

# **McAfee ePolicy Orchestrator 4.5 Installation Guide**

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# Pre-Installation

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Before installing ePolicy Orchestrator 4.5, review these requirements and recommendations.

## Contents

- ▶ [System requirements](#)
- ▶ [Supported products and components](#)
- ▶ [Operating systems language support](#)

## System requirements

Verify that your environment meets the minimum requirements listed here:

- Server and Agent Handler
- Database
- Distributed repositories

## Server and Agent Handler requirements

**Free disk space** — 1 GB minimum (first-time installation); 1.5 GB minimum (upgrade); 2 GB recommended.

**Memory** — 1 GB available RAM; 2–4 GB recommended.

**Processor** — Intel Pentium III-class or higher; 1 GHz or higher.

**Monitor** — 1024x768, 256-color, VGA monitor.

**NIC** — Network interface card; 100 MB or higher.

**NOTE:** If using a server with more than one IP address, ePolicy Orchestrator uses the first identified IP address. If you want to use additional IP addresses for agent-server communication, see *Installing an Agent Handler*.

**Dedicated server** — If managing more than 250 computers, McAfee recommends using a dedicated server.

**File system** — NTFS (NT file system) partition recommended.

**IP address** — McAfee recommends using static IP addresses for ePO servers.

**Server-class operating system** — 32bit or 64bit

- Windows Server 2003 Enterprise with Service Pack 2 or later
- Windows Server 2003 Standard with Service Pack 2 or later
- Windows Server 2003 Web with Service Pack 2 or later
- Windows Server 2003 R2 Enterprise with Service Pack 2 or later

- Windows Server 2003 R2 Standard with Service Pack 2 or later
- Windows Server 2008

**NOTE:** Installation is blocked if you attempt to install on a version of Windows earlier than Server 2003. In addition, ePolicy Orchestrator stops functioning if, after having been installed on Windows Server 2003, the server is upgraded to Windows Server 2008.

### Browser

- Firefox 3.0
- Microsoft Internet Explorer 7.0 or 8.0

If using Internet Explorer and a proxy, follow these steps to bypass the proxy server.

- 1** From the **Tools** menu in Internet Explorer, select **Internet Options**.
- 2** Select the **Connections** tab and click **LAN Settings**.
- 3** Select **Use a proxy server for your LAN**, then select **Bypass proxy server** for local addresses.
- 4** Click **OK** as needed to close Internet Options.

**Domain controllers** — The server must have a trust relationship with the Primary Domain Controller (PDC) on the network. For instructions, see the Microsoft product documentation.

### Security software

- Install and/or update the anti-virus software on the ePolicy Orchestrator server and scan for viruses.

**CAUTION:** If running VirusScan Enterprise 8.5i or 8.7i on the system where you are installing ePolicy Orchestrator, you must ensure that the VSE Access Protection rules are disabled during the installation process, or the installation fails.

- Install and/or update firewall software on the ePolicy Orchestrator server.

### Ports

- McAfee recommends avoiding the use of Port 8443 for HTTPS communication. Although this is the default port, it is also the primary port used by many web-based activities, is a popular target for malicious exploitation, and it is likely to be disabled by the system administrator in response to a security violation or outbreak.

**NOTE:** Ensure that the ports you choose are not already in use on the ePolicy Orchestrator server computer.

- Notify the network staff of the ports you intend to use for HTTP and HTTPS communication via ePolicy Orchestrator.

**NOTE:** Installing the software on a Primary Domain Controller (PDC) is supported, but not recommended.

### Supported virtual infrastructure software

- VMware ESX 3.5.x
- Microsoft Virtual Server 2005 R2 with Service Pack 1
- Windows Server 2008 Hyper-V

## Database requirements

### Microsoft updates and patches

Update both the ePO server and the database server with the latest Microsoft security updates. If you are upgrading from MSDE 2000 or SQL 2000, be sure to follow Microsoft's required upgrade scenarios.

### Databases supported for use with ePolicy Orchestrator

- SQL Server 2005 Express. This database is included with ePolicy Orchestrator for use in environments where there is no supported database available.
- SQL Server 2005.
- SQL Server 2008 Express.
- SQL Server 2008.

**NOTE:** Use of ePolicy Orchestrator with MSDE 2000 or SQL 2000 (or earlier) is not supported.

### Database installation documented in this Guide

The only database installation scenario described in detail is a first-time installation of SQL Server 2005 Express. In this scenario, the ePOSetup installs both the ePolicy Orchestrator software and the database on the same server. If the database is to be installed on a different server from the ePolicy Orchestrator software, manual installation is required on the remote servers.

### Other relevant database installations and upgrades

See the documentation provided by the database manufacturer for information about the following installation scenarios:

- Installing SQL Server 2005.
- Installing SQL Server 2008.
- Upgrading from MSDE 2000.
- Upgrading from SQL 2000.
- Upgrading from SQL 2005.
- Upgrading from SQL 2005 Express.
- **Maintenance settings** — McAfee recommends making specific maintenance settings to ePO databases. For instructions, see *Maintaining ePO databases* in the *ePolicy Orchestrator Help*.

### SQL Server

- **Dedicated server and network connection** — Use a dedicated server and network connection if managing more than 5,000 client computers.
- **Local database server** — If using SQL Server on the same system as the ePOserver, McAfee recommends using a fixed memory size in Enterprise Manager that is approximately two-thirds of the total memory for SQL Server. For example, if the computer has 1GB of RAM set 660MB as the fixed memory size for SQL Server.

