

**SOPHOS**

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# Sophos Enterprise Console startup guide for Linux, NetWare, and UNIX

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# 1 About this guide

This guide describes the procedure for installing Sophos Anti-Virus on Linux, NetWare, and UNIX computers, so that it is managed by Sophos Enterprise Console. The guide assumes that you have installed the management tools, as explained in the *Sophos Enterprise Console advanced startup guide*.

To upgrade, go to the **Endpoint Security and Control Upgrade Center** at <http://www.sophos.com/en-us/support/resource-centers/endpoint/upgrade-center.aspx>, instead of reading this guide.

Sophos documentation is published at <http://www.sophos.com/en-us/support/documentation.aspx>.

## 2 System requirements

For system requirements, go to the system requirements page of the Sophos website ([www.sophos.com/en-us/products/all-system-requirements.aspx](http://www.sophos.com/en-us/products/all-system-requirements.aspx)).

You must have internet access in order to download the installation software from the Sophos website.

## 3 Protecting Linux computers

To protect Linux computers using a deployment package, you must:

- Install Sophos Anti-Virus on a Linux server for the first time manually.
- Create a deployment package.
- Install Sophos Anti-Virus on the rest of the Linux computers.

### 3.1 Install Sophos Anti-Virus for the first time manually

This section assumes that you have downloaded Sophos Anti-Virus, as explained in the *Sophos Enterprise Console advanced startup guide*.

1. To find out the path of the shared folder to which Sophos Anti-Virus has been downloaded, known as the bootstrap location:

- a) In Enterprise Console, on the **View** menu, click **Bootstrap Locations**.

In the **Bootstrap Locations** dialog box, the **Location** column displays the path of the bootstrap location for each platform.

- b) Make a note of the relevant path.

2. Log on to your Linux server as root.
3. Mount the bootstrap location.
4. Change to the bootstrap location.
5. Run the install script:  
**./install.sh**

When prompted, choose to enable remote management.

When installation has finished, in Enterprise Console the Linux server appears in the **Unassigned** group.

6. If you have not done so already, in Enterprise Console create a new group where you want to put the Linux server.
7. Drag the server from the **Unassigned** group to this group.
8. By default, this group already has a default updating policy applied to it. If you need to edit the policy, see the Enterprise Console Help.
9. On the Linux server, trigger the first update:  
**/opt/sophos-av/bin/savupdate**

Now create a deployment package.

## 3.2 Create a deployment package

You can use the **mkinstpkg** script to create a deployment package for your end-users. This script prompts you for information about how Sophos Anti-Virus will be installed on your Linux computers, and the answers gathered are inserted into the deployment package. When the end-user installs from this deployment package, it will not prompt for any information and will set up both the update location and credentials correctly. You can create a package in tar or RPM format.

**Note:** The **mkinstpkg** script is for use within your organization only. Please read the license agreement and legal notice displayed by the **mkinstpkg** script.

To create a deployment package:

1. On the Linux server where you installed Sophos Anti-Virus, change to the directory `/opt/sophos-av/update/`.
2. To create a deployment package in tar format, called `savinstpkg.tgz`, type:  
**./mkinstpkg**

To create a deployment package in RPM format, called `savinstpkg-0.0-1.i586.rpm`, type:

**./mkinstpkg -r**

**Note:** The filename might differ depending on the RPM setup.

3. When prompted, choose to have the computers managed by Enterprise Console.
4. When prompted for the location, enter the bootstrap location (as seen from the Linux computers).

Now you are ready to install Sophos Anti-Virus using this deployment package.

## 3.3 Installing Sophos Anti-Virus using the deployment package

You use the package to install Sophos Anti-Virus in one of two ways:

- Manually on each computer. This approach can be used with a package in RPM or tar format.
- Automatically across the network. This approach can be used only with a package in RPM format.

### 3.3.1 Install Sophos Anti-Virus manually

1. Use your own tools to copy the deployment package to the computers where you want to install Sophos Anti-Virus.
2. Go to each computer and log in as root.
3. Place the deployment package in a temporary directory and change to that directory.

