Value type: string
	• Default value: <none></none>
radius!groupattr	The RADIUS identifier for the attribute that specifies an account's group. May be left blank if radius!fallbackgroup is specified.
	• From: Zeus/Authen/RADIUS.pm:310
	Requires: auth!type is set to "RADIUS"
	Value type: unsigned integer
	Default value: "1"
radius!groupvendor	The RADIUS identifier for the vendor of the RADIUS attribute that specifies an account's group. Leave blank if using a standard attribute (i.e. for Filter-Id set radius!groupattr to 11).
	 From: Zeus/Authen/RADIUS.pm:299
	 Requires: auth!type is set to "RADIUS"
	Value type: unsigned integer
	• Default value: "7146"
radius!nas-identifier	This value is sent to the RADIUS server.
	• From: Zeus/Authen/RADIUS.pm:343
	Requires: auth!type is set to "RADIUS"
	Value type: string
	• Default value: <none></none>
radius!nas-ip-address	This value is sent to the RADIUS server, if left blank the address of the interfaced used to connect to the server will be used.
	• From: Zeus/Authen/RADIUS.pm:333
	 Requires: auth!type is set to "RADIUS"
	Value type: string
	• Default value: <none></none>
radius!port	The port to connect to the RADIUS server on.
•	• From: Zeus/Authen/RADIUS.pm:266
	 Requires: auth!type is set to "RADIUS"
	Value type: unsigned integer
	• Default value: "1812"
radius!secret	Secret key shared with the RADIUS server.
	• From: Zeus/Authen/RADIUS.pm:287
	Requires: auth!type is set to "RADIUS"
	Value type: password
	• Default value: <none></none>

Configuration Sections conf/auth

Key	Description
radius!server	The IP or hostname of the RADIUS server.
	• From: Zeus/Authen/RADIUS.pm:255
	• Requires: auth!type is set to "RADIUS"
	Value type: string
	• Default value: <none></none>
radius!timeout	Connection timeout in seconds.
	• From: Zeus/Authen/RADIUS.pm:276
	 Requires: auth!type is set to "RADIUS"
	Value type: unsigned integer
	• Default value: "30"
Additional keys used when ty	pe is "TACACSPlus"
tacacsplus!authtype	Authentication type to use.
	• From: Zeus/Authen/TACACSPlus.pm:204
	 Requires: auth!type is set to "TACACSPlus"
	Value type: enumeration
	Default value: "PAP"
	Permitted values:
	PAP: PAP
	ASCII: ASCII
tacacsplus!fallbackgroup	If tacacsplus!groupsvc is not defined above, or no group value is provided for the user by the TACACS+ server, the group specified here will be used. If this is not specified, users with no TACACS+ defined group will be denied access.
	• From: Zeus/Authen/TACACSPlus.pm:239
	Requires: auth!type is set to "TACACSPlus"
	Value type: string
	• Default value: <none></none>
tacacsplus!groupfield	The TACACS+ "service" field that provides each user's group.
-	• From: Zeus/Authen/TACACSPlus.pm:225
	 Requires: auth!type is set to "TACACSPlus"
	Value type: string
	Default value: "permission-group"
tacacsplus!groupsvc	The TACACS+ "service" that provides each user's group field.
	• From: Zeus/Authen/TACACSPlus.pm:214
	• Requires: auth!type is set to "TACACSPlus"
	Value type: string
	Default value: "zeus"

conf/authenticators Configuration Sections

Key	Description
tacacsplus!port	The port to connect to the TACACS+ server on.
	• From: Zeus/Authen/TACACSPlus.pm:173
	 Requires: auth!type is set to "TACACSPlus"
	Value type: unsigned integer
	• Default value: "49"
tacacsplus!secret	Secret key shared with the TACACS+ server.
	• From: Zeus/Authen/TACACSPlus.pm:194
	 Requires: auth!type is set to "TACACSPlus"
	Value type: password
	• Default value: <none></none>
tacacsplus!server	The IP or hostname of the TACACS+ server.
	• From: Zeus/Authen/TACACSPlus.pm:162
	 Requires: auth!type is set to "TACACSPlus"
	Value type: string
	• Default value: <none></none>
tacacsplus!timeout	Connection timeout in seconds.
	• From: Zeus/Authen/TACACSPlus.pm:183
	 Requires: auth!type is set to "TACACSPlus"
	Value type: unsigned integer
	Default value: "30"

conf/authenticators

The conf/authenticators directory contains configuration files for external authenticators. The name of a file is the name of the authenticator it defines. Authenticators can be configured under the Catalogs > Authenticators section of the Admin Server UI or by using functions under the Catalog. Authenticators section of the SOAP API and CLI.

Key	Description
host	The hostname or IP address of the remote authenticator.
	• From://products/zxtm/lb/authenticator.cpp:50
	Value type: string
	• Default value: <none></none>
ldap!attr	A list of attributes to return from the search. If blank, no attributes will be returned. If set to '*' then all user attributes will be returned.
	• From://products/zxtm/lb/authenticator.cpp:114
	Value type: list
	• Default value: <none></none>

Configuration Sections conf/authenticators

Key	Description
ldap!bind!dn	The distinguished name (DN) of the 'bind' user. The traffic manager will connect to the LDAP server as this user when searching for user records.
	From://products/zxtm/lb/authenticator.cpp:72
	Value type: string
	Default value: <none></none>
ldap!bind!password	The password for the bind user.
	• From://products/zxtm/lb/authenticator.cpp:81
	Value type: password
	• Default value: <none></none>
ldap!filter	The filter used to locate the LDAP record for the user being authenticated. Any occurrences of '%u' in the filter will be replaced by the name of the user being authenticated.
	• From://products/zxtm/lb/authenticator.cpp:95
	Value type: string
	• Default value: <none></none>
ldap!filter!basedn	The base distinguished name (DN) under which user records are located on the server.
	• From://products/zxtm/lb/authenticator.cpp:104
	Value type: string
	• Default value: <none></none>
ldap!ssl	Whether or not to enable SSL encryption to the LDAP server.
	• From://products/zxtm/lb/authenticator.cpp:121
	Value type: Yes / No
	Default value: "No"
ldap!ssl!cert	The SSL certificate that the traffic manager should use to validate the remote server. If no certificate is specified then no signature validation will be performed.
	• From://products/zxtm/lb/authenticator.cpp:144
	Value type: string
	• Default value: <none></none>
ldap!ssl!type	The type of LDAP SSL encryption to use.
	• From://products/zxtm/lb/authenticator.cpp:132
	Value type: enumeration
	Default value: "Idaps"
	Permitted values:
	ldaps: LDAPS
	starttls: Start TLS

conf/bandwidth Configuration Sections

Key	Description
note	A description of the authenticator.
	• From://products/zxtm/lb/authenticator.cpp:42
	Value type: string
	• Default value: <none></none>
port	The port on which the remote authenticator should be contacted.
	• From://products/zxtm/lb/authenticator.cpp:58
	Value type: unsigned integer
	• Default value: "389"

conf/bandwidth

The conf/bandwidth directory contains configuration files for bandwidth classes. The name of a file is the name of the bandwidth class it defines. Bandwidth classes can be configured under the Catalogs > Bandwidth section of the Admin Server UI or by using functions under the Catalog.Bandwidth section of the SOAP API and CLI.

Key	Description
maximum	The maximum bandwidth to allocate to connections that are associated with this bandwidth class (in kbits/second).
	• From://products/zxtm/lb/bandwidth.cpp:149
	Value type: unsigned integer
	• Default value: "10000"
note	A description of this bandwidth class.
	• From://products/zxtm/lb/bandwidth.cpp:141
	Value type: string
	• Default value: <none></none>
sharing	The scope of the bandwidth class.
	• From://products/zxtm/lb/bandwidth.cpp:161
	Value type: enumeration
	Default value: "cluster"
	Permitted values:
	connection: Each connection can use the maximum rate
	machine: Bandwidth is shared per traffic manager
	cluster: Bandwidth is shared across all traffic managers

Configuration Sections conf/bgpneighbors

conf/bgpneighbors

The conf/bgpneighbors directory contains configuration files for BGP neighbors. The name of a file is the name of the neighbor configuration that it defines. BGP neighbors can be managed under the System > Fault Tolerance > BGP Neighbors section of the Admin UI, or by using functions under the BGPNeighbors section of the SOAP API and CLI.

address	
address	The IP address of the BGP neighbor
	• From://products/zxtm/flipper/config.cpp:398
	Value type: string
	• Default value: <none></none>
advertisement_interval	The minimum interval between the sending of BGP routing updates to neighbors. Note that as a result of jitter, as defined for BGP, the interval during which no advertisements are sent will be between 75% and 100% of this value.
	• From://products/zxtm/flipper/config.cpp:451
	Value type: seconds
	• Default value: "5"
as_number	The AS number for the BGP neighbor
	• From://products/zxtm/flipper/config.cpp:411
	Value type: unsigned integer
	• Default value: "65534"
authentication_password	The password to be used for authentication of sessions with neighbors
	• From://products/zxtm/flipper/config.cpp:463
	Value type: string
	• Default value: <none></none>
holdtime	The period after which the BGP session with the neighbor is deemed to have become idle - and requires re-establishment - if the neighbor falls silent.
	• From://products/zxtm/flipper/config.cpp:437
	Value type: seconds
	• Default value: "90"
keepalive	The interval at which messages are sent to the BGP neighbor to keep the mutual BGP session established.
	• From://products/zxtm/flipper/config.cpp:424
	Value type: seconds
	• Default value: "30"
machines	The traffic managers that are to use this neighbor
	• From://products/zxtm/flipper/config.cpp:484
	Value type: list
	• Default value: <none></none>

conf/cloudcredentials Configuration Sections

conf/cloudcredentials

Configuration for cloud credentials used in cloud API calls.

Key	Description
api_server	The vCenter server hostname or IP address.
	• From://products/zxtm/lb/cloudcred_conf.cpp:120
	Value type: string
	• Default value: <none></none>
authurl	The host to contact with the credentials in order to retrieve a new authentication token.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/cloudcred_conf.cpp:112
	Value type: string
	• Default value: "https://auth.api.rackspacecloud.com"
change_process_timeout	The amount of time a change process can take at most. The traffic manager creates and destroys nodes via API calls. This setting specifies how long to wait for such calls to complete.
	• From://products/zxtm/lb/cloudcred_conf.cpp:48
	Value type: unsigned integer
	• Default value: "200"
cred1	The first part of the credentials for the cloud user. Typically this is some variation on the username concept.
	• From://products/zxtm/lb/cloudcred_conf.cpp:71
	Value type: string
	• Default value: <none></none>
cred2	The second part of the credentials for the cloud user. Typically this is some variation on the password concept.
	• From://products/zxtm/lb/cloudcred_conf.cpp:83
	Value type: password
	• Default value: <none></none>
cred3	The third part of the credentials for the cloud user. Typically this is some variation on the authentication token concept.
	• From://products/zxtm/lb/cloudcred_conf.cpp:95
	Value type: password
	• Default value: <none></none>
script	The script to call for communication with the cloud API.
	• From://products/zxtm/lb/cloudcred_conf.cpp:59
	Value type: string
	Default value: <none></none>

Configuration Sections conf/commkey

Key	Description
status_reports_delta	Whether the cloud API supports a 'delta' mode for status calls.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/cloudcred_conf.cpp:102
	• Value type: Yes / No
	Default value: "Yes"
update_interval	The traffic manager will periodically check the status of the cloud through an API call. This setting specifies the interval between such updates.
	• From://products/zxtm/lb/cloudcred_conf.cpp:38
	Value type: unsigned integer
	• Default value: "30"

conf/commkey

The conf/commkey file is for internal use only. You should never manually alter this file.

Key	Description
There are no items to display for this configuration type.	

conf/custom

Custom configuration sets store arbitrary named values. These values can be read by SOAP or REST clients.

Key	Description
stringlist!*	Named list of user-specified strings.
	• From://products/zxtm/lb/custom_conf.cpp:37
	Value type: list
	• Default value: <none></none>

conf/dnsserver/zonefiles

The conf/dnsserver/zonefiles/ directory contains files that define DNS zones.

Key	Description	
There are no items to display for this configuration type.		

conf/dnsserver/zones Configuration Sections

conf/dnsserver/zones

The conf/dnsserver/zones/ file contains zone metadata

Key	Description
origin	The domain origin of this Zone.
	• From://products/zxtm/lb/dns_config.cpp:79
	Value type: string
	• Default value: <none></none>
zonefile	The Zone File encapsulated by this Zone.
	• From://products/zxtm/lb/dns_config.cpp:91
	Value type: string
	• Default value: <none></none>

conf/events

The conf/events directory contains configuration files that tie actions to a set of events. In the web UI this functionality is controlled using the System > Alerting and System > Alerting > Event Types pages. The configuration files in conf/events represent the functionality configured on both these pages. The name of the configuration files are the "Event Type" names as shown in the UI. In the SOAP API and CLI this is managed in the Alerting. Event Type section. The events subscribed to by a particular event type configuration are identified by an object type and a set of event tags using keys of the form "type!
object-type>!event_tags <tag-list>". For example: "type!vservers!event_tags vsstart vsstop". The events subscribed to can be further filtered to specific configuration objects using keys of the form "type!
object-type>!object_names <object-names>". The table below lists the object types and all the event tags that are available for them.

Key	Description
actions	The actions triggered by events matching this event type. (See the type!*!event_tags and type!*!object_names keys.) The value is a list of files to execute when a matching event occurs, these files must be located within the conf/actions directory. Refer to the documentation for the conf/actions configuration section for more information regarding how these files are executed.
	• From://products/zxtm/eventd/eventhandler.cpp:142
	Value type: list
	• Default value: <none></none>
built_in	If set to Yes this indicates that this configuration is built-in (provided as part of the software) and cannot be deleted or edited.
	• From://products/zxtm/eventd/eventhandler.cpp:166
	Value type: Yes / No
	Default value: "No"

Configuration Sections conf/events

Key	Description
log2mainlog	Whether or not the triggering of this event type will be logged to the main event log.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/eventd/eventhandler.cpp:175
	• Value type: Yes / No
	Default value: "Yes"
note	A description of this event type.
	• From://products/zxtm/eventd/eventhandler.cpp:153
	Value type: string
	Default value: <none></none>

conf/events Configuration Sections

Key	Description
type!*!event_tags	This key is used to specify the object types and event tags that will trigger the configured actions. The object type is specified in place of the * (asterisk) in the key name. The key can be used multiple times in a configuration file to subscribe to events from multiple object types. The value can be * (asterisk) to subscribe to all events raised by the specified object type, or can be a list of specific event tags (refer to the table in the conf/events section documentation for a list of all object types and event tags).
	The following example sends an email alert when any virtual server starts or stops:
	actions E-Mail
	type!vservers!event_tags vsstart vsstop
	type!vservers!object_names *
	If this is in a file named conf/events/VSStartStop then on the System > Alerting UI page a mapping will be shown associating the event type "VSStartStop" with the action "E-Mail". See type!*!object_names for additional information.
	• From://products/zxtm/eventd/eventhandler.cpp:91
	Value type: list
	• Default value: <none></none>
type!*!object_names	This key can be used to restrict the events that will trigger the configured actions to ones raised by objects with specific names (filenames). The * (asterisk) in the key must be replaced by an object type matching one that has also been used in a type! object-type>!event_tags key. The value is a list containing the names of objects of the type specified in the key. (If this key is not specified then the default value of * (asterisk) is assumed, which means to subscribe to events from all objects of the given type).
	The following example sends email alert whenever the virtual server named "Very Important" starts or stops:
	actions E-Mail
	type!vservers!event_tags vsstart vsstop
	type!vservers!object_names "Very Important"
	If this is in a file named conf/events/VSStartStop then on the System > Alerting UI page a mapping will be shown associating the event type "VSStartStop" with the action "E-Mail". See type!*!event_tags for additional information.
	• From://products/zxtm/eventd/eventhandler.cpp:123
	Value type: list
	• Default value: <none></none>

Event tags by object type

Event Tag	Description
Event tags for object type: "cloudo	redentials"
apistatusprocesshanging	A cloud API process querying changes to cloud instances is hanging
autoscaleresponseparseerror	An API call made by the autoscaler process has returned a response that could not be parsed

Configuration Sections conf/events

Event Tag	Description
autoscalestatusupdateerror	An API call made by the autoscaler process has reported an error
autoscalingprocesstimedout	A cloud API process has timed out
usedcredsdeleted	A Cloud Credentials object has been deleted but it was still in use
	(The configuration file containing cloud credentials was removed, but the credentials were still being used by one or more autoscaled pools.)
Event tags for object type: "config	"
confadd	Configuration file added
confdel	Configuration file deleted
confmod	Configuration file modified
confok	Configuration file now OK
Event tags for object type: "faultto	elerance"
activatealldead	Activating this machine automatically because it is the only working machine in its Traffic IP Groups
activatedautomatically	Machine has recovered and been activated automatically because it would cause no service disruption
allmachinesok	All machines are working
	(All machines are working)
bgpneighborsdegraded	Some of the BGP neighbors do not have established sessions
bgpneighborsfailed	None of the BGP neighbors have an established session
	(None of the BGP neighbors have an established session)
bgpneighborsok	There are established sessions with all BGP neighbors
	(There are established sessions with all BGP neighbors)
bgpnoneighbors	There are no valid BGP neighbors defined
	(There are no valid BGP neighbors defined)
clockjump	The system clock jumped forwards or backwards by more than one second
clocknotmonotonic	The monotonic system clock went backwards
dropec2ipwarn	Removing EC2 IP Address from all machines; it is no longer a part of any Traffic IP Groups
dropipinfo	Dropping Traffic IP Address due to a configuration change or traffic manager recovery
dropipwarn	Dropping Traffic IP Address due to an error
	(The Traffic IP address was dropped due to a network failure)
ec2flipperraiselocalworking	Moving EC2 IP Address; local machine is working
ec2flipperraiseothersdead	Moving EC2 IP Address; other machines have failed
ec2iperr	Problem occurred when managing an EC2 IP address

conf/events Configuration Sections

Event Tag	Description
ec2nopublicip	Cannot raise Elastic IP on this machine until EC2 provides it with a public IP address
	(An Elastic IP cannot currently be moved to this machine. This is usually because it has recently had its Elastic IP moved to another box, and EC2 has not yet returned its default public IP address.)
ec2nosecondaryprivateip	Cannot raise Elastic IP on this machine as no suitable secondary IP is available on the allowed network card(s)
	(An Elastic IP cannot currently be moved to this machine. This is usually because it doesn't have a secondary private address with either no EIP association assigned to network interface(s) or is used by a virtual server.)
flipperbackendsworking	Back-end nodes are now working
	(Back-end nodes are now working)
flipperdadreraise	Re-raising Traffic IP Address; Operating system did not fully raise the address
	(This address is being re-raised to circumvent the operating system's Duplicate Address Detection feature)
flipperfrontendsworking	Frontend machines are now working
	(The machines that your traffic manager is using to check network connectivity on the frontend (usually the default gateway) are now working)
flipperipexists	Failed to raise Traffic IP Address; the address exists elsewhere on your network and cannot be raised
flipperraiselocalworking	Raising Traffic IP Address; local machine is working
flipperraiseosdrop	Raising Traffic IP Address; Operating System had dropped this IP address
	(Traffic IP Addresses are automatically managed by the traffic manager, and their configuration should only be altered from the vTM Admin Server.)
flipperraiseothersdead	Raising Traffic IP Address; other machines have failed
	(The Traffic IP Address will be raised as a result of the the death of another machine, or a config change.)
flipperraiseremotedropped	This Traffic Manager has re-raised traffic IP addresses as the remote machine which was hosting them has dropped them
flipperrecovered	Machine is ready to raise Traffic IP addresses
machinefail	Remote machine has failed
machineok	Remote machine is now working
	(Remote machine is now working)
machinerecovered	Remote machine has recovered and can raise Traffic IP addresses
machinetimeout	Remote machine has timed out and been marked as failed
multihostload	The amount of load handled by the local machine destined for this Traffic IP has changed
ospfneighborsdegraded	Some of the monitored OSPF neighbors are not peered
	(Some of the neighboring OSPF routers being monitored by flipper!ospfv2_neighbor_addrs are not peered)
ospfneighborsfailed	None of the monitored OSPF neighbors are peered
	(None of the neighboring OSPF routers being monitored by flipper!ospfv2_neighbor_addrs are peered)

Configuration Sections conf/events

Event Tag	Description
ospfneighborsok	All monitored OSPF neighbors are peered
	(The neighboring OSPF routers being monitored by flipper!ospfv2_neighbor_addrs are all peered)
pingbackendfail	Failed to ping back-end nodes
pingfrontendfail	Failed to ping any of the machines used to check the front-end connectivity
pinggwfail	Failed to ping default gateway
pingsendfail	Failed to send ping packets
routingswfailed	Routing software had a major failure and will be restarted
	(The routing software stack used for Route Health Injection has had a major failure and will be restarted.)
routingswfailurelimitreached	Routing software has failed and reached its failure limit
	(The maximum number of failures in a set period has been reached by the routing software stack used for Route Health Injection.)
routingswoperational	Routing software is now operational
	(The routing software stack used for Route Health Injection has started.)
routingswstartfailed	Routing software failed to start
	(The routing software stack used for Route Health Injection failed to start within the allowed time.)
statebaddata	Received an invalid response from another cluster member
	(An incorrectly formatted session persistence state message was received (for example version incompatibility between traffic managers).)
stateconnfail	Failed to connect to another cluster member for state sharing
	(The traffic manager failed to establish the connection used for session persistence state sharing.)
stateok	Successfully connected to another cluster member for state sharing
statereadfail	Reading state data from another cluster member failed
	(The traffic manager failed to read session persistence information from another traffic manager.)
statetimeout	Timeout while sending state data to another cluster member
	(Another traffic manager in the cluster failed to respond to a session persistence state message within (2 * 'state_sync_time').)
stateunexpected	Received unexpected state data from another cluster member
	(A session persistence state message was received when the traffic manager was not expecting it.)
statewritefail	Writing state data to another cluster member failed
	(The traffic manager failed to write session persistence state to another cluster member.)
zclustermoderr	An error occurred when using the zcluster Multi-Hosted IP kernel module
Event tags for object type: "gener	ral"
appfirewallcontrolerror	Application firewall control command failed

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Event Tag	Description
appfirewallcontrolrestarted	Application firewall restarted
	(Application firewall restarted)
appfirewallcontrolstarted	Application firewall started
	(Application firewall started)
appfirewallcontrolstopped	Application firewall stopped
	(Application firewall stopped)
appfirewallcontroltimeout	Application firewall control command timed out
appliance	Appliance notification
audit	An audit log event has occured
autherror	An error occurred during user authentication
autoscaleresolvefailure	A hostname used for DNS-derived Autoscaling doesn't resolve
autoscalinglicenseerror	Autoscaling not permitted by licence key
childcommsfail	There was an error communicating with a child process
	(A helper process did not properly acknowledge a control request.)
confrepfailed	Replication of configuration has failed
confreptimeout	Replication of configuration has timed out
	(Replication of configuration has timed out)
dnszonecreaterecord	The built-in DNS server has failed to create a DNS record
dnszoneparse	The built-in DNS server has failed to parse a DNS zone file
dnszonevalidate	The built-in DNS server has failed to validate a DNS zone file
ec2dataretrievalfailed	Traffic manager failed to get the required data from Amazon servers
	(Traffic manager failed to get the required data from Amazon servers)
ec2dataretrievalsuccessful	Traffic manager has now successfully retrieved the required data from Amazon servers
	(Traffic manager has now successfully retrieved the required data from Amazon servers)
fewfreefds	Running out of free file descriptors
	(There are few free file descriptors remaining; this machine will soon become unable to establish new connections. See the manual for information on tuning to correct this.)
fipsfailinit	FIPS 140-2 cryptographic module initialization failed
•	(A failure occurred when loading or during power-up testing of the FIPS 140-2 cryptographic module.)
fipsfailops	FIPS 140-2 cryptographic module operations failed
	(Unable to fully enable or retain the context for valid use of the FIPS 140-2 cryptographic module in the Traffic Manager.)
geodataloadfail	Failed to load geolocation data
licensetoomanylocations	A location has been disabled because you have exceeded the licence limit

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Event Tag	Description
logdiskfull	Log disk partition full
	(Log disk partition full)
logdiskoverload	Log disk partition usage has exceeded threshold
	(Log disk partition usage has exceeded threshold)
nameserveravailable	DNS-derived Autoscaling will resume updating, as the DNS server is now responding
	(DNS-derived Autoscaling will resume updating, as the DNS server is now responding)
nameserverunavailable	DNS-derived Autoscaling will not update, as the DNS server is unavailable
	(DNS-derived Autoscaling will not update, as the DNS server is unavailable)
numlocations-exceeded	Total number of locations exceeded the maximum limit
numnodes-exceeded	Total number of nodes exceeded the maximum number of nodes that can be monitored
numpools-exceeded	Total number of pools exceeded the maximum limit
numtipg-exceeded	Total number of traffic IP group exceeded the maximum limit
ocspstaplingfail	OCSP request (for OCSP stapling) failed
	(An OCSP request for a certificate, to be used for OCSP stapling has failed. The error log line contains the name of the certificate and the URL to which the request was made.)
ocspstaplingnomem	Insufficient memory for OCSP stapling
	(The memory allocated for OCSP stapling was not large enough to store the responses for all configured certificates.)
ocspstaplingrevoked	An OCSP request (for OCSP stapling) reported that a certificate was revoked
	(An OCSP request for a certificate, to be used for OCSP stapling, was successful but reported that the certificate was revoked. The error log line contains the name of the certificate and the URL to which the request was made.)
ocspstaplingunknown	An OCSP request (for OCSP stapling) reported that a certificate was unknown
	(An OCSP request for a certificate, to be used for OCSP stapling, was successful but reported that the certificate was unknown. The error log line contains the name of the certificate and the URL to which the request was made.)
ocspstaplingunrevoked	An old but good OCSP response was returned for a revoked certificate
	(An OCSP request for a certificate previously indicated that a certificate had been revoked, but a recent response indicates that it is OK. This may indicate an OCSP replay attack. The error log line contains the name of the certificate and the URL to which the request was made.)
restartrequired	Software must be restarted to apply configuration changes
running	Software is running
sslcrltoobig	CRL does not fit in the configured amount of shared memory, increase ssl!crl_mem!size and restart software
timemovedback	Time has been moved back
	(This machine's clock has been set backwards by a significant amount; your traffic manager should be restarted to prevent problems with timeouts, fault tolerance and other areas.)

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Event Tag	Description
zxtmcpustarvation	The number of simultaneously active connections has reached a level that the software cannot process in due time because of CPU starvation; there is a high risk of connections timing out
zxtmhighload	The number of simultaneously active connections has reached a level that the software cannot process in due time; there is a high risk of connections timing out
zxtmswerror	Internal software error
Event tags for object type: "java"	
javadied	Java runner died
javanotfound	Cannot start Java runner, program not found
javastarted	Java runner started
javastartfail	Java runner failed to start
javastop	Java support has stopped
	(Java is now either unlicensed or disabled in Global Settings.)
javaterminatefail	Java runner failed to terminate
	(The process handling Java extensions failed to terminate promptly. Contact your support provider.)
servleterror	Servlet encountered an error
Event tags for object type: "licens	ekeys"
analyticslicensedisabled	Realtime Analytics support has been disabled
analyticslicenseenabled	Realtime Analytics support has been enabled
autoscalinglicensedisabled	Autoscaling support has been disabled
autoscalinglicenseenabled	Autoscaling support has been enabled
bwlimited	License key bandwidth limit has been hit
cachesizereduced	Configured cache size exceeds license limit, only using amount allowed by license
expired	License key has expired
	(License key has expired)
expiresoon	License key expires within 7 days
lessmemallowed	License allows less memory for caching
license-authorized	License key authorized
	(License key authorized)
license-authorized-ts	License key authorized by authorization code
	(License key authorized by authorization code)
license-explicitly disabled-ts	License key explicitly disabled from authorization code
license-graceperiodexpired	Unable to authorize license key
license-graceperiodexpired-ts	Unable to authorize license key
license-rejected-authorized	License server rejected license key; key remains authorized

Configuration Sections conf/events

Event Tag	Description
license-rejected-authorized-ts	License key rejected from authorization code; key remains authorized
license-rejected-unauthorized	License server rejected license key; key is not authorized
	(License server rejected license key; key is not authorized)
license-rejected-unauthorized-ts	License key rejected from authorization code
license-timedout-authorized	Unable to contact license server; license key remains authorized
license-timedout-authorized-ts	Unable to run authorization code to completion; key remains valid
license-timedout-unauthorized	Unable to contact license server; license key is not authorized
	(Unable to contact license server; license key is not authorized)
license-timedout-unauthorized-ts	Unable to run authorization code to completion
license-unauthorized	License key is not authorized
	(License key is not authorized)
licenseclustertoobig	Cluster size exceeds license key limit
licensecorrupt	License key is corrupt
	(This key is invalid and cannot be used; you should upload a valid key.)
licensestate-malformed	Error detected in LicenseStateFile format
licensestate-write-failed	Unable to preserve license state
	(The license state file could not be updated.)
morememallowed	License allows more memory for caching
ssltpslimited	License key SSL transactions-per-second limit has been hit
tpslimited	License key transactions-per-second limit has been hit
unlicensed	Started without a license
usingdevlicense	Using a development license
	(Development licenses are severely limited and are not for production use.)
usinglicense	Using license key
	(This license key currently determines the available features, because it has more features than any other available keys.)
Event tags for object type: "location	ns"
locationavailable	Location is now available for GLB Service
	(Location is now available for GLB Service)
locationdisabled	Location has been disabled for GLB Service
	(Location has been disabled for GLB Service)
locationdraining	Location is being drained for GLB Service
	(Location is being drained for GLB Service)
locationenabled	Location has just been enabled for GLB Service
	(Location has just been enabled for GLB Service)
locationfail	Location has failed for GLB Service
	(Location has failed for GLB Service)

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Event Tag	Description
locationmonitorfail	A monitor has detected a failure in this location
locationmonitorok	A monitor has indicated this location is now working
locationnotdraining	Location is not being drained for GLB Service
	(Location is not being drained for GLB Service)
locationok	Location is now healthy for GLB Service
	(Location is now healthy for GLB Service)
locationsoapfail	An external SOAP agent has detected a failure in this location
	(An external SOAP agent has detected a failure in this location)
locationsoapok	An external SOAP agent indicates this location is now working
	(An external SOAP agent indicates this location is now working)
locationunavailable	Location has become unavailable for GLB Service
	(Location has become unavailable for GLB Service)
locempty	Location no longer contains any machines
locmovemachine	Machine now in location
Event tags for object type: "monito	rs"
monitorfail	Monitor has detected a failure
monitorok	Monitor is working
Event tags for object type: "pools"	
apichangeprocesshanging	API change process still running after refractory period is over
autonodecreationcomplete	The creation of a new node requested by an autoscaled pool is now complete
autonodecreationstarted	Creation of new node instigated
autonodedestroyed	A cloud API call to destroy a node has been started
autonodedestructioncomplete	The destruction of a node in an autoscaled pool is now complete
autonodedisappeared	A node in an autoscaled pool has disappeared from the cloud
autonodeexisted	IP address of newly created instance already existed in pool's node list
	(The autoscaler has been informed about the completion of an instance creation in the cloud, but unexpectedly a node with the same ip address already existed in the pool's node list.)
autonodenopublicip	Node has no public IP address
	(We want the public IP but it is unset)
autonoderemoved	A node in an DNS-derived autoscaled pool has been removed
autonodestatuschange	The status of a node in an autoscaled pool has changed
	(The status of a node in an autoscaled pool has changed. This can be, for instance, a node moving from the 'pending' state, when it is still being created/finalized in the cloud environment, to the 'active' state, when it can be fully used.)
autoscalednodecontested	Two pools are trying to use the same instance

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Event Tag	Description
autoscaledpoolrefractory	An autoscaled pool is now refractory
	(An autoscaled pool's size has recently changed, so no further changes are made until it has settled down)
autoscaledpooltoobig	Over maximum size - shrinking
autoscaledpooltoosmall	Minimum size undercut - growing
auto scale invalidar g for create node	The 'imageid' was empty when attempting to create a node in an autoscaled pool
autoscaleinvalidargfordeletenode	'unique id' was empty when attempting to destroy a node in an autoscaled pool
autoscalepoolconfupdate	A pool config file has been updated by the autoscaler process
autoscalewrongimageid	A node created by the autoscaler has the wrong imageid
autoscalewrongname	A node created by the autoscaler has a non-matching name
autoscalewrongsizeid	A node created by the autoscaler has the wrong sizeid
autoscalingchangeprocessfailure	An API process that should have created or destroyed a node has failed to produce the expected result
autoscalingdisabled	Autoscaling for a pool has been disabled due to errors communicating with the cloud API
autoscalinghitfloor	Minimum size reached, cannot shrink further
autoscalinghitroof	Maximum size reached by autoscaled pool, cannot grow further
autoscalinghysteresiscantgrow	An autoscaled pool is waiting to grow
	(An autoscaled pool should grow according to its response statistics, but the hysteresis setting demands that the growth condition persist for a longer time before the pool actually creates a new node.)
autoscalinghysteresiscantshrink	An autoscaled pool is waiting to shrink
	(An autoscaled pool should shrink according to its response statistics, but the hysteresis setting demands that the shrink condition persist for a longer time before the pool actually creates a new node.)
autoscalingpoolstatechange	An autoscaled pool's state has changed
autoscalingresuscitatepool	An autoscaled pool has failed completely
badcontentlen	HTTP response contained an invalid Content-Length header
	(The HTTP response contained an invalid 'Content-Length' header. The traffic manager will not be able to detect the end of the response and the response cannot make use of keep-alives.)
cannotshrinkemptypool	Attempt to scale down a pool that only had pending nodes or none at all
ehloinvalid	Node returned invalid EHLO response
nodedrainingtodelete	Removed node is in use and will be drained
	(Removed node is in use and will be drained)
nodedrainingtodeletetimeout	Draining to delete period for node has expired
	(Draining to delete period has timed out for node.)
nodefail	Node has failed
noderesolvefailure	Failed to resolve node address

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noderesolvemultiple Node resolves to multiple IP addresses nodeworking Node is working again nostarttls Node doesn't provide STARTTLS support pooldied Pool has no back-end nodes responding poolnonodes Pool configuration contains no valid backend nodes poolok Pool now has working nodes (One or more nodes are now available for this pool.) starttlsinvalid Node returned invalid STARTTLS response Event tags for object type: "protection" triggersummary Summary of recent service protection events (Service protection has generated a summary of recent events. The frequency of these messages is configured by log_time on each service protection class.) Event tags for object type: "rules" aptimizedisabled Rule attempted to use Aptimizer but it is not enabled aptimizeuseunknownscope Rule selected an unknown Aptimizer scope datalocalstorefull data.set() has run out of space datalocalstorefull data.set() has run out of space (data.set() operations will continue to fail until data.remove() or data.reset() is used) forwardproxybadhost Rule selected an unresolvable host (A rule selected a host which could not be resolved to an IP address) invalidemit Rule used event emit() with an invalid custom event (The event ID was empty or contained invalid characters.) norate Rule selected an unknown pool via pool.activenodes pooluseunknown Rule references an unknown pool via pool.activenodes pooluseunknown Rule references an unknown pool via pool.activenodes Rule selected an unknown pool ruleabort Rule encountered invalid data while uncompressing response (Rule could not decompress a compressed HTTP response body) rulebufferlarge Rule has buffered more data than expected according to the configuration setting traffics, refightemenory, warming in the Clobal Settings page. This is a warming only, this connection will continue to be handled. If many connection sected the limit at the same time, your traffic ananager might slow down or run out of memory. Consider re-writing the rule to reduce its memory usage or changing the limit.	Event Tag	Description
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Poolok (One or more nodes are now available for this pool.) starttlsinvalid Node returned invalid STARTTLS response Event tags for object type: "protection" triggersummary Summary of recent service protection events (Service protection has generated a summary of recent events. The frequency of these messages is configured by log_time on each service protection class.) Event tags for object type: "rules" aptimizedisabled Rule attempted to use Aptimizer but it is not enabled aptimizeuseunknownprofile Rule selected an unknown Aptimizer profile aptimizeuseunknownscope Rule selected an unknown Aptimizer scope datalocalstorefull data.local.set() has run out of space (data.set() operations will continue to fail until data.remove() or data.reset() is used) forwardproxybadhost Rule selected an unresolvable host (A rule selected a host which could not be resolved to an IP address) invalidemit Rule used event.emit() with an invalid custom event (The event ID was empty or contained invalid characters.) norate Rule selected an unknown pool via pool.activenodes poolactivenodesunknown Rule references an unknown pool via pool.activenodes poolactivenodesunknown Rule aborted during execution rulebodycomperror Rule aborted during execution rulebodycomperror Rule encountered invalid data while uncompressing response (Rule could not decompress a compressed HTTP response body) rulebufferlarge Rule has buffered more data than expected (A rule is using more data than expected according to the configuration setting trafficscriptimemory, warning in the Global Settings page. This is a warning only; this connection will continue to be handled. If many connections exceed the limit at the same time, your traffic manager might slow down or run out of memory. Consider re-writing the rule to reduce its memory usage or changing the limit.)	pooldied	Pool has no back-end nodes responding
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rulelogmsgserious Rule logged an error message using log.error	rulelogmsginfo	Rule logged an info message using log.info
	rulelogmsgserious	Rule logged an error message using log.error