- **SQL Server licenses** — If using SQL Server, a SQL Server license is required for each processor on the computer where SQL Server is installed.

**CAUTION:** If the minimum number of SQL Server licenses is not available after you install the SQL Server software, you may have issues installing or starting the ePolicy Orchestrator software.

## Database considerations

### Using ePolicy Orchestrator with a database

A database must be installed before ePolicy Orchestrator can be installed. Any of the following databases, if previously installed, meets this requirement.

- SQL Server 2005
- SQL 2005 Express
- SQL 2008
- SQL 2008 Express

**NOTE:** SQL 2000 is not supported.

If none of those databases was previously installed, the ePO installation wizard detects that no database is present and offers you the opportunity to install SQL Server 2005 Express.

The following tables provide additional information about the database choices and other software requirements.

Database	Requirements	Note
SQL Server 2005 or SQL Server 2008	Dedicated server and network connection	Needed if managing more than 5,000 computers.
	Local database server	If the database and ePO server are on the same system, McAfee recommends using a fixed memory size in Enterprise Manager or SQL Server Management Studio that is approximately two-thirds of the total memory for SQL Server. For example, if the computer has 1 GB of RAM, set 660 MB as the fixed memory size for SQL Server.
	Licenses	A license is required for each processor on the computer where SQL Server is installed. If the minimum number of SQL Server licenses is not available, you might have difficulty installing or starting the ePolicy Orchestrator software.
SQL Server 2005 Express	.NET Framework	You must acquire and install.

Software	Note
MSXML 6.0	<p>You must acquire and install.</p> <ol style="list-style-type: none"> <li>1 From the Internet Explorer <b>Tools</b> menu, select <b>Windows Update</b>.</li> <li>2 Click <b>Custom</b>, then select <b>Software</b>.</li> <li>3 Select <b>MSXML6</b>.</li> <li>4 Select <b>Review and install updates</b>, then click <b>Install Updates</b>.</li> </ol>



Software	Note
Internet Explorer 7 or 8, or Firefox 3.0	You must acquire and install.
.NET Framework 2.0	You must acquire and install if using SQL Server 2005 Express.
Microsoft Visual C++ Redistributable	If not previously installed, the installation wizard installs automatically.
Microsoft Visual C++ Redistributable - x86 9.0.21022	If not previously installed, the installation wizard installs automatically.
MDAC 2.8	If not previously installed, the installation wizard installs automatically.
SQL Server 2005 Backward Compatibility	If not previously installed, the installation wizard installs automatically.
SQL Server 2005 Express	If no other database has been previously installed, this database can be installed automatically at user's selection.
Microsoft updates	Update the ePolicy Orchestrator server and the database server with the most current updates and patches.
MSI 3.1	The installation fails if using a version of MSI previous to MSI 3.1.

### Database installation documented in this guide

The only database installation scenario described in detail is a first-time installation of SQL Server 2005 Express. In this scenario, the ePolicy Orchestrator Setup installs both the ePolicy Orchestrator software and the database on the same server. If the database is to be installed on a different server from the ePolicy Orchestrator software, manual installation of SQL is required on the remote server.

### Other relevant database installations and upgrades

See the documentation provided by the database manufacturer for information about the following installation scenarios:

- Installing SQL Server 2005 or 2008.
- Upgrading from MSDE 2000 to SQL Server 2005 or 2008.
- Upgrading from MSDE 2000 to SQL Server 2005 Express.

**Nested triggers** — The SQL Server Nested Triggers option must be enabled.

**Database collation** — The only database collation supported by ePolicy Orchestrator is the U.S. English default: SQL\_Latin1\_General\_Cp1\_CI\_AS.

**Maintenance settings** — McAfee recommends making specific maintenance settings to ePolicy Orchestrator databases. For instructions, see *Maintaining ePolicy Orchestrator databases* in the ePolicy Orchestrator 4.5 Help.

### SQL Server

**Dedicated server and network connection** — Use a dedicated server and network connection if managing more than 5,000 client computers.

**Local database server** — If using SQL Server on the same system as the ePolicy Orchestrator server, McAfee recommends using a fixed memory size in Enterprise Manager that is approximately two-thirds of the total memory for SQL Server. For example, if the computer has 1 GB of RAM, set 660 MB as the fixed memory size for SQL Server.

**SQL Server licenses** — If using SQL Server, a SQL Server license is required for each processor on the computer where SQL Server is installed.

**CAUTION:** If the minimum number of SQL Server licenses is not available after you install the SQL Server software, you might have issues installing or starting the ePolicy Orchestrator software.

## Distributed repositories

**Free disk space** — 400 MB on the drive where the repository is stored.

**NOTE:** The disk space requirement for the distributed repositories on agents that are designated as SuperAgents is equal to the disk space available for the master repository.