4. To install from the tar package, type:

```
tar -zxvf savinstpkg.tgz  
./sophos-av/install.sh
```

To install from the RPM package, type:

```
rpm -i RPM package
```

The necessary files are copied from the server and Sophos Anti-Virus is installed. From now on, Sophos Anti-Virus will be updated automatically whenever the bootstrap location is updated.

### **3.3.2 Install Sophos Anti-Virus automatically**

- To install Sophos Anti-Virus automatically from the deployment package, use one of the operating system administration tools that support remote deployment.

For more information, see the documentation for that tool.

Once Sophos Anti-Virus is installed, it will be started and will be updated automatically whenever the bootstrap location is updated.

## 4 Protecting NetWare servers

To protect NetWare servers, you must perform the following for each NetWare server:

- Install Sophos Anti-Virus.
- Load Sophos Anti-Virus.
- Configure Sophos Anti-Virus Auto-updating.

### 4.1 Install Sophos Anti-Virus

This section assumes that you have created a directory on each NetWare server that you want to protect and have downloaded Sophos Anti-Virus to it, as explained in the *Sophos Enterprise Console advanced startup guide*.

To install Sophos Anti-Virus, perform the following for each NetWare server:

1. To find out the path of the shared folder to which Sophos Anti-Virus has been downloaded, known as the bootstrap location:
  - a) In Enterprise Console, on the **View** menu, click **Bootstrap Locations**.  
  
In the **Bootstrap Locations** dialog box, the **Location** column displays the path of the bootstrap location for each platform.
  - b) Make a note of the relevant path.
2. At a Windows computer that is running NetWare administrator software, log on to the NetWare server with write access rights equivalent to ADMIN.
3. Go to the bootstrap location.
4. Copy all the files there to `\\NetWare server\SYS\SWEEP`

### 4.2 Load Sophos Anti-Virus

To load Sophos Anti-Virus, perform the following for each NetWare server:

1. At a Windows computer that is running NetWare administrator software:
  - a) Add the default installation directory to the search path:  
**SEARCH**  
  
The number of strings in the search path is displayed. Type:  
**SEARCH ADD next string number SYS:\SWEEP\**  
  
where *next string number* is the number of strings + 1.
  - b) Load Sophos Anti-Virus:



## LOAD SWEEP

Sophos recommends that you add these commands in the same order to the AUTOEXEC.NCF file, so that Sophos Anti-Virus is restarted if the server is restarted.

The first time that you load Sophos Anti-Virus, it prompts you to enter administrator details.

2. Press any key.
3. At the login prompt, type the fully qualified distinguished name of an administrator and press ENTER.
4. Type the administrator password and press ENTER.

Make a note of the fully qualified distinguished name of the administrator and (in a secure place) the password. Sophos Anti-Virus will log in as this user every time it is started, enabling it to see the complete eDirectory tree.

The **Sophos Anti-Virus** screen is displayed.

You must now configure Sophos Anti-Virus Auto-updating.

## 4.3 Configure Sophos Anti-Virus Auto-updating

To configure Sophos Anti-Virus Auto-updating, perform the following for each NetWare server:

1. In the **Sophos Anti-Virus** screen, on the **Main menu**, click **Administration** and press ENTER.

The **Administration** menu is displayed.

2. Select **Auto-updating** and press ENTER.

In the **Auto-updating** screen, ensure the options are set as follows:

- **Status** is set to Active.
- **Directory** is set to the local path of the bootstrap location as specified in *Install Sophos Anti-Virus* (section 4.1).

**Example:** SYS:/SWEEP/CIDs/S000/SYS/SWEEP/nlminst/

- **Timing** is set to On Arrival.

3. Save the changes.

From now on Sophos Anti-Virus will be updated automatically whenever the bootstrap location is updated.

For more information about configuring, see *Sophos Anti-Virus for NetWare user manual* ([http://www.sophos.com/en-us/medialibrary/PDFs/documentation/esnetw\\_men.pdf](http://www.sophos.com/en-us/medialibrary/PDFs/documentation/esnetw_men.pdf)).