Configuration Sections conf/events

Event Tag	Description
rulelogmsgwarn	Rule logged a warning message using log.warn
rulenopersistence	Rule selected an unknown session persistence class
ruleoverrun	Rule exceeded execution time warning threshold
rulesinvalidrequestbody	Client sent invalid HTTP request body
	(Invalid request body data encountered by rule)
rulestreamerrorgetresponse	Attempt to use http.getResponse or http.getResponseBody after http.stream.startResponse
	$(At tempt\ to\ use\ http.getResponse\ or\ http.getResponseBody\ after\ http.stream.startResponse.)$
rulestreamerrorinternal	Internal error while processing HTTP stream
rulestreamerrornotenough	Rule did not supply enough data in HTTP stream
	(Rule had specified a content length but then supplied less data than advertised. Correct Content-Length header in rule/Java Extension or remove it altogether.)
rulestreamerrornotfinished	Attempt to initialize HTTP stream before previous stream had finished
	(Either a rule called http.stream.startResponse() twice or a rule failed to call http.stream.finishResponse() and its connection was kept-alive. Check the use of the http.stream.* TrafficScript * functions in your rules.)
rulestreamerrornotstarted	Attempt to stream data or finish a stream before streaming had been initialized
	(A rule called http.stream.writeResponse() or http.stream.finishResponse() before calling http.stream.startResponse(). Check the use of the http.stream.* TrafficScript functions in your rules.)
rulestreamerrorprocessfailure	Data supplied to HTTP stream could not be processed
	(The data provided by a rule for streaming could not be processed successfully. Check the use of the http.stream.* TrafficScript functions in your rules.)
rulestreamerrortoomuch	Rule supplied too much data in HTTP stream
	(Rule had specified a content length but then supplied more data than advertised. Correct Content-Length header in rule/Java Extension or remove it altogether.)
rulexmlerr	Rule encountered an XML error
serviceruleabort	GLB service rule aborted during execution
servicerulelocdead	GLB service rule specified a location that has either failed or been marked as draining in the service configuration
servicerulelocnotconfigured	GLB service rule specified a location that is not configured for the service
servicerulelocunknown	GLB service rule specified an unknown location
Event tags for object type: "service	ces"
glbactivedcmismatch	Active datacentre mismatches among cluster members
glbdeadlocmissingips	A DNS Query returned IP addresses that are not configured for any location that is currently alive
glbfailalter	Failed to alter DNS packet for global load balancing
	(The DNS packet could not be altered. This usually occurs when the record is signed using DNSSEC, and there is no private key configured to re-sign it.)

conf/events Configuration Sections

Event Tag	Description
glblogwritefail	Failed to write log file for GLB service
glbmanualfailback	Manual failback triggered
	(Manual failback triggered)
glbmissingips	A DNS Query returned IP addresses that are not configured in any location
glbnewmaster	A location has been set as active for a GLB service
glbnolocations	No valid location could be chosen for Global Load Balancing
glbservicedied	GLB Service has failed
	(GLB Service has failed)
glbserviceok	GLB Service has recovered
	(GLB Service has recovered)
glbtoomanylocations	There are too many Data Centers configured and the Global Load Balancing feature is not guaranteed to work reliably with more than 255 Data Centres
Event tags for object type: "slm"	
slmclasslimitexceeded	SLM shared memory limit exceeded
	(The number of SLM classes configured requires more shared memory than is currently reserved for them. SLM classes will continue to work, but with reduced accuracy. For full accuracy, please increase the configuration key slm_class_limit on the Global Settings page and restart your traffic manager.)
slmfallenbelowserious	SLM has fallen below serious threshold
	(The percentage of requests meeting the monitor's criteria has fallen below the serious threshold.)
slmfallenbelowwarn	SLM has fallen below warning threshold
	(A lower percentage of requests meet this monitor's criteria than desired, and this was not the case at the previous check.)
slmnodeinfo	Node information when SLM is non-conforming (no SNMP trap)
	(A summary of the nodes that have contributed to the SLM failure when it falls below the serious threshold. This event will not trigger an SNMP trap.)
slmrecoveredserious	SLM has risen above the serious threshold
	(The percentage of requests that meet this monitor's criteria has risen above the serious threshold. The percentage was below the serious threshold at the previous check.)
slmrecoveredwarn	SLM has recovered
	(The percentage of requests that meet this monitor's criteria has risen above the warning threshold. The percentage was below the warning threshold at the previous check.)
Event tags for object type: "sslhw"	
sslhwfail	SSL hardware support failed
	(SSL hardware support has stopped with an error)
sslhwrestart	SSL hardware support restarted
sslhwstart	SSL hardware support started

Configuration Sections conf/events

Event Tag	Description
connerror	A protocol error has occurred
connfail	A socket connection failure has occurred
dnsaddzone	The built-in DNS server has successfully added a DNS zone
dnserroraddzone	The built-in DNS server has failed to add a DNS zone
dnserrordeletezone	The built-in DNS server has failed to delete a DNS zone
dnssecexpired	DNSSEC zone contains expired signatures
	(DNSSEC zone contains expired signatures)
dnssecexpires	DNSSEC zone contains signatures that are about to expire
	(DNSSEC zone contains signatures that are about to expire)
dnszonedelete	DNS zone has been deleted
logfiledeleted	A virtual server request log file was deleted (appliances only)
maxclientbufferdrop	Dropped connection, request exceeded max_client_buffer limit
	(The traffic manager is still reading the request, but the amount of data read in is larger than max_client_buffer - abandon the connection)
poolpersistencemismatch	Pool uses a session persistence class that does not work with this virtual server's protocol
privkeyok	Private key now OK (hardware available)
	(The private key for this virtual server is now available, because some required hardware is available again.)
respcompfail	Error compressing HTTP response
responsetoolarge	Response headers from webserver too large
	(The response headers from the webserver were bigger than max_server_buffer; the request will be rejected with an error.)
rtspstreamnoports	No suitable ports available for streaming data connection
	(Consider changing the tuneables 'streaming_portrange_low' and 'streaming_portrange_high'.)
sipstreamnoports	No suitable ports available for streaming data connection
	(Consider changing the tuneables 'streaming_portrange_low' and 'streaming_portrange_high'.)
ssldrop	Request(s) received while SSL configuration invalid, connection closed
sslfail	One or more SSL connections from clients failed recently
	(One or more SSL connections from clients failed recently)
sslhandshakemsgsizelimit	SSL handshake messages have exceeded the size permitted by configuration
	(SSL handshake messages have exceeded the size permitted by configuration.)
sslrehandshakemininterval	SSL re-handshake requests have exceeded the frequency permitted by configuration
	(SSL re-handshake requests have exceeded the frequency permitted by configuration.)
vscacertexpired	Certificate Authority certificate expired
	(Certificate Authority certificate expired)

conf/extra Configuration Sections

Event Tag	Description
vscacerttoexpire	Certificate Authority certificate will expire within seven days
	(Certificate Authority certificate to expire)
vscrloutofdate	CRL for a Certificate Authority is out of date
vslogwritefail	Failed to write log file for virtual server
vssslcertexpired	Public SSL certificate expired
	(Public SSL certificate expired)
vssslcerttoexpire	Public SSL certificate will expire within seven days
	(Public SSL certificate to expire)
vsstart	Virtual server started
vsstop	Virtual server stopped
Event tags for object type: "zxtms"	
versionmismatch	Configuration update refused: traffic manager version mismatch

conf/extra

The conf/extra directory contains miscellaneous user-uploaded files. These files can be used in TrafficScript code using the resource.get function. The files can be managed under the Catalogs > Extra Files > Miscellaneous Files section of the Admin Server UI or by using functions under the Conf.Extra section of the SOAP API and CLI.

Key	Description	
There are no items to display for this configuration type.		

conf/flipper

The conf/flipper directory contains configuration files for traffic IP groups. The name of a file is the name of the traffic IP group it defines. Traffic IP groups can be managed under the Services > Traffic IP Groups section of the Admin Server UI or by using functions under the TrafficIPGroups section of the SOAP API and CLI. \gui_only \regex.* \errortext no error \soap_ignore

Configuration Sections conf/flipper

Key	Description
enabled	If set to No, the traffic IP group will be disabled and none of the traffic IP addresses will be raised.
	• From://products/zxtm/flipper/config.cpp:256
	Value type: Yes / No
	Default value: "Yes"
hash_srcport	Whether or not the source port should be taken into account when deciding which traffic manager should handle a request.
	• From://products/zxtm/flipper/config.cpp:307
	 Requires: mode is set to "multihosted"
	Value type: Yes / No
	Default value: "No"
ipaddress!*!machine	Assigns a traffic IP address to a specific traffic manager, while the traffic manager is operating correctly it will host the address. The IP address must be one from the ipaddresses list and takes the place of the * in the key name, the key value is the name of the traffic manager that should host the IP address. If this is not specified for an IP address the address is automatically assigned to a machine.
	• From://products/zxtm/flipper/config.cpp:233
	Value type: string
	• Default value: <none></none>
ipaddresses	The IP addresses that belong to the Traffic IP group.
	• From://products/zxtm/flipper/config.cpp:179
	Value type: list
	• Default value: <none></none>
keeptogether	If set to Yes then all the traffic IPs will be raised on a single traffic manager. By default they're distributed across all active traffic managers in the traffic IP group.
	• From://products/zxtm/flipper/config.cpp:246
	• Value type: Yes / No
	Default value: "No"
location	The location in which the Traffic IP group is based.
	• From://products/zxtm/flipper/config.cpp:190
	Value type: int
	• Default value: "0"
machines	The traffic managers that can host the traffic IP group's IP addresses.
	• From://products/zxtm/flipper/config.cpp:159
	Value type: list
	• Default value: <none></none>

conf/flipper Configuration Sections

Key	Description
mode	The method used to distribute traffic IPs across machines in the cluster. If "multihosted" is used then multicast must be set to an appropriate multicast IP address.
	• From://products/zxtm/flipper/config.cpp:277
	Value type: enumeration
	Default value: "singlehosted"
	Permitted values:
	singlehosted: Raise each address on a single machine (Single-Hosted mode)
	multihosted: Raise each address on every machine in the group (Multi-Hosted mode) - IPv4 only
	$\mbox{\it rhi:}$ Use route health injection to route traffic to the active machine - $\mbox{\it IPv4}$ only
	ec2elastic: Use an EC2-Classic Elastic IP address.
	ec2vpcelastic: Use an EC2-VPC Elastic IP address.
	ec2vpcprivate: Use an EC2-VPC Private IP address.
multicast	The multicast IP address used to duplicate traffic to all traffic managers in the group.
	• From://products/zxtm/flipper/config.cpp:294
	Requires: mode is set to "multihosted"
	Value type: string
	• Default value: <none></none>
note	A note, used to describe this Traffic IP Group
	• From://products/zxtm/flipper/config.cpp:138
	Value type: string
	• Default value: <none></none>
rhi_bgp_metric_base	The base BGP routing metric for this Traffic IP group. This is the advertised routing cost for the active traffic manager in the cluster. It can be used to set up inter-cluster failover.
	• From://products/zxtm/flipper/config.cpp:357
	Requires: mode is set to "rhi"
	Value type: unsigned integer
	Default value: "10"
rhi_bgp_passive_metric_offset	The BGP routing metric offset for this Traffic IP group. This is the difference between the advertised routing cost for the active and passive traffic manager in the cluster.
	• From://products/zxtm/flipper/config.cpp:370
	Requires: mode is set to "rhi"
	Value type: unsigned integer
	Default value: "10"

Configuration Sections conf/groups

Key	Description
rhi_ospfv2_metric_base	The base OSPFv2 routing metric for this Traffic IP group. This is the advertised routing cost for the active traffic manager in the cluster. It can be used to set up inter-cluster failover.
	• From://products/zxtm/flipper/config.cpp:332
	Requires: mode is set to "rhi"
	Value type: unsigned integer
	• Default value: "10"
rhi_ospfv2_passive_metric_offset	The OSPFv2 routing metric offset for this Traffic IP group. This is the difference between the advertised routing cost for the active and passive traffic manager in the cluster.
	• From://products/zxtm/flipper/config.cpp:345
	Requires: mode is set to "rhi"
	Value type: unsigned integer
	• Default value: "10"
rhi_protocols	A list of protocols to be used for RHI. Currently must be 'ospf' or 'bgp' or both. The default, if empty, is 'ospf', which means that it is not possible to specify no protocol.
	• From://products/zxtm/flipper/config.cpp:320
	• Requires: mode is set to "rhi"
	Value type: string
	Default value: "ospf"
slaves	A list of traffic managers that are in 'passive' mode. This means that in a fully working environment, they will not have any traffic IP addresses assigned to them.
	• From://products/zxtm/flipper/config.cpp:216
	Value type: list
	• Default value: <none></none>

conf/groups

Files in the conf/groups directory define the permission groups configured for administrative access to the software. The name of a file is the name of the group it defines. Permission groups can be managed under the System > Users section of the Admin Server UI. Each group will contain a list of configuration keys with names that mostly correspond to pages in the Admin Server UI. These may have values of either none, ro (read only, this is the default), or full. Some permissions have sub-permissions, these are denoted by following the parent permission name with an exclamation mark (!) followed by the sub-permission name. The built-in admin group has a special permission key of all with the value full, this cannot be altered for the admin group but can be used in other group configuration files to change the default permission level for the group.

conf/groups Configuration Sections

Key	Description
description	A description for the group.
	• From://products/zxtm/lb/balancer.cpp:162
	Value type: string
	Default value: <none></none>
password_expire_time	Members of this group must renew their passwords after this number of days. To disable password expiry for the group set this to 0 (zero). Note that this setting applies only to local users.
	• From://products/zxtm/lb/balancer.cpp:184
	Value type: unsigned integer
	Default value: "0"
timeout	Inactive UI sessions will timeout after this number of seconds. To disable inactivity timeouts for the group set this to 0 (zero).
	• From://products/zxtm/lb/balancer.cpp:154
	Value type: unsigned integer
	• Default value: "30"
Permission keys by section	
Section: "Activity"	
Connections	"Connections"
	Permitted values: none, ro, or full
Connections!Details	"Connections > Details"
	Permitted values: none, ro, or full
Web_Cache	"Content Cache"
	Permitted values: none, ro, or full
Web_Cache!Clear	"Content Cache > Clear"
	Permitted values: none, ro, or full
Monitoring	"Current Activity"
	Permitted values: none, ro, or full
Monitoring!Edit	"Current Activity > Edit"
	Permitted values: none, ro, or full
Request_Logs	"Download Logs"
	Permitted values: none, ro, or full
Draining	"Draining Nodes"
-	Permitted values: none, ro, or full
Statd	"Historical Activity"
	Permitted values: none, ro, or full
Map	"Map"
1	Permitted values: none, ro, or full

Configuration Sections conf/groups

Key	Description
Log_Viewer	"View Logs"
	Permitted values: none, ro, or full
Log_Viewer!View	"View Logs > View"
	Permitted values: none, ro, or full
Section: "Advanced Management"	
Appliance_Console	"Appliance Console"
	Permitted values: none or full
	Requires feature: Appliance
Custom	"Custom Configuration Sets"
	Permitted values: none, ro, or full
SOAP_API	"SOAP Control API"
	Permitted values: none or full
	Requires feature: SOAP
Section: "Catalogs"	
Aptimizer	"Aptimizer"
	Permitted values: none, ro, or full
Aptimizer!URL_Sets	"Aptimizer > Application Scopes"
	Permitted values: none, ro, or full
Aptimizer!URL_Sets!Edit	"Aptimizer > Application Scopes > Edit"
	Permitted values: none, ro, or full
Aptimizer!Aptimizer_Profiles	"Aptimizer > Aptimizer Profiles"
	Permitted values: none, ro, or full
Aptimizer!Aptimizer_Profiles!Ed	"Aptimizer > Aptimizer Profiles > Edit"
it	Permitted values: none, ro, or full
Authenticators	"Authenticators"
	Permitted values: none, ro, or full
Authenticators!Edit	"Authenticators > Edit"
	Permitted values: none, ro, or full
Bandwidth	"Bandwidth"
	Permitted values: none, ro, or full
	Requires feature: Bandwidth
Bandwidth!Edit	"Bandwidth > Edit"
	Permitted values: none, ro, or full
	Requires feature: Bandwidth
Bandwidth!Edit!CopyClass	"Bandwidth > Edit > Copy Class"
	Permitted values: none, ro, or full
	Requires feature: Bandwidth

conf/groups Configuration Sections

Key	Description
Cloud_Credentials	"Cloud Credentials"
	Permitted values: none, ro, or full
Cloud_Credentials!Edit	"Cloud Credentials > Edit"
	Permitted values: none, ro, or full
DNS_Server	"DNS Server"
	Permitted values: none, ro, or full
DNS_Server!Zonefiles	"DNS Server > Zone Files"
	Permitted values: none, ro, or full
DNS_Server!Zones	"DNS Server > Zones"
	Permitted values: none, ro, or full
DNS_Server!Zones!Edit	"DNS Server > Zones > Edit"
	Permitted values: none, ro, or full
Extra_Files	"Extra Files"
	Permitted values: none, ro, or full
Extra_Files!Action_Programs	"Extra Files > Action Programs"
	Permitted values: none, ro, or full
Extra_Files!Miscellaneous_Files	"Extra Files > Miscellaneous"
	Permitted values: none, ro, or full
Extra_Files!ExternProgMonitors	"Extra Files > Monitor Programs"
	Permitted values: none, ro, or full
GLB_Services	"GLB Services"
	Permitted values: none, ro, or full
GLB_Services!Edit	"GLB Services > Edit"
	Permitted values: none, ro, or full
GLB_Services!Edit!DNS_Settings	"GLB Services > Edit > DNS Settings"
	Permitted values: none, ro, or full
GLB_Services!Edit!DNSSEC	"GLB Services > Edit > DNSSEC"
	Permitted values: none, ro, or full
GLB_Services!Edit!Load_Balanci	"GLB Services > Edit > Load Balancing"
ng	Permitted values: none, ro, or full
GLB_Services!Edit!Locations	"GLB Services > Edit > Locations"
	Permitted values: none, ro, or full
GLB_Services!Edit!Request_Logg	"GLB Services > Edit > Request Logging"
ing	Permitted values: none, ro, or full
GLB_Services!Edit!Rules	"GLB Services > Edit > Rules"
	Permitted values: none, ro, or full

Configuration Sections conf/groups

Key	Description
Java	"Java"
	Permitted values: none, ro, or full
Java!Edit	"Java > Edit"
	Permitted values: none, ro, or full
Kerberos	"Kerberos"
	Permitted values: none, ro, or full
Kerberos!krb5confs	"Kerberos > Kerberos Configuration Files"
	Permitted values: none, ro, or full
Kerberos!Kerberos_Keytabs	"Kerberos > Kerberos Keytabs"
	Permitted values: none, ro, or full
Kerberos!Kerberos_Principals	"Kerberos > Kerberos Principals"
	Permitted values: none, ro, or full
Kerberos!Kerberos_Principals!Ed	"Kerberos > Kerberos Principals > Edit"
it	Permitted values: none, ro, or full
Locations	"Locations"
	Permitted values: none, ro, or full
Locations!Edit	"Locations > Edit"
	Permitted values: none, ro, or full
Monitors	"Monitors"
	Permitted values: none, ro, or full
Monitors!Edit	"Monitors > Edit"
	Permitted values: none, ro, or full
Monitors!Edit!CopyMonitor	"Monitors > Edit > Copy Monitor"
	Permitted values: none, ro, or full
Catalog	"Overview"
	Permitted values: none, ro, or full
Persistence	"Persistence"
	Permitted values: none, ro, or full
Persistence!Edit	"Persistence > Edit"
	Permitted values: none, ro, or full
Persistence!Edit!CopyClass	"Persistence > Edit > Copy Class"
	Permitted values: none, ro, or full
Service_Protection	"Protection"
	Permitted values: none, ro, or full
Service_Protection!Edit	"Protection > Edit"
	Permitted values: none, ro, or full

conf/groups Configuration Sections

Key	Description
Service_Protection!Edit!CopyCla	"Protection > Edit > Copy Class"
SS	Permitted values: none, ro, or full
Rate	"Rate"
	Permitted values: none, ro, or full
	Requires feature: Rules
Rate!Edit	"Rate > Edit"
	Permitted values: none, ro, or full
	Requires feature: Rules
Rules	"Rules"
	Permitted values: none, ro, or full
	Requires feature: Rules
Rules!GEdit	"Rules > Build"
	Permitted values: none, ro, or full
	Requires feature: Rules
Rules!GEdit!AddAction	"Rules > Build > Add Action"
	Permitted values: none, ro, or full
	Requires feature: Rules
Rules!GEdit!AddCondition	"Rules > Build > Add Condition"
	Permitted values: none, ro, or full
	Requires feature: Rules
Rules!GEdit!Convert	"Rules > Build > Convert"
	Permitted values: none, ro, or full
	Requires feature: Rules
Rules!Edit	"Rules > Edit"
	Permitted values: none, ro, or full
	Requires feature: Rules
Rules!Edit!CheckSyntax	"Rules > Edit > Check Syntax"
	Permitted values: none, ro, or full
	Requires feature: Rules
Rules!Edit!SaveAs	"Rules > Edit > Save As"
	Permitted values: none, ro, or full
	Requires feature: Rules
SLM	"SLM"
	Permitted values: none, ro, or full
	Requires feature: SLM
SLM!Edit	"SLM > Edit"
	Permitted values: none, ro, or full
	remitted values. none, 10, or run

Configuration Sections conf/groups

SLM Edit CopyClass "SLM > Edit > Copy Class" Permitted values: none, ro, or full Requires feature: SLM SSL "SSL" Permitted values: none, ro, or full SSL!CAs "SSL > CAs and CRLs" Permitted values: none, ro, or full SSL!CAs!Edit "SSL > CAs and CRLs > Edit" Permitted values: none, ro, or full SSL!CAs!Import "SSL > CAs and CRLs > Import" Permitted values: none, ro, or full SSL!Client_Certs "SSL > Client Certs" Permitted values: none, ro, or full SSL!Client_Certs "SSL > Client Certs > Edit" Permitted values: none, ro, or full
Requires feature: SLM SSL "SSL" Permitted values: none, ro, or full SSL!CAs "SSL > CAs and CRLs" Permitted values: none, ro, or full SSL!CAs!Edit "SSL > CAs and CRLs > Edit" Permitted values: none, ro, or full SSL!CAs!Import "SSL > CAs and CRLs > Import" Permitted values: none, ro, or full SSL!CIent_Certs "SSL > Client Certs" Permitted values: none, ro, or full SSL!Client_Certs "SSL > Client Certs" Permitted values: none, ro, or full
SSL "SSL" Permitted values: none, ro, or full SSL!CAs "SSL > CAs and CRLs" Permitted values: none, ro, or full SSL!CAs!Edit "SSL > CAs and CRLs > Edit" Permitted values: none, ro, or full SSL!CAs!Import "SSL > CAs and CRLs > Import" Permitted values: none, ro, or full SSL!Client_Certs "SSL > Client Certs" Permitted values: none, ro, or full SSL!Client_Certs "SSL > Client Certs > Edit"
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SSL!CAs "SSL > CAs and CRLs" Permitted values: none, ro, or full SSL!CAs!Edit "SSL > CAs and CRLs > Edit" Permitted values: none, ro, or full SSL!CAs!Import "SSL > CAs and CRLs > Import" Permitted values: none, ro, or full SSL!Client_Certs "SSL > Client Certs" Permitted values: none, ro, or full SSL!Client_Certs!Edit "SSL > Client Certs > Edit"
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SSL!CAs!Edit "SSL > CAs and CRLs > Edit" Permitted values: none, ro, or full SSL!CAs!Import "SSL > CAs and CRLs > Import" Permitted values: none, ro, or full SSL!Client_Certs "SSL > Client Certs" Permitted values: none, ro, or full SSL!Client_Certs!Edit "SSL > Client Certs > Edit"
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SSL!CAs!Import "SSL > CAs and CRLs > Import" Permitted values: none, ro, or full SSL!Client_Certs "SSL > Client Certs" Permitted values: none, ro, or full SSL!Client_Certs!Edit "SSL > Client Certs > Edit"
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SSL!Client_Certs "SSL > Client Certs" Permitted values: none, ro, or full SSL!Client_Certs!Edit "SSL > Client Certs > Edit"
Permitted values: none, ro, or full SSL!Client_Certs!Edit "SSL > Client Certs > Edit"
SSL!Client_Certs!Edit "SSL > Client Certs > Edit"
-
Permitted values: none, ro, or full
SSL!Client_Certs!Edit!Chain "SSL > Client Certs > Edit > Chain"
Permitted values: none, ro, or full
SSL!Client_Certs!Edit!CopyCert "SSL > Client Certs > Edit > Copy Certificate"
Permitted values: none, ro, or full
SSL!Client_Certs!Edit!Sign "SSL > Client Certs > Edit > Sign"
Permitted values: none, ro, or full
SSL!Client_Certs!Import "SSL > Client Certs > Import"
Permitted values: none, ro, or full
SSL!Client_Certs!New "SSL > Client Certs > New"
Permitted values: none, ro, or full
SSL!DNSSEC_Keys "SSL > DNSSEC Keys"
Permitted values: none, ro, or full
SSL!SSL_Certs "SSL > Server Certs"
Permitted values: none, ro, or full
SSL!SSL_Certs!Edit "SSL > Server Certs > Edit"
Permitted values: none, ro, or full
SSL!SSL_Certs!Edit!Chain "SSL > Server Certs > Edit > Chain"
Permitted values: none, ro, or full
SSL!SSL_Certs!Edit!CopyCert "SSL > Server Certs > Edit > Copy Certificate"
Permitted values: none, ro, or full
SSL!SSL_Certs!Edit!Sign "SSL > Server Certs > Edit > Sign"
Permitted values: none, ro, or full

conf/groups Configuration Sections

Key	Description
SSL!SSL_Certs!Import	"SSL > Server Certs > Import"
	Permitted values: none, ro, or full
SSL!SSL_Certs!New	"SSL > Server Certs > New"
	Permitted values: none, ro, or full
Section: "Configuring"	
Config_Summary	"Config Summary"
	Permitted values: none, ro, or full
Pools	"Pools"
	Permitted values: none, ro, or full
Pools!Edit	"Pools > Edit"
	Permitted values: none, ro, or full
Pools!Edit!Autoscaling	"Pools > Edit > Autoscaling"
	Permitted values: none, ro, or full
Pools!Edit!Bandwidth	"Pools > Edit > Bandwidth"
	Permitted values: none, ro, or full
	Requires feature: Bandwidth
Pools!Edit!Connection_Managem	"Pools > Edit > Connection Management"
ent	Permitted values: none, ro, or full
Pools!Edit!DNSAutoscaling	"Pools > Edit > DNS-derived autoscaling"
	Permitted values: none, ro, or full
Pools!Edit!Kerberos_Protocol_Tr	"Pools > Edit > Kerberos Protocol Transition"
ansition	Permitted values: none, ro, or full
Pools!Edit!Load_Balancing	"Pools > Edit > Load Balancing"
	Permitted values: none, ro, or full
Pools!Edit!Monitors	"Pools > Edit > Monitors"
	Permitted values: none, ro, or full
Pools!Edit!Persistence	"Pools > Edit > Session Persistence"
	Permitted values: none, ro, or full
Pools!Edit!SSL	"Pools > Edit > SSL"
	Permitted values: none, ro, or full
Traffic_IP_Groups	"Traffic IP Groups"
	Permitted values: none, ro, or full
Traffic_IP_Groups!Edit	"Traffic IP Groups > Edit"
	Permitted values: none, ro, or full
Traffic_IP_Groups!Networking	"Traffic IP Groups > Networking"
	Permitted values: none, ro, or full

Configuration Sections conf/groups

cingPermitted values: none, ro, or fullVirtual_Servers!Edit!Connection_Management"Virtual Servers > Edit > Connection Management"Permitted values: none, ro, or fullVirtual_Servers!Edit!Content_Caching"Virtual Servers > Edit > Content Caching"Permitted values: none, ro, or fullVirtual_Servers!Edit!Content_Compression"Virtual Servers > Edit > Content Compression"Virtual_Servers!Edit!DNS_Server"Virtual Servers > Edit > DNS Server"Permitted values: none, ro, or fullVirtual_Servers!Edit!Kerberos_Protocol_Transition"Virtual Servers > Edit > Kerberos Protocol Transition"Virtual_Servers!Edit!Request_Lo"Virtual Servers > Edit > Request Logging"	Key	Description
Virtual_Servers Editt	Virtual_Servers	"Virtual Servers"
Permitted values: none, ro, or full		Permitted values: none, ro, or full
Virtual_Servers Edit Aptimizer_S	Virtual_Servers!Edit	"Virtual Servers > Edit"
Virtual_Servers Edit Classes Permitted values: none, ro, or full		Permitted values: none, ro, or full
Virtual_Servers!Edit!Classes "Virtual Servers > Edit > Classes" Permitted values: none, ro, or full Virtual_Servers!Edit!Request_Tra cing Permitted values: none, ro, or full Virtual_Servers!Edit!Connection_ Management		"Virtual Servers > Edit > Aptimizer"
Virtual_Servers!Edit!Request_Tra cing Virtual_Servers!Edit!Connection_ Management Virtual_Servers!Edit!Connection_ Wirtual_Servers!Edit!Content_Ca ching Virtual_Servers!Edit!Content_Ca mpression Virtual_Servers!Edit!DNS_Server Virtual_Servers!Edit!Enlos_Server Virtual_Servers!Edit!Kerberos_Pr Permitted values: none, ro, or full Virtual_Servers!Edit!Kerberos_Pr Permitted values: none, ro, or full Virtual_Servers!Edit!Request_La gging Virtual_Servers!Edit!Request_La gging Permitted values: none, ro, or full Virtual_Servers!Edit!Rules Virtual_Servers!Edit!Rules Virtual_Servers!Edit!Rules!Enabl eDisable Virtual_Servers!Edit!Rules!Move Virtual_Servers_Edits_Rules!Nove Virtual_Servers_Edits_Rules!Nove Virtual_Servers_Edits_Rules!Nove Virtual_Servers_Edits_Rules!Nove Virtual_Servers_Edits_Rules!Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Nove Virtual_Servers_Edits_Rules!Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers_Edits_Rules!Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers_Edits_Rules!None Virtual_Servers_Edit	ettings	Permitted values: none, ro, or full
Virtual_Servers!Edit!Request_Tra cing	Virtual_Servers!Edit!Classes	"Virtual Servers > Edit > Classes"
cing Permitted values: none, ro, or full Virtual_Servers!Edit!Connection_Management "Virtual Servers > Edit > Connection Management" Virtual_Servers!Edit!Content_Caching "Virtual Servers > Edit > Content Caching" Ching Permitted values: none, ro, or full Virtual_Servers!Edit!Content_Compression "Virtual Servers > Edit > Content Compression" Permitted values: none, ro, or full Permitted values: none, ro, or full Virtual_Servers!Edit!DNS_Server "Virtual Servers > Edit > DNS Server" Permitted values: none, ro, or full Virtual_Servers!Edit!Kerberos_Protocol_Transition "Virtual Servers > Edit > Request Logging" gging Permitted values: none, ro, or full Virtual_Servers!Edit!Request_Logging "Virtual Servers > Edit > Request Logging" Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Enable eDisable "Virtual Servers > Edit > Rules > Enable / Disable" Pormitted values: none, ro, or full Requires feature: Rules Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Move "Virtual Servers > Edit > Rules > Move" Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Once "Virtual Servers > Edit > Rules > Once / Every" Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Conce "		Permitted values: none, ro, or full
Virtual_Servers Edit!Connection_ Management Virtual Servers > Edit > Connection Management" Permitted values: none, ro, or full Virtual_Servers Edit!Content_Ca ching Permitted values: none, ro, or full Virtual_Servers Edit!Content_Co mpression Virtual_Servers Edit!Content_Co mpression Virtual_Servers Edit!DNS_Server Virtual_Servers Edit!DNS_Server Virtual_Servers Edit!Repers_Pr otocol_Transition Virtual_Servers Edit!Repers_Pr otocol_Transition Virtual_Servers Edit!Repers_Pr otocol_Transition Virtual_Servers Edit!Repers_Pr otrule = Virtual_Servers = Virtual_Servers > Edit > Request_Logging" Remitted values: none, ro, or full Virtual_Servers Edit!Rules Virtual_Servers Edit!Rules Virtual_Servers > Edit > Request_Logging" Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers Edit!Rules Enableropermitted values: none, ro, or full Requires feature: Rules Virtual_Servers Edit!Rules Move Virtual_Servers > Edit > Rules > Enable / Disable" Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers Edit Rules Move Virtual_Servers > Edit > Rules > Move" Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers Edit Rules Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers Edit Rules Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers Edit Rules Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers Edit Rules Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers Edit Rules Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers Edit Rules Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers Edit Rules Once Permitted values: none, ro, or full Requires feature: Rules	Virtual_Servers!Edit!Request_Tra	"Virtual Servers > Edit > Connection Analytics"
Management Permitted values: none, ro, or full Virtual_Servers!Edit!Content_Ca ching Permitted values: none, ro, or full Virtual_Servers!Edit!Content_Co mpression Permitted values: none, ro, or full Virtual_Servers!Edit!DNS_Server Permitted values: none, ro, or full Virtual_Servers!Edit!NS_Server Permitted values: none, ro, or full Virtual_Servers!Edit!Kerberos_Pr otocol_Transition Virtual_Servers!Edit!Request_Lo gging Permitted values: none, ro, or full Virtual_Servers!Edit!Request_Lo gging Permitted values: none, ro, or full Virtual_Servers!Edit!Rules Virtual_Servers!Edit!Rules Virtual_Servers!Edit!Rules Virtual_Servers!Edit!Rules Virtual_Servers!Edit!Rules!Enabl eDisable Virtual_Servers!Edit!Rules!Move Virtual_Servers!Edit!Rules!Move Virtual_Servers!Edit!Rules!Move Virtual_Servers!Edit!Rules!Move Virtual_Servers!Edit!Rules!Once Every Virtual_Servers!Edit!Rules!Once Every Virtual_Servers!Edit!Rules!Remo ve Virtual_Servers!Edit!Redit!Redit	cing	Permitted values: none, ro, or full
Virtual_Servers!Edit!Content_Ca ching Virtual_Servers!Edit!Content_Co wirtual_Servers!Edit!Content_Co wirtual_Servers!Edit!Content_Co wirtual_Servers!Edit!Content_Co wirtual_Servers!Edit!DNS_Server Virtual_Servers!Edit!DNS_Server Virtual_Servers!Edit!Neberos_Pr virtual_Servers!Edit!Kerberos_Pr virtual_Servers!Edit!Kerberos_Pr virtual_Servers!Edit!Request_Lo gging Virtual_Servers!Edit!Request_Lo wirtual_Servers!Edit!Request_Lo wirtual_Servers!Edit!Request_Lo wirtual_Servers!Edit!Rules Virtual_Servers!Edit!Rules Virtual_Servers!Edit!Rules Virtual_Servers!Edit!Rules!Enabl eDisable Virtual_Servers!Edit!Rules!Enabl eDisable Virtual_Servers!Edit!Rules!Move Virtual_Servers!Edit!Rules!Move Virtual_Servers!Edit!Rules!Move Virtual_Servers!Edit!Rules!Once Every Virtual_Servers!Edit!Rules!Once Every Virtual_Servers!Edit!Rules!Remo ve Virtual_S		"Virtual Servers > Edit > Connection Management"
ching Permitted values: none, ro, or full Virtual_Servers!Edit!Content_Co mpression Permitted values: none, ro, or full Virtual_Servers!Edit!DNS_Server Permitted values: none, ro, or full Virtual_Servers!Edit!Kerberos_Pr Virtual Servers > Edit > DNS Server' Permitted values: none, ro, or full Virtual_Servers!Edit!Kerberos_Pr Virtual Servers > Edit > Kerberos Protocol Transition' Permitted values: none, ro, or full Virtual_Servers!Edit!Request_Lo gging Permitted values: none, ro, or full Virtual_Servers!Edit!Rules Virtual_Servers!Edit!Rules Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Enabl eDisable Virtual_Servers!Edit!Rules!Move Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Move Virtual_Servers!Edit!Rules!Move Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Once Every Permitted values: none, ro, or full Requir	Management	Permitted values: none, ro, or full
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mpression Permitted values: none, ro, or full Virtual_Servers!Edit!DNS_Server "Virtual Servers > Edit > DNS Server" Permitted values: none, ro, or full Virtual_Servers!Edit!Kerberos_Protocol_Transition "Virtual Servers > Edit > Kerberos Protocol Transition" Virtual_Servers!Edit!Request_Logging "Virtual Servers > Edit > Request Logging" Permitted values: none, ro, or full Virtual_Servers!Edit!Rules "Virtual Servers > Edit > Rules" Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Enable eDisable "Virtual Servers > Edit > Rules > Eable / Disable" Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Move "Virtual Servers > Edit > Rules > Move" Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Once "Virtual Servers > Edit > Rules > Once / Every" Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Remo "Virtual Servers > Edit > Rules > Remove" Permitted values: none, ro, or full Requires feature: Rules	ching	Permitted values: none, ro, or full
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otocol_Transition		Permitted values: none, ro, or full
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Virtual_Servers!Edit!Rules	Virtual_Servers!Edit!Request_Lo	"Virtual Servers > Edit > Request Logging"
Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Enabl eDisable Virtual_Servers!Edit!Rules!Enabl eDisable Virtual_Servers!Edit!Rules!Move Virtual_Servers!Edit!Rules!Move Virtual_Servers > Edit > Rules > Move" Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Once Every Virtual_Servers > Edit > Rules > Once / Every" Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Once Every Permitted values: none, ro, or full Requires feature: Rules Virtual_Servers!Edit!Rules!Remo ve Virtual_Servers > Edit > Rules > Remove" Permitted values: none, ro, or full	gging	Permitted values: none, ro, or full
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Requires feature: Rules Virtual_Servers!Edit!Rules!Remo "Virtual Servers > Edit > Rules > Remove" ve Permitted values: none, ro, or full		"Virtual Servers > Edit > Rules > Once / Every"
Virtual_Servers!Edit!Rules!Remo "Virtual Servers > Edit > Rules > Remove" ve Permitted values: none, ro, or full	Every	
ve Permitted values: none, ro, or full		Requires feature: Rules
Permitted values: none, ro, or full		
Requires feature: Rules	ve	
		Requires feature: Rules

conf/groups Configuration Sections

Key	Description
Virtual_Servers!Edit!GLB_Servic	"Virtual Servers > Edit > Service"
es	Permitted values: none, ro, or full
Virtual_Servers!Edit!SSL_Decryp	"Virtual Servers > Edit > SSL Decryption"
tion	Permitted values: none, ro, or full
Section: "Diagnosing"	
Audit_Log	"Audit Log"
	Permitted values: none, ro, or full
Audit_Log!Audit_Archive	"Audit Log > Audit Archive"
	Permitted values: none, ro, or full
Diagnose	"Cluster Diagnosis"
	Permitted values: none, ro, or full
Diagnose!Replicate	"Cluster Diagnosis > Replicate"
	Permitted values: none, ro, or full
Event_Log	"Event Log"
	Permitted values: none, ro, or full
Event_Log!Clear	"Event Log > Clear"
	Permitted values: none, ro, or full
Event_Log!Event_Archive	"Event Log > Event Archive"
	Permitted values: none, ro, or full
Routing	"Routing"
	Permitted values: none, ro, or full
Support_Files	"Support Files"
	Permitted values: none, ro, or full
Support	"Technical Support"
	Permitted values: none, ro, or full
Support!TSR	"Technical Support > TSR"
	Permitted values: none, ro, or full
Section: "Main Pages"	
Help	"Help"
	Permitted values: none, ro, or full
MainIndex	"Main Index"
	Permitted values: none, ro, or full
Reboot	"Reboot"
	Permitted values: none, ro, or full
Restart	"Restart"
	Permitted values: none, ro, or full