**Memory** — 256 MB minimum.

**Possible hosts:**

- HTTP-compliant servers on Microsoft Windows, Linux, or Novell NetWare operating systems
- Windows, Linux, or NetWare FTP servers
- Windows, Linux, or UNIX Samba UNC shares
- Computer with a SuperAgent installed on it

## Supported products and components

- McAfee Agent 4.0 for Email and Web Security
- McAfee Agent 4.0 for HP-UX
- McAfee Agent 4.0 for Linux
- McAfee Agent 4.0 for Macintosh
- McAfee Agent 4.0 for Solaris
- McAfee Agent 4.5
- McAfee Agent for Windows Patch 1 and Patch 2
- McAfee Common Management Agent 3.7 Patch 1
- McAfee Common Management Agent MA 3.6 Patch 4
- McAfee Data Loss Prevention 2.1 Patch 2
- McAfee Data Loss Prevention 2.2
- McAfee Data Loss Prevention 3.0
- McAfee Email and Web Security 5.1 Appliance
- McAfee Endpoint Encryption 5.2.1
- McAfee Endpoint Encryption 5.3
- McAfee Endpoint Encryption Files/Folders 3.1 (EEFF)
- McAfee Endpoint Encryption Files/Folders 4.x (EEFF)
- McAfee EndPoint Encryption for Mobile 3.0 (EEMO)
- McAfee Foundstone 6.5.3
- McAfee GroupShield for Domino 7.0
- McAfee GroupShield for Exchange 6.0.2 with SKE

- McAfee GroupShield for Exchange 7.0
- McAfee GroupShield for Exchange 7.0 SP 1
- McAfee Host Intrusion Prevention 6.1 Patch 3
- McAfee Host Intrusion Prevention 7.0 Patch 3
- McAfee Host Intrusion Prevention 7.1
- McAfee IntruShield 4.1
- McAfee IntruShield 5.1
- McAfee LinuxShield 1.5.1
- McAfee Network Access Control 3.1
- McAfee Policy Auditor 5.1 (Feyman)
- McAfee PortalShield 2.0 Patch 1
- McAfee Quarantine Manager 6.0
- McAfee Rogue System Detection 2.0 Patch 2
- McAfee Security for Lotus Domino Linux 7.5
- McAfee Security for Macintosh v1.0
- McAfee SiteAdvisor Enterprise 1.6
- McAfee SiteAdvisor Enterprise 2.0+
- McAfee SiteAdvisor Enterprise 3.0
- McAfee VirusScan 8.5i with McAfee AntiSpyware Enterprise
- McAfee VirusScan 8.7 with McAfee AntiSpyware Enterprise
- McAfee VirusScan Advanced Server (NetApp)
- McAfee VirusScan Advanced Server (SAP)
- McAfee VirusScan Advanced Server (Virtualization)
- McAfee VirusScan for Macintosh 8.6.1
- Symantec SAV 10.x
- Symantec SAV 9.x
- USB Device 1.0 (EEV)
- Vdisk 4.1 (EEV)
- vDisk for Macintosh 1.0

## Operating systems language support

This version of the ePolicy Orchestrator software runs on any supported operating system irrespective of the language of the operating system.

Following is a list of languages into which the ePolicy Orchestrator has been translated. When the software is installed on an operating system using a language that is not on this list, the ePolicy Orchestrator interface attempts to display in English.

- Chinese (Simplified)
- Chinese (Traditional)
- English
- Japanese
- Korean
- Russian

- French (Standard)
- German (Standard)
- Spanish

# First-Time Installation

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This chapter provides instructions for installing ePolicy Orchestrator 4.5 in an environment where no previous version of ePolicy Orchestrator software has been installed.

**CAUTION:** If you are upgrading from a prior version of ePolicy Orchestrator or are migrating from an evaluation version, see *Upgrading to ePolicy Orchestrator 4.5*.

Be sure that you have read, understood, and complied with the requirements and recommendations in *Pre-Installation*.

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- ▶ [Installing the server](#)
- ▶ [Installing an Agent Handler](#)

## Installing the server

The installation depends, in part, upon the presence of MSXML 6.0 on the server. If it is not present, an error message appears during the installation, advising you that it must be installed before proceeding. To avoid the inconvenience of interfering with the installation in order to download and install MSXML, we strongly recommend that you obtain and install MSXML before starting the installation.

We also recommend that you monitor the entire installation process. It might require you to restart the system.

Use this task to install the ePolicy Orchestrator server.

### Task

- 1 Using an account with local administrator permissions, log on to the Windows server computer to be used as the ePO server .
- 2 Run the Setup program.
  - From the product CD: select a language in the ePolicy Orchestrator autorun window, then select **Install ePolicy Orchestrator 4.5**.
  - From software downloaded from the McAfee website: go to the location containing the extracted files and double-click **Setup.exe**. The executable is located in the file **EPO 4.5.0 <build and package numbers>.zip**. Be certain to extract the contents of the zip file to a temporary location. Do not attempt to run Setup.exe without first extracting the contents of the zip file.

**NOTE:** If any prerequisite software is missing from the installation target computer, a list of those items appears.

- 3 Click **Next**. The installation process for each software item not listed as Optional begins automatically.

If you intend to use an existing instance of SQL Server 2005, or SQL 2008, you can continue without selecting the checkbox for installation of SQL Server 2005 Express.

If you do not have a supported version of SQL or MSDE, take one of the following actions:

- Install SQL 2005 or 2008 on a server.

If you are installing ePolicy Orchestrator with SQL 2005, the SQL Browser must be enabled or you cannot complete the installation wizard.

- Install SQL Server 2005 Express on the same computer where you are installing ePolicy Orchestrator. If you selected the checkbox for installation of SQL Server 2005 Express, ePolicy Orchestrator installs the database automatically.

If you are installing SQL Server 2005 Express, you might be prompted to install SQL Server 2005 Backward Compatibility. You must install it.

- 4** In the Welcome page of the installation wizard, click **Next**. The License Key page appears.

**NOTE:** License Keys are distributed from the same McAfee website from which the ePolicy Orchestrator software is downloaded.