## 5 Deciding how to protect UNIX computers

To protect UNIX computers, you must install one of two versions of Sophos Anti-Virus.

### **Sophos Anti-Virus version 4**

This version:

- Supports a wide range of platforms, as listed on the system requirements page of the Sophos website (<http://www.sophos.com/en-us/products/all-system-requirements.aspx>).
- Cannot be managed using Enterprise Console.
- Cannot be automatically updated.
- Cannot be scheduled to scan (apart from using crontab).

To protect UNIX computers with version 4, go to [Protecting UNIX computers with Sophos Anti-Virus version 4](#) (section 6).

### **Sophos Anti-Virus version 9**

This version:

- Supports a narrow range of platforms, as listed on the system requirements page of the Sophos website (<http://www.sophos.com/en-us/products/all-system-requirements.aspx>).
- Can be managed using Enterprise Console.
- Can be automatically updated.
- Can be scheduled to scan.

To protect UNIX computers with version 9, go to [Protecting UNIX computers with Sophos Anti-Virus version 9](#) (section 7).

## 6 Protecting UNIX computers with Sophos Anti-Virus version 4

To protect UNIX computers with version 4, you must:

- Publish Sophos Anti-Virus for UNIX on a web server.
- Install Sophos Anti-Virus on the UNIX computers.

### 6.1 Publish Sophos Anti-Virus on a web server

This step assumes that you have downloaded Sophos Anti-Virus, as explained in the *Sophos Enterprise Console advanced startup guide*.

You must publish Sophos Anti-Virus on a web server for computers to access via HTTP. If you have already done this, you can skip this step.

- To publish Sophos Anti-Virus on a web server, see Sophos support knowledgebase article 38238 (<http://www.sophos.com/en-us/support/knowledgebase/38238.aspx>).

Now install Sophos Anti-Virus.

### 6.2 Install Sophos Anti-Virus

To install Sophos Anti-Virus, perform the following at each UNIX computer:

1. Go to the root of the bootstrap location that you have published on the web server.
2. Copy the file `emininstall.sh` to an executable path location such as `/etc`.  
For the remainder of these instructions, this location is shown as *path*.
3. Type:  
`cd path`
4. Type:  
`chmod +x emininstall.sh`
5. In the directory `/etc`, create a file called `emininstall.conf`.

6. Add the following lines to `emininstall.conf`:

```
EM install CID=bootstrap location
EM cache dir=cache path
SAV install dir=installation path
```

where:

- *bootstrap location* is the bootstrap location that you have published on the web server.
- *cache path* is the location of the cache where a copy of the installation files is placed when performing an update.
- *installation path* is the location where Sophos Anti-Virus is going to be installed.

**Note:** The files in *cache path* must not be deleted as this will cause them to be downloaded again. For this reason, you should not place the files in the `/tmp` directory, which is sometimes purged by the UNIX system.

7. Run

**`emininstall.sh`**

Sophos Anti-Virus is installed.

8. Create a cron job to run `emininstall.sh` periodically. This will check for updates and install them automatically. For more information on creating a cron job, see Sophos support knowledgebase article 12176 (<http://www.sophos.com/en-us/support/knowledgebase/12176.aspx>).

## 7 Protecting UNIX computers with Sophos Anti-Virus version 9

To protect UNIX computers with version 9, you must use a deployment package. To do this:

- Install Sophos Anti-Virus on a UNIX server for the first time manually.
- Create a deployment package.
- Install Sophos Anti-Virus on the rest of the UNIX computers.

### 7.1 Install Sophos Anti-Virus for the first time manually

This section assumes that you have downloaded Sophos Anti-Virus, as explained in the *Sophos Enterprise Console advanced startup guide*.

If Sophos Anti-Virus version 4 is already installed on your UNIX server, and you want to replace it with version 9, you must uninstall it first. For information about how to do this, see the *Sophos Anti-Virus UNIX startup guide* for version 4.

1. To find out the path of the shared folder to which Sophos Anti-Virus has been downloaded, known as the bootstrap location:

- a) In Enterprise Console, on the **View** menu, click **Bootstrap Locations**.