Configuration Sections conf/groups

Key	Description
Shutdown	"Shutdown"
	Permitted values: none, ro, or full
Section: "System"	
Alerting	"Alerting"
	Permitted values: none, ro, or full
Alerting!Actions	"Alerting > Actions"
	Permitted values: none, ro, or full
Alerting!Actions!Edit	"Alerting > Actions > Edit"
	Permitted values: none, ro, or full
Alerting!Event_Types	"Alerting > Event Types"
	Permitted values: none, ro, or full
Alerting!Event_Types!Edit	"Alerting > Event Types > Edit"
	Permitted values: none, ro, or full
AFM	"Application Firewall"
	Permitted values: none, ro, or full
AFM!Admin	"Application Firewall > Administration"
	Permitted values: none or full
Backup	"Backups"
	Permitted values: none, ro, or full
Backup!Config_Difference	"Backups > Compare"
	Permitted values: none, ro, or full
Backup!Edit	"Backups > Edit"
	Permitted values: none, ro, or full
Backup!Partial	"Backups > Partial"
	Permitted values: none, ro, or full
Fault_Tolerance	"Fault Tolerance"
	Permitted values: none, ro, or full
Fault_Tolerance!BGP_Neighbors	"Fault Tolerance > BGP Neighbors"
	Permitted values: none, ro, or full
Fault_Tolerance!BGP_Neighbors!	"Fault Tolerance > BGP Neighbors > Edit"
Edit	Permitted values: none, ro, or full
Global_Settings	"Global Settings"
	Permitted values: none, ro, or full
Global_Settings!Restore_Defaults	"Global Settings > Restore Defaults"
	Permitted values: none, ro, or full
License_Keys	"Licenses"
	Permitted values: none, ro, or full

conf/groups Configuration Sections

Key	Description
License_Keys!InstallNew	"Licenses > Install New"
	Permitted values: none, ro, or full
License_Keys!Remove	"Licenses > Remove"
	Permitted values: none, ro, or full
Networking	"Networking"
	Permitted values: none, ro, or full
	Requires feature: Appliance
Networking!NAT	"Networking > NAT"
	Permitted values: none, ro, or full
	Requires feature: Appliance
Steelhead	"Riverbed SteelHead"
	Permitted values: none, ro, or full
Security	"Security"
	Permitted values: none, ro, or full
SNMP	"SNMP"
	Permitted values: none, ro, or full
Sysctl	"Sysctl"
	Permitted values: none, ro, or full
	Requires feature: Appliance
DateTime	"Time"
	Permitted values: none, ro, or full
	Requires feature: Appliance
Traffic_Managers	"Traffic Managers"
	Permitted values: none, ro, or full
Traffic_Managers!AddRemove	"Traffic Managers > AddRemove"
	Permitted values: none, ro, or full
Traffic_Managers!Upgrade	"Traffic Managers > Upgrade"
	Permitted values: none, ro, or full
Access_Management	"Users"
	Permitted values: none, ro, or full
Access_Management!Authenticat	"Users > Authenticators"
ionMethods	Permitted values: none, ro, or full
Access_Management!Authenticat ionMethods!Edit	"Users > Authenticators > Edit"
	Permitted values: none, ro, or full
Access_Management!Groups	"Users > Groups"
	Permitted values: none, ro, or full
Access_Management!Groups!Edi	"Users > Groups > Edit"
t	Permitted values: none, ro, or full

Configuration Sections conf/groups

Access_Management!LocalUsers Permitted values: none, ro, or full	Key	Description
Access_Management!LocalUsers! Edit Permitted values: none, ro, or full Access_Management!LocalUsers! Permitted values: none, ro, or full Access_Management!Suspended _Users' Permitted values: none, ro, or full Wizard!AptimizeService "Wizard > Aptimize a web application" Permitted values: none, ro, or full Wizard!Backup "Wizard > Backup my configuration" Permitted values: none, ro, or full Wizard!DisableNode "Wizard > Disable a node" Permitted values: none, ro, or full Wizard!DrainNode "Wizard > Disable a node" Permitted values: none, ro, or full Requires feature: Rules Wizard!EnableRule "Wizard > Enable/Disable a rule" Permitted values: none, ro, or full Requires feature: Rules Wizard!FreeDiskSpace "Wizard > Free up some disk space" Permitted values: none, ro, or full Wizard!ClusterJoin "Wizard > Join a cluster" Permitted values: none, ro, or full Wizard!NewService "Wizard > Manage a new service" Permitted values: none, ro, or full Wizard!ReactivateNode "Wizard > Reactivate a node" Permitted values: none, ro, or full Wizard!RemoveNode "Wizard > Reactivate a node" Permitted values: none, ro, or full Wizard!RemoveNode "Wizard > Restore from a backup" Permitted values: none, ro, or full Wizard!SSLDecryptService "Wizard > SSL Decrypt a service"	Access_Management!LocalUsers	"Users > Local"
Edit Permitted values: none, ro, or full Access_Management!LocalUsers! "Users > Local > Other Users" Permitted values: none, ro, or full Access_Management!LocalUsers! "Users > Local > Password Policy" Permitted values: none, ro, or full Access_Management!Suspended "Users > Suspended Users" "Users > Suspended Users" "Users > Permitted values: none, ro, or full Section: "Wizards" Wizard!AptimizeService "Wizard > Aptimize a web application" Permitted values: none, ro, or full Wizard!Backup "Wizard > Backup my configuration" Permitted values: none, ro, or full Wizard!DisableNode "Wizard > Disable a node" Permitted values: none, ro, or full Wizard!DrainNode "Wizard > Drain a node" Permitted values: none, ro, or full Wizard!EnableRule "Wizard > Enable/Disable a rule" Permitted values: none, ro, or full Wizard FreeDiskSpace "Wizard > Free up some disk space" Permitted values: none, ro, or full Wizard!ClusterJoin "Wizard > Join a cluster" Permitted values: none, ro, or full Wizard!NewService "Wizard > Manage a new service" Permitted values: none, ro, or full Wizard!ReactivateNode "Wizard > Reactivate a node" Permitted values: none, ro, or full Wizard!RemoveNode "Wizard > Reactivate a node" Permitted values: none, ro, or full Wizard!RemoveNode "Wizard > Restore from a backup" Permitted values: none, ro, or full Wizard!Setore "Wizard > Restore from a backup" Permitted values: none, ro, or full Wizard!Setore "Wizard > Restore from a backup" Permitted values: none, ro, or full Wizard!Setore "Wizard > Restore from a backup" Permitted values: none, ro, or full		Permitted values: none, ro, or full
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EditOtherUsers Permitted values: none, ro, or full Access_Management!LocalUsers! Permitted values: none, ro, or full Access_Management!Suspended "Users > Suspended Users" Permitted values: none, ro, or full Section: "Wizards" Wizard!AptimizeService "Wizard > Aptimize a web application" Permitted values: none, ro, or full Wizard!Backup "Wizard > Backup my configuration" Permitted values: none, ro, or full Wizard!DisableNode "Wizard > Disable a node" Permitted values: none, ro, or full Wizard!EnableRule "Wizard > Drain a node" Permitted values: none, ro, or full Wizard!EnableRule "Wizard > Enable/Disable a rule" Permitted values: none, ro, or full Wizard!FreeDiskSpace "Wizard > Free up some disk space" Permitted values: none, ro, or full Wizard!ClusterJoin "Wizard > Join a cluster" Permitted values: none, ro, or full Wizard!NewService "Wizard > Manage a new service" Permitted values: none, ro, or full Wizard!ReactivateNode "Wizard > Reactivate a node" Permitted values: none, ro, or full Wizard!RemoveNode "Wizard > Reactivate a node" Permitted values: none, ro, or full Wizard!Restore "Wizard > Reactivate a node" Permitted values: none, ro, or full Wizard!Restore "Wizard > Restore from a backup" Permitted values: none, ro, or full Wizard!SSLDecryptService "Wizard > SSL Decrypt a service"	Edit	Permitted values: none, ro, or full
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PasswordPolicy Permitted values: none, ro, or full Access_Management!Suspended _Users' Permitted values: none, ro, or full Section: "Wizards" Wizard!AptimizeService "Wizard > Aptimize a web application" Permitted values: none, ro, or full Wizard!Backup "Wizard > Backup my configuration" Permitted values: none, ro, or full Wizard!DisableNode "Wizard > Disable a node" Permitted values: none, ro, or full Wizard!DrainNode "Wizard > Drain a node" Permitted values: none, ro, or full Wizard!EnableRule "Wizard > Enable/Disable a rule" Permitted values: none, ro, or full Requires feature: Rules Wizard!FreeDiskSpace "Wizard > Free up some disk space" Permitted values: none, ro, or full Wizard!ClusterJoin "Wizard > Join a cluster" Permitted values: none, ro, or full Wizard!NewService "Wizard > Manage a new service" Permitted values: none, ro, or full Wizard!ReactivateNode "Wizard > Reactivate a node" Permitted values: none, ro, or full Wizard!RemoveNode "Wizard > Reactivate a node" Permitted values: none, ro, or full Wizard!RemoveNode "Wizard > Remove a node" Permitted values: none, ro, or full Wizard!Restore "Wizard > Remove a node" Permitted values: none, ro, or full Wizard!Restore "Wizard > Restore from a backup" Permitted values: none, ro, or full Wizard!SSLDecryptService "Wizard > SSL Decrypt a service"	EditOtherUsers	Permitted values: none, ro, or full
Access_ManagementtSuspendedUsers > Suspended Users'		"Users > Local > Password Policy"
	PasswordPolicy	Permitted values: none, ro, or full
Section: "Wizards" Wizard!AptimizeService "Wizard > Aptimize a web application" Permitted values: none, ro, or full Wizard!Backup "Wizard > Backup my configuration" Permitted values: none, ro, or full Wizard!DisableNode "Wizard > Disable a node" Permitted values: none, ro, or full Wizard!DrainNode "Wizard > Drain a node" Permitted values: none, ro, or full Wizard!EnableRule "Wizard > Enable / Disable a rule" Permitted values: none, ro, or full Requires feature: Rules Wizard!FreeDiskSpace "Wizard > Free up some disk space" Permitted values: none, ro, or full Wizard!ClusterJoin "Wizard > Join a cluster" Permitted values: none, ro, or full Wizard!NewService "Wizard > Manage a new service" Permitted values: none, ro, or full Wizard!ReactivateNode "Wizard > Reactivate a node" Permitted values: none, ro, or full Wizard!RemoveNode "Wizard > Remove a node" Permitted values: none, ro, or full Wizard!Restore "Wizard > Restore from a backup" Permitted values: none, ro, or full Wizard!SSLDecryptService "Wizard > SSL Decrypt a service"		"Users > Suspended Users"
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Permitted values: none, ro, or full Wizard!SSLDecryptService "Wizard > SSL Decrypt a service"		Permitted values: none, ro, or full
Wizard!SSLDecryptService "Wizard > SSL Decrypt a service"	Wizard!Restore	"Wizard > Restore from a backup"
		Permitted values: none, ro, or full
Permitted values: none, ro, or full	Wizard!SSLDecryptService	"Wizard > SSL Decrypt a service"
		Permitted values: none, ro, or full

conf/jars Configuration Sections

conf/jars

The conf/jars directory contains files for TrafficScript Java Extensions. This includes items such as jar and class files that provide servlets and their dependencies, as well as data files for general use by Java Extensions. The files in this directory can be managed using the Catalogs > Java section of the Admin Server UI and the Catalog. Java Extension section of the SOAP API and CLI.

Key Description

There are no items to display for this configuration type.

conf/kerberos/keytabs

The conf/kerberos/keytabs directory contains Kerberos keytab files that contain credentials for Kerberos principals the traffic manager will use to perform Kerberos operations. Kerberos keytabs can be managed under the Catalogs > Kerberos > Kerberos Keytabs section of the administrative interface or by using functions under the Catalog. Kerberos. Keytabs section of the SOAP API and CLI.

Key Description

There are no items to display for this configuration type.

conf/kerberos/krb5confs

The conf/kerberos/krb5confs directory contains krb5.conf configuration files for Kerberos principals the traffic manager can use to perform Kerberos operations. These are provided to provide raw control of the kerberos library should it be neccessary to enable operations the standard configuration cannot achieve. krb5.conf files can be managed under the Catalogs > Kerberos > Kerberos Configuration Files section of the administrative interface or by using functions under the Catalog.Kerberos.KRB5confs section of the SOAP API and CLI.

Key Description

There are no items to display for this configuration type.

Configuration Sections conf/kerberos/principals

conf/kerberos/principals

The conf/kerberos/principals directory contains configuration files for Kerberos principals the traffic manager can use to perform Kerberos operations. The name of a file is the name of the Kerberos principal it defines. Kerberos principals can be configured under the Catalogs > Kerberos Principals section of the administrative interface or by using functions under the Catalog.Kerberos.Principals section of the SOAP API and CLI.

Key	Description
kdcs	A list of <hostname ip="">:<port> pairs for Kerberos key distribution center (KDC) services to be explicitly used for the realm of the principal. If no KDCs are explicitly configured, DNS will be used to discover the KDC(s) to use.</port></hostname>
	 From://products/zxtm/lb/kpt_principal.cpp:101
	• Requires: krb5conf is set to ""
	Value type: list
	• Default value: <none></none>
keytab	The name of the Kerberos keytab file containing suitable credentials to authenticate as the specified Kerberos principal.
	From://products/zxtm/lb/kpt_principal.cpp:119
	Value type: string
	• Default value: <none></none>
krb5conf	The name of an optional Kerberos configuration file (krb5.conf).
	• From://products/zxtm/lb/kpt_principal.cpp:110
	Value type: string
	• Default value: <none></none>
realm	The Kerberos realm where the principal belongs.
	• From://products/zxtm/lb/kpt_principal.cpp:82
	Value type: string
	• Default value: <none></none>
service	The service name part of the Kerberos principal name the traffic manager should use to authenticate itself.
	• From://products/zxtm/lb/kpt_principal.cpp:72
	Value type: string
	• Default value: <none></none>

conf/licensekeys

The conf/licensekeys directory is where license key files for the software are stored. License keys can be managed under the System > Licenses section of the Admin Server UI or by using the System.LicenseKeys section of the SOAP API or CLI.

conf/locations Configuration Sections

Key	Description	
There are no items to display for this configuration type.		

conf/locations

Configuration for locations. Must be higher priority than global.cfg.

Key	Description
based_on	Used by the UI to store where we got the lat/long coords from (a preset value, user entered etc.).
	• From://products/zxtm/lb/location.cpp:107
	Value type: string
	Default value: "none"
id	The identifier of this location.
	• From://products/zxtm/lb/location.cpp:69
	Value type: unsigned integer
	Default value: <none></none>
latitude	The latitude of this location.
	 From://products/zxtm/lb/location.cpp:77
	Value type: double
	Default value: "0.0"
longitude	The longitude of this location.
	• From://products/zxtm/lb/location.cpp:85
	Value type: double
	Default value: "0.0"
note	A note, used to describe this location.
	• From://products/zxtm/lb/location.cpp:118
	Value type: string
	Default value: <none></none>
type	Does this location contain traffic managers and configuration or is it a recipient of GLB requests?
	• From://products/zxtm/lb/location.cpp:95
	Value type: enumeration
	Default value: "config"
	Permitted values:
	config: Configuration
	glb: GLB

Configuration Sections conf/locations.cfg

conf/locations.cfg

The locations.cfg file contains custom geolocation data. This is a text file that must be managed manually, comments in the file describe the data format.

Key	Description	
There are no items to	o display for this configuration type.	

conf/monitors

The conf/monitors directory contains configuration files for backend node monitors. The name of a file is the name of the monitor it defines. Monitors can be configured under the Catalogs > Monitors section of the Admin Server UI or by using functions under the Catalog. Monitor section of the SOAP API and CLI.

Key	Description
back_off	Should the monitor slowly increase the delay after it has failed?
	• From://products/zxtm/monitor/monitor.cpp:109
	Value type: Yes / No
	Default value: "Yes"
can_edit_ssl	Whether or not SSL configuration is available via the Admin Server UI for this monitor. This is for use by monitors pre-packaged with the software.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/monitor/monitor.cpp:94
	• Value type: Yes / No
	Default value: "Yes"
can_use_ssl	Whether or not monitors of this type are capable of using SSL.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/monitor/monitor.cpp:78
	• Value type: Yes / No
	Default value: "No"
delay	The minimum time between calls to a monitor.
	• From://products/zxtm/monitor/monitor.cpp:62
	Value type: seconds
	Default value: "3"

conf/monitors Configuration Sections

Key	Description
editable_keys	Which of the monitor's configuration keys may be edited via the Admin Server UI.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/monitor/catalog_monitor_entry.cpp:96
	Value type: string
	• Default value: <none></none>
factory	Whether or not this monitor is provided as part of the software release.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/monitor/catalog_monitor_entry.cpp:51
	• Value type: Yes / No
	Default value: "No"
failures	The number of times in a row that a node must fail execution of the monitor before it is classed as unavailable.
	• From://products/zxtm/monitor/monitor.cpp:46
	Value type: unsigned integer
	• Default value: "3"
health_only	Should this monitor only report health (ignore load)?
	• From://products/zxtm/monitor/monitor.cpp:114
	• Value type: Yes / No
	Default value: "No"
machine	The machine to monitor, where relevant this should be in the form <hostname>:<port>, for "ping" monitors the :<port> part must not be specified.</port></port></hostname>
	• From://products/zxtm/monitor/poolwide_monitor_entry.cpp:43
	Requires: scope is set to "poolwide"
	Value type: string
	• Default value: <none></none>
max_response_len	The maximum amount of data to read back from a server, use 0 for unlimited.
	• From://products/zxtm/monitor/monitor_simple.cpp:35
	Value type: bytes
	• Default value: "2048"
note	A description of the montitor.
	• From://products/zxtm/monitor/catalog_monitor_entry.cpp:44
	Value type: string
	• Default value: <none></none>

Configuration Sections conf/monitors

Key	Description
scope	A monitor can either monitor each node in the pool separately and disable an individual node if it fails, or it can monitor a specific machine and disable the entire pool if that machine fails. GLB location monitors must monitor a specific machine.
	• From://products/zxtm/monitor/catalog_monitor_entry.cpp:64
	Value type: enumeration
	Default value: "pernode"
	Permitted values:
	pernode: Node: Monitor each node in the pool separately
	poolwide: Pool/GLB: Monitor a specified machine
timeout	The maximum runtime for an individual instance of the monitor.
	• From://products/zxtm/monitor/monitor.cpp:54
	Value type: seconds
	Default value: "3"
type	The internal monitor implementation of this monitor.
	• From://products/zxtm/monitor/catalog_monitor_entry.cpp:79
	Value type: enumeration
	Default value: "ping"
	Permitted values:
	ping: Ping monitor
	connect: TCP Connect monitor
	http: HTTP monitor
	tcp_transaction: TCP transaction monitor
	program: External program monitor
	sip: SIP monitor
	rtsp: RTSP monitor
udp_accept_all	If this monitor uses UDP, should it accept responses from any IP and port?
	• From://products/zxtm/monitor/monitor.cpp:102
	• Value type: Yes / No
	Default value: "No"
use_ssl	Whether or not the monitor should connect using SSL.
	• From://products/zxtm/monitor/monitor.cpp:86
	• Requires: can_use_ssl is set to "Yes"
	Value type: Yes / No
	Default value: "No"
verbose	Whether or not the monitor should emit verbose logging. This is useful for diagnosing problems.
	• From://products/zxtm/monitor/monitor.cpp:70
	• Value type: Yes / No
	Default value: "No"

conf/monitors Configuration Sections

Key	Description
authentication	The HTTP basic-auth <user>:<password> to use for the test HTTP request.</password></user>
	• From://products/zxtm/monitor/monitor_http.cpp:66
	• Requires: type is set to "http"
	Value type: string
	• Default value: <none></none>
body_regex	A regular expression that the HTTP response body must match. If the response body content doesn't matter then set this to .* (match anything).
	• From://products/zxtm/monitor/monitor_http.cpp:90
	Requires: type is set to "http"
	Value type: string
	• Default value: <none></none>
host_header	The host header to use in the test HTTP request.
	• From://products/zxtm/monitor/monitor_http.cpp:41
	Requires: type is set to "http"
	Value type: string
	• Default value: <none></none>
path	The path to use in the test HTTP request. This must be a string beginning with a / (forward slash).
	• From://products/zxtm/monitor/monitor_http.cpp:52
	Requires: type is set to "http"
	Value type: string
	• Default value: "/"
status_regex	A regular expression that the HTTP status code must match. If the status code doesn't matter then set this to .* (match anything).
	• From://products/zxtm/monitor/monitor_http.cpp:78
	Requires: type is set to "http"
	Value type: string
	• Default value: "^[234][0-9][0-9]\$"
Additional keys used wh	en type is "program"
arg!*	The arguments that will be passed to the program. For example, to specify the argumentfoo=bar as part of the program's command-line you set the key arg!foo to the value bar.
	• From://products/zxtm/monitor/monitor_program.cpp:44
	Requires: type is set to "program"
	Value type: string
	• Default value: <none></none>

Configuration Sections conf/monitors

Key	Description
describe!*	A description for the argument specified in place of the * character. For example, to describe the argument in the example for arg!* you could specify the description as the value for the key describe!foo.
	• From://products/zxtm/monitor/monitor_program.cpp:59
	 Requires: type is set to "program"
	Value type: string
	• Default value: <none></none>
program	The program to run. This must be an executable file, either within the conf/scripts directory or specified as an absolute path to some other location on the filesystem.
	• From://products/zxtm/monitor/monitor_program.cpp:85
	 Requires: type is set to "program"
	Value type: string
	• Default value: <none></none>
protocol	Which protocol the monitor checks.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/monitor/monitor_program.cpp:67
	Requires: type is set to "program"
	Value type: enumeration
	Default value: "tcp"
	Permitted values:
	tcp: TCP
	udp: UDP
	both: TCP and UDP
Additional keys used whe	n type is "rtsp"
rtsp_body_regex	The regular expression that the RTSP response body must match.
	• From://products/zxtm/monitor/monitor_rtsp.cpp:49
	• Requires: type is set to "rtsp"
	Value type: string
	• Default value: <none></none>
rtsp_path	The path to use in the RTSP request (some servers will return 500 Internal Server Error unless this is a valid media file).
	• From://products/zxtm/monitor/monitor_rtsp.cpp:59
	 Requires: type is set to "rtsp"
	Value type: string
	• Default value: "/"
rtsp_status_regex	The regular expression that the RTSP response status code must match.
	• From://products/zxtm/monitor/monitor_rtsp.cpp:40
	Requires: type is set to "rtsp"
	Value type: string
	• Default value: "^[234][0-9][0-9]\$"

conf/monitors Configuration Sections

Key	Description
Additional keys used whe	en type is "sip"
sip_body_regex	The regular expression that the SIP response body must match. • From://products/zxtm/monitor/monitor_sip.cpp:76 • Requires: type is set to "sip" • Value type: string • Default value: <none></none>
sip_status_regex	The regular expression that the SIP response status code must match. • From://products/zxtm/monitor/monitor_sip.cpp:67 • Requires: type is set to "sip" • Value type: string • Default value: "^[234][0-9][0-9]\$"
sip_transport	Which transport protocol the SIP monitor will use to query the server. • From://products/zxtm/monitor/monitor_sip.cpp:84 • Requires: type is set to "sip" • Value type: enumeration • Default value: "udp" • Permitted values: udp: UDP tcp: TCP
Additional keys used whe	en type is "tcp_transaction"
close_string	An optional string to write to the server before closing the connection. • From://products/zxtm/monitor/monitor_tcp_transaction.cpp:56 • Requires: type is set to "tcp_transaction" • Value type: string • Default value: <none></none>
response_regex	A regular expression to match against the response from the server. • From://products/zxtm/monitor/monitor_tcp_transaction.cpp:34 • Requires: type is set to "tcp_transaction" • Value type: string • Default value: ".+"
write_string	The string to write down the TCP connection. • From://products/zxtm/monitor/monitor_tcp_transaction.cpp:44 • Requires: type is set to "tcp_transaction" • Value type: string • Default value: <none></none>

Configuration Sections conf/persistence

conf/persistence

The conf/persistence directory contains configuration files for persistence classes. The name of a file is the name of the persistence class it defines. Persistence classes can be configured under the Catalogs > Persistence section of the Admin Server UI or by using functions under the Catalog. Persistence section of the SOAP API and CLI.

Key	Description
delete	Whether or not the session should be deleted when a session failure occurs. (Note, setting a failure mode of 'choose a new node' implicitly deletes the session.)
	• From://products/zxtm/lb/session.cpp:104
	• Value type: Yes / No
	Default value: "Yes"
failuremode	The action the pool should take if the session data is invalid or it cannot contact the node specified by the session.
	• From://products/zxtm/lb/session.cpp:94
	Value type: enumeration
	Default value: "newnode"
	Permitted values:
	newnode: Choose a new node to use
	url: Redirect the user to a given URL
	close: Close the connection (using error_file on Virtual Servers > Edit > Connection Management)
note	A description of the session persistence class.
	• From://products/zxtm/lb/session.cpp:55
	Value type: string
	• Default value: <none></none>
type	The type of session persistence to use.
	• From://products/zxtm/lb/session.cpp:73
	Value type: enumeration
	Default value: "ip"
	Permitted values:
	ip: IP-based persistence
	universal: Universal session persistence
	named: Named Node session persistence
	sardine: Transparent session affinity
	kipper: Monitor application cookies
	j2ee: J2EE session persistence
	asp: ASP and ASP.NET session persistence
	x-zeus: X-Zeus-Backend cookies
	ssl: SSL Session ID persistence

conf/pools Configuration Sections

Key	Description
url	The redirect URL to send clients to if the session persistence is configured to redirect users when a node dies.
	• From://products/zxtm/lb/session.cpp:117
	 Requires: failuremode is set to "url" (case insensitive)
	Value type: string
	• Default value: <none></none>
Additional keys used who	en type is "kipper"
cookie	The cookie name to use for tracking session persistence.
	• From://products/zxtm/lb/session.cpp:82
	Requires: type is set to "kipper"
	Value type: string
	• Default value: <none></none>

conf/pools

The conf/pools directory contains configuration files for backend node pools. The name of a file is the name of the pool it defines. Pools can be configured under the Services > Pools section of the Admin Server UI or by using functions under the Pool section of the SOAP API and CLI.

Key	Description
autoscale!addnode_delaytime	The time in seconds from the creation of the node which the traffic manager should wait before adding the node to the autoscaled pool. Set this to allow applications on the newly created node time to intialize before being sent traffic.
	• From://products/zxtm/lb/pool_config.cpp:816
	Requires: autoscale!enabled'issetto"yes'"
	Value type: seconds
	• Default value: "0"
autoscale!cloudcredentials	The Cloud Credentials object containing authentication credentials to use in cloud API calls.
	• From://products/zxtm/lb/pool_config.cpp:828
	Requires: autoscale!enabled'issetto"yes'"
	Value type: string
	• Default value: <none></none>
autoscale!cluster	The ESX host or ESX cluster name to put the new virtual machine instances on.
	• From://products/zxtm/lb/pool_config.cpp:928
	Requires: autoscale!enabled'issetto"yes"
	Value type: string
	• Default value: <none></none>

Configuration Sections conf/pools

Key	Description
autoscale!datacenter	The name of the logical datacenter on the vCenter server. Virtual machines will be scaled up and down under the datacenter root folder.
	• From://products/zxtm/lb/pool_config.cpp:907
	Requires: autoscale!enabled'issetto"yes""
	Value type: string
	• Default value: <none></none>
autoscale!datastore	The name of the datastore to be used by the newly created virtual machine.
	• From://products/zxtm/lb/pool_config.cpp:917
	Requires: autoscale!enabled'issetto"yes'"
	Value type: string
	Default value: <none></none>
autoscale!enabled	Are the nodes of this pool subject to autoscaling? If yes, nodes will be automatically added and removed from the pool by the chosen autoscaling mechanism.
	• From://products/zxtm/lb/pool_config.cpp:721
	Value type: Yes / No
	Default value: "No"
autoscale!external	Whether or not autoscaling is being handled by an external system. Set this value to Yes if all aspects of autoscaling are handled by an external system, such as RightScale. If set to No, the traffic manager will determine when to scale the pool and will communicate with the cloud provider to create and destroy nodes as necessary.
	• From://products/zxtm/lb/pool_config.cpp:859
	 Requires: autoscale!enabled'issetto"yes"
	Value type: Yes / No
	• Default value: "Yes"
autoscale!extraargs	Any extra arguments to the autoscaling API. Each argument can be separated by comma. E.g in case of EC2, it can take extra parameters to the Amazon's RunInstance API say DisableApiTermination=false,Placement.Tenancy=default.
	• From://products/zxtm/lb/pool_config.cpp:964
	Requires: autoscale!enabled'issetto"yes'"
	Value type: string
	Default value: <none></none>
autoscale!hysteresis	The time period in seconds for which a change condition must persist before the change is actually instigated.
	• From://products/zxtm/lb/pool_config.cpp:791
	Value type: unsigned integer
	• Default value: "20"
autoscale!imageid	The identifier for the image of the instances to create.
	• From://products/zxtm/lb/pool_config.cpp:757
	Requires: autoscale!enabled'issetto"yes"
	Value type: string
	Default value: <none></none>

conf/pools Configuration Sections

Key	Description
autoscale!ipstouse	Which type of IP addresses on the node to use. Choose private IPs if the traffic manager is in the same cloud as the nodes, otherwise choose public IPs.
	• From://products/zxtm/lb/pool_config.cpp:772
	Requires: autoscale!enabled'issetto"yes'"
	Value type: enumeration
	Default value: "publicips"
	Permitted values:
	publicips: Public IP addresses
	privateips: Private IP addresses
autoscale!lastnode_idletime	The time in seconds for which the last node in an autoscaled pool must have been idle before it is destroyed. This is only relevant if min_nodes is 0.
	• From://products/zxtm/lb/pool_config.cpp:802
	Value type: unsigned integer
	• Default value: "3600"
autoscale!max_nodes	The maximum number of nodes in this autoscaled pool.
	• From://products/zxtm/lb/pool_config.cpp:739
	Requires: autoscale!enabled'issetto"yes'"
	Value type: unsigned integer
	Default value: "4"
autoscale!min_nodes	The minimum number of nodes in this autoscaled pool.
	• From://products/zxtm/lb/pool_config.cpp:730
	Requires: autoscale!enabled'issetto"yes"
	Value type: unsigned integer
	Default value: "1"
autoscale!name	The beginning of the name of nodes in the cloud that are part of this autoscaled pool.
	• From://products/zxtm/lb/pool_config.cpp:838
	Requires: autoscale!enabled'issetto"yes"
	Value type: string
	• Default value: <none></none>
autoscale!port	The port number to use for each node in this autoscaled pool.
	• From://products/zxtm/lb/pool_config.cpp:847
	Requires: autoscale!enabled'issetto"yes"
	Value type: unsigned integer
	• Default value: "80"
autoscale!refractory	The time period in seconds after the instigation of a re-size during which no further changes will be made to the pool size.
	• From://products/zxtm/lb/pool_config.cpp:782
	Requires: autoscale!enabled'issetto"yes"'
	Value type: unsigned integer
	• Default value: "180"

Configuration Sections conf/pools

Key	Description
autoscale!response_time	The expected response time of the nodes in ms. This time is used as a reference when deciding whether a node's response time is conforming. All responses from all the nodes will be compared to this reference and the percentage of conforming responses is the base for decisions about scaling the pool up or down.
	• From://products/zxtm/lb/pool_config.cpp:871
	Requires: autoscale!enabled'issetto"yes"
	Value type: unsigned integer
	• Default value: "1000"
autoscale!scaledown_level	The fraction, in percent, of conforming requests above which the pool size is decreased. If the percentage of conforming requests exceeds this value, the pool is scaled down.
	• From://products/zxtm/lb/pool_config.cpp:891
	 Requires: autoscale!enabled'issetto"yes"
	Value type: unsigned integer
	• Default value: "95"
autoscale!scaleup_level	The fraction, in percent, of conforming requests below which the pool size is increased. If the percentage of conforming requests drops below this value, the pool is scaled up.
	• From://products/zxtm/lb/pool_config.cpp:881
	Requires: autoscale!enabled'issetto"yes'"
	Value type: unsigned integer
	• Default value: "40"
autoscale!securitygroupids	List of security group IDs to associate to the new EC2 instance.
	• From://products/zxtm/lb/pool_config.cpp:938
	Requires: autoscale!enabled'issetto"yes"
	Value type: list
	• Default value: <none></none>
autoscale!sizeid	The identifier for the size of the instances to create.
	• From://products/zxtm/lb/pool_config.cpp:748
	Requires: autoscale!enabled'issetto"yes"
	Value type: string
	• Default value: <none></none>
autoscale!subnetids	List of subnet IDs where the new EC2-VPC instance(s) will be launched. Instances will be evenly distributed among the subnets. If the list is empty, instances will be launched inside EC2-Classic.
	• From://products/zxtm/lb/pool_config.cpp:950
	Requires: autoscale!enabled'issetto"yes""
	Value type: list
	• Default value: <none></none>

conf/pools Configuration Sections

Key	Description
bandwidth_class	The Bandwidth Management Class this pool uses, if any.
	• From://products/zxtm/lb/pool_config.cpp:101
	Value type: string
	Default value: <none></none>
disabled	A list of nodes in the pool that are in the 'disabled' state.
	• From://products/zxtm/lb/pool_config.cpp:55
	Value type: list
	Default value: <none></none>
dns_autoscale!enabled	When enabled, the Traffic Manager will periodically resolve the hostnames in the "hostnames" list using a DNS query, and use the results to automatically add, remove or update the IP addresses of the nodes in the pool.
	• From://products/zxtm/lb/pool_config.cpp:978
	• Value type: Yes / No
	Default value: "No"
dns_autoscale!hostnames	A list of hostnames which will be used for DNS-derived autoscaling
	• From://products/zxtm/lb/pool_config.cpp:989
	Requires: dns_autoscale!enabled'issetto"yes'"
	Value type: list
	 Default value: <none></none>
dns_autoscale!port	The port number to use for each node when using DNS-derived autoscaling
	• From://products/zxtm/lb/pool_config.cpp:997
	Value type: unsigned integer
	Default value: "80"
draining	A list of nodes in the pool that are in the 'draining' state.
	• From://products/zxtm/lb/pool_config.cpp:45
	Value type: list
	Default value: <none></none>
failpool	If all of the nodes in this pool have failed, then requests can be diverted to another pool.
	• From://products/zxtm/lb/pool_config.cpp:65
	Value type: string
	Default value: <none></none>
fast_response	A lower threshold, in microseconds, on the response times of the backend nodes as measured by the traffic manager. All connections that get a response in a shorter time than this are considered equally fast.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/pool_config.cpp:268
	Value type: unsigned integer
	• Default value: "5000"