- 5** Select whether you are installing based on a license key or installing an evaluation version.

- If you have a License Key, type its number here.
- If you select **License Key** but do not type its number you are asked if you want to install an evaluation version. Click **OK** to proceed with installation of the evaluation version, or **Cancel** to return to the previous page.

- 6** If you are installing a beta version of the software, the Beta test information box appears. Click **OK**.

- 7** Accept the **End User License Agreement**, then click **OK** to continue. The Choose Destination Location dialog box appears. Click **Next**.

- 8** Accept the default installation path or click **Browse** to select or create a different location, then click **Next**.

If installing on a cluster server, the Set Database and Virtual Server Settings dialog box appears. Otherwise the **Set Administrator Information** dialog box appears.

- 9** Type and verify the password for logging on to this ePolicy Orchestrator server, then click **Next**.

If your environment employs Microsoft Cluster Server (MSCS) for a high availability system that ensures failover support, the Set Database and Virtual Server Settings dialog box appears.

- 10** In the Set Database Information dialog box, identify the type of account and authentication details that the ePO server will use to access the database:

- a** Use the drop-down list to select a database server. If SQL Express was installed, the name of the database is **<computername>\EPOSERVER**.

- b** Select the type of authentication, then click **Next**.

- **Windows authentication** (*recommended*) — Specify the NetBIOS name of the **Domain** associated with the desired domain administrator user account. Then, provide and verify a password.

**NOTE:** If the database identification fails, type 1433 or 1434 in the **SQL server TCP port** field.

- **SQL authentication** — Provide the **User name** that the ePolicy Orchestrator software will use to access the database, then provide a password. If the installer cannot identify

the port used for communication to and from the server, you might be prompted to provide that information.

**NOTE:** The ePolicy Orchestrator account must have DB ownership to the database.

- 11** Set the **HTTP Configuration**. Designate the port to be used by each function, then click **Next**.

Function	Port
<b>Agent-to-Server communication port</b>	Configurable. McAfee recommends using a port other than 80.
<b>Agent Wake-Up communication port</b>	Configurable.
<b>Agent Broadcast communication port</b>	Configurable port used to send SuperAgent wake-up calls.
<b>Console-to-Application Server communication port</b>	Configurable.
<b>Sensor-to-Server communication port</b>	Configurable port used by the Rogue System sensor to report host-detected messages to the Rogue System Detection server using SSL.
<b>Security Threats communication port</b>	Port 8801. Nonconfigurable port used by McAfee Avert to provide information on security threats and the required DAT and engine versions to protect against them.
<b>SQL server TCP port</b>	See SQL documentation for configuration information.

**NOTE:** Client firewalls block communication from the ePO server. Ensure that the ports required for communication from the ePO server are available on the client.

- 12** *Optional step (can be performed after ePolicy Orchestrator is up-and-running).* In the Default Notification Email Address dialog box, type the email address of the recipient of messages from ePolicy Orchestrator notification or leave the default. For a new recipient, complete these options, then click **Next**.
- Provide a default destination for messages.
  - Select **Setup email server settings now**. However, if you choose **Setup email server settings later**, leave the default address.
  - Type the Fully Qualified Domain Name (FQDN) of the mail server and specify the **Port** to use for email.
  - Select **This server requires authentication** if needed, then type the **User name** and **Password** required to access the server.

For more information, see *Automatic Responses* in the *ePolicy Orchestrator 4.5 Product Guide*.

- 13** In the Start Copying Files dialog box, click **Next** to begin the installation.
- 14** In the Installation Complete dialog box, you can view the Release Notes, launch ePolicy Orchestrator, or click **Finish** to complete the installation.

## Installing an Agent Handler

Use this task to set up an Agent Handler.

## Before you begin

You must first install the ePO server with which the Agent Handler is to communicate.

### Task

- 1 Open the folder where you extracted the contents of the ePolicy Orchestrator installation package.
- 2 Copy the **AgentHandler** folder to the intended Agent Handler server system.
- 3 Double-click and run **Setup.exe**. Installation activities take place in the background. When they are completed, the InstallShield Wizard for McAfee Agent Handler opens. Click **Next**.
- 4 Accept the default destination or click **Browse** to change the destination, then click **Next**. The Server Information page opens.
- 5 Type the machine name of the ePO Server with which the Agent Handler is to communicate.
- 6 Type the port to be used for server-handler communication. Port 8433 is the default. McAfee recommends that you change the port designation. See the discussion of *Ports* in the *Server and Agent Handler requirements* section.
- 7 Type the **ePO Admin User** name and password of a user with global administrator privileges. If these credentials are to be used for the database as well, click **Next** to start the installation.

**NOTE:** These credentials must be identical with those used during installation of ePolicy Orchestrator.

- 8 If you want to use different database credentials than those mentioned in step 7, follow these additional steps:
  - a Deselect **Use ePO Server's database credentials**, then click **Next**.
  - b Type the name of the SQL database server.
  - c Select **Windows Authentication** or **SQL Authentication**, then type the credentials.

**NOTE:** These credentials must be identical with those of a previously defined SQL Server user.

- 9 Click **Next**. The installation process begins.



# Upgrading to ePolicy Orchestrator 4.5

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This chapter provides instructions for upgrading an existing version of ePolicy Orchestrator to version 4.5 of the software.