In the **Bootstrap Locations** dialog box, the **Location** column displays the path of the bootstrap location for each platform.

- b) Make a note of the relevant path.

2. Log on to your UNIX server as root.
3. Mount the bootstrap location.
4. Change to the bootstrap location.
5. Run the install script:

**./install.sh**

When prompted, choose to enable remote management.

When installation has finished, in Enterprise Console the UNIX server appears in the **Unassigned** group.

6. If you have not done so already, in Enterprise Console create a new group where you want to put the UNIX server.
7. Drag the server from the **Unassigned** group to this group.
8. By default, this group already has a default updating policy applied to it. If you need to edit the policy, see the Enterprise Console Help.

9. On the UNIX server, trigger the first update:  
`/opt/sophos-av/bin/savupdate`

Now create a deployment package.

## 7.2 Create a deployment package

You can use the **mkinstpkg** script to create a deployment package for your end-users. This script prompts you for information about how Sophos Anti-Virus will be installed on your UNIX computers, and the answers gathered are inserted into the deployment package. When the end-user installs from this deployment package, it will not prompt for any information and will set up both the update location and credentials correctly. You can create a package in tar format.

**Note:** The **mkinstpkg** script is for use within your organization only. Please read the license agreement and legal notice displayed by the **mkinstpkg** script.

To create a deployment package:

1. On the UNIX server where you installed Sophos Anti-Virus, change to the directory `/opt/sophos-av/update/`.
2. To create a deployment package in tar format, called `savinstpkg.tar`, type:  
`./mkinstpkg`
3. When prompted, choose to have the computers managed by Enterprise Console.
4. When prompted for the location, enter the bootstrap location (as seen from the UNIX computers).

Now you are ready to install Sophos Anti-Virus using this deployment package.

## 7.3 Installing Sophos Anti-Virus using the deployment package

You use the package to install Sophos Anti-Virus in one of two ways:

- Manually on each computer.
- Automatically across the network.

### 7.3.1 Install Sophos Anti-Virus manually

1. Use your own tools to copy the deployment package to the computers where you want to install Sophos Anti-Virus.
2. Go to each computer and log in as root.
3. Place the deployment package in a temporary directory and change to that directory.

4. To install from the tar package, type:

```
tar -xvf savinstpkg.tar  
./sophos-av/install.sh
```

The necessary files are copied from the server and Sophos Anti-Virus is installed. From now on, Sophos Anti-Virus will be updated automatically whenever the bootstrap location is updated.

### **7.3.2 Install Sophos Anti-Virus automatically**

- To install Sophos Anti-Virus automatically from the deployment package, use one of the operating system administration tools that support remote deployment.

For more information, see the documentation for that tool.

Once Sophos Anti-Virus is installed, it will be started and will be updated automatically whenever the bootstrap location is updated.

## 8 Check the health of your network

To check the health of your network from Enterprise Console:

- View the Dashboard.

If it is not already displayed, on the **View** menu, click **Dashboard**.

The Dashboard shows you how many computers:

- Have detected threats.
- Are out of date.
- Do not comply with policies.



## 9 Technical support

You can find technical support for Sophos products in any of these ways:

- Visit the SophosTalk community at [community.sophos.com/](http://community.sophos.com/) and search for other users who are experiencing the same problem.
- Visit the Sophos support knowledgebase at [www.sophos.com/en-us/support.aspx](http://www.sophos.com/en-us/support.aspx).
- Download the product documentation at [www.sophos.com/en-us/support/documentation/](http://www.sophos.com/en-us/support/documentation/).
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If you have any suggestions, additions, comments, or questions, please let me<sup>21</sup> know.

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## **References**

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Version 1.0, 17 August 2003

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This product includes cryptographic software written by Eric Young ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)). This product includes software written by Tim Hudson ([tjh@cryptsoft.com](mailto:tjh@cryptsoft.com)).

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This package is an SSL implementation written by Eric Young ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)). The implementation was written so as to conform with Netscape’s SSL.

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