Configuration Sections conf/pools

Key	Description
favoured_bias	The bias used when choosing between a 'random' back-end and a 'favoured' one, expressed as a percentage. For example, a value of 10 means that the favoured back-end can have up to 10% more load than the 'random' one for it to be selected.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/pool_config.cpp:276
	Value type: unsigned integer
	• Default value: "5"
ftp_support_rfc_2428	Whether or not the backend IPv4 nodes understand the EPRT and EPSV command from RFC 2428. It is always assumed that IPv6 nodes support these commands.
	• From://products/zxtm/lb/pool_config.cpp:461
	Value type: Yes / No
	Default value: "No"
keepalive	Whether or not the pool should maintain HTTP keepalive connections to the nodes.
	• From://products/zxtm/lb/pool_config.cpp:235
	• Value type: Yes / No
	Default value: "Yes"
keepalive!non_idempotent	Whether or not the pool should maintain HTTP keepalive connections to the nodes for non-idempotent requests.
	• From://products/zxtm/lb/pool_config.cpp:244
	Value type: Yes / No
	Default value: "No"
kerberos_protocol_transition!pri ncipal	The Kerberos principal the traffic manager should use when performing Kerberos Protocol Transition.
	• From://products/zxtm/lb/pool_config.cpp:1009
	Value type: string
	• Default value: <none></none>
kerberos_protocol_transition!targ	The Kerberos principal name of the service this pool targets.
et	• From://products/zxtm/lb/pool_config.cpp:1017
	Value type: string
	• Default value: <none></none>
lard_size	The size of the LARD cache. This is used when recording unique URLs to provide request affinity, where the same request is sent to the same node.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/pool_config.cpp:261
	Value type: unsigned integer
	• Default value: "2047"

conf/pools Configuration Sections

Key	Description
load_balancing!algorithm	The load balancing algorithm that this pool uses.
	• From://products/zxtm/lb/pool_config.cpp:117
	Value type: enumeration
	Default value: "roundrobin"
	Permitted values:
	roundrobin: Round Robin
	wroundrobin: Weighted Round Robin
	cells: Perceptive
	connections: Least Connections
	wconnections: Weighted Least Connections
	responsetimes: Fastest Response Time
	random: Random Node
load_balancing!cells!connection_ bias	This indicates the value of existing connections to a back-end. As the value of this tunable increases, balancing tends away from response times, towards balancing by least number of connections to each back-end.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/pool_config.cpp:150
	Value type: unsigned integer
	Default value: "15"
load_balancing!cells!min_cells	Minimum granularity of cells. If the 'fair share' number of cells for a single node drops below this value, the cells array is re-calculated. A value of 20 gives 5% precision in the display of backend server loads.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/pool_config.cpp:143
	Value type: unsigned integer
	• Default value: "20"
load_balancing!responsetime!per cent	The percent that two response times must differ by before they are treated as different.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/pool_config.cpp:137
	Value type: unsigned integer
	Default value: "5"
load_balancing!weighting!*	Weights for each node in the pool. The actual values in isolation do not matter, as long as they are valid integers, the per-node weightings are calculated on their relative values between the nodes. The key should be specified once-per-node with the node identifier (<ip>:<port>) replacing the * in each instance.</port></ip>
	• From://products/zxtm/lb/pool_config.cpp:131
	Value type: int
	Default value: <none></none>

Configuration Sections conf/pools

Key	Description
max_connect_time	How long the pool should wait for a connection to a node to be established before giving up and trying another node.
	• From://products/zxtm/lb/pool_config.cpp:172
	Value type: seconds
	• Default value: "4"
max_connection_attempts	The maximum number of nodes to which the traffic manager will attempt to send a request before returning an error to the client. Requests that are non-retryable will be attempted against only one node. Zero signifies no limit.
	• From://products/zxtm/lb/pool_config.cpp:192
	Value type: unsigned integer
	• Default value: "0"
max_connections_pernode	The maximum number of concurrent connections allowed to each back-end node in this pool per machine. A value of 0 means unlimited connections.
	• From://products/zxtm/lb/pool_config.cpp:342
	Value type: unsigned integer
	• Default value: "0"
max_idle_connections_pernode	The maximum number of unused HTTP keepalive connections that should be maintained to an individual node. Zero signifies no limit.
	• From://products/zxtm/lb/pool_config.cpp:253
	Value type: unsigned integer
	• Default value: "50"
max_queue_size	The maximum number of connections that can be queued due to connections limits. A value of 0 means unlimited queue size.
	• From://products/zxtm/lb/pool_config.cpp:353
	Value type: unsigned integer
	• Default value: "0"
max_reply_time	How long the pool should wait for a response from the node before either discarding the request or trying another node (retryable requests only).
	• From://products/zxtm/lb/pool_config.cpp:181
	Value type: seconds
	• Default value: "30"
max_timed_out_connection_atte mpts	The maximum number of connection attempts the traffic manager will make where the server fails to respond within the time limit defined by the max_reply_time setting. Zero signifies no limit.
	• From://products/zxtm/lb/pool_config.cpp:205
	Value type: unsigned integer
	• Default value: "2"
monitors	A list of monitors assigned to this pool.
	• From://products/zxtm/lb/pool_config.cpp:77
	• Value type: list
	• Default value: <none></none>

conf/pools Configuration Sections

Key	Description
node_close_with_rst	Whether or not connections to the back-end nodes should be closed with a RST packet, rather than a FIN packet. This avoids the TIME_WAIT state, which on rare occasions allows wandering duplicate packets to be safely ignored.
	• From://products/zxtm/lb/pool_config.cpp:332
	• Value type: Yes / No
	Default value: "No"
node_connclose	Close all connections to a node once we detect that it has failed.
	• From://products/zxtm/lb/pool_config.cpp:312
	Value type: Yes / No
	Default value: "No"
node_connection_attempts	The number of times the software will attempt to connect to the same back-end node before marking it as failed. This is only used when passive_monitoring is enabled.
	• From://products/zxtm/lb/pool_config.cpp:296
	Value type: unsigned integer
	• Default value: "3"
node_delete_behavior	Specify the deletion behavior for nodes in this pool.
	• From://products/zxtm/lb/pool_config.cpp:217
	Value type: enumeration
	Default value: "immediate"
	Permitted values:
	immediate: All connections to the node are closed immediately.
	drain: Allow existing connections to the node to finish before deletion.
node_drain_to_delete_timeout	The maximum time that a node will be allowed to remain in a draining state after it has been deleted. A value of 0 means no maximum time.
	• From://products/zxtm/lb/pool_config.cpp:227
	Value type: seconds
	Default value: "0"
node_fail_time	The amount of time, in seconds, that a traffic manager will wait before re-trying a node that has been marked as failed by passive monitoring.
	• From://products/zxtm/lb/pool_config.cpp:303
	Value type: seconds
	• Default value: "60"
node_so_nagle	Whether or not Nagle's algorithm should be used for TCP connections to the back-end nodes.
	• From://products/zxtm/lb/pool_config.cpp:322
	Value type: Yes / No
	Default value: "Yes"
nodes	A list of nodes in this pool. A node should be specified as a <ip>:<port> pair.</port></ip>
	• From://products/zxtm/lb/pool_config.cpp:22
	Value type: list
	• Default value: <none></none>

Configuration Sections conf/pools

Key	Description
note	A description of the pool.
	• From://products/zxtm/lb/pool_config.cpp:31
	Value type: string
	• Default value: <none></none>
passive_monitoring	Whether or not the software should check that 'real' requests (i.e. not those from monitors) to this pool appear to be working. This should normally be enabled, so that when a node is refusing connections, responding too slowly, or sending back invalid data, it can mark that node as failed, and stop sending requests to it.
	If this is disabled, you should ensure that suitable health monitors are configured to check your servers instead, otherwise failed requests will not be detected and subsequently retried.
	• From://products/zxtm/lb/pool_config.cpp:91
	Value type: Yes / No
	• Default value: "Yes"
persistence	The default Session Persistence class this pool uses, if any.
	• From://products/zxtm/lb/pool_config.cpp:162
	Value type: string
	• Default value: <none></none>
priority!enabled	Enable priority lists.
	• From://products/zxtm/lb/pool_config.cpp:430
	Value type: Yes / No
	Default value: "No"
priority!nodes	Minimum number of highest-priority active nodes.
	• From://products/zxtm/lb/pool_config.cpp:452
	Value type: unsigned integer
	Default value: "1"
priority!values	A list of node priorities, higher values signify higher priority. Priorities are specified using the format <ip>:<port>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:<pri>:</pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></pri></port></ip>
	• From://products/zxtm/lb/pool_config.cpp:445
	Value type: list
	• Default value: <none></none>
queue_timeout	The maximum time to keep a connection queued in seconds.
	• From://products/zxtm/lb/pool_config.cpp:362
	Value type: seconds
	• Default value: "10"
smtp!send_starttls	If we are encrypting traffic for an SMTP connection, should we upgrade to SSL using STARTTLS.
	• From://products/zxtm/lb/pool_config.cpp:695
	Value type: Yes / No
	Default value: "Yes"

conf/pools Configuration Sections

Key	Description
ssl_ciphers	The SSL/TLS ciphers to allow for connections to a back-end node. Leaving this empty will make the pool use the globally configured ciphers, see configuration key ssl!ssl3_ciphers in the Global Settings section of the System tab. See there for how to specify SSL/TLS ciphers.
	• From://products/zxtm/lb/pool_config.cpp:492
	Value type: string
	• Default value: <none></none>
ssl_client_auth	Whether or not a suitable certificate and private key from the SSL Client Certificates catalog be used if the back-end server requests client authentication.
	• From://products/zxtm/lb/pool_config.cpp:676
	Value type: Yes / No
	• Default value: "No"
ssl_common_name_match	A list of names against which the 'common name' of the certificate is matched; these names are used in addition to the node's hostname or IP address as specified in the config file or added by the autoscaler process.
	• From://products/zxtm/lb/pool_config.cpp:653
	Value type: list
	• Default value: <none></none>
ssl_elliptic_curves	The SSL elliptic curve preference list for SSL connections from this pool using TLS version 1.0 or higher. Leaving this empty will make the pool use the globally configured preference list, ssl!elliptic_curves in the Global Settings section of the System tab. See there for how to specify SSL elliptic curves.
	• From://products/zxtm/lb/pool_config.cpp:542
	Value type: string
	• Default value: <none></none>
ssl_encrypt	Whether or not the pool should encrypt data before sending it to a back-end node.
	• From://products/zxtm/lb/pool_config.cpp:471
	• Value type: Yes / No
	• Default value: "No"
ssl_enhance	SSL protocol enhancements allow your traffic manager to prefix each new SSL connection with information about the client. This enables Brocade Web Servers to run multiple SSL sites, and to discover the client's IP address. Only enable this if you are using nodes for this pool which are Brocade Web Servers or Brocade Virtual Traffic Managers, whose virtual servers have the ssl_trust_magic setting enabled.
	• From://products/zxtm/lb/pool_config.cpp:411
	• Value type: Yes / No
	Default value: "No"
ssl_send_close_alerts	Whether or not to send an SSL/TLS "close alert" when initiating a socket disconnection.
	• From://products/zxtm/lb/pool_config.cpp:686
	• Value type: Yes / No
	• Default value: "Yes"

Configuration Sections conf/pools

Key	Description
ssl_server_name	Whether or not the software should use the TLS 1.0 server_name extension, which may help the back-end node provide the correct certificate. Enabling this setting will force the use of at least TLS 1.0.
	 From://products/zxtm/lb/pool_config.cpp:664
	Value type: Yes / No
	Default value: "No"
ssl_signature_algorithms	The SSL signature algorithms preference list for SSL connections from this pool using TLS version 1.2 or higher. Leaving this empty will make the pool use the globally configured preference list, ssl!signature_algorithms in the Global Settings section of the System tab. See there for how to specify SSL signature algorithms.
	• From://products/zxtm/lb/pool_config.cpp:518
	Value type: string
	• Default value: <none></none>
ssl_strict_verify	Whether or not strict certificate verification should be performed. This will turn on checks to disallow server certificates that don't match the server name or a name in the ssl_common_name_match list, are self-signed, expired, revoked, or have an unknown CA.
	• From://products/zxtm/lb/pool_config.cpp:638
	Value type: Yes / No
	Default value: "No"
ssl_support_ssl2	Whether or not SSLv2 is enabled for this pool. Choosing the global setting means the value of the configuration key ssl!support_ssl2 from the Global Settings section of the System tab will be enforced.
	• From://products/zxtm/lb/pool_config.cpp:558
	Value type: enumeration
	Default value: "use_default"
	Permitted values:
	use_default: Use the global setting for SSLv2
	enabled: Enable SSLv2 (not recommended)
	disabled: Disable SSLv2
ssl_support_ssl3	Whether or not SSLv3 is enabled for this pool. Choosing the global setting means the value of the configuration key ssl!support_ssl3 from the Global Settings section of the System tab will be enforced.
	• From://products/zxtm/lb/pool_config.cpp:574
	Value type: enumeration
	Default value: "use_default"
	Permitted values:
	use_default: Use the global setting for SSLv3
	enabled: Enable SSLv3
	disabled: Disable SSLv3

conf/pools Configuration Sections

Key	Description
ssl_support_tls1	Whether or not TLSv1.0 is enabled for this pool. Choosing the global setting means the value of the configuration key ssl!support_tls1 from the Global Settings section of the System tab will be enforced.
	• From://products/zxtm/lb/pool_config.cpp:590
	Value type: enumeration
	Default value: "use_default"
	Permitted values:
	use_default: Use the global setting for TLSv1.0
	enabled: Enable TLSv1.0
	disabled: Disable TLSv1.0
ssl_support_tls1_1	Whether or not TLSv1.1 is enabled for this pool. Choosing the global setting means the value of the configuration key ssl!support_tls1_1 from the Global Settings section of the System tab will be enforced.
	• From://products/zxtm/lb/pool_config.cpp:608
	Value type: enumeration
	Default value: "use_default"
	Permitted values:
	use_default: Use the global setting for TLSv1.1
	enabled: Enable TLSv1.1
	disabled: Disable TLSv1.1
ssl_support_tls1_2	Whether or not TLSv1.2 is enabled for this pool. Choosing the global setting means the value of the configuration key ssl!support_tls1_2 from the Global Settings section of the System tab will be enforced.
	 From://products/zxtm/lb/pool_config.cpp:626
	Value type: enumeration
	Default value: "use_default"
	Permitted values:
	use_default: Use the global setting for TLSv1.2
	enabled: Enable TLSv1.2
	disabled: Disable TLSv1.2
transparent	Whether or not connections to the back-ends appear to originate from the source client IP address.
	• From://products/zxtm/lb/pool_config.cpp:285
	Value type: Yes / No
	Default value: "No"

Configuration Sections conf/protection

Key	Description
udp_accept_from	The IP addresses and ports from which responses to UDP requests should be accepted.
	If set to accept responses from a specific set of IP addresses, you will need to enter a CIDR Mask (such as $10.100.0.0/16$).
	• From://products/zxtm/lb/pool_config.cpp:379
	Value type: enumeration
	Default value: "dest_only"
	Permitted values:
	dest_only: Only the IP address and port to which the request was sent.
	dest_ip_only: Only the IP address to which the request was sent, but from any port.
	ip_mask: Only a specific set of IP addresses, but from any port.
	all: Any IP address and any port.
udp_accept_from_mask	The CIDR mask that matches IPs we want to receive responses from.
	• From://products/zxtm/lb/pool_config.cpp:392
	• Requires: udp_accept_from is set to "ip_mask"
	Value type: string
	• Default value: <none></none>

conf/protection

The conf/protection directory contains configuration files for service protection classes. The name of a file is the name of the protection class it defines. Service protection classes can be configured under the Catalogs > Protection section of the Admin Server UI or by using functions under the Catalog. Protection section of the SOAP API and CLI.

Key	Description
allowed	Always allow access to these IP addresses. This overrides the connection limits for these machines, but does not stop other restrictions such as HTTP validity checks.
	• From://products/zxtm/lb/protection.cpp:237
	Value type: list
	• Default value: <none></none>
banned	Disallow access to these IP addresses.
	• From://products/zxtm/lb/protection.cpp:219
	Value type: list
	 Default value: <none></none>

conf/protection Configuration Sections

Key	Description
debug	Whether or not to output verbose logging.
	• From://products/zxtm/lb/protection.cpp:73
	Value type: Yes / No
	Default value: "No"
enabled	Enable or disable this service protection class.
	• From://products/zxtm/lb/protection.cpp:55
	Value type: Yes / No
	Default value: "Yes"
http!check_rfc2396	Whether or not requests with poorly-formed URLs be should be rejected. This tests URL compliance as defined in RFC2396. Note that enabling this may block some older, non-conforming web browsers.
	• From://products/zxtm/lb/protection.cpp:289
	Value type: Yes / No
	Default value: "No"
http!max_body_length	Maximum permitted length of HTTP request body data, set to 0 to disable the limit.
	• From://products/zxtm/lb/protection.cpp:269
	Value type: bytes
	Default value: "0"
http!max_header_length	Maximum permitted length of a single HTTP request header (key and value), set to 0 to disable the limit.
	• From://products/zxtm/lb/protection.cpp:249
	Value type: bytes
	• Default value: "0"
http!max_request_length	Maximum permitted size of all the HTTP request headers, set to 0 to disable the limit.
	• From://products/zxtm/lb/protection.cpp:259
	Value type: bytes
	• Default value: "0"
http!max_url_length	Maximum permitted URL length, set to 0 to disable the limit.
	• From://products/zxtm/lb/protection.cpp:279
	Value type: bytes
	Default value: "0"
http!reject_binary	Whether or not URLs and HTTP request headers that contain binary data (after decoding) should be rejected.
	• From://products/zxtm/lb/protection.cpp:299
	Value type: Yes / No
	Default value: "No"

Configuration Sections conf/protection

Key	Description
http!send_error_page	This setting tells the traffic manager to send an HTTP error message if a connection fails the service protection tests, instead of just dropping it. Details of which HTTP response will be sent when particular tests fail can be found in the Help section for this page.
	• From://products/zxtm/lb/protection.cpp:310
	Value type: Yes / No
	Default value: "Yes"
linger_time	After sending a HTTP error message to a client, wait up to this time before closing the connection.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/protection.cpp:317
	Value type: seconds
	Default value: "3"
log_time	Log service protection messages at these intervals. If set to 0 no messages will be logged and no alerts will be sent.
	• From://products/zxtm/lb/protection.cpp:84
	Value type: seconds
	Default value: "60"
max_10_connections	Additional limit on maximum simultaneous connections from the top 10 busiest connecting IP addresses combined. The value should be between 1 and 10 times the max_1_connections limit.
	(This limit is disabled if per_process_connection_count is No, or max_1_connections is 0, or min_connections is 0.)
	• From://products/zxtm/lb/protection.cpp:166
	Value type: unsigned integer
	• Default value: "200"
max_1_connections	Maximum simultaneous connections each connecting IP address is allowed. Set to 0 to disable this limit.
	• From://products/zxtm/lb/protection.cpp:107
	Value type: unsigned integer
	Default value: "30"
max_connection_rate	Maximum number of new connections each connecting IP address is allowed to make in the rate_timer interval. Set to 0 to disable this limit. If applied to an HTTP Virtual Server each request sent on a connection that is kept alive counts as a new connection. The rate limit is per process: each process within a Traffic Manager accepts new connections from the connecting IP address at this rate. (Each Traffic Manager typically has several processes: one process per available CPU core).
	• From://products/zxtm/lb/protection.cpp:183
	Value type: unsigned integer
	• Default value: "0"

conf/protection Configuration Sections

Key	Description
min_connections	Entry threshold for the max_10_connections limit: the max_10_connections limit is not applied to connecting IP addresses with this many or fewer simultaneous connections.
	Setting to 0 disables both the max_1_connections and max_10_connections limits, if per_process_connection_count is Yes. (If per_process_connection_count is No, this setting is ignored.)
	• From://products/zxtm/lb/protection.cpp:146
	Value type: unsigned integer
	Default value: "4"
note	A description of the service protection class.
	• From://products/zxtm/lb/protection.cpp:51
	Value type: string
	• Default value: <none></none>
per_process_connection_count	Whether simultaneous connection counting and limits are per-process. (Each Traffic Manager typically has several processes: one process per available CPU core.)
	If Yes, a connecting IP address may make that many connections to each process within a Traffic Manager. If No, a connecting IP address may make that many connections to each Traffic Manager as a whole.
	• From://products/zxtm/lb/protection.cpp:125
	Value type: Yes / No
	Default value: "Yes"
rate_timer	How frequently the max_connection_rate is assessed. For example, a value of 1 (second) will impose a limit of max_connection_rate connections per second; a value of 60 will impose a limit of max_connection_rate connections per minute. The valid range is 1-99999 seconds.
	• From://products/zxtm/lb/protection.cpp:201
	Value type: seconds
	• Default value: "60"
rule	A TrafficScript rule that will be run on the connection after the service protection criteria have been evaluated. This rule will be executed prior to normal rules configured for the virtual server.
	• From://products/zxtm/lb/protection.cpp:96
	Value type: string
	Default value: <none></none>
testing	Place the service protection class into testing mode. (Log when this class would have dropped a connection, but allow all connections through).
	• From://products/zxtm/lb/protection.cpp:65
	Value type: Yes / No
	Default value: "No"

Configuration Sections conf/rate

conf/rate

The conf/rate directory contains configuration files for request rate shaping classes. The name of a file is the name of the rate shaping class it defines. Request rate shaping classes can be configured under the Catalogs > Rate section of the Admin Server UI or by using functions under the Catalog.Rate section of the SOAP API and CLI.

Key	Description
max_rate_per_minute	Requests that are associated with this rate class will be rate-shaped to this many requests per minute, set to 0 to disable the limit.
	• From://products/zxtm/lb/rate.cpp:152
	Value type: unsigned integer
	• Default value: "0"
max_rate_per_second	Although requests will be rate-shaped to the max_rate_per_minute, the traffic manager will also rate limit per-second. This smooths traffic so that a full minute's traffic will not be serviced in the first second of the minute, set this to 0 to disable the per-second limit.
	• From://products/zxtm/lb/rate.cpp:165
	Value type: unsigned integer
	• Default value: "0"
note	A description of the rate class.
	• From://products/zxtm/lb/rate.cpp:130
	Value type: string
	• Default value: <none></none>
queue_length	The maximum number of items allowed in the queue for this rate class. A value of 0 means there is no limit on the number of connections that can be queued.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/rate.cpp:141
	Value type: unsigned integer
	• Default value: "0"

conf/rules

The conf/rules directory contains plain text and compiled TrafficScript rule files. The name of a file is the name of the rule it defines. Rules are managed under the Catalogs > Rules section of the Admin Server UI or by using functions under the Catalog.Rule section of the SOAP API and CLI.

Key	Description
There are no items to display for t	his configuration type.

conf/scripts Configuration Sections

conf/scripts

The conf/scripts directory contains programs and scripts that may be run by monitors of the program type. Monitor programs can be managed under the Catalogs > Extra Files > Monitor Programs section of the Admin Server UI or by using functions under the Catalog. Monitor section of the SOAP API and CLI.

Key	Description
There are no items to	display for this configuration type.

conf/security

The conf/security file contains the security configuration of the software. Settings in this classes can be configured under the System > Security section of the Admin Server UI.

Key	Description
access	Access to the admin server and REST API is restricted by usernames and passwords. You can further restrict access to just trusted IP addresses, CIDR IP subnets or DNS wildcards. These access restrictions are also used when another traffic manager initially joins the cluster, after joining the cluster these restrictions are no longer used. Care must be taken when changing this setting, as it can cause the administration server to become inaccessible.
	Access to the admin UI will not be affected until it is restarted.
	• From://products/zxtm/lb/security.cpp:70
	Value type: list
	• Default value: <none></none>
ssh_intrusion!bantime	The amount of time in seconds to ban an offending host for.
	• From://products/zxtm/lb/security.cpp:22
	Value type: unsigned integer
	• Default value: "600"
ssh_intrusion!blacklist	The list of hosts to permanently ban, identified by IP address or DNS hostname in a space-separated list.
	• From://products/zxtm/lb/security.cpp:55
	Value type: list
	• Default value: <none></none>
ssh_intrusion!enabled	Whether or not the SSH Intrusion Prevention tool is enabled.
	• From://products/zxtm/lb/security.cpp:16
	• Value type: Yes / No
	Default value: "No"

Configuration Sections conf/services

Key	Description
ssh_intrusion!findtime	The window of time in seconds the maximum number of connection attempts applies to. More than (maxretry) failed attempts in this time span will trigger a ban.
	• From://products/zxtm/lb/security.cpp:37
	Value type: unsigned integer
	• Default value: "600"
ssh_intrusion!maxretry	The number of failed connection attempts a host can make before being banned.
	• From://products/zxtm/lb/security.cpp:29
	Value type: unsigned integer
	• Default value: "6"
ssh_intrusion!whitelist	The list of hosts to never ban, identified by IP address, DNS hostname or subnet mask, in a space-separated list.
	• From://products/zxtm/lb/security.cpp:46
	Value type: list
	• Default value: <none></none>

conf/services

A global load balancing service is used by a virtual server to modify DNS requests in order load balance data across different GLB locations.

Key	Description
algorithm	Defines the global load balancing algorithm to be used.
	• From://products/zxtm/lb/fqdn.cpp:122
	Value type: enumeration
	Default value: "hybrid"
	Permitted values:
	load: Load
	geo: Geographic
	hybrid: Adaptive
	roundrobin: Round Robin
	weightedrandom: Weighted Random
	chained: Primary/Backup
all_monitors_needed	Are all the monitors required to be working in a location to mark this service as alive?
	• From://products/zxtm/lb/fqdn.cpp:255
	Value type: Yes / No
	Default value: "Yes"

conf/services Configuration Sections

Key	Description
autofail	Enable/Disable automatic failback mode.
	• From://products/zxtm/lb/fqdn.cpp:141
	Value type: Yes / No
	Default value: "No"
autorecovery	The last location to fail will be available as soon as it recovers.
	• From://products/zxtm/lb/fqdn.cpp:150
	Value type: Yes / No
	Default value: "Yes"
dc!weight!*	Assign weights for each location.
	• From://products/zxtm/lb/fqdn.cpp:328
	Value type: unsigned integer
	• Default value: <none></none>
disable_on_failure	Locations recovering from a failure will become disabled.
	• From://products/zxtm/lb/fqdn.cpp:159
	Value type: Yes / No
	Default value: "No"
dnssec!*	The domain this private key authenticates.
	• From://products/zxtm/lb/fqdn.cpp:311
	Value type: list
	• Default value: <none></none>
domains	The domains shown here should be a list of Fully Qualified Domain Names that you would like to balance globally. Responses from the back end DNS servers for queries that do not match this list will be forwarded to the client unmodified. Note: "*" may be used as a wild card.
	• From://products/zxtm/lb/fqdn.cpp:107
	Value type: list
	• Default value: <none></none>
draining	This is the list of locations for which this service is draining. A location that is draining will never serve any of its service IP addresses for this domain. This can be used to take a location off-line.
	• From://products/zxtm/lb/fqdn.cpp:227
	Value type: list
	• Default value: <none></none>
enabled	Enable/Disable our response manipulation of DNS.
	• From://products/zxtm/lb/fqdn.cpp:215
	Value type: Yes / No
	Default value: "No"

Configuration Sections conf/services

Key	Description
geo_effect	How much should the locality of visitors affect the choice of location used? This value is a percentage, 0% means that no locality information will be used, and 100% means that locality will always control which location is used. Values between the two extremes will act accordingly.
	• From://products/zxtm/lb/fqdn.cpp:196
	Value type: unsigned integer
	Default value: "50"
health_objects	The objects that this service's health depends.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/fqdn.cpp:246
	Value type: list
	• Default value: <none></none>
last_resort_response	The response to be sent in case there are no locations available.
-	• From://products/zxtm/lb/fqdn.cpp:173
	Value type: list
	• Default value: <none></none>
localips!*	The IP addresses that are present in a location. If the Global Load Balancer decides to direct a DNS query to this location, then it will filter out all IPs that are not in this list.
	• From://products/zxtm/lb/fqdn.cpp:90
	Value type: list
	• Default value: <none></none>
location_order	The locations this service operates for and defines the order in which locations fail.
	• From://products/zxtm/lb/fqdn.cpp:132
	Value type: list
	 Default value: <none></none>
log!always_flush	Write log data to disk immediately, rather than buffering data.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/fqdn.cpp:302
	Value type: Yes / No
	Default value: "No"
log!enabled	Log connections to this GLB service?
	• From://products/zxtm/lb/fqdn.cpp:273
	Value type: Yes / No
	Default value: "No"
log!filename	The filename the verbose query information should be logged to. Appliances will ignore this.
	• From://products/zxtm/lb/fqdn.cpp:285
	Requires: log!enabled is set to "Yes"
	Value type: string
	 Default value: "%zeushome%/zxtm/log/services/%g.log"

conf/servlets Configuration Sections

Key	Description
log!format	The format of the log lines.
	• From://products/zxtm/lb/fqdn.cpp:296
	 Requires: log!enabled is set to "Yes"
	Value type: string
	• Default value: "%t, %s, %l, %q, %g, %n, %d, %a"
monitors!*	The monitors that are present in a location.
	• From://products/zxtm/lb/fqdn.cpp:236
	Value type: list
	• Default value: <none></none>
peer_health_timeout	Peer reported monitor state timeout in seconds.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/fqdn.cpp:264
	Value type: unsigned integer
	• Default value: "10"
return_ips_on_fail	Return all or none of the IPs under complete failure.
	• From://products/zxtm/lb/fqdn.cpp:183
	Value type: Yes / No
	Default value: "Yes"
rules	Response rules to be applied in the context of the service, in order, comma separated.
	• From://products/zxtm/lb/fqdn.cpp:320
	Value type: list
	• Default value: <none></none>
ttl	The TTL for the DNS resource records handled by the GLB service.
	• From://products/zxtm/lb/fqdn.cpp:207
	Value type: int
	Default value: "-1"

conf/servlets

The conf/servlets directory contains configuration files for Java Extension servlets. If there are any parameters configured for a Java servlet, this configuration is stored in this directory in a file with the same name as the full name of the servlet. Servlet parameters are configured by clicking on the servlet name in the Catalogs > Java section of the Admin Server UI of by using the various "Properties" functions in the Catalog.JavaExtensions section of the SOAP API and CLI.

Key	Description
There are no items to display for t	is configuration type.

Configuration Sections conf/settings.cfg

conf/settings.cfg

The conf/settings.cfg file contains general global settings that are used across a cluster. These setting are managed under the System > Global Settings section of the Admin Server UI or by using functions under the GlobalSettings section of the SOAP API and CLI.

Key	Description
accept_mutex	Whether or not the software should put a lock around accept() calls.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:894
	Value type: Yes / No
	Default value: "No"
admin!honor_fallback_scsv	Whether or not the admin server, the internal control port and the config daemon honor the Fallback SCSV to protect connections against downgrade attacks.
	• From://products/zxtm/lb/settings.cpp:2396
	Value type: Yes / No
	• Default value: "Yes"
admin!insert_extra_fragment	Whether or not admin server SSL3 and TLS1 use one-byte fragments as a BEAST countermeasure for admin server and internal connections.
	• From://products/zxtm/lb/settings.cpp:2472
	Value type: Yes / No
	Default value: "No"
admin!ssl3_allow_rehandshake	Whether or not SSL3/TLS re-handshakes should be supported for admin server and internal connections.
	• From://products/zxtm/lb/settings.cpp:2464
	Value type: enumeration
	• Default value: "rfc5746"
	Permitted values:
	always: Always allow
	safe: Allow safe re-handshakes
	rfc5746: Only if client uses RFC 5746 (Secure Renegotiation Extension)
	never: Never allow
admin!ssl3_ciphers	The SSL ciphers to use for admin server and internal connections. For information on supported ciphers see the online help.
	• From://products/zxtm/lb/settings.cpp:2413
	Value type: string
	 Default value: "SSL_RSA_WITH_AES_128_GCM_SHA256,SSL_RSA_WITH_AES_128_CB C_SHA256,SSL_RSA_WITH_AES_128_CBC_SHA,SSL_RSA_WITH_AES_25 6_GCM_SHA384,SSL_RSA_WITH_AES_256_CBC_SHA256,SSL_RSA_WIT H_AES_256_CBC_SHA,SSL_RSA_WITH_3DES_EDE_CBC_SHA,SSL_DHE _DSS_WITH_AES_128_CBC_SHA,SSL_DHE_DSS_WITH_AES_256_CBC_S HA,SSL_DHE_DSS_WITH_3DES_EDE_CBC_SHA"

conf/settings.cfg Configuration Sections

Key	Description
admin!ssl3_diffie_hellman_key_l ength	The length in bits of the Diffie-Hellman key for ciphers that use Diffie-Hellman key agreement for admin server and internal connections.
	• From://products/zxtm/lb/settings.cpp:2515
	Value type: enumeration
	• Default value: "2048"
	Permitted values:
	1024: 1024
	2048: 2048
	3072: 3072
	4096: 4096
admin!ssl3_min_rehandshake_in terval	If SSL3/TLS re-handshakes are supported on the admin server, this defines the minimum time interval (in milliseconds) between handshakes on a single SSL3/TLS connection that is permitted. To disable the minimum interval for handshakes the key should be set to the value 0.
	• From://products/zxtm/lb/settings.cpp:2501
	Value type: unsigned integer
	• Default value: "1000"
admin!ssl_elliptic_curves	The SSL elliptic curve preference list for admin and internal connections. For information on supported curves see the online help.
	• From://products/zxtm/lb/settings.cpp:2448
	Value type: string
	• Default value: <none></none>
admin!ssl_max_handshake_mess age_size	The maximum size (in bytes) of SSL handshake messages that the admin server and internal connections will accept. To accept any size of handshake message the key should be set to the value 0.
	• From://products/zxtm/lb/settings.cpp:2530
	Value type: bytes
	• Default value: "10240"
admin!ssl_prevent_timing_side_c hannels	Take performance degrading steps to prevent exposing timing side-channels with SSL3 and TLS used by the admin server and internal connections.
	• From://products/zxtm/lb/settings.cpp:2484
	Value type: Yes / No
	Default value: "No"
admin!ssl_signature_algorithms	The SSL signature algorithms preference list for admin and internal connections. For information on supported algorithms see the online help.
	• From://products/zxtm/lb/settings.cpp:2431
	Value type: string
	• Default value: <none></none>
admin!support_ssl2	Whether or not SSL2 support is enabled for admin server and internal connections.
	• From://products/zxtm/lb/settings.cpp:2358
	• Value type: Yes / No
	Default value: "No"

Configuration Sections conf/settings.cfg

Key	Description
admin!support_ssl3	Whether or not SSL3 support is enabled for admin server and internal connections.
	• From://products/zxtm/lb/settings.cpp:2364
	• Value type: Yes / No
	Default value: "No"
admin!support_tls1	Whether or not TLS1.0 support is enabled for admin server and internal connections.
	• From://products/zxtm/lb/settings.cpp:2370
	• Value type: Yes / No
	• Default value: "Yes"
admin!support_tls1_1	Whether or not TLS1.1 support is enabled for admin server and internal connections.
	• From://products/zxtm/lb/settings.cpp:2377
	• Value type: Yes / No
	• Default value: "Yes"
admin!support_tls1_2	Whether or not TLS1.2 support is enabled for admin server and internal connections.
	• From://products/zxtm/lb/settings.cpp:2384
	Value type: Yes / No
	• Default value: "Yes"
afm_cluster_timeout	How long in seconds to wait for the application firewall control script to complete clustering operations for the application firewall.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	From://products/zxtm/lb/settings.cpp:2777
	Value type: int
	• Default value: "30"
afm_control_timeout	How long in seconds to wait for the application firewall control script to complete operations such as starting and stopping the application firewall.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:2769
	Value type: int
	• Default value: "300"
afm_enabled	Is the application firewall enabled.
	• From://products/zxtm/lb/settings.cpp:2740
	Value type: Yes / No
	Default value: "No"

conf/settings.cfg Configuration Sections

Key	Description
afm_max_deciders	Maximum configurable number of application firewall deciders. The standard licence limit is 8, but this expert key is provided should a special licence permitting more than 8 deciders be provided.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:2750
	Value type: unsigned integer
	• Default value: "8"
afm_state_interval	How often, in seconds, to gather the state of the application firewall in the cluster. A value of 0 means to not gather application firewall information at all.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:2761
	Value type: seconds
	• Default value: "10"
allow_consecutive_chars	Whether or not to allow the same character to appear consecutively in passwords.
	• From://products/zxtm/lb/settings.cpp:2699
	• Value type: Yes / No
	• Default value: "Yes"
appliance!bootloader_password	The password used to protect the bootloader. An empty string means there will be no protection.
	• From://products/zxtm/lb/settings.cpp:738
	Value type: password
	• Default value: <none></none>
appliance!managencss	Whether or not we should manage the nCipher Support Software automatically.
	• From://products/zxtm/lb/settings.cpp:1931
	• Value type: Yes / No
	Default value: "Yes"
appliance!ncss!nethsm	The IP address of the nCipher NetHSM to use.
	• From://products/zxtm/lb/settings.cpp:1942
	Value type: string
	• Default value: <none></none>
appliance!ncss!nethsm_esn	The ESN (electronic serial number) for the NetHSM.
apphareemessmensm_esn	• From://products/zxtm/lb/settings.cpp:1953
	Value type: string
	Default value: <none></none>
appliance!ncss!nethsm_hash	
apphancemessmemsm_nasn	The key hash for the NetHSM. • From: / / products / zvtm / lb / settings cpp: 1964
	From://products/zxtm/lb/settings.cpp:1964 Value type: string
	Value type: string Default value: gropes
	• Default value: <none></none>