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- ▶ [Unsupported products](#)
- ▶ [Performing backups before upgrading](#)
- ▶ [Upgrading the ePO server from version 3.6.1](#)
- ▶ [Upgrading the ePO server from version 4.0](#)

## Removing unused consoles

ePolicy Orchestrator 3.6.1 and earlier provided the option of installing remote consoles (MMC). If remote consoles are present, use Windows Add/Remove programs feature to remove them.

## Unsupported products

The following products are no longer supported in version 4.5 and are not migrated.

- McAfee ePolicy Orchestrator Agent for Macintosh OS X
- McAfee ePolicy Orchestrator Agent for Linux
- McAfee ePolicy Orchestrator Agent for Netware
- McAfee NetShield 4.6.3 for NetWare
- McAfee Common Management Agent 3.5.5
- McAfee LinuxShield 1.3
- McAfee LinuxShield 1.4
- McAfee LinuxShield 1.5
- McAfee Site Advisor Enterprise 1.5
- McAfee Non-Windows Agents v2.0
- McAfee VirusScan Mobile Enterprise
- McAfee System Compliance Profiler 2.0
- McAfee Network Access Control 3.0 Patch 2
- McAfee Policy Auditor 5.0
- McAfee Policy Auditor 5.0.1
- McAfee Group Shield for Exchange 6.0

- McAfee Groups Shield for Exchange 6.0.2 with SKE RTW Repost\_5200
- McAfee Virex 7.7
- McAfee VirusScan 8.0i with McAfee AntiSpyware Enterprise Patch 16
- McAfee VirusScan For Macintosh 8.5
- McAfee VirusScan For Macintosh 8.6

## Performing backups before upgrading

Before you upgrade to version 4.5, back up all ePolicy Orchestrator databases, as well as the ePO directory. Additional information is available in the following Knowledge Base articles:

ePolicy Orchestrator Version	KB article
3.6x	KB53219
4.0	KB51438

## Upgrading the ePO server from version 3.6.1

This task upgrades the ePO server from ePolicy Orchestrator version 3.6.1 Patch 4 or later to version 4.5. McAfee recommends that you monitor the upgrade process. It might require you to restart the system.

The default location of version 3.6.1 is:

C:\Program Files\McAfee\ePO\3.6.1

### Before you begin

You must install the SQL 2005 Backwards Compatibility package before upgrading an ePolicy Orchestrator installation if you are using a remote database server or a local SQL 2005 server that does not already have it installed.

### Task

- 1 Log on to the desired system using an account with local administrator permissions.
- 2 If you are using Microsoft SQL Server 2005 or 2008, verify that it is running.
- 3 Run the Setup program.
  - From the product CD: select a language in the ePolicy Orchestrator autorun window, then select **Install ePolicy Orchestrator 4.5**.
  - From software downloaded from the McAfee website: go to the location containing the extracted files and double-click **Setup.exe**.

**NOTE:** If any prerequisite software is missing from the installation target computer, a list of those items appears. Click **Next**. The installation process for each software item not listed as Optional begins automatically. For Optional items, a dialog box appears, where you can allow installation or reject it.
- 4 In the Welcome window of the installation wizard, click **Next**. A warning message lists which products are no longer supported with this version of the software. These products are not migrated to the ePolicy Orchestrator 4.5 Repository.

- 5 In the Choose Destination Location dialog box, accept the default installation path or click **Browse** to select a different location, then click **Next**.  
 If installing on a cluster server, the Set Database and Virtual Server Settings dialog box appears. Otherwise the **Set Administrator Information** dialog box appears.
- 6 In the **Set Administrator Information** dialog box, type and verify the user name and password for logging on to this ePO server for the first time, then click **Next**. For security reasons, ePolicy Orchestrator does not allow accounts with blank passwords.
- 7 In the Set Database Information dialog box, identify the type of account and authentication details that the ePO server will use to access the database.  
 Indicate whether ePolicy Orchestrator will use a Windows NT user account or a SQL Server user account. McAfee recommends using Windows NT authentication.

**NOTE:** The name of the database server that was set during the original installation cannot be changed here.

- **Windows authentication** (*recommended*) — Specify the NetBIOS name of the **Domain** associated with the desired domain administrator user account. Then, provide and verify a password.
- **SQL authentication** — Provide the **User name** that ePolicy Orchestrator will use to access the database, then provide a password. If the installer cannot identify the port used for communication to and from the server, you might be prompted to provide that information. Otherwise, the SQL server TCP port field shows the port and is disabled.  
 When upgrading an installation using NT authentication, the Set Database Information panel of the wizard appends the domain name to the User name field and auto-populates the port field with 1433. Remove the domain from the User name field and click **Next**. You will receive a port error. Dismiss this error and manually retype the port number 1433, then click **Next**.
- For security reasons, ePolicy Orchestrator does not accept accounts with blank passwords.

**NOTE:** If you are installing on a system with a local SQL 2005 database server, you must manually type the TCP port number on the Set Database Information page of the installation wizard.

- 8 Click **Next** to display the HTTP Configuration dialog box. The values that were set during the original installation cannot be changed here.

Function	Port
<b>Agent-to-Server communication port</b>	Configurable. McAfee recommends using a port other than 80.
<b>Agent Wake-Up communication port</b>	Configurable.
<b>Agent Broadcast communication port</b>	Configurable port used to send SuperAgent wake-up calls.
<b>Console-to-Application Server communication port</b>	Configurable.
<b>Sensor-to-Server communication port</b>	Configurable port used by the Rogue System Sensor to report host-detected messages to the Rogue System Detection server using SSL.
<b>Security Threats communication port</b>	Port 8801. Nonconfigurable port used by McAfee Avert to provide information on security threats and the required DAT and engine versions to protect against them

Function	Port
SQL server TCP port	Port 1433. Nonconfigurable unless connection has failed. It then becomes configurable. See SQL documentation for additional information about configuring this port.