Configuration Sections conf/settings.cfg

Key	Description
appliance!ncss!rfs	The IP address of the nCipher Remote File System to use.
	• From://products/zxtm/lb/settings.cpp:1975
	Value type: string
	• Default value: <none></none>
appliance!return_path_routing_e nabled	Whether or not the traffic manager will attempt to route response packets back to clients via the same route on which the corresponding request arrived.
	Note that this applies only to the last hop of the route - the behaviour of upstream routers cannot be altered by the traffic manager.
	• From://products/zxtm/lb/settings.cpp:3053
	• Value type: Yes / No
	Default value: "No"
appliance!returnpath!*!ipv4	The MAC address to IPv4 address mapping of a router the software is connected to. The * (asterisk) in the key name is the MAC address, the value is the IP address.
	• From://products/zxtm/lb/settings.cpp:3065
	Value type: string
	Default value: <none></none>
appliance!returnpath!*!ipv6	The MAC address to IPv6 address mapping of a router the software is connected to. The * (asterisk) in the key name is the MAC address, the value is the IP address.
	• From://products/zxtm/lb/settings.cpp:3077
	Value type: string
	• Default value: <none></none>
aptimizer!bandwidth_limit	How many Mb of data aptimizer is allowed to process in a second.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:2827
	Value type: unsigned integer
	• Default value: "100"
aptimizer!cache_entry_lifetime	The period of time (in seconds) that unaccessed cache entries will be retained by aptimizer.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:2919
	Value type: unsigned integer
	• Default value: "86400"
aptimizer!cache_entry_limit	The maximum number of cache entries that will be retained by aptimizer before removing old entries to make room for new ones.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:2941
	Value type: unsigned integer

conf/settings.cfg Configuration Sections

Key	Description
aptimizer!default_profile	The Profile to use by default if no mappings are configured (or if Aptimizer is licensed in Express mode)
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:3038
	Value type: string
	Default value: "Express"
aptimizer!default_scope	The Scope to use by default if no mappings are configured (or if Aptimizer is licensed in Express mode)
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:3027
	Value type: string
	Default value: "Any hostname or path"
aptimizer!dependent_fetch_time	How long to wait for dependent resource fetches (default 30 seconds).
out	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:2871
	Value type: unsigned integer
	• Default value: "30"
aptimizer!enable_edit_index	Whether or not the Aptimizer index can be cleared if "/aptimizer-clear-index" or compacted if "/aptimizer-compact-index" is appended to an Aptimized URL
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:2978
	• Value type: Yes / No
	Default value: "No"
aptimizer!enable_state_dump	Whether or not the Aptimizer state will be dumped if "/aptimizer-state-dump" is appended to an Aptimized URL.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:2966
	• Value type: Yes / No
	Default value: "No"
aptimizer!ipc_timeout	The time after which connections between the traffic manager and Aptimizer processes will be closed, should an optimization job take considerably longer than expected.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:2954
	Value type: unsigned integer
	• Default value: "120"
aptimizer!max_concurrent_jobs	How many direct jobs can be in progress before optimization jobs start getting rejected by aptimizer
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:2990
	Value type: unsigned integer

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aptimizer!max_dependent_fetch_ size The maximum size of a dependent resource that can undergo Aptimizer optimization. Any content larger than this size will not be optimized. Uni KB and MB can be used, no postfix denotes bytes. A value of 0 disables the limit. • From://products/zxtm/lb/settings.cpp:2859	te of
• • • • • • • • • • • • • • • • • • • •	
Value type: etning	
Value type: string	
• Default value: "2MB"	
aptimizer!max_original_content_buffer_size The maximum size of unoptimized content buffered in the traffic manager single backend response that is undergoing Aptimizer optimization. Response is compressed then this will not be optimized. Note that if the backend response is compressed then this setting pertains to the compressed size, before Aptimized content buffered in the traffic manager single backend response that is undergoing Aptimizer optimization. Response is compressed then this setting pertains to the compressed size, before Aptimized content buffered in the traffic manager single backend response that is undergoing Aptimizer optimization. Response is compressed in the traffic manager single backend response it is undergoing Aptimizer optimization. Response is compressed in the traffic manager single backend response it is undergoing Aptimizer optimization. Response is compressed in the traffic manager single backend response it is undergoing Aptimizer optimization. Response is compressed in the traffic manager single backend response is compressed in the traffic manager single backend response it is undergoing Aptimizer optimization. Response is compressed in the traffic manager single backend response is compressed in the traffic manager single backend response it is undergoing Aptimizer optimized. Note that if the backend response is compressed in the traffic manager single backend response is compressed in the traffic manager single backend response is compressed in the traffic manager single backend response is compressed in the traffic manager single backend response is compressed in the traffic manager single backend response is compressed in the traffic manager single backend response is compressed in the traffic manager single backend response is compressed in the traffic manager single backend response is compressed in the traffic manager single backend response is compressed in the traffic manager single backend response is compressed in the traffic manager single backend response is comp	onses s mizer
• From://products/zxtm/lb/settings.cpp:2844	
Value type: string	
Default value: "2MB"	
aptimizer!queue_buffer_size The size in bytes of the operating system buffer which is used to send req URLs and data to Aptimizer and return optimized resources from Aptimiz larger buffer will allow a greater number of simultaneous resources to be optimized, particularly if a large number of requests are made at the same for example an HTML page containing hundreds of images to optimize. I is set to zero, the default operating system buffer size will be used.	er. A time,
DO NOT SET OR MODIFY THIS KEY MANUALLY.	
• From://products/zxtm/lb/settings.cpp:3016	
Value type: unsigned integer	
• Default value: "131072"	
aptimizer!resource_lifetime The period of time (in seconds) that resource data is retained by aptimizer it is no longer actively in use.	after
DO NOT SET OR MODIFY THIS KEY MANUALLY.	
• From://products/zxtm/lb/settings.cpp:2908	
Value type: unsigned integer	
Default value: "10"	
aptimizer!resource_memory_limi the maximum amount of memory the cache is allowed to have pinned. Or goes over that limit, it starts releasing resource data in LRU order.	nce it
DO NOT SET OR MODIFY THIS KEY MANUALLY.	
• From://products/zxtm/lb/settings.cpp:2930	
Value type: unsigned integer	
• Default value: "256"	
aptimizer!secret The secret key used to verify that URLs pointing to resources constructed Aptimizer have not been altered.	by
DO NOT SET OR MODIFY THIS KEY MANUALLY.	
• From://products/zxtm/lb/settings.cpp:2816	
Value type: string	
 Default value: <none></none> 	

conf/settings.cfg Configuration Sections

Key	Description
aptimizer!watchdog_interval	The period of time (in seconds) after which a previous failure will no longer count towards the watchdog limit.
	• From://products/zxtm/lb/settings.cpp:2897
	Value type: seconds
	• Default value: "300"
aptimizer!watchdog_limit	The maximum number of times the Aptimizer sub-process will be started or restarted within the interval defined by the aptimizer!watchdog_interval setting. If the process fails this many times, it must be restarted manually from the Diagnose page. Zero means no limit.
	• From://products/zxtm/lb/settings.cpp:2888
	Value type: unsigned integer
	• Default value: "3"
asp_cache_size	The maximum number of entries in the ASP session cache. This is used for storing session mappings for ASP session persistence. Approximately 100 bytes will be pre-allocated per entry.
	• From://products/zxtm/lb/settings.cpp:1470
	Value type: unsigned integer
	• Default value: "32768"
auditlog!mandatory_retention	How long (in days) to enforce retention of audit log files (the default is 5 years).
,	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1288
	Value type: unsigned integer
	• Default value: "1826"
auditlog!via_eventd	Whether to mirror the audit log to EventD.
	• From://products/zxtm/lb/settings.cpp:1308
	Value type: Yes / No
	Default value: "No"
auditlog!via_syslog	Whether to output audit log message to the syslog.
	• From://products/zxtm/lb/settings.cpp:1298
	Value type: Yes / No
	Default value: "No"
autodiscover!enabled	Whether or not to enable the traffic manager auto discovery port.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:594
	Value type: Yes / No
	Default value: "Yes"
autoscaler!slm_interval	The interval at which the parent sends new SLM status to the autoscaler.
uatoocaici.omi_mcivai	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	From://products/zxtm/autoscaler/autoscaler.cpp:258
	Value type: seconds
	Value type: seconds Default value: "10"
	• Default Value: 10

Configuration Sections conf/settings.cfg

Key	Description
autoscaler!verbose	Whether or not detailed messages about the autoscaler's activity are written to the error log.
	• From://products/zxtm/autoscaler/autoscaler.cpp:273
	Value type: Yes / No
	Default value: "No"
bandwidth!full_speed_scale	How many times extra bandwidth to give to connections that are determined to be "full speed", i.e. using up as much bandwidth as we give them. A higher value means that slow connections won't reserve as much bandwidth and so slow down the connections that can go fast.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1039
	Value type: unsigned integer
	Default value: "4"
bandwidth!historic_weighting	When sharing out bandwidth across the cluster, this controls how fast we shift bandwidth limits. A high number will mean that the per-traffic manager limits move slowly towards the new values, which should give smooth and slow changes across the cluster - good if all machines get a constant flow of traffic. A lower value means that bandwidth limits move quickly to the new distribution - good if traffic is bursty to different machines.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1096
	Value type: unsigned integer
	Default value: "10"
bandwidth!license_sharing	For the global BW limits, how the bandwidth allocation should be shared between consumers. In 'pooled' mode, the allocation is shared between all consumers, who can write as much data as they want until the pool of data is exhausted. In 'quota' mode, bandwidth is divided between consumers, who can write only as much as they are allocated. Any unused bandwidth will be lost.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1119
	Value type: enumeration
	Default value: "pooled"
	• Permitted values:
	quota: quota
	pooled: pooled
bandwidth!max_spare_time	Maximum spare bandwidth to build up. A larger value means that if connections are slow for a while, we can use more of the previous difference between limit and quota for future transfers. However, too large a time will mean that we allow large "bursts" of traffic that exceed the bandwidth limits. Value is in milliseconds.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1085
	Value type: unsigned integer
	• Default value: "200"

conf/settings.cfg Configuration Sections

Key	Description
bandwidth!min_write	Minimum packet size when writing bandwidth. Don't write smaller chunks of data than this size. Writing tiny packets is inefficient and actually increases bandwidth usage because of the TCP and IP packet wrapper.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1075
	Value type: bytes
	• Default value: "64"
bandwidth!pooled_min_write	For the global BW limits using 'pooled' bandwidth allocation sharing between consumers, when the license limit is reached the allowance will be evenly distributed between the remaining consumers. Each consumer will, however be permitted to write at least this much data.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1129
	Value type: unsigned integer
	• Default value: "4096"
bandwidth!refill_time	Time period, in milliseconds, between refreshing the bandwidth class quotas. The more frequent, the smoother the bandwidth will be, although the smaller the writes we'll do, which is less efficient. Note that this also has a big effect on per-connection limiting. If a single connection can complete within this time, then it effectively has no bandwidth limit at all.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1050
	Value type: unsigned integer
	• Default value: "100"
bandwidth!warn_time	For the global BW limits, how many seconds they must be running at maximum speed before we print a warning about the limit being hit. Set to 0 to disable any warning messages.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1106
	Value type: seconds
	• Default value: "30"
banner_accept	Whether or not users must explicitly agree to the displayed login_banner text before logging in to the Admin Server.
	• From://products/zxtm/lb/settings.cpp:632
	Value type: Yes / No
	Default value: "No"
bgp!as_number	The number of the BGP AS in which the traffic manager will operate. Must be entered in decimal.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:192
	Value type: unsigned integer
	• Default value: "65534"

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Key	Description
bgp!enabled	Whether BGP Route Health Injection is enabled
	• From://products/zxtm/lb/flipper_settings_keys.cpp:183
	• Value type: Yes / No
	Default value: "No"
child_control_command_timeout	Timeout for waiting for child processes to respond to parent control requests If a child process (zeus.zxtm, zeus.eventd, zeus.autoscaler, etc) takes longer than this number of seconds to respond to a parent control command, error messages will be logged for every multiple of this number of seconds, for example, if set to 10 seconds, a log message will be logged every 10 seconds, until the child responds or is automatically killed (see the child_control_kill_timeout setting).
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:850
	Value type: seconds
	• Default value: "10"
child_control_kill_timeout	Timeout for waiting for child processes to respond to parent control requests If a child process (zeus.zxtm, zeus.eventd, zeus.autoscaler, etc) takes longer than this number of seconds to respond to a parent control command, then the parent zeus.zxtm process will assume this process is stuck in an unresponsive loop and will kill it, log the termination event, and wait for a new process of the same type to restart. Set this to 0 to disable killing unresponsive child processes.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:865
	Value type: seconds
	• Default value: "60"
chunk_size	The default chunk size for reading/writing requests.
	• From://products/zxtm/lb/settings.cpp:941
	Value type: bytes
	Default value: "16384"
client_first_opt	Whether or not your traffic manager should make use of TCP optimisations to defer the processing of new client-first connections until the client has sent some data.
	• From://products/zxtm/lb/settings.cpp:888
	• Value type: Yes / No
	Default value: "No"
cluster_identifier	Cluster identifier. Generally supplied by Services Director.
	• From://products/zxtm/lb/settings.cpp:195
	Value type: string
	Default value: <none></none>

Key	Description
config!storage_shared	Whether the storage for the traffic managers' configuration is shared between cluster members.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:262
	• Value type: Yes / No
	Default value: "No"
config_check_time	How often configuration files should be checked for modifications by a user or an external application.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:305
	Value type: seconds
	• Default value: "5"
control!canupdate!default	The default value of control!canupdate for new cluster members. If you have cluster members joining from less trusted locations (such as cloud instances) this can be set to No in order to make them effectively "read-only" cluster members.
	• From://products/zxtm/lb/settings.cpp:252
	Value type: Yes / No
	Default value: "Yes"
controlallow	The hosts that can contact the internal administration port on each traffic manager. This should be a list containing IP addresses, CIDR IP subnets, and localhost; or it can be set to all to allow any host to connect.
	• From://products/zxtm/lb/settings.cpp:235
	Value type: string
	Default value: "all"
dns!checktime	How often to check the DNS configuration for changes.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1021
	Value type: seconds
	Default value: "30"
dns!hosts	The location of the hosts file.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1008
	Value type: string
	Default value: "/etc/hosts"
dns!hostsfirst	Whether or not to try reading the dns!hosts file before calling gethostbyname(). This config key exists for testing purposes only.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1030
	• Value type: Yes / No
	Default value: "No"

Key	Description
dns!max_ttl	Maximum Time To Live (expiry time) for entries in the DNS cache.
	• From://products/zxtm/lb/settings.cpp:979
	Value type: seconds
	Default value: "86400"
dns!maxasynctries	How often to send DNS request packets before giving up.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1000
	Value type: unsigned integer
	Default value: "2"
dns!min_ttl	Minimum Time To Live (expiry time) for entries in the DNS cache.
	• From://products/zxtm/lb/settings.cpp:972
	Value type: seconds
	• Default value: "86400"
dns!negative_expiry	Expiry time for failed lookups in the DNS cache.
	• From://products/zxtm/lb/settings.cpp:986
	Value type: seconds
	• Default value: "60"
dns!resolv	The location of the resolv.conf file.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1016
	Value type: string
	• Default value: "/etc/resolv.conf"
dns!size	Maximum number of entries in the DNS cache.
	• From://products/zxtm/lb/settings.cpp:965
	Value type: unsigned integer
	• Default value: "10867"
dns!timeout	Timeout for receiving a response from a DNS server.
	• From://products/zxtm/lb/settings.cpp:993
	Value type: seconds
	Default value: "12"
dns_autoscale!resolver	The IP address and port number of the DNS server to use for DNS-derived autoscaling, in the form addr:port. This is intended for test and debug purposes, and will override the configuration of the system resolver, which is usually defined in /etc/resolv.conf
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/autoscaler/autoscaler.cpp:251
	Value type: string
	Default value: <none></none>

Key	Description
ec2!access_key_id	Amazon EC2 Access Key ID.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:31
	Value type: string
	• Default value: <none></none>
ec2!action_timeout	How long, in seconds, the traffic manager should wait while associating or disassociating an Elastic IP to the instance.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:94
	Value type: seconds
	• Default value: "10"
ec2!metadata_server	URL for the EC2 metadata server, http://169.254.169.254/latest/meta-data for example.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:84
	Value type: string
	• Default value: <none></none>
ec2!query_server	URL for the Amazon EC2 endpoint, https://ec2.amazonaws.com/ for example.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:57
	Value type: string
	• Default value: <none></none>
ec2!secret_access_key	Amazon EC2 Secret Access Key.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:43
	Value type: password
	• Default value: <none></none>
ec2!verify_query_server_cert	Whether to verify Amazon EC2 endpoint's certificate using CA(s) present in SSL Certificate Authorities Catalog.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:69
	Value type: Yes / No
	Default value: "No"
ec2!vpc_decluster_on_stop	Whether to decluster the traffic manager running inside vpc when the instance stops.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:3135
	• Value type: Yes / No
	Default value: "No"

Key	Description
errlevel	The minimum severity of events/alerts that should be logged to disk. ERR_INFO will log all events; a higher severity setting will log fewer events. More fine-grained control can be achieved using events and actions in the Alerting section of the UI.
	• From://products/zxtm/lb/settings.cpp:1261
	Value type: enumeration
	• Default value: "6"
	Permitted values:
	1: ERR_FATAL
	2: ERR_SERIOUS
	5: ERR_WARN
	6: ERR_INFO
errlog	The file to log event messages to.
	• From://products/zxtm/lb/settings.cpp:1234
	Value type: string
	 Default value: "%zeushome%/zxtm/log/errors"
fips!enabled	Enable FIPS Mode (requires software restart).
	• From://products/zxtm/lb/settings.cpp:1986
	Value type: Yes / No
	Default value: "No"
flipper!arp_count	The number of ARP packets a traffic manager should send when an IP address is raised.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:334
	Value type: unsigned integer
	• Default value: "10"
flipper!arp_whohas	Whether or not ARP packets sent out to announce an IP address should be sent with a "who-has" message. If set to No, your traffic manager will send out ARP packets with an "is-at" message. This use of an "is-at" message is non-standard, but was the default behaviour in earlier releases of vTM software.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:346
	Value type: Yes / No
	Default value: "Yes"
flipper!autofailback	Whether or not traffic IPs automatically move back to machines that have recovered from a failure and have dropped their traffic IPs.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:204
	Value type: Yes / No
	Default value: "Yes"

Key	Description
flipper!cache_arpfd	Whether or not the traffic manager should cache the ARP socket (for sending ARP packets faster).
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:364
	• Value type: Yes / No
	Default value: "Yes"
flipper!frontend_check_addrs	The IP addresses used to check front-end connectivity. The text %gateway% will be replaced with the default gateway on each system. Set this to an empty string if the traffic manager is on an Intranet with no external connectivity.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:325
	Value type: list
	Default value: "%gateway%"
flipper!heartbeat_method	The method traffic managers should use to exchange cluster heartbeat messages.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:255
	Value type: enumeration
	Default value: "unicast"
	Permitted values:
	multicast: multicast
	unicast: unicast
flipper!igmp_interval	The interval between unsolicited periodic IGMP Membership Report messages for Multi-Hosted Traffic IP Groups.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:398
	Value type: seconds
	Default value: "30"
flipper!max_tentative_failures	The number of times the software should try to re-raise tentative addresses before giving up and raising an error about the address.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:378
	Value type: unsigned integer
	Default value: "3"
flipper!monitor_interval	The frequency, in milliseconds, that each traffic manager machine should check and announce its connectivity.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:214
	Value type: unsigned integer
	Default value: "500"
flipper!monitor_timeout	How long, in seconds, each traffic manager should wait for a response from its connectivity tests or from other traffic manager machines before registering a failure.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:226
	• Value type: seconds
	Default value: "5"

Key	Description
flipper!multicast_address	The multicast address and port to use to exchange cluster heartbeat messages.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:280
	Requires: flipper!heartbeat_method is set to "multicast"
	Value type: string
	• Default value: "239.100.1.1:9090"
flipper!multicast_version	The multicast version to be use (1, 2 or 3) for cluster heartbeat messages. A value of 0 will let the operating system choose (but note that Linux often gets this wrong). This setting is only supported when using 2.6 versions of the Linux kernel.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:294
	Value type: int
	• Default value: "2"
flipper!parent_timeout	How long the traffic manager should wait for status updates from the traffic manager's parent process before assuming it has hung.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:238
	Value type: seconds
	Default value: "60"
flipper!routing_daemon_status_p oll_interval	Interval at which the parent process polls the routing daemon to update its status in AMP. A setting of 0 disables polling.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:406
	Value type: seconds
	Default value: "10"
flipper!routing_sw_run_ribd	Whether the ribd routing daemon is to be run. The routing software needs to be restarted for this change to take effect.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:439
	• Value type: Yes / No
	Default value: "No"
flipper!routing_sw_watchdog_in terval	The period of time in seconds after which a failure will no longer count towards the watchdog limit.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:430
	Value type: seconds
	• Default value: "300"

Key	Description
flipper!routing_sw_watchdog_li mit	The maximum number of times the routing software suite of processes will be started or restarted within the interval defined by the flipper!routing_sw_watchdog_interval setting. If the routing software fails this many times within the interval, it will be stopped and can only be restarted manually from the Diagnose page or by switching OSPF off and on again. Zero means no limit.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:420
	Value type: unsigned integer
	• Default value: "3"
flipper!tentative_timeout	How long the traffic manager should endure the OS's mis-management of IP addresses in the tentative state.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:371
	Value type: seconds
	• Default value: "5"
flipper!tipv6_raise_deprecated	Mark Traffic IPv6 addresses as "deprecated" to prevent their use during IPv6 source selection.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:386
	• Value type: Yes / No
	• Default value: "Yes"
flipper!unicast_port	The unicast UDP port to use to exchange cluster heartbeat messages.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:304
	 Requires: flipper!heartbeat_method is set to "unicast"
	Value type: unsigned integer
	• Default value: "9090"
flipper!use_bindip	Whether or not cluster heartbeat messages should only be sent and received over the management network.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:356
	• Value type: Yes / No
	• Default value: "No"
flipper!verbose	Whether or not a traffic manager should log all connectivity tests. This is very verbose, and should only be used for diagnostic purposes.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:246
	• Value type: Yes / No
	Default value: "No"
ftp_data_bind_low	Whether or not the traffic manager should permit use of FTP data connection source ports lower than 1024. If No the traffic manager can completely drop root privileges, if Yes some or all privileges may be retained in order to bind to low ports.
	• From://products/zxtm/lb/settings.cpp:958
	• Value type: Yes / No
	Default value: "No"

Key	Description
gslb!verbose	Write a message to the logs for every DNS query that is load balanced, showing the source IP address and the chosen datacenter.
	• From://products/zxtm/lb/settings.cpp:1359
	Value type: Yes / No
	Default value: "No"
http!max_chunk_header_length	The maximum length the header line of an HTTP chunk can have in an upload from the client. Header lines exceeding this length will be considered invalid. The traffic manager buffers the header line before it can read any payload data in the chunk; the limit exists to protect against malicious clients that send very long lines but never any payload data.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:581
	Value type: unsigned integer
	• Default value: "256"
http2_no_cipher_blacklist_check	Disable the cipher blacklist check in HTTP2 (mainly intended for testing purposes)
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1206
	• Value type: Yes / No
	Default value: "No"
http_copy_size	If a HTTP request is smaller than this size, then copy it to save memory. A typical GET request is about 370 bytes plus the URL length.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1192
	• Value type: bytes
	• Default value: "512"
http_max_vary_fields	Maximum number of fields that can be used to distinguish between two versions of a cacheable entity in a HTTP "Vary" header. Responses containing more than this number of fields are not cached.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1200
	Value type: unsigned integer
	• Default value: "8"
http_stream_early_response	Whether or not the traffic manager should continue to stream remaining data to an HTTP server when the server responds before all the client data has been sent.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1183
	• Value type: Yes / No
	• Default value: "Yes"

Key	Description
idle_connection_timeout	How long an unused HTTP keepalive connection should be kept before it is discarded.
	• From://products/zxtm/lb/settings.cpp:1174
	Value type: seconds
	• Default value: "10"
internal_config_logging	Whether or not messages pertaining to internal configuration files should be logged to the event log.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:602
	Value type: Yes / No
	Default value: "No"
ioregister_timeout	Timeout for unregistered I/O events, in milliseconds. If the connection doesn't complete within this time, then read events should be enabled, so that we can spot the client closing the connection.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:836
	Value type: unsigned integer
	• Default value: "1000"
ip_cache_size	The maximum number of entries in the IP session cache. This is used to provide session persistence based on the source IP address. Approximately 100 bytes will be pre-allocated per entry.
	• From://products/zxtm/lb/settings.cpp:1429
	Value type: unsigned integer
	• Default value: "32768"
ip_check_time	How often the local machine's IP addresses are checked for changes.
•	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:312
	Value type: seconds
	• Default value: "5"
j2ee_cache_size	The maximum number of entries in the J2EE session cache. This is used for storing session mappings for J2EE session persistence. Approximately 100 bytes will be pre-allocated per entry.
	• From://products/zxtm/lb/settings.cpp:1457
	Value type: unsigned integer
	• Default value: "32768"
java!classpath	CLASSPATH to use when starting the Java runner.
	• From://products/zxtm/lb/settings.cpp:2584
	Value type: string
	Default value: <none></none>

Key	Description
java!command	Java command to use when starting the Java runner, including any additional options.
	• From://products/zxtm/lb/settings.cpp:2593
	Value type: string
	Default value: "java -server"
java!enabled	Whether or not Java support should be enabled. If this is set to No, then your traffic manager will not start any Java processes. Java support is only required if you are using the TrafficScript java.run() function.
	• From://products/zxtm/lb/settings.cpp:2576
	Value type: Yes / No
	• Default value: "Yes"
java!lib	Java library directory for additional jar files. The Java runner will load classes from any .jar files stored in this directory, as well as the * jar files and classes stored in traffic manager's catalog.
	• From://products/zxtm/lb/settings.cpp:2626
	Value type: string
	 Default value: <none></none>
java!max_conns	Maximum number of simultaneous Java requests. If there are more than this many requests, then further requests will be queued until the earlier requests are completed. This setting is per-CPU, so if your traffic manager is running on a machine with 4 CPU cores, then each core can make this many requests at one time.
	• From://products/zxtm/lb/settings.cpp:2612
	Value type: unsigned integer
	• Default value: "256"
java!session_age	Default time to keep a Java session.
,	• From://products/zxtm/lb/settings.cpp:2601
	Value type: seconds
	• Default value: "86400"
kerberos!timeout	The period of time after which an outstanding Kerberos operation will be cancelled, generating an error for dependent operations.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/kerberos_settings_keys.cpp:36
	Value type: seconds
	• Default value: "20"
kerberos!verbose	Whether or not a traffic manager should log all Kerberos related activity. This is very verbose, and should only be used for diagnostic purposes.
	• From://products/zxtm/lb/kerberos_settings_keys.cpp:27
	Value type: Yes / No
	Default value: "No"

Key	Description
license_servers	A list of license servers for FLA licensing. A license server should be specified as a <ip host="">:<port> pair.</port></ip>
	• From://products/zxtm/lb/settings.cpp:566
	Value type: list
	• Default value: <none></none>
listen_queue_size	The listen queue size for managing incoming connections. It may be necessary to increase the System's listen queue size if this value is altered. If the value is set to 0 then the default system setting will be used.
	• From://products/zxtm/lb/settings.cpp:906
	Value type: unsigned integer
	• Default value: "0"
load_change_limit	The maximum change to load per second, when monitored by ZGLB TODO FIX ME. This limit does not apply to external setting of the load by a SOAP agent.
	• From://products/zxtm/lb/settings.cpp:1393
	Value type: unsigned integer
	• Default value: "800"
load_dampening	Load dampening factor. Every second, your traffic manager decreases the calculated "load" of all back-end nodes. For example, a value of 80 would mean that a node will have its load reduced to 80% of what it was a second ago.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:272
	Value type: unsigned integer
	• Default value: "80"
load_minimum	Minimum load value. Monitors that report a load lower than this value (in milliseconds) will be considered equally fast.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1401
	Value type: unsigned integer
	Default value: "50"
locations_enabled	Is MSM enabled.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:2801
	Value type: Yes / No
	Default value: "No"
log!flushtime	How long to wait before flushing the request log files for each virtual server.
	• From://products/zxtm/lb/settings.cpp:1216
	Value type: seconds
	• Default value: "5"

Key	Description
log!rate	The maximum number of connection errors logged per second when connection error reporting is enabled.
	• From://products/zxtm/lb/settings.cpp:1242
	Value type: unsigned integer
	• Default value: "50"
log!reopen	How long to wait before re-opening request log files, this ensures that log files will be recreated in the case of log rotation.
	• From://products/zxtm/lb/settings.cpp:1226
	Value type: seconds
	• Default value: "30"
log!repeattime	How long to prevent an object from repeating its previous log line.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1281
	Value type: seconds
	• Default value: "5"
log!time	The minimum time between log messages for log intensive features such as SLM.
	• From://products/zxtm/lb/settings.cpp:1271
	Value type: seconds
	• Default value: "60"
login_banner	Banner text displayed on the Admin Server login page and before logging in to appliance SSH servers.
	• From://products/zxtm/lb/settings.cpp:618
	Value type: string
	• Default value: <none></none>
login_delay	The number of seconds before another login attempt can be made after a failed attempt.
	• From://products/zxtm/lb/settings.cpp:669
	Value type: seconds
	• Default value: "4"
max_idle_connections	The maximum number of unused HTTP keepalive connections with back-end nodes that the traffic manager should maintain for re-use. Setting this to 0 (zero) will cause the traffic manager to auto-size this parameter based on the available number of file-descriptors.
	• From://products/zxtm/lb/settings.cpp:1164
	Value type: unsigned integer
	• Default value: "0"
max_login_attempts	The number of sequential failed login attempts that will cause a user account to be suspended. Setting this to 0 disables this feature. To apply this to users who have never successfully logged in, track_unknown_users must also be enabled.
	• From://products/zxtm/lb/settings.cpp:687
	Value type: unsigned integer
	Default value: "0"

Key	Description
max_login_external	Whether or not usernames blocked due to the max_login_attempts limit should also be blocked from authentication against external services (such as LDAP and RADIUS).
	• From://products/zxtm/lb/settings.cpp:701
	Value type: Yes / No
	Default value: "No"
max_login_suspension_time	The number of minutes to suspend users who have exceeded the max_login_attempts limit.
	• From://products/zxtm/lb/settings.cpp:714
	Value type: unsigned integer
	Default value: "15"
maxfds	The maximum number of file descriptors that your traffic manager will allocate.
	• From://products/zxtm/lb/settings.cpp:916
	Value type: unsigned integer
	• Default value: "1048576"
min_alpha_chars	Minimum number of alphabetic characters a password must contain. Set to 0 to disable this restriction.
	• From://products/zxtm/lb/settings.cpp:2654
	Value type: unsigned integer
	Default value: "0"
min_numeric_chars	Minimum number of numeric characters a password must contain. Set to 0 to disable this restriction.
	• From://products/zxtm/lb/settings.cpp:2678
	Value type: unsigned integer
	• Default value: "0"
min_password_length	Minimum number of characters a password must contain. Set to 0 to disable this restriction.
	• From://products/zxtm/lb/settings.cpp:2643
	Value type: unsigned integer
	Default value: "0"
min_special_chars	Minimum number of special (non-alphanumeric) characters a password must contain. Set to 0 to disable this restriction.
	• From://products/zxtm/lb/settings.cpp:2690
	Value type: unsigned integer
	Default value: "0"
min_uppercase_chars	Minimum number of uppercase characters a password must contain. Set to 0 to disable this restriction.
	• From://products/zxtm/lb/settings.cpp:2666
	Value type: unsigned integer
	Default value: "0"

Key	Description
monitor_memory_size	The maximum number of nodes that can be monitored. This is used to size the shared memory, that keeps track of the state.
	• From://products/zxtm/lb/settings.cpp:1378
	Value type: unsigned integer
	• Default value: "4096"
monitor_scripts_per_second	The maximum number of scripts to run per second. Setting this to 0 disables the limit.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/monitor/settings.cpp:75
	Value type: unsigned integer
	Default value: "0"
notify!mail_interval	The minimum length of time that must elapse between alert emails being sent. Where multiple alerts occur inside this timeframe, they will be retained and sent within a single email rather than separately.
	• From://products/zxtm/lb/settings.cpp:352
	Value type: seconds
	• Default value: "30"
notify!max_attempts	The number of times to attempt to send an alert email before giving up.
J – 1	• From://products/zxtm/lb/settings.cpp:363
	Value type: unsigned integer
	Default value: "10"
object_pool_size	The size of the internal object cache. This cache helps to speed up tcp handling.
, -1 -	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1481
	Value type: unsigned integer
	Default value: "100"
ospfv2!area	The OSPF area in which the traffic manager will operate. May be entered in decimal or IPv4 address format.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:163
	Value type: string
	Default value: "0.0.0.1"
ospfv2!area_type	The type of OSPF area in which the traffic manager will operate. This must be the same for all routers in the area, as required by OSPF.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:175
	Value type: enumeration
	Default value: "normal"
	Permitted values:
	normal: Normal area
	stub: Stub area
	nssa: Not So Stubby Area (RFC3101)

Key	Description
ospfv2!authentication_key_id_a	OSPFv2 authentication key ID. If set to 0, which is the default value, the key is disabled.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:110
	Value type: unsigned integer
	• Default value: "0"
ospfv2!authentication_key_id_b	OSPFv2 authentication key ID. If set to 0, which is the default value, the key is disabled.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:129
	Value type: unsigned integer
	Default value: "0"
ospfv2!authentication_shared_se cret_a	OSPFv2 authentication shared secret (MD5). If set to blank, which is the default value, the key is disabled.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:121
	Value type: string
	• Default value: <none></none>
ospfv2!authentication_shared_se cret_b	OSPFv2 authentication shared secret (MD5). If set to blank, which is the default value, the key is disabled.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:140
	Value type: string
	• Default value: <none></none>
ospfv2!enabled	Whether OSPFv2 Route Health Injection is enabled
	• From://products/zxtm/lb/flipper_settings_keys.cpp:102
	• Value type: Yes / No
	Default value: "No"
ospfv2!hello_interval	The interval at which OSPF "hello" packets are sent to the network.
	• From://products/zxtm/lb/flipper_settings_keys.cpp:147
	Value type: seconds
	• Default value: "10"
ospfv2!router_dead_interval	The number of seconds before declaring a silent router down.
_	• From://products/zxtm/lb/flipper_settings_keys.cpp:154
	Value type: seconds
	• Default value: "40"
parent_timeout	Timeout for connections to the AMP port.
-	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:820
	Value type: seconds
	Default value: "60"

Key	Description
password_changes_per_day	The maximum number of times a password can be changed in a 24-hour period. Set to 0 to disable this restriction.
	• From://products/zxtm/lb/settings.cpp:2712
	Value type: unsigned integer
	• Default value: "0"
password_reuse_after	The number of times a password must have been changed before it can be reused. Set to 0 to disable this restriction.
	• From://products/zxtm/lb/settings.cpp:2726
	Value type: unsigned integer
	• Default value: "0"
periodic_log!enabled	Enable periodic logging
1 – 0	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:3084
	• Value type: Yes / No
	Default value: "Yes"
periodic_log!interval	Time interval in seconds for periodic logging
Periodic_108/miles var	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:3092
	Value type: unsigned integer
	• Default value: "600"
periodic_log!max_archive_set_si ze	Maximum size (in MBytes) for the archive periodic logs. When combined size of the archives exceeds this value, the oldest archives will be deleted. Set to 0 to disable archive size limit
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:3128
	Value type: unsigned integer
	• Default value: "50"
periodic_log!max_log_set_size	Maximum size (in MBytes) for the current set of periodic logs. If this size is exceeded, the current set will be archived. Set to zero to disable archiving based on current set size.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:3109
	Value type: unsigned integer
	• Default value: "25"
periodic_log!max_num_archives	Maximum number of archived log sets to keep. When the number of archived periodic log sets exceeds this, the oldest archives will be deleted.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:3118
	Value type: unsigned integer
	• Default value: "14"

Key	Description
periodic_log!run_count	Number of periodic logs which should be archived together as a run.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:3100
	Value type: unsigned integer
	• Default value: "144"
post_login_banner	Banner text to be displayed on the appliance console after login.
	• From://products/zxtm/lb/settings.cpp:644
	Value type: string
	• Default value: <none></none>
protection!conncount_size	The amount of shared memory reserved for an inter-process table of combined connection counts, used by all Service Protection classes that have per_process_connection_count set to No. The amount is specified as an absolute size, eg 20MB.
	• From://products/zxtm/lb/settings.cpp:551
	Value type: string
	• Default value: "20MB"
rate!warn_period	For the global TPS limits (normal and SSL), and global BW limits, how frequently to repeat warnings about hitting limits.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1148
	Value type: seconds
	• Default value: "3600"
rate!warn_time	For the global TPS limits (normal and SSL), how many seconds they must queue connections before we print a warning about the rate being hit. Set to 0 to disable any warning messages.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1140
	Value type: seconds
	• Default value: "5"
rate_class_limit	The maximum number of Rate classes that can be created. Approximately 100 bytes will be pre-allocated per Rate class.
	• From://products/zxtm/lb/settings.cpp:377
	Value type: unsigned integer
	• Default value: "25000"
recent_conns	How many recently closed connections each traffic manager process should save. These saved connections will be shown alongside currently active connections when viewing the Connections page. You should set this value to 0 in a benchmarking or performance-critical environment.
	• From://products/zxtm/lb/settings.cpp:1325
	Value type: unsigned integer
	• Default value: "500"

Key	Description
recent_conns_retain_time	The amount of time for which snapshots will be retained on the Connections page.
	• From://products/zxtm/lb/settings.cpp:1335
	Value type: seconds
	• Default value: "60"
recent_conns_snapshot_size	The maximum number of connections each traffic manager process should show when viewing a snapshot on the Connections page. This value includes both currently active connections and saved connections. If set to 0 all active and saved connection will be displayed on the Connections page.
	• From://products/zxtm/lb/settings.cpp:1350
	Value type: unsigned integer
	• Default value: "500"
replicate_timeout	Configuration replication (between traffic managers) timeout.
1 –	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:827
	Value type: seconds
	Default value: "10"
rest!auth_timeout	The length of time after a successful request that the authentication of a given username and password will be cached for an IP address. A setting of 0 disables the cache forcing every REST request to be authenticated which will adversely affect performance.
	• From://products/zxtm/lb/settings.cpp:146
	Value type: seconds
	Default value: "120"
rest!enabled	Whether or not the REST service is enabled.
	• From://products/zxtm/lb/settings.cpp:132
	• Value type: Yes / No
	Default value: "No"
rest!max_http_header_len	The maximum allowed length in bytes of a HTTP request's headers.
_	• From://products/zxtm/lb/settings.cpp:206
	Value type: unsigned integer
	Default value: "4096"
rest!proxy_map!*	The path to the symlinked resource. Intermediate resources will be created. All new resources will be hidden.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:217
	Value type: string
	• Default value: <none></none>
rest!repabstime	Configuration changes will be replicated across the cluster after this period of time, regardless of whether additional API requests are being made.
	• From://products/zxtm/lb/settings.cpp:170
	Value type: seconds
	Default value: "20"

Key	Description
rest!replulltime	Configuration changes made via the REST API will be propagated across the cluster when no further API requests have been made for this period of time.
	• From://products/zxtm/lb/settings.cpp:158
	Value type: seconds
	• Default value: "5"
rest!reptimeout	The period of time after which configuration replication across the cluster will be cancelled if it has not completed.
	• From://products/zxtm/lb/settings.cpp:181
	Value type: seconds
	• Default value: "10"
shared_pool_size	The size of the shared memory pool used for shared storage across worker processes (e.g. bandwidth shared data). This is specified as either a percentage of system RAM, 5% for example, or an absolute size such as 10MB.
	• From://products/zxtm/lb/settings.cpp:1066
	Value type: string
	• Default value: "10MB"
slm_class_limit	The maximum number of SLM classes that can be created. Approximately 100 bytes will be pre-allocated per SLM class.
	• From://products/zxtm/lb/settings.cpp:370
	Value type: unsigned integer
	• Default value: "1024"
snmp_user_counters	The number of user defined SNMP counters. Approximately 100 bytes will be pre-allocated at start-up per user defined SNMP counter.
	• From://products/zxtm/lb/settings.cpp:327
	Value type: unsigned integer
	• Default value: "10"
so_rbuff_size	The size of the operating system's read buffer. A value of 0 (zero) means to use the OS default; in normal circumstances this is what should be used.
	• From://products/zxtm/lb/settings.cpp:926
	Value type: bytes
	• Default value: "0"
so_wbuff_size	The size of the operating system's write buffer. A value of 0 (zero) means to use the OS default; in normal circumstances this is what should be used.
	• From://products/zxtm/lb/settings.cpp:936
	Value type: bytes
	• Default value: "0"
soap!idle_minutes	The number of minutes that the SOAP server should remain idle before exiting. The SOAP server has a short startup delay the first time a SOAP request is made, subsequent SOAP requests don't have this delay.
	• From://products/zxtm/lb/settings.cpp:340
	Value type: unsigned integer
	• Default value: "10"

Key	Description
socket_opt	Whether or not the traffic manager should use potential network socket optimisations. If set to auto, a decision will be made based on the host platform
	• From://products/zxtm/lb/settings.cpp:878
	Value type: enumeration
	Default value: "auto"
	Permitted values:
	auto: auto
	Yes: Yes
	No: No
ssl!cache!expiry	How long the SSL session IDs for SSL decryption should be stored for.
• •	• From://products/zxtm/lb/settings.cpp:2221
	Value type: seconds
	• Default value: "1800"
ssl!cache!per_virtualserver	Whether an SSL session created by a given virtual server can only be resumed by a connection to the same virtual server.
	• From://products/zxtm/lb/settings.cpp:2232
	• Value type: Yes / No
	Default value: "Yes"
ssl!cache!size	How many entries the SSL session ID cache should hold. This cache is used to cache SSL sessions to help speed up SSL handshakes when performing SSL decryption. To turn off SSL session resumption, set this key to the value 0. Each entry will allocate approximately 1.5kB of metadata.
	• From://products/zxtm/lb/settings.cpp:2210
	Value type: unsigned integer
	Default value: "6151"
ssl!crl_mem!size	How much shared memory to allocate for loading Certificate Revocation Lists. This should be at least 3 times the total size of all CRLs on disk. This is specified as either a percentage of system RAM, 1% for example, or an absolute size such as 10MB.
	• From://products/zxtm/lb/settings.cpp:2348
	Value type: string
	Default value: "5MB"
ssl!disable_stitched_cbc_hmac	Enable or disable use of "stitched" CBC/HMAC mode ciphers
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:2143
	Value type: Yes / No
	Default value: "No"
ssl!elliptic_curves	The SSL elliptic curve preference list for SSL connections using TLS version 1.0 or higher, unless overridden by virtual server or pool settings. For information on supported curves see the online help.
	• From://products/zxtm/lb/settings.cpp:2079
	Value type: string
	Default value: <none></none>

Key	Description
ssl!honor_fallback_scsv	Whether or not ssl-decrypting Virtual Servers honor the Fallback SCSV to protect connections against downgrade attacks.
	• From://products/zxtm/lb/settings.cpp:2105
	Value type: Yes / No
	Default value: "Yes"
ssl!insert_extra_fragment	Whether or not SSL3 and TLS1 use one-byte fragments as a BEAST countermeasure.
	• From://products/zxtm/lb/settings.cpp:2111
	Value type: Yes / No
	Default value: "No"
ssl!max_handshake_message_siz e	The maximum size (in bytes) of SSL handshake messages that SSL connections will accept. To accept any size of handshake message the key should be set to the value 0.
	• From://products/zxtm/lb/settings.cpp:2195
	Value type: bytes
	• Default value: "10240"
ssl!obscure_alert_descriptions	Whether SSL/TLS alert descriptions should be obscured (where reasonable) when sent to a remote peer. Alert descriptions are useful for diagnosing SSL/TLS connection issues when connecting to a remote peer. However those diagnostics may provide information that an attacker could use to compromise the system (as a concrete example, see Moeller, B., "Security of CBC Ciphersuites in SSL/TLS: Problems and Countermeasures"). If not enabled, alert descriptions that are known to facilitate compromise will still be obscured Otherwise, if enabled, alert descriptions that can be safely mapped to a more general one, will be.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:2161
	• Value type: Yes / No
	Default value: "Yes"
ssl!ocsp_cache!size	The maximum number of cached client certificate OCSP results stored. This cache is used to speed up OCSP checks against client certificates by caching results. Approximately 1040 bytes are pre-allocated per entry.
	• From://products/zxtm/lb/settings.cpp:2245
	Value type: unsigned integer
	Default value: "2048"
ssl!ocsp_stapling!default_refresh _interval	How long to wait before refreshing requests on behalf of the store of certificate status responses used by OCSP stapling, if we don't have an up-to-date OCSP response.
	• From://products/zxtm/lb/settings.cpp:2282
	Value type: seconds
	Default value: "60"
ssl!ocsp_stapling!maximum_refr esh_interval	Maximum time to wait before refreshing requests on behalf of the store of certificate status responses used by OCSP stapling. (0 means no maximum.)
	• From://products/zxtm/lb/settings.cpp:2295
	Value type: seconds
	• Default value: "864000"

Key	Description
ssl!ocsp_stapling!mem_size	How much shared memory to allocate for the store of certificate status responses for OCSP stapling. This should be at least 2kB times the number of certificates configured to use OCSP stapling. This is specified as either a percentage of system RAM, 1% for example, or an absolute size such as 10MB.
	• From://products/zxtm/lb/settings.cpp:2330
	Value type: string
	• Default value: "1MB"
ssl!ocsp_stapling!minimum_refre sh_interval	The minimum number of seconds to wait between OCSP requests for the same certificate.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:2303
	Value type: seconds
	• Default value: "10"
ssl!ocsp_stapling!prefetch	The number of seconds before an OCSP response is stale to make a new OCSP request.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:2311
	Value type: seconds
	Default value: "30"
ssl!ocsp_stapling!time_tolerance	How many seconds to allow the current time to be outside the validity time of an OCSP response before considering it invalid.
	• From://products/zxtm/lb/settings.cpp:2270
	Value type: seconds
	• Default value: "30"
ssl!ocsp_stapling!verify_response	Whether the OCSP response signature should be verified before the OCSP response is cached.
	• From://products/zxtm/lb/settings.cpp:2261
	Value type: Yes / No
	Default value: "No"
ssl!prevent_timing_side_channel	Take performance degrading steps to prevent exposing timing side-channels with SSL3 and TLS.
	• From://products/zxtm/lb/settings.cpp:2137
	Value type: Yes / No
	Default value: "No"
ssl!signature_algorithms	The SSL signature algorithms preference list for SSL connections using TLS version 1.2 or higher, unless overridden by virtual server or pool settings. For information on supported algorithms see the online help.
	• From://products/zxtm/lb/settings.cpp:2060
	Value type: string
	Default value: <none></none>

Key	Description
ssl!ssl3_allow_rehandshake	Whether or not SSL3/TLS re-handshakes should be supported. Enabling support for re-handshakes can expose services to Man-in-the-Middle attacks. It is recommended that only "safe" handshakes be permitted, or none at all.
	• From://products/zxtm/lb/settings.cpp:2095
	Value type: enumeration
	Default value: "safe"
	Permitted values:
	always: Always allow
	safe: Allow safe re-handshakes
	rfc5746: Only if client uses RFC 5746 (Secure Renegotiation Extension)
	never: Never allow
ssl!ssl3_ciphers	The SSL ciphers to use. For information on supported ciphers see the online help.
	• From://products/zxtm/lb/settings.cpp:2040
	Value type: string
	• Default value: <none></none>
ssl!ssl3_diffie_hellman_client_mi n_key_length	The minimum length in bits of the Diffie-Hellman key that the Traffic Manager will accept when connecting using Diffie-Hellman key agreement as a client.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:2182
	Value type: unsigned integer
	• Default value: "1024"
ssl!ssl3_diffie_hellman_key_lengt	The length in bits of the Diffie-Hellman key for ciphers that use Diffie-Hellman key agreement.
	• From://products/zxtm/lb/settings.cpp:2173
	Value type: enumeration
	• Default value: "2048"
	Permitted values:
	1024: 1024
	2048: 2048
	3072: 3072
	4096: 4096
ssl!ssl3_min_rehandshake_interv al	If SSL3/TLS re-handshakes are supported, this defines the minimum time interval (in milliseconds) between handshakes on a single SSL3/TLS connection that is permitted. To disable the minimum interval for handshakes the key should be set to the value 0.
	• From://products/zxtm/lb/settings.cpp:2127
	Value type: unsigned integer

Key	Description
ssl!support_ssl2	Whether or not SSL2 support is enabled.
	• From://products/zxtm/lb/settings.cpp:1997
	• Requires: fips!enabled is set to "Yes"
	Value type: Yes / No
	Default value: "No"
ssl!support_ssl3	Whether or not SSL3 support is enabled.
	• From://products/zxtm/lb/settings.cpp:2006
	Requires: fips!enabled is set to "Yes"
	• Value type: Yes / No
	Default value: "No"
ssl!support_tls1	Whether or not TLS1.0 support is enabled.
	• From://products/zxtm/lb/settings.cpp:2011
	• Value type: Yes / No
	• Default value: "Yes"
ssl!support_tls1.1	Whether or not TLS1.1 support is enabled.
	• From://products/zxtm/lb/settings.cpp:2017
	• Value type: Yes / No
	• Default value: "Yes"
ssl!support_tls1.2	Whether or not TLS1.2 support is enabled.
	• From://products/zxtm/lb/settings.cpp:2022
	Value type: Yes / No
	• Default value: "Yes"
ssl_cache_size	The maximum number of entries in the SSL session persistence cache. This is used to provide session persistence based on the SSL session ID. Approximately 200 bytes will be pre-allocated per entry.
	• From://products/zxtm/lb/settings.cpp:1417
	Value type: unsigned integer
	• Default value: "32768"
ssld!accel	Whether or not the SSL hardware is an "accelerator" (faster than software). By default the traffic manager will only use the SSL hardware if a key requires it (i.e. the key is stored on secure hardware and the traffic manager only has a placeholder/identifier key). With this option enabled, your traffic manager will instead try to use hardware for all SSL decrypts.
	• From://products/zxtm/lb/settings.cpp:1708
	• Value type: Yes / No
	Default value: "No"
ssld!azure!api_version	The version of the Azure Key Vault REST API.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/settings.cpp:1886
	Value type: string
	• Default value: "2015-06-01"

Key	Description	
ssld!azure!client_id	The client identifier used when accessing the Microsoft Azure Key Vault.	
	• From://products/zxtm/lb/settings.cpp:1857	
	Value type: string	
	• Default value: <none></none>	
ssld!azure!client_secret	The client secret used when accessing the Microsoft Azure Key Vault.	
	• From://products/zxtm/lb/settings.cpp:1867	
	Value type: password	
	• Default value: <none></none>	
ssld!azure!connect_timeout	Timeout for establishing a connection to the Azure Key Vault REST API. Using a value of 0 will use libcurl's built-in timeout.	
	DO NOT SET OR MODIFY THIS KEY MANUALLY.	
	• From://products/zxtm/lb/settings.cpp:1897	
	Value type: unsigned integer	
	Default value: "10"	
ssld!azure!idle_timeout	Idle timeout for a connection to the Azure Key Vault REST API. Using a value of 0 will deactivate the timeout.	
	DO NOT SET OR MODIFY THIS KEY MANUALLY.	
	• From://products/zxtm/lb/settings.cpp:1908	
	Value type: unsigned integer	
	Default value: "30"	
ssld!azure!vault_url	The URL for the REST API of the Microsoft Azure Key Vault.	
	• From://products/zxtm/lb/settings.cpp:1848	
	Value type: string	
	• Default value: <none></none>	
ssld!azure!verify_rest_api_cert	Whether or not the Azure Key Vault REST API certificate should be verified.	
	• From://products/zxtm/lb/settings.cpp:1876	
	• Value type: Yes / No	
	Default value: "Yes"	
ssld!backoff	The delay before attempting to restart SSL hardware support if it has failed to start. Two log lines will be generated for each retry.	
	DO NOT SET OR MODIFY THIS KEY MANUALLY.	
	• From://products/zxtm/lb/settings.cpp:1780	
	Value type: seconds	
	Default value: "60"	
ssld!driver!*	A special key namespace for additional SSL configuration data.	
	DO NOT SET OR MODIFY THIS KEY MANUALLY.	
	• From://products/zxtm/lb/settings.cpp:1919	
	Value type: string	
	• Default value: <none></none>	

Key	Description	
ssld!driver!pkcs11_debug	Print verbose information about the PKCS11 hardware security module to the event log.	
	• From://products/zxtm/lb/settings.cpp:1839	
	• Value type: Yes / No	
	Default value: "No"	
ssld!driver!pkcs11_lib	The location of the PKCS#11 library for your SSL hardware if it is not in a standard location. The traffic manager will search the standard locations by default.	
	• From://products/zxtm/lb/settings.cpp:1794	
	Value type: string	
	• Default value: <none></none>	
ssld!driver!pkcs11_slot_desc	The label of the SSL Hardware slot to use. Only required if you have multiple HW accelerator slots.	
	• From://products/zxtm/lb/settings.cpp:1830	
	Value type: string	
	• Default value: <none></none>	
ssld!driver!pkcs11_slot_type	The type of SSL hardware slot to use.	
1 71	• From://products/zxtm/lb/settings.cpp:1818	
	Value type: enumeration	
	Default value: "operator"	
	Permitted values:	
	operator: Operator Card Set	
	softcard: Soft Card	
	module: Module Protected	
ssld!driver!pkcs11_user_pin	The User PIN for the PKCS token (PKCS#11 devices only).	
	• From://products/zxtm/lb/settings.cpp:1806	
	Value type: password	
	Default value: <none></none>	
ssld!failure_count	The number of consecutive failures from the SSL hardware that will be tolerated before the traffic manager assumes its session with the device is invalid and tries to log in again. This is necessary when the device reboots following a power failure.	
	• From://products/zxtm/lb/settings.cpp:1757	
	Value type: unsigned integer	
	Default value: "5"	
ssld!libdir	Additional library search paths required by the device library.	
	DO NOT SET OR MODIFY THIS KEY MANUALLY.	
	• From://products/zxtm/lb/settings.cpp:1720	
	Value type: string	
	Default value: <none></none>	

Key	Description	
ssld!library	The type of SSL hardware to use. The drivers for the SSL hardware should be installed and accessible to the traffic manager software.	
	• From://products/zxtm/lb/settings.cpp:1694	
	Value type: enumeration	
	Default value: "none"	
	Permitted values:	
	none: None	
	pkcs11: PKCS#11 (e.g. nCipher NetHSM)	
	azure: Microsoft Azure Key Vault	
ssld!nworkers	The maximum number of concurrent requests the traffic manager will offload to the accelerator device.	
	DO NOT SET OR MODIFY THIS KEY MANUALLY.	
	• From://products/zxtm/lb/settings.cpp:1731	
	Value type: unsigned integer	
	• Default value: "128"	
ssld!queuelen	The maximum number of requests that will be queued to the accelerator device.	
	DO NOT SET OR MODIFY THIS KEY MANUALLY.	
	• From://products/zxtm/lb/settings.cpp:1742	
	Value type: unsigned integer	
	Default value: "512"	
ssld!timeout	The length of time to wait for SSL hardware support to start before stopping it and retrying. This depends on the behaviour of your vendor-supplied library when the hardware is unavailable. A value of 0 means wait forever.	
	DO NOT SET OR MODIFY THIS KEY MANUALLY.	
	• From://products/zxtm/lb/settings.cpp:1770	
	Value type: seconds	
	• Default value: "20"	
statd!days	Number of days to store historical traffic information, if set to 0 the data will be kept indefinitely.	
	• From://products/zxtm/lb/settings.cpp:284	
	Value type: unsigned integer	
	• Default value: "90"	
statd!rsync_enabled	Enable or disable syncing of logs in the cluster.	
•	DO NOT SET OR MODIFY THIS KEY MANUALLY.	
	• From://products/zxtm/lb/settings.cpp:290	
	Value type: Yes / No	
	Default value: "Yes"	

Key	Description	
statd!write_interval	The interval between writes of the statd logs and syncs in the cluster.	
	DO NOT SET OR MODIFY THIS KEY MANUALLY.	
	• From://products/zxtm/lb/settings.cpp:296	
	Value type: unsigned integer	
	• Default value: "300"	
state_sync_time	How often to propagate the session persistence and bandwidth information to other traffic managers in the same cluster. Set this to 0 (zero) to disable propagation.	
	Note that a cluster using "unicast" heartbeat messages cannot turn off these messages.	
	• From://products/zxtm/lb/settings.cpp:2550	
	Value type: seconds	
	• Default value: "3"	
state_sync_timeout	The maximum amount of time to wait when propagating session persistence and bandwidth information to other traffic managers in the same cluster. Once this timeout is hit the transfer is aborted and a new connection created.	
	• From://products/zxtm/lb/settings.cpp:2562	
	Value type: seconds	
	• Default value: "6"	
tip_class_limit	The maximum number of Traffic IP Groups that can be created.	
	• From://products/zxtm/lb/settings.cpp:384	
	Value type: unsigned integer	
	• Default value: "10000"	
track_unknown_users	Whether to remember past login attempts from usernames that are not known to exist (should be set to No for an Admin Server accessible from the public Internet). This does not affect the audit log.	
	• From://products/zxtm/lb/settings.cpp:728	
	Value type: Yes / No	
	Default value: "No"	
trafficscript!array_elements	The amount of storage that will be allocated to array elements in TrafficScript. If more elements are required then the necessary memory will be allocated during the execution of the rule.	
	• From://products/zxtm/lb/settings.cpp:464	
	Value type: unsigned integer	
	• Default value: "100000"	
trafficscript!data_local_size	The maximum amount of memory available to store TrafficScript data.local.set() information. This can be specified as a percentage of system RAM, 5% for example; or an absolute size such as 200MB.	
	• From://products/zxtm/lb/settings.cpp:533	
	Value type: string	
	• Default value: "5%"	

Key	Description	
trafficscript!data_size	The maximum amount of memory available to store TrafficScript data.set() information. This can be specified as a percentage of system RAM, 5% for example; or an absolute size such as 200MB.	
	• From://products/zxtm/lb/settings.cpp:516	
	Value type: string	
	• Default value: "5%"	
trafficscript!execution_time_war ning	Raise an event if a TrafficScript rule runs for more than this number of milliseconds in a single invocation. If you get such events repeatedly, you may want to consider re-working some of your TrafficScript rules. A value of 0 means no warnings will be issued.	
	• From://products/zxtm/lb/settings.cpp:418	
	Value type: unsigned integer	
	Default value: "500"	
trafficscript!max_instr	The maximum number of instructions a TrafficScript rule will run. A rule will be aborted if it runs more than this number of instructions without yielding, preventing infinite loops.	
	• From://products/zxtm/lb/settings.cpp:452	
	Value type: unsigned integer	
	• Default value: "100000"	
trafficscript!memory_warning	Raise an event if a TrafficScript rule requires more than this amount of buffered network data. If you get such events repeatedly, you may want to consider reworking some of your TrafficScript rules to use less memory or to stream the data that they process rather than storing it all in memory. This setting also limits the amount of data that can be returned by request.GetLine().	
	• From://products/zxtm/lb/settings.cpp:402	
	Value type: bytes	
	• Default value: "1048576"	
trafficscript!regex_cache_size	The maximum number of regular expressions to cache in TrafficScript. Regular expressions will be compiled in order to speed up their use in the future.	
	• From://products/zxtm/lb/settings.cpp:474	
	Value type: unsigned integer	
	• Default value: "57"	
trafficscript!regex_match_limit	The maximum number of ways TrafficScript will attempt to match a regular expression at each position in the subject string, before it aborts the rule and reports a TrafficScript error.	
	• From://products/zxtm/lb/settings.cpp:488	
	Value type: unsigned integer	
	• Default value: "10000000"	
trafficscript!regex_match_warn_ perc	The percentage of trafficscript!regex_match_limit at which TrafficScript reports a performance warning.	
	• From://products/zxtm/lb/settings.cpp:498	
	Value type: unsigned integer	
	71 0 0	

Key	Description	
trafficscript!variable_pool_use	Allow the pool.use and pool.select TrafficScript functions to accept variables instead of requiring literal strings.	
	Enabling this feature has the following effects:	
	 Your traffic manager may no longer be able to know whether a pool is in use. 	
	 Errors for pools that aren't in use will not be hidden. 	
	 Some settings displayed for a Pool may not be appropriate for the type of traffic being managed. 	
	 Pool usage information on the pool edit pages and config summary may not be accurate. 	
	 Monitors will run for all pools (with this option disabled monitors will only run for Pools that are used). 	
	• From://products/zxtm/lb/settings.cpp:439	
	Value type: Yes / No	
	Default value: "No"	
uipage_banner	Banner text to be displayed on all Admin Server pages.	
	• From://products/zxtm/lb/settings.cpp:656	
	Value type: string	
	• Default value: <none></none>	
universal_cache_size	The maximum number of entries in the global universal session cache. This is used for storing session mappings for universal session persistence. Approximately 100 bytes will be pre-allocated per entry.	
	• From://products/zxtm/lb/settings.cpp:1443	
	Value type: unsigned integer	
	• Default value: "32768"	
usagetracking!enabled	Whether or not to report usage information (Usage Tracking).	
	DO NOT SET OR MODIFY THIS KEY MANUALLY.	
	• From://products/zxtm/lb/settings.cpp:587	
	Value type: Yes / No	
	Default value: "Yes"	
webcache!avg_path_length	The estimated average length of the path (including query string) for resources being cached. An amount of memory equal to this figure multiplied by max_file_num will be allocated for storing the paths for cache entries. This setting can be increased if your web site makes extensive use of long URLs.	
	• From://products/zxtm/lb/settings.cpp:1591	
	Value type: unsigned integer	
	Default value: "512"	

Key	Description	
webcache!blocksize	The size of the blocks of shared memory that are allocated for the content cache. Every entry in the content cache will use at least this amount of memory You can specify the number of bytes, kB, or MB. Unless you know that you are serving almost exclusively very small or very large files, there is no reason to change this value.	
	DO NOT SET OR MODIFY THIS KEY MANUALLY.	
	• From://products/zxtm/lb/settings.cpp:1515	
	Value type: string	
	Default value: "0"	
webcache!disk	Whether or not to use a disk-backed (typically SSD) cache. If set to Yes cached web pages will be stored in a file on disk. This enables the traffic manager to use a cache that is larger than available RAM. The webcache!size setting should also be adjusted to select a suitable maximum size based on your disk space.	
	Note that the disk caching is optimized for use with SSD storage.	
	• From://products/zxtm/lb/settings.cpp:1607	
	• Value type: Yes / No	
	Default value: "No"	
webcache!disk_dir	If disk caching is enabled, this sets the directory where the disk cache file will be stored. The traffic manager will create a file called webcache.data in this location.	
	Note that the disk caching is optimized for use with SSD storage.	
	• From://products/zxtm/lb/settings.cpp:1622	
	Value type: string	
	• Default value: "%zeushome%/zxtm/internal"	
webcache!max_byte_range_segments	Maximum number of range segments allowed in a range request. Requests containing more segments than this will get a 416 "Requested Range Not Satisfiable" response, even if the page actually contains the requested ranges. This setting is useful to protect against byte-range-related DoS attacks.	
	DO NOT SET OR MODIFY THIS KEY MANUALLY.	
	• From://products/zxtm/lb/settings.cpp:1634	
	Value type: int	
	Default value: "500"	
webcache!max_file_num	Maximum number of entries in the cache. Approximately 0.9 KB will be pre- allocated per entry for metadata, this is in addition to the memory reserved for the content cache and for storing the paths of the cached resources.	
	• From://products/zxtm/lb/settings.cpp:1566	
	Value type: unsigned integer	
	Default value: "10000"	
webcache!max_file_size	Largest size of a cacheable object in the cache. This is specified as either a percentage of the total cache size, 2% for example, or an absolute size such as 20MB.	
	• From://products/zxtm/lb/settings.cpp:1535	
	Value type: string	
	• Default value: "2%"	

Key	Description	
webcache!max_handles	Maximum number of webcache handles to allow per process. This is a limit on the maximum number of cached objects being simultaneously served, not a limit on the maximum that can be in the cache. A value of 0 indicates that we should use the system per-process limit on number of FDs.	
	DO NOT SET OR MODIFY THIS KEY MANUALLY.	
	• From://products/zxtm/lb/settings.cpp:1644	
	Value type: unsigned integer	
	• Default value: "0"	
webcache!max_path_length	The maximum length of the path (including query string) for the resource being cached. If the path exceeds this length then it will not be added to the cache.	
	• From://products/zxtm/lb/settings.cpp:1577	
	Value type: unsigned integer	
	• Default value: "2048"	
webcache!min_size_accept_range	If a page is stored in the cache, the traffic manager will add the header "Accept-Ranges: bytes" to responses that are not chunked, not compressed and exceed a certain size (and do not have it yet). This expert tunable specifies the minimum size a page has to have for the traffic manager to add the Accept-Ranges header.	
	DO NOT SET OR MODIFY THIS KEY MANUALLY.	
	• From://products/zxtm/lb/settings.cpp:1655	
	Value type: unsigned integer	
	Default value: "256"	
webcache!normalize_query	Enable normalization (lexical ordering of the parameter-assignments) of the query string.	
	• From://products/zxtm/lb/settings.cpp:1553	
	Value type: Yes / No	
	Default value: "Yes"	
webcache!size	The maximum size of the HTTP web page cache. This is specified as either a percentage of system RAM, 20% for example, or an absolute size such as 200MB.	
	• From://products/zxtm/lb/settings.cpp:1500	
	Value type: string	
	• Default value: "20%"	
webcache!url_store_keep_free	Percentage of space to keep free in the URL store.	
	DO NOT SET OR MODIFY THIS KEY MANUALLY.	
	• From://products/zxtm/lb/settings.cpp:1678	
	Value type: unsigned integer	
	• Default value: "5"	

conf/slm Configuration Sections

Key	Description	
webcache!url_store_max_mallocs	How many times to attempt to malloc space for a cache URL before giving up. 0 means never give up.	
	DO NOT SET OR MODIFY THIS KEY MANUALLY.	
	• From://products/zxtm/lb/settings.cpp:1663	
	Value type: unsigned integer	
	• Default value: "256"	
webcache!url_store_num_bins	The number of bins to use for the URL store. 0 means no binning.	
	DO NOT SET OR MODIFY THIS KEY MANUALLY.	
	• From://products/zxtm/lb/settings.cpp:1671	
	Value type: unsigned integer	
	• Default value: "64"	
webcache!verbose	Add an X-Cache-Info header to every HTTP response, showing whether the request and/or the response was cacheable.	
	• From://products/zxtm/lb/settings.cpp:1543	
	• Value type: Yes / No	
	Default value: "No"	

conf/slm

The conf/slm directory contains configuration files for service level monitoring (SLM) classes. The name of a file is the name of the SLM class it defines. SLM classes can be configured under the Catalogs > SLM section of the Admin Server UI or by using functions under the Catalog. SLM section of the SOAP API and CLI.

Key	Description	
note	A description for the SLM class.	
	• From://products/zxtm/lb/slm_config.cpp:15	
	Value type: string	
	• Default value: <none></none>	
response_time	Responses that arrive within this time limit, expressed in milliseconds, are treated as conforming.	
	• From://products/zxtm/lb/slm_config.cpp:22	
	Value type: unsigned integer	
	• Default value: "1000"	

Configuration Sections conf/ssl/cas

Key	Description	
serious_threshold	When the percentage of conforming responses drops below this level, a serious error level message will be emitted.	
	• From://products/zxtm/lb/slm_config.cpp:32	
	Value type: unsigned integer	
	• Default value: "0"	
warning_threshold	When the percentage of conforming responses drops below this level, a warning message will be emitted.	
	• From://products/zxtm/lb/slm_config.cpp:42	
	Value type: unsigned integer	
	Default value: "50"	

conf/ssl/cas

The conf/ssl/cas directory contains SSL certificate authority certificates (CAs) and certificate revocation lists (CRLs) which can be used when validating server and client certificates. CAs and CRLs can be managed under the Catalogs > SSL > CAs and CRLs section of the Admin Server UI or by using functions under the Catalog.SSL.CertificateAuthorities section of the SOAP API and CLI.

Key	Description	
There are no items to display for this configuration type.		

conf/ssl/client_keys

The conf/ssl/client_keys directory contains SSL public and private key files for use when connecting to backend nodes that require clients certificate authentication. For each key managed by the software there will be two files, the file names give the name of the SSL keypair followed by .public or .private depending on which key is in the file. Client keys keys can be managed under the Catalogs > SSL > Client Certs section of the Admin Server UI or by using functions under the Catalog.SSL.ClientCertificates section of the SOAP API and CLI.

Key	Description	
There are no items to display for this configuration type.		

conf/ssl/dnssec_keys

Config for DNSSEC private keys. Contains the keys id and algorithm followed by a RSA key block. Other key types can be converted using our cert tool.

conf/ssl/server_keys Configuration Sections

Key Description

There are no items to display for this configuration type.

conf/ssl/server_keys

The conf/ssl/server_keys directory contains SSL public and private key files for use with virtual servers that have ssl_decrypt enabled. For each key managed by the software there will be two files, the file names give the name of the SSL keypair followed by .public or .private depending on which key is in the file. If a keypair was generated by the software there will also be a corresponding .request file (which can be used to have your key signed by a CA). Server keys can be managed under the Catalogs > SSL > Server Certs section of the Admin Server UI or by using functions under the Catalog. SSL. Certificates section of the SOAP API and CLI.

Key Description

There are no items to display for this configuration type.

conf/supplementarykeys

This is a magic key section for suppementary keys. It exists so that they get loaded BEFORE ordinary base keys.

Key Description

There are no items to display for this configuration type.

conf/users

The conf/users file defines login details for users with access to the software. This is a single file containing details for all locally managed users of the software. The asterisk (*) in the keys represents the name of the user the key applies to, for example the key to store the applet width for the 'admin' user is user!admin!appletwidth. Users are managed under the System > Users section of the web UI. In the SOAP API and CLI users are managed using functions in the Users section.

Configuration Sections conf/users

Key	Description
user!*!applet_max_vs	The maximum number of virtual server traffic bars to show in the applet.
	• From://products/zxtm/lb/balancer.cpp:279
	Value type: unsigned integer
	Default value: "5"
user!*!group	The user's Permission Group.
	• From://products/zxtm/lb/balancer.cpp:211
	Value type: string
	Default value: <none></none>
user!*!old_password!*	A salted MD5 hash of the user's nth most recent password. This config key is used to track older passwords set by an user to implement password policy settings. This key's value is updated by the software only. The config key is of the form 'user! <username>!old_password!<n>' where <username> is the name of the user and <n> takes integer values starting from 0 and signifies the nth most recent password.</n></username></n></username>
	• From://products/zxtm/lb/balancer.cpp:248
	Value type: password
	• Default value: <none></none>
user!*!old_password_timestamp! *	The timestamp of the nth most recent password. This key is of the form user! <username>!old_password_timestamp!<n>, and stores the timestamp when the user!<username>!old_password!<n> was recorded in the file. See 'user!*!old_password!*' config key description for more details.</n></username></n></username>
	• From://products/zxtm/lb/balancer.cpp:262
	Value type: string
	• Default value: <none></none>
user!*!password	A salted MD5 hash of the user's password. User records from older versions of the software may use a crypt()-style hash.
	• From://products/zxtm/lb/balancer.cpp:222
	Value type: password
	Default value: <none></none>
user!*!password!timestamp	Timestamp representing the time that the current password was created. This is used internally by the software to track password expiry.
	• From://products/zxtm/lb/balancer.cpp:232
	Value type: string
	Default value: <none></none>
user!*!status	The user's status.
	• From://products/zxtm/lb/balancer.cpp:298
	Value type: enumeration
	Default value: "1"
	Permitted values:
	1: Active
	2: Suspended

Key	Description
user!*!trafficscript_editor	Use the advanced TrafficScript editor when modifying rules. This adds automatic line numbering, syntax highlighting and indentation.
	• From://products/zxtm/lb/balancer.cpp:287
	Value type: Yes / No
	Default value: "Yes"
user!*!use_applet	Enable the Admin Server UI traffic monitoring applet.
	• From://products/zxtm/lb/balancer.cpp:270
	Value type: Yes / No
	Default value: "Yes"

conf/vservers

The conf/vservers directory contains configuration files that define virtual servers. The name of a file is the name of the virtual server it defines. Virtual servers can be configured under the Services > Virtual Servers section of the Admin Server UI or by using functions under the VirtualServer section of the SOAP API and CLI.