- 9 Click **Next**. In the Default Notification Email Address dialog box, type the email address for the recipient of messages from ePolicy Orchestrator Notifications, or leave the default. For a new recipient, complete these options, then click **Next**.
  - a Provide a default destination for messages.
  - b Select **Setup email server settings now**. If you choose **Setup email server settings later**, leave the default address.
  - c Type the Fully Qualified Domain Name (FQDN) of the mail server and specify the **Port** to use for email.
  - d Select **This server requires authentication** if needed, then type the **User name** and **Password** required to access the server.For more information, see *Automatic Responses* in the *ePolicy Orchestrator 4.5 Product Guide*.
- 10 In the Start Copying Files dialog box, click **Install**.
- 11 In the Installation Complete dialog box, click **Finish** to complete the installation.

## Upgrading the ePO server from version 4.0

This task upgrades the ePO server from ePolicy Orchestrator version 4.0 Patch 3 or later to version 4.5. McAfee recommends that you monitor the upgrade process. It might require you to restart the system.

The default location of ePolicy Orchestrator version 4.0 is:

C:\Program Files\McAfee\ePolicy Orchestrator

### Before you begin

You must install the SQL 2005 Backwards Compatibility package before upgrading an ePolicy Orchestrator installation if you are using a remote database server or a local SQL 2005 server that does not already have it installed.

### Task

- 1 Log on to the desired system using an account with local administrator permissions.
- 2 If you are using Microsoft SQL Server 2005 or 2008, verify that it is running.
- 3 Run the Setup program.
  - From the product CD: select a language in the ePolicy Orchestrator autorun window, then select **Install ePolicy Orchestrator 4.5**.
  - From software downloaded from the McAfee website: go to the location containing the extracted files and double-click **Setup.exe**.

**NOTE:** If any prerequisite software is missing from the installation target computer, a list of those items appears. Click **Next**. The installation process for each software item not listed as Optional begins automatically. For Optional items, a dialog box appears, where you can allow installation or reject it.

- 4** In the Welcome window of the installation wizard, click **Next**. A warning message lists which products are no longer supported with this version of the software. These products are not migrated to the ePolicy Orchestrator 4.5 Repository.
- 5** In the **Set Administrator Information** dialog box, type and verify the user name and password of the global administrator for the current ePO server, then click **Next**. For security reasons, ePolicy Orchestrator does not allow accounts with blank passwords.
- 6** In the Start Copying Files dialog box, click **Next** to begin the installation.
- 7** In the Installation Complete dialog box, click **Finish** to complete the installation.

# Post-Installation Tasks

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After completing the Setup wizard, follow the appropriate procedures to configure the software.

## Contents

- ▶ [Completing a first-time installation](#)
- ▶ [Completing an upgrade](#)
- ▶ [Migrating events from version 3.6.1](#)
- ▶ [Files to check in manually](#)
- ▶ [Configuring the software for a server with multiple NICs](#)
- ▶ [Uninstalling the software](#)

## Completing a first-time installation

The tasks needed to complete a first-time installation are listed here. For details about performing these tasks, see the *ePolicy Orchestrator 4.5 Product Guide*.

### Tasks

- 1 Plan your ePolicy Orchestrator System Tree and updating scheme.
- 2 Create the ePolicy Orchestrator System Tree.
- 3 Distribute the McAfee Agent to the systems you want to manage with ePolicy Orchestrator.
- 4 Create the updating repositories.
- 5 Check in to the repositories the products ePolicy Orchestrator is to manage. Then configure their policy settings.
- 6 Deploy products to the managed computers.
- 7 Configure the advanced features of ePolicy Orchestrator.

## Completing an upgrade

Perform the following tasks to complete an upgrade.

### Tasks

- 1 Migrate events from the previous version of ePolicy Orchestrator. See *Migrating events from version 3.6.1* in this guide.
- 2 Plan and implement any changes you want to make to the ePolicy Orchestrator System Tree (formerly Directory) and Repository.

- 3 Check in and deploy new products you want to manage.  
For details, see the *ePolicy Orchestrator 4.5 Product Guide*.

## Migrating events from version 3.6.1

Use this task to migrate events recorded in version 3.6.1 of ePolicy Orchestrator to version 4.5. It is not necessary to migrate events from version 4.0 to version 4.5.

### Task

- 1 Click **Menu | Automation | Server Tasks**.
- 2 Select the **Edit** link in the **Actions** column for the row labeled **Event Migration (3.6x->4.x)**.
- 3 On the Description tab, type a name for the task and any notes you want; select **Enabled**, then click **Next**.
- 4 On the Actions tab, ensure that **Event Migration** is selected from the drop-down Actions list. From the list of DTS (Data Transformation Services) packages, select the packages that you want to migrate.
- 5 To run the migration immediately, click **Finish**, then click **Run** in the Actions field.
- 6 To schedule the migration to run at a future time, click **Next**.  
To implement the continuous migrating of events until conclusion, make the following settings on the Schedule page:
  - a Select **Daily**.
  - b Specify a **Start date** and make the **End date** the same.
  - c Select a time of day.
  - d Click **Next**.

## Files to check in manually

These are the files that you must check in to the master repository after you install or upgrade the software. For more information, see the *ePolicy Orchestrator 4.5 Product Guide*.

- **Custom packages** — Only managed product packages that were created with McAfee Installation Designer 8.0 or later can be checked in to the master repository.
- **Product extensions**— If the extension for a managed product was not added to the repository during the installation, you must manually add it as a zip file.
- **Product plug-in files** — Any product plug-in (.dll) files that were not checked in as part of the installation must be checked in to the master repository manually as zip files.
- **Products** — Check the software you intend to deploy into the repository.
  - If you are installing ePolicy Orchestrator for the first time, you must check in all products that you want to deploy via ePolicy Orchestrator.
  - If you are upgrading ePolicy Orchestrator, any supported products that were not already present must be checked in to the master repository manually as zip files.
- **Product updates** — You must check in all product updates that you want to deploy via ePolicy Orchestrator.

# Configuring the software for a server with multiple NICs

When you install ePolicy Orchestrator on a server with multiple network interface cards (NICs), ensure that ePolicy Orchestrator is bound to the appropriate NIC. There are three approaches to achieving this, depending on the number of IP addresses you want to expose for agent-server communication.

## Task

- 1 Open the **server.ini** file. The default location is:  
C:\Program Files\McAfee\ePolicy Orchestrator\DB
- 2 Modify the [server] section of the file by adding the following line:  
Server=<IP address of the server you want ePolicy Orchestrator to use>  
Follow the procedure that corresponds to the number of IP address you want to expose:
  - a **To expose a single IP address:** modify the server.ini file, and insert the IP address you want to expose.
  - b **To expose all IP addresses:** modify the server.ini file, and insert the FQDN of the ePO server.
  - c **To expose some IP addresses:** modify the server.ini file, and insert an IP address you want to expose. Then, set up a new virtual Agent Handler group to define additional IP addresses you want to expose for agent-server communication. See the *ePolicy Orchestrator Product Guide* for additional information.

**NOTE:** The server IP addresses are used for agent access to the master repository and for agent-server communication. If these addresses are not provided, the IP address of the first listed NIC is used.
- 3 Save and close the server.ini file.
- 4 Restart all ePO services.

# Uninstalling the software

If you need to uninstall ePolicy Orchestrator software, use this procedure. If you used the ePO Setup program to install SQL 2005 Express, you can remove the database when you remove ePolicy Orchestrator.

## Before you begin

You must uninstall any Agent Handlers registered to this ePO server before you uninstall the ePolicy Orchestrator.

## Task

- 1 Close all database management software.
- 2 Open the **Control Panel** and select **Add/Remove Programs**.
- 3 Select **McAfee ePolicy Orchestrator**, then click **Remove**. The Remove McAfee ePolicy Orchestrator dialog box appears.
- 4 Select **Also remove the ePolicy Orchestrator database**.



**5** Click **Remove**.

# Troubleshooting

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Use this information to troubleshoot any problems with your installation of ePolicy Orchestrator. The most common messages that appear during an installation and their solutions are listed here.

If you are unable to resolve an issue using the information in this table, contact McAfee Technical Support after you have taken the steps described below:

- Verify that you have met the minimum installation requirements.
- Review the *ePolicy Orchestrator 4.5 Release Notes (Readme.html)* for any known installation issues.
- Verify that the account you used to log on to the computer where you are installing the software has full administrator permissions to that computer.
- Collect the exact text of all messages, and be sure to write down any message codes that appear.
- Gather the installation log files.

## Contents

- ▶ [Common installation messages and their solutions](#)
- ▶ [Default locations of troubleshooting log files](#)

## Common installation messages and their solutions

If this message appears...	Then...
You are attempting to upgrade from a product version that is not supported. For a complete list of upgrade requirements, see the ePolicy Orchestrator Installation Guide.	No version of ePolicy Orchestrator has been installed on this computer. You can only upgrade from ePolicy Orchestrator 3.6.1 Patch 4 or later and ePolicy Orchestrator 4.0 Patch 3 or later.
Internet Explorer 7 or later, or Firefox 3.0 needs to be installed for this installation to continue.	The computer where you are attempting to install the software is using a non-supported version of the browser. Install Internet Explorer 7.0 or later, or Firefox 3.0 before you install the ePolicy Orchestrator software.
Another instance of the McAfee ePolicy Orchestrator installer is already running.	The ePolicy Orchestrator 4.5 Setup program is already running. You cannot run more than one instance of Setup at a time.
For security reasons McAfee does not allow blank passwords. Please enter a valid password to continue.	The <b>Password</b> box is blank. Specify the password of the user account that you want to use.
McAfee recommends that you set the video display to 1024x768 or higher resolution.	The computer where you are attempting to install the software does not meet the minimum monitor resolution requirement. Change the monitor resolution to 1024x768 or higher, then continue the installation. Otherwise, you might not be able to view the entire application window after you start the software. For instructions on changing