Key	Description
add_cluster_ip	Whether or not the virtual server should add an "X-Cluster-Client-Ip" header to the request that contains the remote client's IP address.
	• From://products/zxtm/lb/virtualserver.cpp:563
	Value type: Yes / No
	Default value: "Yes"
add_x_forwarded_for	Whether or not the virtual server should append the remote client's IP address to the X-Forwarded-For header. If the header does not exist, it will be added.
	• From://products/zxtm/lb/virtualserver.cpp:574
	Value type: Yes / No
	Default value: "No"
add_x_forwarded_proto	Whether or not the virtual server should add an "X-Forwarded-Proto" header to the request that contains the original protocol used by the client to connect to the traffic manager.
	• From://products/zxtm/lb/virtualserver.cpp:586
	Value type: Yes / No
	Default value: "No"
address	The addresses on which to listen for incoming connections.
	• From://products/zxtm/lb/virtualserver.cpp:145
	Value type: list
	• Default value: "*"

Key	Description
aptimizer!enabled	Whether the virtual server should aptimize web content.
	• From://products/zxtm/lb/virtualserver.cpp:1848
	Value type: Yes / No
	Default value: "No"
aptimizer!profile!*!urls	The application scopes for which to apply a particular acceleration profile.
	• From://products/zxtm/lb/virtualserver.cpp:1857
	Value type: list
	• Default value: <none></none>
auto_upgrade_protocols	A case-insensitive list of HTTP "Upgrade" header values that will trigger the HTTP connection upgrade auto-detection.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/virtualserver.cpp:647
	Value type: list
	Default value: "websocket"
autodetect_upgrade_headers	Whether the traffic manager should check for HTTP responses that confirm an HTTP connection is transitioning to the WebSockets protocol. If that such a response is detected, the traffic manager will cease any protocol-specific processing on the connection and just pass incoming data to the client/server as appropriate.
	• From://products/zxtm/lb/virtualserver.cpp:636
	Value type: Yes / No
	Default value: "Yes"
bandwidth_class	The bandwidth management class that this server should use, if any.
	• From://products/zxtm/lb/virtualserver.cpp:222
	Value type: string
	• Default value: <none></none>
client_cas	The certificate authorities that this virtual server should trust to validate client certificates. If no certificate authorities are selected, and client certificates are requested, then all client certificates will be accepted.
	• From://products/zxtm/lb/virtualserver.cpp:1620
	 Requires: ssl_decrypt is set to "Yes"
	Value type: list
	• Default value: <none></none>
close_with_rst	Whether or not connections from clients should be closed with a RST packet, rather than a FIN packet. This avoids the TIME_WAIT state, which on rare occasions allows wandering duplicate packets to be safely ignored.
	• From://products/zxtm/lb/virtualserver.cpp:360
	• Value type: Yes / No
	Default value: "No"
completionrules	Rules that are run at the end of a transaction, in order, comma separated.
-	• From://products/zxtm/lb/virtualserver.cpp:252
	Value type: list

Key	Description
connect_timeout	The time, in seconds, to wait for data from a new connection. If no data is received within this time, the connection will be closed. A value of 0 (zero) will disable the timeout.
	• From://products/zxtm/lb/virtualserver.cpp:455
	Value type: seconds
	Default value: "10"
cookie!domain	The way in which the traffic manager should rewrite the domain portion of any cookies set by a back-end web server.
	• From://products/zxtm/lb/virtualserver.cpp:872
	Value type: enumeration
	• Default value: "0"
	Permitted values:
	0: Do not rewrite the domain
	1: Rewrite the domain to the host header of the request
	2: Rewrite the domain to the named domain value
cookie!newdomain	The domain to use when rewriting a cookie's domain to a named value.
	• From://products/zxtm/lb/virtualserver.cpp:884
	Requires: cookie!domain is set to "2"
	Value type: string
	Default value: <none></none>
cookie!pathregex	If you wish to rewrite the path portion of any cookies set by a back-end web server, provide a regular expression to match the path:
	• From://products/zxtm/lb/virtualserver.cpp:894
	Value type: string
	• Default value: <none></none>
cookie!pathreplace	If cookie path regular expression matches, it will be replaced by this substitution. Parameters \$1-\$9 can be used to represent bracketed parts of the regular expression.
	• From://products/zxtm/lb/virtualserver.cpp:906
	Requires: cookie!pathregex is set to a regular expression
	Value type: string
	Default value: <none></none>
cookie!secure	Whether or not the traffic manager should modify the "secure" tag of any cookies set by a back-end web server.
	• From://products/zxtm/lb/virtualserver.cpp:921
	Value type: enumeration
	Default value: "0"
	Permitted values:
	0: Do not modify the 'secure' tag
	1: Set the 'secure' tag
	2: Unset the 'secure' tag

Key	Description
dns!edns_client_subnet	Enable/Disable use of EDNS client subnet option
	• From://products/zxtm/lb/virtualserver.cpp:2077
	Value type: Yes / No
	• Default value: "Yes"
dns!edns_udpsize	EDNS UDP size advertised in responses.
	• From://products/zxtm/lb/virtualserver.cpp:2024
	Value type: unsigned integer
	Default value: "4096"
dns!max_udpsize	Maximum UDP answer size.
	• From://products/zxtm/lb/virtualserver.cpp:2032
	Value type: unsigned integer
	• Default value: "4096"
dns!rrset_order	Response record ordering.
	• From://products/zxtm/lb/virtualserver.cpp:2063
	Value type: enumeration
	Default value: "fixed"
	Permitted values:
	fixed: Fixed
	cyclic: Cyclic
dns!verbose	Whether or not the DNS Server should emit verbose logging. This is useful for diagnosing problems.
	• From://products/zxtm/lb/virtualserver.cpp:2052
	• Value type: Yes / No
	Default value: "No"
dns!zones	The DNS zones
	• From://products/zxtm/lb/virtualserver.cpp:2044
	Value type: list
	Default value: <none></none>
enabled	Whether the virtual server is enabled.
	• From://products/zxtm/lb/virtualserver.cpp:122
	• Value type: Yes / No
	Default value: "No"
error_file	Specify how the traffic manager should respond to the client when an internal or backend error is detected. In addition to sending custom or default error pages, the traffic manager can be instructed to close the connection without returning a response.
	Custom error pages can be uploaded via the Extra Files catalog page.
	• From://products/zxtm/lb/virtualserver.cpp:544
	Value type: string
	Default value: "Default"

Key	Description
ftp!ssl_data	Use SSL on the data connection as well as the control connection (if not enabled it is left to the client and server to negotiate this).
	• From://products/zxtm/lb/virtualserver.cpp:1578
	 Requires: ssl_decrypt is set to "Yes"
	Value type: Yes / No
	Default value: "Yes"
ftp_data_source_port	The source port to be used for active-mode FTP data connections. If 0, a random high port will be used, otherwise the specified port will be used. If a port below 1024 is required you must first explicitly permit use of low ports with the ftp_data_bind_low global setting.
	• From://products/zxtm/lb/virtualserver.cpp:976
	Value type: unsigned integer
	Default value: "0"
ftp_force_client_secure	Whether or not the virtual server should require that incoming FTP data connections from the client originate from the same IP address as the corresponding client control connection.
	• From://products/zxtm/lb/virtualserver.cpp:934
	Value type: Yes / No
	Default value: "Yes"
ftp_force_server_secure	Whether or not the virtual server should require that incoming FTP data connections from the nodes originate from the same IP address as the node.
	• From://products/zxtm/lb/virtualserver.cpp:943
	Value type: Yes / No
	• Default value: "Yes"
ftp_portrange_high	If non-zero, then this controls the upper bound of the port range to use for FTP data connections.
	• From://products/zxtm/lb/virtualserver.cpp:958
	Value type: unsigned integer
	• Default value: "0"
ftp_portrange_low	If non-zero, then this controls the lower bound of the port range to use for FTP data connections.
	• From://products/zxtm/lb/virtualserver.cpp:951
	Value type: unsigned integer
	• Default value: "0"
glb_services	The associated GLB services for this DNS virtual server.
	• From://products/zxtm/lb/virtualserver.cpp:2010
	Value type: list
	Default value: <none></none>

Key	Description
gzip!chunk	Use HTTP chunking to deliver data to the client. If this is turned off, we won't use chunking when gzipping server data. This would mean that the response couldn't be kept-alive.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/virtualserver.cpp:1231
	Value type: Yes / No
	Default value: "Yes"
gzip!compresslevel	Compression level (1-9, 1=low, 9=high).
	• From://products/zxtm/lb/virtualserver.cpp:1201
	Value type: unsigned integer
	• Default value: "1"
gzip!enabled	Compress web pages sent back by the server.
	• From://products/zxtm/lb/virtualserver.cpp:1193
	Value type: Yes / No
	Default value: "No"
gzip!etag_rewrite	How the ETag header should be manipulated when compressing content.
	• From://products/zxtm/lb/virtualserver.cpp:1261
	Value type: enumeration
	Default value: "wrap"
	Permitted values:
	ignore: Leave the ETag unchanged
	delete: Delete the ETag header
	weaken: Change the ETag header to specify a weak match
	wrap: Wrap the ETag, and attempt to unwrap safe conditional requests
gzip!include_mime	MIME types to compress. Complete MIME types can be used, or a type can end in a '*' to match multiple types.
	• From://products/zxtm/lb/virtualserver.cpp:1248
	Value type: list
	 Default value: "text/html text/plain"
gzip!maxsize	Maximum document size to compress (0 means unlimited).
	• From://products/zxtm/lb/virtualserver.cpp:1217
	Value type: bytes
	• Default value: "10000000"
gzip!minsize	Minimum document size to compress.
	• From://products/zxtm/lb/virtualserver.cpp:1209
	Value type: bytes
	• Default value: "1000"
gzip!nosize	Compress documents with no given size.
gzipitosize	• From://products/zxtm/lb/virtualserver.cpp:1223
	Value type: Yes / No

Key	Description
http2!connect_timeout	The time, in seconds, to wait for a request on a new HTTP/2 connection. If no request is received within this time, the connection will be closed. This setting overrides the connect_timeout setting. If set to 0 (zero), the value of connect_timeout will be used instead.
	• From://products/zxtm/lb/virtualserver.cpp:726
	Value type: unsigned integer
	• Default value: "0"
http2!data_frame_size	This setting controls the preferred frame size used when sending body data to the client. If the client specifies a smaller maximum size than this setting, the client's maximum size will be used. Every data frame sent has at least a 9-byte header, in addition to this frame size, prepended to it.
	• From://products/zxtm/lb/virtualserver.cpp:710
	Value type: bytes
	• Default value: "4096"
http2!enabled	This setting allows the HTTP/2 protocol to be used by a HTTP virtual server. Unless use of HTTP/2 is negotiated by the client, the virtual server will fall back to HTTP $1.x$ automatically.
	• From://products/zxtm/lb/virtualserver.cpp:658
	Value type: Yes / No
	Default value: "Yes"
http2!header_table_size	This setting controls the amount of memory allowed for header compression on each HTTP/2 connection.
	• From://products/zxtm/lb/virtualserver.cpp:667
	Value type: bytes
	• Default value: "4096"
http2!headers_index_blacklist	A list of header names that should never be compressed using indexing.
	• From://products/zxtm/lb/virtualserver.cpp:801
	Value type: list
	• Default value: <none></none>
http2!headers_index_default	The HTTP/2 HPACK compression scheme allows for HTTP headers to be compressed using indexing. Sensitive headers can be marked as "never index", which prevents them from being compressed using indexing. When this setting is Yes, only headers included in http2!headers_index_blacklist are marked as "never index". When this setting is No, all headers will be marked as "never index" unless they are included in http2!headers_index_whitelist.
	• From://products/zxtm/lb/virtualserver.cpp:792
	Value type: Yes / No
	• Default value: "Yes"
http2!headers_index_whitelist	A list of header names that can be compressed using indexing when the value of http2!headers_index_default is set to No.
	• From://products/zxtm/lb/virtualserver.cpp:813
	Value type: list
	• Default value: <none></none>

Key	Description
http2!idle_timeout_no_streams	The time, in seconds, to wait for a new HTTP/2 request on a previously used HTTP/2 connection that has no open HTTP/2 streams. If an HTTP/2 request is not received within this time, the connection will be closed. A value of 0 (zero) will disable the timeout.
	• From://products/zxtm/lb/virtualserver.cpp:739
	Value type: unsigned integer
	• Default value: "120"
http2!idle_timeout_open_streams	The time, in seconds, to wait for data on an idle HTTP/2 connection, which has open streams, when no data has been sent recently (e.g. for long-polled requests). If data is not sent within this time, all open streams and the HTTP/2 connection will be closed. A value of 0 (zero) will disable the timeout.
	• From://products/zxtm/lb/virtualserver.cpp:753
	Value type: unsigned integer
	• Default value: "600"
http2!max_concurrent_streams	This setting controls the number of streams a client is permitted to open concurrently on a single connection.
	• From://products/zxtm/lb/virtualserver.cpp:686
	Value type: unsigned integer
	• Default value: "200"
http2!max_frame_size	This setting controls the maximum HTTP/2 frame size clients are permitted to send to the traffic manager.
	• From://products/zxtm/lb/virtualserver.cpp:695
	Value type: bytes
	• Default value: "16384"
http2!max_header_padding	The maximum size, in bytes, of the random-length padding to add to HTTP/2 header frames. The padding, a random number of zero bytes up to the maximum specified.
	• From://products/zxtm/lb/virtualserver.cpp:765
	Value type: bytes
	Default value: "0"
http2!merge_cookie_headers	Whether Cookie headers received from an HTTP/2 client should be merged into a single Cookie header using RFC6265 rules before forwarding to an HTTP/1.1 server. Some web applications do not handle multiple Cookie headers correctly.
	• From://products/zxtm/lb/virtualserver.cpp:775
	• Value type: Yes / No
	Default value: "Yes"
http2!stream_window_size	This setting controls the flow control window for each HTTP/2 stream. This will limit the memory used for buffering when the client is sending body data faster than the pool node is reading it.
	• From://products/zxtm/lb/virtualserver.cpp:677
	Value type: bytes
	Default value: "65535"

Key	Description
http_chunk_overhead_forwardin g	Handling of HTTP chunk overhead. When vTM receives data from a server or client that consists purely of protocol overhead (contains no payload), forwarding of such segments is delayed until useful payload data arrives (setting "lazy"). Changing this key to "eager" will make vTM incur the overhead of immediately passing such data on; it should only be used with HTTP peers whose chunk handling requires it.
	• From://products/zxtm/lb/virtualserver.cpp:623
	Value type: enumeration
	Default value: "lazy"
	Permitted values:
	lazy: lazy
	eager: eager
issued_certs_never_expire	When the virtual server verifies certificates signed by these certificate authorities, it doesn't check the 'not after' date, i.e., they are considered valid even after their expiration date has passed (but not if they have been revoked).
	• From://products/zxtm/lb/virtualserver.cpp:1656
	• Requires: ssl_decrypt is set to "Yes"
	Value type: list
	Default value: <none></none>
keepalive	Whether or not the virtual server should use keepalive connections with the remote clients.
	• From://products/zxtm/lb/virtualserver.cpp:553
	• Value type: Yes / No
	Default value: "Yes"
keepalive_timeout	The length of time that the virtual server should keep an idle keepalive connection before discarding it. A value of 0 (zero) will mean that the keepalives are never closed by the traffic manager.
	• From://products/zxtm/lb/virtualserver.cpp:481
	Value type: seconds
	Default value: "10"
kerberos_protocol_transition!ena	Whether or not the virtual server should use Kerberos Protocol Transition.
bled	• From://products/zxtm/lb/virtualserver.cpp:1821
	• Value type: Yes / No
	Default value: "No"
kerberos_protocol_transition!pri ncipal	The Kerberos principal this virtual server should use to perform Kerberos Protocol Transition.
r	• From://products/zxtm/lb/virtualserver.cpp:1830
	• Value type: string
	Default value: <none></none>
karbaras protosal transition!	
kerberos_protocol_transition!targ et	The Kerberos principal name of the service this virtual server targets.
	• From://products/zxtm/lb/virtualserver.cpp:1838
	Value type: string Default value, many series.
	• Default value: <none></none>

Key	Description
location!regex	If the 'Location' header matches this regular expression, rewrite the header using the 'location!replace' pattern:
	• From://products/zxtm/lb/virtualserver.cpp:842
	Value type: string
	• Default value: <none></none>
location!replace	If the 'Location' header matches the 'location!regex' regular expression, rewrite the header with this pattern (parameters such as \$1-\$9 can be used to match parts of the regular expression):
	• From://products/zxtm/lb/virtualserver.cpp:855
	Requires: location!regex is set to a regular expression
	Value type: string
	• Default value: <none></none>
location!rewrite	The action the virtual server should take if the "Location" header does not match the location!regex regular expression.
	• From://products/zxtm/lb/virtualserver.cpp:832
	Value type: enumeration
	• Default value: "1"
	Permitted values:
	0: Nothing;
	2: Rewrite the hostname to the request's "Host" header, and rewrite the protocol and port if necessary;
	1: Do not rewrite the hostname. Rewrite the protocol and port if the hostname matches the request's "Host" header.
log!always_flush	Write log data to disk immediately, rather than buffering data.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/virtualserver.cpp:1920
	Value type: Yes / No
	Default value: "No"
log!client_connection_failures	Should the virtual server log failures occurring on connections to clients.
	• From://products/zxtm/lb/virtualserver.cpp:513
	• Value type: Yes / No
	Default value: "No"
log!enabled	Whether or not to log connections to the virtual server to a disk on the file system.
	• From://products/zxtm/lb/virtualserver.cpp:1869
	Value type: Yes / No
	Default value: "No"

Key	Description
log!filename	The name of the file in which to store the request logs. The filename can contain macros which will be expanded by the traffic manager to generate the full filename.
	• From://products/zxtm/lb/virtualserver.cpp:1898
	• Requires: log!enabled is set to "Yes"
	Value type: string
	 Default value: "%zeushome%/zxtm/log/%v.log"
log!format	The log file format. This specifies the line of text that will be written to the log file when a connection to the traffic manager is completed. Many parameters from the connection can be recorded using macros.
	• From://products/zxtm/lb/virtualserver.cpp:1914
	 Requires: log!enabled is set to "Yes"
	Value type: string
log!save_all	Whether to log all connections by default, or log no connections by default. Specific connections can be selected for addition to or exclusion from the log using the TrafficScript function requestlog.include().
	• From://products/zxtm/lb/virtualserver.cpp:1881
	• Value type: Yes / No
	• Default value: "Yes"
log!server_connection_failures	Should the virtual server log failures occurring on connections to nodes.
	• From://products/zxtm/lb/virtualserver.cpp:507
	Value type: Yes / No
	Default value: "No"
log!session_persistence_verbose	Should the virtual server log session persistence events.
	• From://products/zxtm/lb/virtualserver.cpp:525
	Value type: Yes / No
	Default value: "No"
log!ssl_failures	Should the virtual server log failures occurring on SSL secure negotiation.
	• From://products/zxtm/lb/virtualserver.cpp:519
	Value type: Yes / No
	Default value: "No"
max_client_buffer	The amount of memory, in bytes, that the virtual server should use to store data sent by the client. Larger values will use more memory, but will minimise the number of read() and write() system calls that the traffic manager must perform.
	• From://products/zxtm/lb/virtualserver.cpp:374
	Value type: bytes
	• Default value: "65536"

Key	Description
max_server_buffer	The amount of memory, in bytes, that the virtual server should use to store data returned by the server. Larger values will use more memory, but will minimise the number of read() and write() system calls that the traffic manager must perform.
	• From://products/zxtm/lb/virtualserver.cpp:386
	Value type: bytes
	• Default value: "65536"
max_transaction_duration	The total amount of time a transaction can take, counted from the first byte being received until the transaction is complete. For HTTP, this can mean all data has been written in both directions, or the connection has been closed; in most other cases it is the same as the connection being closed.
	The default value of 0 means there is no maximum duration, i.e., transactions can take arbitrarily long if none of the other timeouts occur.
	• From://products/zxtm/lb/virtualserver.cpp:499
	Value type: seconds
	• Default value: "0"
mime!default	Auto-correct MIME types if the server sends the "default" MIME type for files.
	• From://products/zxtm/lb/virtualserver.cpp:607
	Value type: string
	Default value: "text/plain"
mime!detect	Auto-detect MIME types if the server does not provide them.
	• From://products/zxtm/lb/virtualserver.cpp:595
	Value type: Yes / No
	Default value: "No"
note	A description for the virtual server.
	• From://products/zxtm/lb/virtualserver.cpp:154
	Value type: string
	• Default value: <none></none>
pool	The default pool to use for traffic.
	• From://products/zxtm/lb/virtualserver.cpp:190
	Value type: string
	• Default value: <none></none>
port	The port on which to listen for incoming connections.
	• From://products/zxtm/lb/virtualserver.cpp:131
	Value type: unsigned integer
	• Default value: <none></none>
private_key	The SSL private key.
	• From://products/zxtm/lb/virtualserver.cpp:1286
	 Requires: ssl_decrypt is set to "Yes"
	Value type: string
	 Default value: <none></none>

Key	Description
protection	The service protection class that should be used to protect this server, if any.
	• From://products/zxtm/lb/virtualserver.cpp:201
	Value type: string
	• Default value: <none></none>
protocol	The protocol that the virtual server is using.
	• From://products/zxtm/lb/virtualserver.cpp:180
	Value type: enumeration
	Default value: "http"
	Permitted values:
	http: HTTP
	ftp: FTP
	imapv2: IMAPv2
	imapv3: IMAPv3
	imapv4: IMAPv4
	pop3: POP3
	smtp: SMTP
	ldap: LDAP
	telnet: Telnet
	ssl: SSL
	https: SSL (HTTPS)
	imaps: SSL (IMAPS)
	pop3s: SSL (POP3S)
	ldaps: SSL (LDAPS)
	udpstreaming: UDP - Streaming
	udp: UDP
	dns: DNS (UDP)
	dns_tcp: DNS (TCP)
	sipudp: SIP (UDP)
	siptcp: SIP (TCP)
	rtsp: RTSP
	server_first: Generic server first
	client_first: Generic client first
	stream: Generic streaming
proxy_close	If set to Yes the traffic manager will send the client FIN to the back-end server and wait for a server response instead of closing the connection immediately. This is only necessary for protocols that require half-close support to function correctly, such as "rsh". If the traffic manager is responding to the request itsel setting this key to Yes will cause the traffic manager to continue writing the response even after it has received a FIN from the client.
	• From://products/zxtm/lb/virtualserver.cpp:343
	• Value type: Yes / No
	Default value: "No"

Key	Description
public_cert	The SSL public certificate.
	• From://products/zxtm/lb/virtualserver.cpp:1296
	• Requires: ssl_decrypt is set to "Yes"
	Value type: string
	• Default value: <none></none>
recent_conns!enabled	Whether or not connections handled by this virtual server should be shown on the Activity > Connections page.
	• From://products/zxtm/lb/virtualserver.cpp:408
	Value type: Yes / No
	• Default value: "Yes"
recent_conns!save_all	Whether or not all connections handled by this virtual server should be shown on the Connections page. Individual connections can be selectively shown on the Connections page using the recentconns.include() TrafficScript function.
	• From://products/zxtm/lb/virtualserver.cpp:421
	Value type: Yes / No
	Default value: "No"
request_client_cert	Whether or not the virtual server should request an identifying certificate from each client.
	• From://products/zxtm/lb/virtualserver.cpp:1595
	Value type: enumeration
	Default value: "0"
	Permitted values:
	0: Do not request a client certificate
	1: Request, but do not require a client certificate
	2: Require a client certificate
request_tracing!enabled	Record a trace of major connection processing events for each request and response.
	• From://products/zxtm/lb/virtualserver.cpp:429
	Value type: Yes / No
	Default value: "No"
request_tracing!trace_io	Include details of individual I/O events in request and response traces. Requires request tracing to be enabled.
	• From://products/zxtm/lb/virtualserver.cpp:439
	 Requires: request_tracing!enabled is set to "Yes"
	Value type: Yes / No
	Default value: "No"
responserules	Rules to be applied to responses, in order, comma separated.
•	• From://products/zxtm/lb/virtualserver.cpp:242
	•
	Value type: list

rtsp_streaming_portrange_high If non-zero this controls the upper bound of the port range to use for stream data connections. • From://products/zxtm/lb/virtualserver.cpp:993 • Value type: unsigned integer • Default value: "0" If non-zero this controls the lower bound of the port range to use for stream data connections. • From://products/zxtm/lb/virtualserver.cpp:986 • Value type: unsigned integer • Default value: "0" rtsp_streaming_timeout If non-zero data-streams associated with RTSP connections will timeout if data is transmitted for this many seconds. • From://products/zxtm/lb/virtualserver.cpp:1004 • Value type: seconds • Default value: "30" rules Rules to be applied to incoming requests, in order, comma separated.
data connections. • From://products/zxtm/lb/virtualserver.cpp:993 • Value type: unsigned integer • Default value: "0" If non-zero this controls the lower bound of the port range to use for stream data connections. • From://products/zxtm/lb/virtualserver.cpp:986 • Value type: unsigned integer • Default value: "0" rtsp_streaming_timeout If non-zero data-streams associated with RTSP connections will timeout if data is transmitted for this many seconds. • From://products/zxtm/lb/virtualserver.cpp:1004 • Value type: seconds • Default value: "30"
Value type: unsigned integer Default value: "0" If non-zero this controls the lower bound of the port range to use for stream data connections. From://products/zxtm/lb/virtualserver.cpp:986 Value type: unsigned integer Default value: "0" rtsp_streaming_timeout If non-zero data-streams associated with RTSP connections will timeout if data is transmitted for this many seconds. From://products/zxtm/lb/virtualserver.cpp:1004 Value type: seconds Default value: "30"
Default value: "0" rtsp_streaming_portrange_low If non-zero this controls the lower bound of the port range to use for stream data connections. From://products/zxtm/lb/virtualserver.cpp:986 Value type: unsigned integer Default value: "0" rtsp_streaming_timeout If non-zero data-streams associated with RTSP connections will timeout if data is transmitted for this many seconds. From://products/zxtm/lb/virtualserver.cpp:1004 Value type: seconds Default value: "30"
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data is transmitted for this many seconds. • From://products/zxtm/lb/virtualserver.cpp:1004 • Value type: seconds • Default value: "30"
Value type: secondsDefault value: "30"
Default value: "30"
rules Rules to be applied to incoming requests in order comme congreted
rules Rules to be applied to incoming requests, in order, comma separated.
• From://products/zxtm/lb/virtualserver.cpp:233
Value type: list
 Default value: <none></none>
rules_on_connect Only applicable for Client First Generic Protocol. Allows Virtual Traffic Manager to execute rules on a client connects without waiting for data from client.
DO NOT SET OR MODIFY THIS KEY MANUALLY.
• From://products/zxtm/lb/virtualserver.cpp:259
• Value type: Yes / No
Default value: "No"
serverfirst_banner If specified, the traffic manager will use the value as the banner to send fo server-first protocols such as POP, SMTP and IMAP. This allows rules to the first part of the client data (such as the username) to select a pool.
• From://products/zxtm/lb/virtualserver.cpp:1183
Value type: string
• Default value: <none></none>
sip_dangerous_requests The action to take when a SIP request with body data arrives that should be routed to an external IP.
• From://products/zxtm/lb/virtualserver.cpp:1152
Value type: enumeration
Default value: "node"
Permitted values:
node: Send the request to a back-end node
forbid: Send a 403 Forbidden response to the client
forward: Forward the request to its target URI (dangerous)

Key	Description
sip_follow_route	Should the virtual server follow routing information contained in SIP requests If set to No requests will be routed to the chosen back-end node regardless of their URI or Route header.
	• From://products/zxtm/lb/virtualserver.cpp:1138
	• Value type: Yes / No
	Default value: "Yes"
sip_max_connection_mem	SIP clients can have several pending requests at one time. To protect the traffic manager against DoS attacks, this setting limits the amount of memory each client can use. When the limit is reached new requests will be sent a 413 response. If the value is set to 0 (zero) the memory limit is disabled.
	• From://products/zxtm/lb/virtualserver.cpp:1167
	Value type: bytes
	• Default value: "65536"
sip_mode	The mode that this SIP virtual server should operate in.
•	• From://products/zxtm/lb/virtualserver.cpp:1093
	Value type: enumeration
	Default value: "pi"
	Permitted values:
	lb: SIP Routing
	pi: SIP Gateway
	fc: Full Gateway
sip_rewrite_uri	Replace the Request-URI of SIP requests with the address of the selected backend node.
	• From://products/zxtm/lb/virtualserver.cpp:1126
	Value type: Yes / No
	Default value: "No"
sip_streaming_portrange_high	If non-zero this controls the upper bound of the port range to use for streaming data connections.
	• From://products/zxtm/lb/virtualserver.cpp:1108
	Value type: unsigned integer
	Default value: "0"
sip_streaming_portrange_low	If non-zero, then this controls the lower bound of the port range to use for streaming data connections.
	• From://products/zxtm/lb/virtualserver.cpp:1101
	Value type: unsigned integer
	• Default value: "0"
sip_streaming_timeout	If non-zero a UDP stream will timeout when no data has been seen within this time.
	• From://products/zxtm/lb/virtualserver.cpp:1117
	Value type: seconds
	• Default value: "60"

Key	Description
sip_timeout_messages	When timing out a SIP transaction, send a 'timed out' response to the client and, in the case of an INVITE transaction, a CANCEL request to the server.
	• From://products/zxtm/lb/virtualserver.cpp:1079
	Value type: Yes / No
	Default value: "Yes"
sip_transaction_timeout	The virtual server should discard a SIP transaction when no further messages have been seen within this time.
	• From://products/zxtm/lb/virtualserver.cpp:1069
	Value type: seconds
	Default value: "30"
slm	The service level monitoring class that this server should use, if any.
	• From://products/zxtm/lb/virtualserver.cpp:212
	Value type: string
	• Default value: <none></none>
smtp!expect_starttls	Whether or not the traffic manager should expect the connection to start off in plain text and then upgrade to SSL using STARTTLS when handling SMTP traffic.
	• From://products/zxtm/lb/virtualserver.cpp:1567
	Value type: Yes / No
	Default value: "Yes"
so_nagle	Whether or not Nagle's algorithm should be used for TCP connections.
	• From://products/zxtm/lb/virtualserver.cpp:350
	Value type: Yes / No
	Default value: "No"
ssl_ciphers	The SSL/TLS ciphers to allow for connections to this virtual server. Leaving this empty will make the virtual server use the globally configured ciphers, see configuration key ssl!ssl3_ciphers in the Global Settings section of the System tab. See there for how to specify SSL/TLS ciphers.
	• From://products/zxtm/lb/virtualserver.cpp:1397
	Value type: string
	• Default value: <none></none>
ssl_client_cert_headers	What HTTP headers the virtual server should add to each request to show the data in the client certificate.
	• From://products/zxtm/lb/virtualserver.cpp:1670
	Value type: enumeration
	Default value: "none"
	Permitted values:
	none: No data
	simple: Certificate fields
	all: Certificate fields and certificate text

Key	Description
ssl_decrypt	Whether or not the virtual server should decrypt incoming SSL traffic.
•	• From://products/zxtm/lb/virtualserver.cpp:1276
	Value type: Yes / No
	Default value: "No"
ssl_elliptic_curves	The SSL elliptic curve preference list for SSL connections to this virtual server using TLS version 1.0 or higher. Leaving this empty will make the virtual server use the globally configured preference list, ssl!elliptic_curves in the Global Settings section of the System tab. See there for how to specify elliptic curves.
	• From://products/zxtm/lb/virtualserver.cpp:1447
	Value type: string
	• Default value: <none></none>
ssl_headers	Whether or not the virtual server should add HTTP headers to each request to show the SSL connection parameters.
	• From://products/zxtm/lb/virtualserver.cpp:1331
	Value type: Yes / No
	Default value: "No"
ssl_honor_fallback_scsv	Whether or not the Fallback SCSV sent by TLS clients is honored by this virtual server. Choosing the global setting means the value of configuration key ssl!honor_fallback_scsv from the Global Settings section of the System tab will be enforced.
	• From://products/zxtm/lb/virtualserver.cpp:1556
	Value type: enumeration
	Default value: "use_default"
	Permitted values:
	use_default: Use the global setting for Fallback SCSV
	enabled: Enable Fallback SCSV
	disabled: Disable Fallback SCSV
ssl_max_key_size	The maximum client certificate key size that the virtual server should accept.
,_	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/virtualserver.cpp:1793
	Value type: unsigned integer
	Default value: "2048"
ssl_min_key_size	The minimum client certificate key size that the virtual server should accept.
/_	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/virtualserver.cpp:1801
	Value type: unsigned integer
	Default value: "512"
ssl_ocsp!issuer!*!aia	Whether or not the traffic manager should use AIA information contained in a client certificate to determine which OCSP responder to contact.
	• From://products/zxtm/lb/virtualserver.cpp:1710
	Value type: Yes / No
	Default value: <none></none>

Key	Description
ssl_ocsp!issuer!*!nonce	Use the OCSP nonce extension, which protects against OCSP replay attacks. Some OCSP servers do not support nonces.
	• From://products/zxtm/lb/virtualserver.cpp:1744
	Value type: enumeration
	• Default value: <none></none>
	Permitted values:
	off: No nonce check
	on: Use nonce, server does not have to reply with nonce
	strict: Use nonce, server must reply with nonce
ssl_ocsp!issuer!*!required	Should we do an OCSP check for this issuer, and is it required or optional.
	• From://products/zxtm/lb/virtualserver.cpp:1702
	Value type: enumeration
	• Default value: <none></none>
	Permitted values:
	none: None
	optional: OCSP check optional
	strict: OCSP check required
ssl_ocsp!issuer!*!responder_cert	The expected responder certificate.
	• From://products/zxtm/lb/virtualserver.cpp:1754
	Value type: string
	• Default value: <none></none>
ssl_ocsp!issuer!*!signer	If set the request will be signed with the supplied certificate.
	• From://products/zxtm/lb/virtualserver.cpp:1731
	Value type: string
	• Default value: <none></none>
ssl_ocsp!issuer!*!url	Which OCSP responders this virtual server should use to verify client certificates.
	• From://products/zxtm/lb/virtualserver.cpp:1721
	Value type: string
	• Default value: <none></none>
ssl_ocsp_max_response_age	The number of seconds for which an OCSP response is considered valid if it has not yet exceeded the time specified in the 'nextUpdate' field. If set to 0 (zero) then OCSP responses are considered valid until the time specified in their 'nextUpdate' field.
	• From://products/zxtm/lb/virtualserver.cpp:1769
	Value type: seconds
	• Default value: "0"

Key	Description
ssl_ocsp_stapling	If OCSP URIs are present in certificates used by this virtual server, then enabling this option will allow the traffic manager to provide OCSP responses for these certificates as part of the handshake, if the client sends a TLS status_request extension in the ClientHello.
	• From://products/zxtm/lb/virtualserver.cpp:1376
	• Value type: Yes / No
	Default value: "No"
ssl_ocsp_time_tolerance	The number of seconds outside the permitted range for which the 'thisUpdate' and 'nextUpdate' fields of an OCSP response are still considered valid.
	• From://products/zxtm/lb/virtualserver.cpp:1781
	Value type: seconds
	• Default value: "30"
ssl_ocsp_timeout	The number of seconds after which OCSP requests will be timed out.
•	• From://products/zxtm/lb/virtualserver.cpp:1691
	Value type: seconds
	• Default value: "10"
ssl_prefer_sslv3	Deprecated. Formerly allowed a preference for SSLv3 for performance reasons.
•	• From://products/zxtm/lb/virtualserver.cpp:1361
	Value type: Yes / No
	Default value: "No"
ssl_send_close_alerts	Whether or not to send an SSL/TLS "close alert" when the traffic manager is initiating an SSL socket disconnection.
	• From://products/zxtm/lb/virtualserver.cpp:1354
	Value type: Yes / No
	Default value: "Yes"
ssl_signature_algorithms	The SSL signature algorithms preference list for SSL connections to this virtual server using TLS version 1.2 or higher. Leaving this empty will make the virtual server use the globally configured preference list, ssl!signature_algorithms in the Global Settings section of the System tab. See there for how to specify TLS signature algorithms.
	• From://products/zxtm/lb/virtualserver.cpp:1423
	Value type: string
	• Default value: <none></none>
ssl_sites!*!private_key	The SSL private key for a particular destination site IP.
	• From://products/zxtm/lb/virtualserver.cpp:1306
	• Requires: ssl_decrypt is set to "Yes"
	Value type: string
	• Default value: <none></none>

Key	Description
ssl_sites!*!public_cert	The SSL public certificate for a particular destination site IP. The specific IP replaces the * (asterisk) in the key name, the value must be a valid certificate in the conf/ssl/server_keys directory. The key can be specified multiple times to cover multiple IP addresses.
	• From://products/zxtm/lb/virtualserver.cpp:1322
	 Requires: ssl_decrypt is set to "Yes"
	Value type: string
	• Default value: <none></none>
ssl_support_ssl2	Whether or not SSLv2 is enabled for this virtual server. Choosing the global setting means the value of configuration key ssl!support_ssl2 from the Global Settings section of the System tab will be enforced.
	• From://products/zxtm/lb/virtualserver.cpp:1465
	Value type: enumeration
	Default value: "use_default"
	Permitted values:
	use_default: Use the global setting for SSLv2
	enabled: Enable SSLv2 (not recommended)
	disabled: Disable SSLv2
ssl_support_ssl3	Whether or not SSLv3 is enabled for this virtual server. Choosing the global setting means the value of configuration key ssl!support_ssl3 from the Global Settings section of the System tab will be enforced.
	• From://products/zxtm/lb/virtualserver.cpp:1482
	Value type: enumeration
	Default value: "use_default"
	Permitted values:
	use_default: Use the global setting for SSLv3
	enabled: Enable SSLv3
	disabled: Disable SSLv3
ssl_support_tls1	Whether or not TLSv1.0 is enabled for this virtual server. Choosing the global setting means the value of configuration key ssl!support_tls1 from the Global Settings section of the System tab will be enforced.
	• From://products/zxtm/lb/virtualserver.cpp:1499
	Value type: enumeration
	Default value: "use_default"
	Permitted values:
	use_default: Use the global setting for TLSv1.0
	enabled: Enable TLSv1.0
	disabled: Disable TLSv1.0