If this message appears...	Then...
	the monitor resolution, see the Windows Help File (click <b>Start</b> , then select <b>Help</b> ).
McAfee recommends that you install the software on a computer with at least 1 GB of RAM.	The computer where you are attempting to install the software does not meet the minimum memory requirement.
McAfee ePolicy Orchestrator 4.5 requires that your computer is running Windows Server 2003, or Windows Server 2008.	The computer where you are attempting to install the software is using a non-supported version of the operating system.
Enter a value in the "Agent Broadcast communication" field.	The <b>Agent Broadcast communication port</b> box is blank. Specify the port number (default is 8082) that the ePolicy Orchestrator server will use to send agent wake-up calls to SuperAgents.
Enter a value in the "Agent-to-Server communication" field.	The <b>Agent-to-Server communication port</b> box is blank. Specify the port number that the agent will use to communicate with the server.
Enter a value in the "Agent Wake-Up communication" port.	The <b>Agent Wake-Up communication port</b> box is blank. Specify the port number (default is 8081) that the ePolicy Orchestrator server will use to send agent wake-up calls.
McAfee ePolicy Orchestrator must be installed in a folder. Enter a Destination Folder to continue.	The <b>Destination Folder</b> box is blank or shows the root of a drive. Click <b>Browse</b> to select a location. The default location is: C:\Program Files\McAfee\ePolicyOrchestrator.
Enter a value in the "User Name" field.	The <b>User name</b> box is blank. Specify the user name of the account that you want to use.
The License file is missing is missing or corrupt. Contact support for assistance.	Setup is unable to read the license information required to install the software. Contact McAfee Technical Support.
The operating system or service pack you are using is not currently supported. For a complete list of system requirements, see the ePolicy Orchestrator Installation Guide.	The computer where you are attempting to install the software is using a non-supported version of the operating system.
The passwords you entered do not match. Enter a valid password to continue.	The value you typed in <b>Password</b> and <b>Confirm Password</b> do not match. Specify the password of the account that you want to use.
The McAfee ePolicy Orchestrator license has expired.	Your license to use the software has expired. Go to the beta feedback page on the McAfee website, where you can supply your comments about the beta software.
This system is not currently configured with a static IP address, which is recommended for the ePolicy Orchestrator server.	The computer where you are attempting to install the software does not use a static IP address. McAfee recommends using static IP addresses for ePO servers to improve performance and reduce bandwidth usage.
Unable to make a connection to the database server. Verify that you provided the account credentials and database server name correctly, then try again. If this message continues to appear, see the ePolicy Orchestrator Installation Guide for more information.	<p>A connection could not be made to the corresponding ePolicy Orchestrator database server.</p> <ol style="list-style-type: none"> <li><b>1</b> Verify that the <b>Domain</b>, <b>User Name</b>, and <b>Password</b> you provided are typed correctly.</li> <li><b>2</b> Verify that the database server is running.</li> <li><b>3</b> Verify that the user account you provided is valid for the database server.</li> </ol>
Unable to connect using the information you provided. Verify that you entered the correct information and try again.	<p>The user account that you specified could not be accessed.</p> <ol style="list-style-type: none"> <li><b>1</b> Verify that the <b>Domain</b>, <b>User Name</b>, and <b>Password</b> you provided are typed correctly.</li> </ol>

If this message appears...	Then...
	<ol style="list-style-type: none"><li data-bbox="841 237 1375 312">2 Verify that the account you used to log on to this computer has access to this domain.</li></ol>

## Default locations of troubleshooting log files

Log File Name	Log Type	File Location	Description
AHSetupDLL.log	Temporary	%temp% on the Agent Handler server	Logs Agent Handler backend events
EPO450-Install-MSI.LOG	Install	%temp%\mfelogs	Main log file for the ePolicy Orchestrator 4.5.0 installer.
[ExtensionFileName].cmd	Temporary	%temp%\MFElogs\ePO450-troubleshoot\ OutputFiles	File created by ePolicy Orchestrator installer, containing the command (sent to Remote-Client) to check in extensions.
dbmExecute.log	Temporary	%temp%MFElogs	Log of migration errors.
EPO450-Checking-Failure.log	Temporary	%temp%MFElogs	List of extensions that have failed to check in.
core-install.log	Install	[InstallDir]\Installer\core	Log file created when the ePolicy Orchestrator installer calls the Orion ANT installer.
epo-install.log	Install	[InstallDir]\Installer\ePO	Log file created when the ePolicy Orchestrator installer calls the Mercury ANT installer.
EpoApSvr.log	Primary	[InstallDir]\DB\Logs	Application Server log file. Present only after initial service startup. Output = RManJNI, DalPolicy, SiteMgr, and SiteMgrWrap.
eventparser.log	Primary	[InstallDir]\DB\Logs	Event Parser log file. Present only after initial service startup. Output = EventParser.
server.log	Primary	[InstallDir]\DB\Logs	ePolicy Orchestrator Server Agent Handler and other C++ code log file. Present only after initial service startup. Output = EPOServer, and Mod_EPO.
errorlog.####-##-##-##_##_##_	Apache	[InstallDir]\Apache2\logs	Apache2 log file for the Apache service. Present only after initial service startup.
jakarta_service_#####.log	Tomcat	[InstallDir]\Server\logs	Tomcat log file for the Tomcat service. Present only after initial service startup.
localhost_access_log.####-##-##.txt	Tomcat	[InstallDir]\Server\logs	Tomcat log file for the Tomcat service. Present only after initial service startup.
orion.log	Primary	[InstallDir]\Server\logs	Log file used by the McAfee Foundation Services platform and, by default, all loaded extensions. Present only after initial service startup.
stderr.log	Tomcat	[InstallDir]\Server\logs	Tomcat log file for the

Log File Name	Log Type	File Location	Description
			Tomcat service. Present only after initial service startup The file contains any Standard Error output captured by the Tomcat service.