Key	Description
ssl_support_tls1_1	Whether or not TLSv1.1 is enabled for this virtual server. Choosing the global setting means the value of configuration key ssl!support_tls1.1 from the Global Settings section of the System tab will be enforced.
	• From://products/zxtm/lb/virtualserver.cpp:1518
	Value type: enumeration
	Default value: "use_default"
	Permitted values:
	use_default: Use the global setting for TLSv1.1
	enabled: Enable TLSv1.1
	disabled: Disable TLSv1.1
ssl_support_tls1_2	Whether or not TLSv1.2 is enabled for this virtual server. Choosing the global setting means the value of configuration key ssl!support_tls1.2 from the Global Settings section of the System tab will be enforced.
	• From://products/zxtm/lb/virtualserver.cpp:1537
	Value type: enumeration
	Default value: "use_default"
	Permitted values:
	use_default: Use the global setting for TLSv1.2
	enabled: Enable TLSv1.2
	disabled: Disable TLSv1.2
ssl_trust_magic	If the traffic manager is receiving traffic sent from another traffic manager, then enabling this option will allow it to decode extra information on the true origin of the SSL connection. This information is supplied by the first traffic manager.
	• From://products/zxtm/lb/virtualserver.cpp:1344
	Value type: Yes / No
	Default value: "No"
ssl_use_ocsp	Whether or not the traffic manager should use OCSP to check the revocation status of client certificates.
	• From://products/zxtm/lb/virtualserver.cpp:1682
	Value type: Yes / No
	Default value: "No"
syslog!enabled	Whether or not to log connections to the virtual server to a remote syslog host.
, ,	• From://products/zxtm/lb/virtualserver.cpp:1930
	Value type: Yes / No
	Default value: "No"
syslog!format	The log format for the remote syslog. This specifies the line of text that will be sent to the remote syslog when a connection to the traffic manager is completed. Many parameters from the connection can be recorded using macros.
	• From://products/zxtm/lb/virtualserver.cpp:1992
	 Requires: syslog!enabled is set to "Yes"
	Value type: string
	• Default value: "%h %l %u %t "%r" %s %b "%{Referer}i" "%{User-agent}i""

Key	Description
syslog!ipendpoint	The remote host and port (default is 514) to send request log lines to.
	• From://products/zxtm/lb/virtualserver.cpp:1944
	Requires: syslog!enabled is set to "Yes"
	Value type: string
	Default value: <none></none>
syslog!msg_len_limit	Maximum length in bytes of a message sent to the remote syslog. Messages longer than this will be truncated before they are sent.
	• From://products/zxtm/lb/virtualserver.cpp:1956
	Requires: syslog!enabled is set to "Yes"
	Value type: unsigned integer
	Default value: "1024"
timeout	A connection should be closed if no additional data has been received for this period of time. A value of 0 (zero) will disable this timeout. Note that the default value may vary depending on the protocol selected.
	• From://products/zxtm/lb/virtualserver.cpp:469
	Value type: seconds
	• Default value: "300"
transparent	Whether or not bound sockets should be configured for transparent proxying.
	• From://products/zxtm/lb/virtualserver.cpp:2085
	• Value type: Yes / No
	Default value: "No"
udp_endpoint_persistence	Whether or not UDP datagrams from the same IP and port are sent to the same node in the pool if there's an existing UDP transaction. Although it's not always guaranteed as while making a decision to reuse the same node, traffic manager can also apply other protocol specific filtering e.g CallID matching for SIP packets in addition to IP and port matching.
	• From://products/zxtm/lb/virtualserver.cpp:1058
	• Value type: Yes / No
	Default value: "Yes"
udp_port_smp	Whether or not UDP datagrams should be distributed across all traffic manager processes. This setting is not recommended if the traffic manager will be handling connection-based UDP protocols.
	• From://products/zxtm/lb/virtualserver.cpp:1041
	• Value type: Yes / No
	Default value: "No"
udp_response_datagrams_expect ed	The virtual server should discard any UDP connection and reclaim resources when the node has responded with this number of datagrams. For simple request/response protocols this can be often set to 1. If set to -1, the connection will not be discarded until the udp_timeout is reached.
	• From://products/zxtm/lb/virtualserver.cpp:1031
	Value type: int
	Default value: "1"

Key	Description
udp_timeout	The virtual server should discard any UDP connection and reclaim resources when no further UDP traffic has been seen within this time.
	• From://products/zxtm/lb/virtualserver.cpp:1015
	Value type: seconds
	Default value: "7"
webcache!control_out	The "Cache-Control" header to add to every cached HTTP response, no-cache or max-age=600 for example.
	• From://products/zxtm/lb/virtualserver.cpp:313
	Value type: string
	• Default value: <none></none>
webcache!enabled	If set to Yes the traffic manager will attempt to cache web server responses.
	• From://products/zxtm/lb/virtualserver.cpp:270
	Value type: Yes / No
	Default value: "No"
webcache!errorpage_time	Time period to cache error pages for.
1 0	• From://products/zxtm/lb/virtualserver.cpp:300
	Value type: seconds
	Default value: "30"
webcache!refresh_time	If a cached page is about to expire within this time, the traffic manager will start to forward some new requests on to the web servers. A maximum of one request per second will be forwarded; the remainder will continue to be served from the cache. This prevents "bursts" of traffic to your web servers when an item expires from the cache. Setting this value to 0 will stop the traffic manager updating the cache before it expires.
	• From://products/zxtm/lb/virtualserver.cpp:292
	Value type: seconds
	Default value: "2"
webcache!time	Maximum time period to cache web pages for.
	• From://products/zxtm/lb/virtualserver.cpp:277
	Value type: seconds
	• Default value: "600"
write_on_connect	If set to Yes the traffic manager will try to write data to a back-end server before it has confirmation that the TCP connection has fully opened, saving time. Some operating systems allow this, but others will return errors and so it is not enabled by default.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/virtualserver.cpp:324
	Value type: Yes / No
	Default value: "No"

conf/zeusafm.conf Configuration Sections

conf/zeusafm.conf

The conf/zeusafm.conf file contains configuration files for the application firewall. Some keys present in the zeusafm.conf are not documented here. Refer to the Brocade Virtual Web Application Firewall documentation for further details. The configuration can be edited under the System > Application Firewall section of the Administration Server or by using functions under the AFM section of the SOAP API and CLI.

Key	Description
clusterPwd	The shared secret that all SAF cluster members use to communicate. Must be set and be consistent across the cluster
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/afm.cpp:104
	Value type: string
	• Default value: <none></none>
decisionServerPort	The port to which the Enforcer rule should send traffic so it can be distributed between the decider processes.
	• From://products/zxtm/lb/afm.cpp:93
	Value type: unsigned integer
	• Default value: "8100"
restServerIP	The Application Firewall REST Internal IP Address, always set to localhost when the traffic manager's REST API is enabled, otherwise blank.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/afm.cpp:69
	Value type: string
	• Default value: "127.0.0.1"
restServerUseSSL	If the Application Firewall should use SSL for its Internal REST server always set to No currently
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/afm.cpp:78
	Value type: Yes / No
	Default value: "No"
updaterPort	The Application Firewall Updater Slave Port, this port is used on all IP addresses.
	• From://products/zxtm/lb/afm.cpp:57
	Value type: unsigned integer
	• Default value: "8092"

conf/zxtms

The conf/zxtms directory contains a configuration file for each traffic manager in your cluster. The name of each file is the hostname of the traffic manager it represents. These files contain host-specific configuration data and on each installation of the software, the conf/../global.cfg file is sym-linked to the host's own configuration in the conf/zxtms directory. The files may contain a variety of configuration options that are configured in various locations under the System section of the Admin Server UI and the System section of the SOAP API and CLI.

Key	Description
adminMasterXMLIP	The Application Firewall master XML IP.
	• From://products/zxtm/lb/config.cpp:1474
	Value type: string
	• Default value: "0.0.0.0"
adminMasterXMLPort	The Application Firewall XML Master port, this port is used on all IP addresses.
	• From://products/zxtm/lb/config.cpp:1388
	Value type: unsigned integer
	Default value: "0"
adminServerPort	The Application Firewall Administration Server port, this port is only open on localhost.
	• From://products/zxtm/lb/config.cpp:1418
	Value type: unsigned integer
	Default value: "0"
adminSlaveXMLIP	The Application Firewall slave XML IP.
	• From://products/zxtm/lb/config.cpp:1486
	Value type: string
	• Default value: "0.0.0.0"
adminSlaveXMLPort	The Application Firewall XML Slave port, this port is used on all IP addresses.
	• From://products/zxtm/lb/config.cpp:1402
	Value type: unsigned integer
	• Default value: "0"
aod-magic-fixed-decider-base- port	The base port from which the Application Firewall decider processes should run. Ports will be used sequentially above this for each additional decider process that runs.
	• From://products/zxtm/lb/config.cpp:1341
	Value type: unsigned integer
	Default value: "0"

Key	Description
appliance!enabled	Whether or not "appliance" features are enabled.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:569
	• Value type: Yes / No
	Default value: "Yes"
appliance!gateway	The default gateway.
	• From://products/zxtm/lb/config.cpp:823
	Value type: string
	• Default value: <none></none>
appliance!gateway6	The default IPv6 gateway.
	• From://products/zxtm/lb/config.cpp:832
	Value type: string
	• Default value: <none></none>
appliance!hostname	Name (hostname.domainname) of the appliance.
	• From://products/zxtm/lb/config.cpp:807
	Value type: string
	• Default value: <none></none>
appliance!hosts!*	Static host name entries to be placed in the /etc/hosts file. The * (asterisk) in the key name is the host name, the value is the IP address.
	• From://products/zxtm/lb/config.cpp:988
	Value type: string
	• Default value: <none></none>
appliance!if!*!autoneg	Enable or disable auto-negotiation for an interface, the interface name is used in place of the * (asterisk).
	• From://products/zxtm/lb/config.cpp:741
	Value type: Yes / No
	• Default value: <none></none>
appliance!if!*!bmode	Trunking mode (only 802.3ad is currently supported).
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:760
	Value type: enumeration
	• Default value: <none></none>
	Permitted values:
	802.3ad: IEEE 802.3ad
	balance-alb: Adaptive Load Balancing
appliance!if!*!bond	Make this interface a member of the specified trunk.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:751
	From://products/zxtm/lb/config.cpp:751Value type: string

Key	Description
appliance!if!*!duplex	Enable or disable full-duplex for an interface, the interface name is used in place of the * (asterisk).
	• From://products/zxtm/lb/config.cpp:771
	Value type: Yes / No
	• Default value: <none></none>
appliance!if!*!mtu	Set the maximum transmission unit (MTU) of the interface.
	• From://products/zxtm/lb/config.cpp:791
	Value type: unsigned integer
	• Default value: <none></none>
appliance!if!*!speed	Set the speed of an interface, the interface name is used in place of the * (asterisk).
	• From://products/zxtm/lb/config.cpp:782
	Value type: enumeration
	• Default value: <none></none>
	Permitted values:
	10: 10Mbs
	100: 100Mbs
	1000: 1Gbs
appliance!ip!*!addr	Set the IP address for the interface, the interface name is used in place of the * (asterisk).
	• From://products/zxtm/lb/config.cpp:688
	Value type: string
	• Default value: <none></none>
appliance!ip!*!isexternal	Set whether or not an interface is externally or internally facing, the interface name is used in place of the * (asterisk).
	• From://products/zxtm/lb/config.cpp:711
	Value type: Yes / No
	Default value: <none></none>
appliance!ip!*!mask	Set the IP mask (netmask) for an interface, the interface name is used in place of the * (asterisk).
	• From://products/zxtm/lb/config.cpp:700
	Value type: string
	Default value: <none></none>
appliance!ip!ipmi!errlimit	Number of consecutive unexpected errors allowed from ipmitool before reporting. If set to 0 all unexpected errors are reported, otherwise one is reported from each consecutive series of at least that many errors.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:723
	Value type: unsigned integer
	• Default value: "10"

Key	Description
appliance!ipv4_forwarding	Whether or not IPv4 forwarding is enabled.
	• From://products/zxtm/lb/config.cpp:1003
	Value type: Yes / No
	Default value: "No"
appliance!ipv6_forwarding	Whether or not IPv6 forwarding is enabled.
	• From://products/zxtm/lb/config.cpp:1010
	Value type: Yes / No
	Default value: "No"
appliance!licence_agreed	Whether or not the license agreement has been accepted. This determines whether or not the Initial Configuration wizard is displayed.
	• From://products/zxtm/lb/config.cpp:1058
	Value type: Yes / No
	Default value: "No"
appliance!manageazureroutes	Whether or not the software manages the Azure policy routing.
	• From://products/zxtm/lb/global_cfg_keys.cpp:28
	Value type: Yes / No
	• Default value: "Yes"
appliance!managebootloader	Whether or not the software manages the system bootloader's password
	• From://products/zxtm/lb/config.cpp:591
	Value type: Yes / No
	Default value: "Yes"
appliance!managecron	Whether or not the software manages the system's cronjobs to ensure they are running as the correct user.
	• From://products/zxtm/lb/config.cpp:584
	Value type: Yes / No
	Default value: "Yes"
appliance!manageec2conf	Whether or not the software manages the EC2 config.
	• From://products/zxtm/lb/global_cfg_keys.cpp:85
	Value type: Yes / No
	Default value: "Yes"
appliance!managegateway	Whether or not the software manages the system's gateway configuration.
	• From://products/zxtm/lb/config.cpp:814
	Value type: Yes / No
	Default value: "Yes"
appliance!managehostname	Whether or not the software manages the system's hostname.
	• From://products/zxtm/lb/config.cpp:798
	Value type: Yes / No
	Default value: "Yes"

Key	Description
appliance!managehosts	Whether or not the software manages the system's /etc/hosts file.
	• From://products/zxtm/lb/config.cpp:975
	Value type: Yes / No
	Default value: "Yes"
appliance!manageif	Whether or not the software manages system's network interfaces.
	• From://products/zxtm/lb/config.cpp:731
	Value type: Yes / No
	Default value: "Yes"
appliance!manageip	Whether or not the software manages the system's IP addresses.
	• From://products/zxtm/lb/config.cpp:676
	Value type: Yes / No
	Default value: "Yes"
appliance!manageipmi	Whether or not the software manages the system's IPMI configuration.
	• From://products/zxtm/lb/config.cpp:1025
	Value type: Yes / No
	Default value: "Yes"
appliance!manageiptrans	Whether or not the software manages the IP transparency
	• From://products/zxtm/lb/config.cpp:598
	Value type: Yes / No
	Default value: "Yes"
appliance!managenat	Whether or not the software manages the system's NAT configuration.
	• From://products/zxtm/lb/config.cpp:996
	Value type: Yes / No
	Default value: "Yes"
appliance!managentpservers	Whether or not the software manages which NTP servers the system uses.
	• From://products/zxtm/lb/config.cpp:659
	Value type: Yes / No
	Default value: "Yes"
appliance!manageresolver	Whether or not the software manages the system's name resolution (i.e. the / etc/resolv.conf file).
	• From://products/zxtm/lb/config.cpp:841
	Value type: Yes / No
	Default value: "Yes"
appliance!managereturnpath	Whether or not the software manages return path routing. If disabled, the appliance won't modify iptables / rules / routes for this feature.
	• From://products/zxtm/lb/config.cpp:966
	Value type: Yes / No
	Default value: "Yes"

Key	Description
appliance!manageroute	Whether or not the software manages the system's routing tables.
	• From://products/zxtm/lb/config.cpp:906
	Value type: Yes / No
	• Default value: "Yes"
appliance!manageshim	Whether or not the software manages the Riverbed Cloud SteelHead discovery agent if it is installed on the system.
	• From://products/zxtm/lb/config.cpp:1066
	Value type: Yes / No
	Default value: "Yes"
appliance!managesnmp	Whether or not the software manages a system net-snmp service as a proxy to the internal SNMP service.
	• From://products/zxtm/lb/config.cpp:1018
	Value type: Yes / No
	Default value: "Yes"
appliance!managessh	Whether or not the software manages the system's SSH server settings.
	• From://products/zxtm/lb/config.cpp:873
	Value type: Yes / No
	Default value: "Yes"
appliance!managesysctl	Whether or not the software manages user specified sysctl keys.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:1209
	Value type: Yes / No
	• Default value: "Yes"
appliance!managetimezone	Whether or not the software manages the system's timezone setting.
	• From://products/zxtm/lb/config.cpp:576
	Value type: Yes / No
	Default value: "Yes"
appliance!manageusers	Whether or not the software manages system users. If enabled then users in the software's 'admin' group will be able to log into the system as a local 'admin' user with root privileges and the local 'root' user will have its password kept in sync with the software's 'admin' user.
	• From://products/zxtm/lb/config.cpp:1035
	Value type: Yes / No
	Default value: "Yes"
appliance!managevpcconf	Whether or not the software manages the EC2-VPC secondary IPs.
	• From://products/zxtm/lb/global_cfg_keys.cpp:78
	Value type: Yes / No
	• Default value: "Yes"

Key	Description
appliance!nameservers	The IP addresses of the nameservers the appliance should use and place in $/$ etc/resolv.conf.
	• From://products/zxtm/lb/config.cpp:853
	Value type: string
	• Default value: <none></none>
appliance!ntpservers	The NTP servers the appliance should use to synchronize its clock.
	• From://products/zxtm/lb/config.cpp:669
	Value type: string
	Default value: "0.vyatta.pool.ntp.org 1.vyatta.pool.ntp.org 2.vyatta.pool.ntp.org 3.vyatta.pool.ntp.org"
appliance!routes!*!gw	One of the keys used to specify a route. The IP of the route destination is used in place of the * (asterisk) and the value is the gateway IP to configure for the route. See also appliance!routes!mask and appliance!routes!if.
	• From://products/zxtm/lb/config.cpp:940
	Value type: string
	Default value: <none></none>
appliance!routes!*!if	One of the keys used to specify a route. The IP of the route destination is used in place of the * (asterisk) and the value is the network interface to configure for the route. See also appliance!routes!mask and appliance!routes!gw.
	• From://products/zxtm/lb/config.cpp:957
	Value type: string
	• Default value: <none></none>
appliance!routes!*!mask	One of the keys used to specify a route. The IP of the route destination is used in place of the * (asterisk) and the value is the netmask to apply to the IP. See also appliance!routes!gw and appliance!routes!if.
	• From://products/zxtm/lb/config.cpp:923
	Value type: string
	• Default value: <none></none>
appliance!searchdomains	The search domains the appliance should use and place in /etc/resolv.conf.
	• From://products/zxtm/lb/config.cpp:865
	Value type: string
	• Default value: <none></none>
appliance!shim!clientid	The client ID provided by the portal for this server.
	• From://products/zxtm/lb/config.cpp:1117
	• Requires: appliance!shim!mode is set to "(portal local)" (case insensitive)
	Value type: string
	• Default value: <none></none>
appliance!shim!clientkey	The client key provided by the portal for this server.
·	• From://products/zxtm/lb/config.cpp:1129
	• Requires: appliance!shim!mode is set to "(portal local)" (case insensitive)
	Value type: string
	• Default value: <none></none>

Key	Description
appliance!shim!enabled	Enable the Riverbed Cloud SteelHead discovery agent on this appliance.
	• From://products/zxtm/lb/config.cpp:1075
	Value type: Yes / No
	Default value: "No"
appliance!shim!ips	The IP addresses of the Riverbed Cloud SteelHeads to use, as a space or comma separated list. If using priority load balancing this should be in ascending order of priority (highest priority last).
	• From://products/zxtm/lb/config.cpp:1198
	Requires: appliance!shim!mode is set to "manual"
	Value type: string
	Default value: <none></none>
appliance!shim!load_balance	The load balancing method for selecting a Riverbed Cloud SteelHead appliance.
	• From://products/zxtm/lb/config.cpp:1183
	Requires: appliance!shim!mode is set to "manual"
	Value type: enumeration
	Default value: "round_robin"
	Permitted values:
	round_robin: Round Robin
	priority: Priority
appliance!shim!log_level	The minimum severity that the discovery agent will record to its log.
	• From://products/zxtm/lb/config.cpp:1091
	Value type: enumeration
	Default value: "5"
	Permitted values:
	2: Critical
	3: Serious
	4: Warning
	5: Notice
	6: Info
	7: Debug
appliance!shim!mode	The mode used to discover Riverbed Cloud SteelHeads in the local cloud or data center.
	• From://products/zxtm/lb/config.cpp:1105
	Value type: enumeration
	Default value: "portal"
	Permitted values:
	portal: Riverbed Portal
	local: Local Portal
	manual: Manual

Key	Description
appliance!shim!portal_url	The hostname or IP address of the local portal to use.
	• From://products/zxtm/lb/config.cpp:1142
	Requires: appliance!shim!mode is set to "local"
	Value type: string
	• Default value: <none></none>
appliance!shim!proxyhost	The IP or hostname of the proxy server to use to connect to the portal. Leave blank to not use a proxy server.
	• From://products/zxtm/lb/config.cpp:1155
	• Requires: appliance!shim!mode is set to "(portal local)" (case insensitive)
	Value type: string
	• Default value: <none></none>
appliance!shim!proxyport	The port of the proxy server, must be set if a proxy server has been configured.
	• From://products/zxtm/lb/config.cpp:1169
	 Requires: appliance!shim!mode is set to "(portal local)\$/ && VAL{appliance!shim!proxyhost}!~/^s*" (case insensitive)
	Value type: string
	• Default value: <none></none>
appliance!ssh!enabled	Whether or not the SSH server is enabled on the appliance.
	• From://products/zxtm/lb/config.cpp:881
	• Value type: Yes / No
	Default value: "Yes"
appliance!ssh!passwordallowed	Whether or not the SSH server allows password based login.
	• From://products/zxtm/lb/config.cpp:899
	• Value type: Yes / No
	• Default value: "Yes"
appliance!ssh!port	The port that the SSH server should listen on.
	• From://products/zxtm/lb/config.cpp:890
	Value type: unsigned integer
	• Default value: "22"
appliance!sysctl!*!description	Comments for user specified sysctl keys.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:1229
	Value type: string
	Default value: <none></none>
appliance!sysctl!*!value	User specified sysctl values for sysctl keys.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:1219
	Value type: string
	• Default value: <none></none>

Key	Description
appliance!timezone	The timezone the appliance should use. This must be a path to a timezone file that exists under /usr/share/zoneinfo/.
	• From://products/zxtm/lb/config.cpp:651
	Value type: string
	Default value: "US/Pacific"
appliance!vlans	The VLANs the software should raise. A VLAN should be configured using the format <dev>.<vlanid>, where <dev> is the name of a network device that exists in the host system, eth0.100 for example.</dev></vlanid></dev>
	• From://products/zxtm/lb/config.cpp:1050
	Value type: list
	• Default value: <none></none>
authenticationServerIP	The Application Firewall Authentication Server IP.
	• From://products/zxtm/lb/config.cpp:1498
	Value type: string
	• Default value: "0.0.0.0"
autodiscover!product_id	This key overrides the product ID used by traffic manager instances to discover each other when clustering. Traffic managers will only discover each other if their product IDs are the same and their versions are compatible.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:261
	Value type: string
	Default value: "ZXTM"
bind_one	If set to Yes all connections to a given IP will always be handled by the same software process.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:424
	Value type: Yes / No
	Default value: "No"
cloud_platform	Cloud platform where the traffic manager is running.
•	• From://products/zxtm/lb/config.cpp:1239
	Value type: string
	• Default value: <none></none>
control!bindip	The IP address that the software should bind to for internal administration communications. See also controlport. If the software is not part of a cluster the default is to use 127.0.0.1 and there should be no reason to touch this setting. If the software is part of a cluster then the default is to listen on all raised IPs, in this case an alternative configuration is to listen on a single IP address. This may be useful if you have a separate management network and wish to restrict control messages to it. It is important to ensure that the controlallow (in the conf/settings.cfg file) is compatible with the IP configured here.
	• From://products/zxtm/lb/config.cpp:190
	Value type: string
	Default value: "*"

Key	Description
control!canupdate	Whether or not this instance of the software can send configuration updates to other members of the cluster. When not clustered this key is ignored. When clustered the value can only be changed by another machine in the cluster that has control!update set to Yes. If set to No then it will not be possible to log into the admin server for this instance.
	• From://products/zxtm/lb/config.cpp:249
	• Value type: Yes / No
	Default value: "Yes"
control!certificate	The public part of the security certificate used to identify this traffic manager for the purposes of command and control messages.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:225
	Value type: string
	• Default value: <none></none>
control!verbose	Whether or not the control port should be verbose about connection errors. Enable for debugging control port problems.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:234
	Value type: Yes / No
	Default value: "No"
controlport	The port that the software should listen on for internal administration communications. See also control!bindip.
	• From://products/zxtm/lb/config.cpp:168
	Value type: unsigned integer
	Default value: "9080"
decisionServerPortBase	The Application Firewall internal communication base port. The Application Firewall will use ports sequentially above this for internal communication. These ports are bound only to localhost.
	• From://products/zxtm/lb/config.cpp:1374
	Value type: unsigned integer
	Default value: "10000"
disk_serious	The percentage level of disk usage that triggers a SERIOUS event log entry
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:556
	Value type: unsigned integer
	Default value: "95"
disk_warn	The percentage level of disk usage that triggers a WARN event log entry
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:547
	Value type: unsigned integer
	Default value: "85"

Key	Description
ec2!availability_zone	The availability zone of this EC2 instance, should be set when the appliance is first booted. Not required for non-EC2 systems.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	 From://products/zxtm/lb/global_cfg_keys.cpp:53
	Value type: string
	• Default value: <none></none>
ec2!instanceid	The EC2 instance ID of this EC2 virtual appliance, should be set when the appliance is first booted. Not required for non-EC2 systems.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	 From://products/zxtm/lb/global_cfg_keys.cpp:42
	Value type: string
	• Default value: <none></none>
ec2!trafficips!public_enis	List of MAC addresses of interfaces which the traffic manager can use to associate the EC2 elastic IPs (Traffic IPs) to the instance.
	• From://products/zxtm/lb/global_cfg_keys.cpp:97
	Value type: list
	• Default value: <none></none>
ec2!vpcid	The ID of the VPC the instance is in, should be set when the appliance is first booted. Not required for non-VPC EC2 or non-EC2 systems.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/global_cfg_keys.cpp:65
	Value type: string
	• Default value: <none></none>
externalip	This is the optional external ip of the traffic manager, which is used to circumvent natting when traffic managers in a cluster span different networks.
	• From://products/zxtm/lb/config.cpp:1266
	Value type: string
	• Default value: <none></none>
flipper!bgp_router_id	The BGP router id
	If set to empty, then the IPv4 address used to communicate with the default IPv4 gateway is used instead. $$
	Specifying $0.0.0.0$ will stop the traffic manager routing software from running the BGP protocol.
	• From://products/zxtm/flipper/config.cpp:628
	Value type: string
	• Default value: <none></none>

Key	Description
flipper!ospfv2_ip	The traffic manager's permanent IPv4 address which the routing software will use for peering and transit traffic, and as its OSPF router ID.
	If set to empty, then the address used to communicate with the default IPv4 gateway is used instead.
	Specifying 0.0.0.0 will stop the traffic manager routing software from running the OSPF protocol.
	• From://products/zxtm/flipper/config.cpp:614
	Value type: string
	• Default value: <none></none>
flipper!ospfv2_neighbor_addrs	The IP addresses of routers which are expected to be found as OSPFv2 neighbors of the traffic manager. A warning will be reported if some of the expected routers are not peered, and an error will be reported if none of the expected routers are peered. An empty list disables monitoring. The special value %gateway% is a placeholder for the default gateway.
	• From://products/zxtm/lb/config.cpp:494
	Value type: list
	Default value: "%gateway%"
flipper!rhi_support	This key does nothing.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:468
	• Value type: Yes / No
	Default value: "No"
flipper!routing_sw_log_level	The routing software log level. Values are: 0 - emergency 1 - alert 2 - critical 3 - error 4 - warning 5 - notification 6 - informational 7 - debug Messages with priority less or equal to the set level will be logged.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/flipper/config.cpp:647
	Value type: unsigned integer
	• Default value: "4"
gid	The group ID that the software's worker processes will run as. For example, on typical Linux installations this could be set to 65534 for the unprivileged "nobody" group.
	• From://products/zxtm/lb/config.cpp:152
	Value type: string
	• Default value: <none></none>
iptables!config_enabled	Whether the Traffic Manager should configure the iptables built-in chains to call Traffic Manager defined rules (e.g. the IP transparency chain). This should only be disabled in case of conflict with other software that manages iptables, e.g. firewalls. When disabled, you will need to add rules manually to use these features - see the user manual for details.
	• From://products/zxtm/lb/config.cpp:608
	• Value type: Yes / No
	Default value: "Yes"

Key	Description
iptrans!chain	The iptables named chain to use for IP transparency rules.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:626
	Value type: string
	Default value: "STM_IPTrans"
iptrans!fwmark	The netfilter forwarding mark to use for IP transparency rules
	• From://products/zxtm/lb/config.cpp:632
	Value type: unsigned integer
	Default value: "320"
iptrans!iptables_enabled	Whether IP transparency may be used via netfilter/iptables. This requires Linux 2.6.24 and the iptables socket extension. For older Linux versions, the "ztrans" kernel module may be used instead.
	• From://products/zxtm/lb/config.cpp:616
	• Value type: Yes / No
	Default value: "Yes"
iptrans!routing_table	The special routing table ID to use for IP transparency rules
	• From://products/zxtm/lb/config.cpp:639
	Value type: unsigned integer
	Default value: "320"
java!port	The port the Java Extension handler process should listen on. This port will be bound for localhost communications only.
	• From://products/zxtm/lb/config.cpp:269
	Value type: unsigned integer
	• Default value: "9060"
kerberos!hostname	The hostname to use in Kerberos principal names.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:1302
	Value type: string
	• Default value: <none></none>
kerberos!num_kpt_threads	How many worker threads the Kerberos Protocol Transition helper process will use.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:1311
	Value type: unsigned integer

Key	Description
kmod_policy	The policy for loading and unloading kernel modules
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:451
	Value type: enumeration
	Default value: "enabled"
	Permitted values:
	enabled: Load modules when required, unload performance impacting modules when not required
	nounload: Load modules when required, no automatic unloading
	disabled: Do not load or unload kernel modules
location	This is the location of the local traffic manager is in.
	• From://products/zxtm/lb/config.cpp:1252
	Value type: string
	• Default value: <none></none>
nameip	Replace Traffic Manager name with an IP address.
	• From://products/zxtm/lb/config.cpp:538
	Value type: string
	 Default value: <none></none>
num_aptimizer_threads	How many worker threads the Aptimizer process should create to optimise content. By default, one thread will be created for each CPU on the system.
	• From://products/zxtm/aptimizer/config.cpp:30
	Value type: unsigned integer
	Default value: "0"
num_children	The number of worker processes the software will run. By default, one child process will be created for each CPU on the system. You may wish to reduce this to effectively "reserve" CPU(s) for other processes running on the host system.
	• From://products/zxtm/lb/config.cpp:120
	Value type: unsigned integer
	Default value: "0"
numberOfCPUs	The number of Application Firewall decider process to run.
	• From://products/zxtm/lb/config.cpp:1324
	Value type: unsigned integer
	Default value: "0"
replicate_config_log_max	The size (in kb) of the config replication log before it gets truncated. A zero value implies no truncation takes place.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:1285
	Value type: unsigned integer
	Default value: "5120"

Key	Description
replicate_config_truncate_size	The size (in kb) the config replication log will get truncated to.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:1293
	Value type: unsigned integer
	Default value: "1"
rest!bindips	A list of IP Addresses which the REST API will listen on for connections. The list should contain IP addresses (IPv4 or IPv6) or a single entry containing an asterisk (*). This indicates that the REST API should listen on all IP Addresses.
	• From://products/zxtm/lb/config.cpp:213
	Value type: list
	Default value: "*"
rest!port	The port on which the REST API should listen for requests.
	• From://products/zxtm/lb/config.cpp:199
	Value type: unsigned integer
	• Default value: "9070"
restServerPort	The Application Firewall REST Internal API port, this port should not be accessed directly
	• From://products/zxtm/lb/config.cpp:1356
	Value type: unsigned integer
	• Default value: "0"
securityworld	The security world the traffic manager is in.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:1276
	Value type: string
	• Default value: <none></none>
snmp!allow	Restrict which IP addresses can access the SNMP command responder service. The value can be all, localhost, or a list of IP CIDR subnet masks. For example $10.100.0.0/16$ would allow connections from any IP address beginning with 10.100 .
	• From://products/zxtm/lb/config.cpp:383
	Value type: list
	Default value: "all"
snmp!auth_password	The authentication password. Required (minimum length 8 bytes) if snmp!security_level includes authentication.
	• From://products/zxtm/lb/config.cpp:326
	 Requires: snmp!security_level is set to "authNoPriv"
	Value type: password
	Default value: <none></none>

Key	Description
snmp!bindip	The IP address the SNMP service should bind its listen port to. The value * (asterisk) means SNMP will listen on all IP addresses.
	• From://products/zxtm/lb/config.cpp:369
	Value type: string
	• Default value: "*"
snmp!community	The community string required for SNMPv1 and SNMPv2c commands. (If empty, all SNMPv1 and SNMPv2c commands will be rejected).
	• From://products/zxtm/lb/config.cpp:303
	Value type: string
	Default value: "public"
snmp!enabled	Whether or not the SNMP command responder service should be enabled on this traffic manager.
	• From://products/zxtm/lb/config.cpp:274
	Value type: Yes / No
	Default value: "No"
snmp!hash_alg	The hash algorithm for authenticated SNMPv3 communications.
	• From://products/zxtm/lb/config.cpp:335
	 Requires: snmp!security_level is set to "authNoPriv"
	Value type: enumeration
	• Default value: "md5"
	Permitted values:
	md5: MD5
	sha1: SHA-1
snmp!port	The port the SNMP command responder service should listen on. The value default denotes port 161 if the software is running with root privileges, and 1161 otherwise.
	• From://products/zxtm/lb/config.cpp:294
	Value type: string
	Default value: "default"
snmp!priv_password	The privacy password. Required (minimum length 8 bytes) if snmp!security_level includes privacy (message encryption).
	• From://products/zxtm/lb/config.cpp:357
	 Requires: snmp!security_level is set to "authPriv"
	Value type: password
	• Default value: <none></none>

Key	Description
snmp!security_level	The security level for SNMPv3 communications.
	• From://products/zxtm/lb/config.cpp:312
	Value type: enumeration
	Default value: "noAuthNoPriv"
	Permitted values:
	noAuthNoPriv: No Authentication, No Privacy
	authNoPriv: Authentication only
	authPriv: Authentication and Privacy
snmp!username	The username required for SNMPv3 commands. (If empty, all SNMPv3 commands will be rejected).
	• From://products/zxtm/lb/config.cpp:343
	Value type: string
	• Default value: <none></none>
soap!max_requests	The maximum SOAP requests before the SOAP processes restarts. Set to 0 to disable.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:518
	Value type: unsigned integer
	• Default value: "0"
start_flipper	Whether or not to start the flipper process.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:432
	Value type: Yes / No
	Default value: "Yes"
start_sysd	Whether or not to start the sysd process on software installations. Appliance and EC2 will always run sysd regardless of this config key.
	DO NOT SET OR MODIFY THIS KEY MANUALLY.
	• From://products/zxtm/lb/config.cpp:441
	Value type: Yes / No
	Default value: "Yes"
trafficip!*!networks	A configuration of networks keyed by interface, used by flipper to choose an interface to raise a Traffic IP on.
	• From://products/zxtm/flipper/config.cpp:658
	Value type: list
	• Default value: <none></none>
uid	The user ID that the software's worker processes will run as. For example, on typical Linux installations this could be set to 65534 for the unprivileged "nobody" user.
	• From://products/zxtm/lb/config.cpp:141
	Value type: string
	• Default value: <none></none>

Key	Description
updateControlCenterPort	The Application Firewall Updater GUI Backend Port, this port is used on localhost only.
	• From://products/zxtm/lb/config.cpp:1462
	Value type: unsigned integer
	• Default value: "0"
updateExternControlCenterPort	The Application Firewall Updater External Control Center Port, this port is used on localhost only.
	• From://products/zxtm/lb/config.cpp:1447
	Value type: unsigned integer
	• Default value: "8091"
updateGUIServerPort	The Application Firewall Updater GUI Server Port, this port is used on localhost only.
	• From://products/zxtm/lb/config.cpp:1433
	Value type: unsigned integer
	• Default value: "0"
updaterIP	The Application Firewall Updater IP.
	• From://products/zxtm/lb/config.cpp:1510
	Value type: string
	• Default value: "0.0.0.0"