SOPHOS

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Sophos Anti-Virus for Linux startup guide

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1 About this guide

This guide tells you how to install Sophos Anti-Virus on networked and standalone Linux computers.

You can find details of all configuration options in the man pages and the *Sophos Anti-Virus for Linux configuration guide* for version 9.

Note: We recommend that you install Sophos Anti-Virus using Sophos Enterprise Console instead of the installation method described in this guide.

For information on how to install and centrally manage Sophos Anti-Virus using Sophos Enterprise Console, or how to use Sophos Anti-Virus in a mixed Linux and Windows network, see the *Sophos Enterprise Console startup guide for Linux*, *NetWare*, *and UNIX* instead of 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 (http://www.sophos.com/en-us/products/all-system-requirements.aspx).

3 About Sophos Anti-Virus for Linux

3.1 What Sophos Anti-Virus does

Sophos Anti-Virus detects and deals with viruses (including worms and Trojans) on your Linux computer. As well as being able to detect all Linux viruses, it can also detect all non-Linux viruses that might be stored on your Linux computer and transferred to non-Linux computers. It does this by scanning your computer.

3.2 How Sophos Anti-Virus protects your computer

On-access scanning is your main method of protection against viruses. Whenever you access (copy, save, or open) a file, Sophos Anti-Virus scans the file and grants access to it only if it does not pose a threat to your computer.

In addition to on-access scanning, Sophos Anti-Virus enables you to run an *on-demand scan* to provide additional protection. An on-demand scan is a scan that you initiate. You can scan anything from a single file to everything on your computer that you have permission to read. You can either manually run an on-demand scan or schedule it to run unattended.

4 Installing Sophos Anti-Virus across a network

You install Sophos Anti-Virus on networked Linux computers as follows:

- 1. Create a central installation directory (CID) on a server. This is a set of files that includes everything needed for installation.
- 2. Install Sophos Anti-Virus across the network from the CID.

4.1 Create the CID on the server

To perform this procedure, you must be logged on to your Linux server as root.

- 1. Log in to http://www.sophos.com/en-us/support/downloads.aspx with your MySophos username and password.
- 2. On the web page for Endpoint Security and Data Protection downloads, click the link for anti-virus for Linux.
- 3. On the web page that is displayed, download the Sophos Anti-Virus for Linux, version 9 tarball to a temporary directory, for example / tmp.
- 4. Change to the temporary directory and untar the tarball:

```
tar -xzvf tarball
```

5. Run the install script:

```
./sophos-av/install.sh
```

Note: For information about configuring Sophos Live Protection methods during the installation, see *Appendix: Turn Sophos Live Protection on or off* (section 10).

When prompted for the type of auto-update you require, select Sophos. Enter the username and password that are included with your license.

Sophos Anti-Virus is installed in the directory that you selected.

6. Run the update script to download the central installation files from Sophos:

```
/opt/sophos-av/bin/savupdate
```

```
A local cache directory is created by default in /opt/sophos-av/update/cache/Primary/.
```

The local cache directory is the installset that is used to update an installation of Sophos Anti-Virus. The local cache directory updates itself automatically from Sophos. By default, it updates every 60 minutes, provided that the server is connected to the internet.

7. Copy the local cache directory to a location that is accessible by all the other computers on the network to create a CID.

We recommend that the other computers have only read access to the CID.

You have finished creating the CID on the server. Make sure the CID is updated from the local cache directory regularly.

4.2 Installing Sophos Anti-Virus from the CID

Having created the CID, you install Sophos Anti-Virus on the rest of the network as follows:

- 1. Create a deployment package that can be used to install Sophos Anti-Virus on other computers.
- 2. Install Sophos Anti-Virus on each computer using the deployment package.

4.2.1 Create a deployment package

To perform this procedure, you must be logged on to your Linux server as root.

You can use the **mkinstpkg** script to create a deployment package for your end-users. This script uses the same display as the install script, and the answers gathered are inserted into the deployment package. When the end-user installs from the deployment package, it will not ask them any questions and will set up both the update location and credentials for them correctly. You can create a package in tar or RPM format.

To create a deployment package:

- 1. Go to the directory /opt/sophos-av/update/.
- 2. Do one of the following:
 - To create a tar format deployment package, called savinstpkg.tgz, type:
 - ./mkinstpkg
 - To create an RPM format deployment package, called savinstpkg-0.0-1.i586.rpm, type:
 - ./mkinstpkg -r

Note: The filename might be slightly different depending on the RPM setup.

When prompted for the location from which to update, type the address of the CID as it appears to the other computers. Enter the username and password that are required to access that address, if applicable.

A deployment package is created in the format that you specified.

3. Use your own tools to copy this package to the computers where you want to install Sophos Anti-Virus.

4.2.2 Install Sophos Anti-Virus using the deployment package

To perform this procedure, you must be logged on to the computer as root.

On each computer:

- 1. Place the deployment package in a temporary directory and change to that directory.
- 2. Do one of the following:
 - 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
```

This copies the necessary files from the server and installs Sophos Anti-Virus.

You have finished installing Sophos Anti-Virus on this computer. Sophos Anti-Virus will update itself automatically from the CID. By default, it will do this every 60 minutes.

5 Install Sophos Anti-Virus on a standalone computer

To perform this procedure, you must be logged on to the standalone computer as root.

- 1. Log in to http://www.sophos.com/en-us/support/downloads.aspx with your MySophos username and password.
- 2. On the web page for Endpoint Security and Data Protection downloads, click the link for anti-virus for Linux.
- 3. On the web page that is displayed, download the Sophos Anti-Virus for Linux, version 9 tarball to a temporary directory, for example / tmp.
- 4. Change to the temporary directory and untar the tarball:

```
tar -xzvf tarball
```

5. Run the install script:

```
./sophos-av/install.sh
```

Note: For information about configuring Sophos Live Protection methods during the installation, see *Appendix: Turn Sophos Live Protection on or off* (section 10).

When prompted for the type of auto-update you require, select Sophos. Enter the username and password that are included with your license.

Sophos Anti-Virus is installed in the directory that you selected.

You have finished installing Sophos Anti-Virus on the standalone computer. Sophos Anti-Virus will update itself automatically from Sophos. By default, it will do this every 60 minutes, provided that the computer is connected to the internet.

6 On-access scanning

On-access scanning is your main method of protection against viruses. Whenever you access (copy, save, or open) a file, Sophos Anti-Virus scans the file and grants access to it only if it does not pose a threat to your computer.

By default, on-access scanning is active. If you want, you can check that it is active and start it if necessary.

Note: To use the commands in this section, you must be logged on to the computer as root.

This document assumes that you have installed Sophos Anti-Virus in the default location, /opt/sophos-av. If you have not, when you run a command, you must substitute the installation directory that you are using.

6.1 Check that on-access scanning is active

■ To check that on-access scanning is active, type: /opt/sophos-av/bin/savdstatus

6.2 Start on-access scanning

To start on-access scanning, do one of the following:

- Type: /opt/sophos-av/bin/savdctl enable
- Use the appropriate tool to start the installed service sav-protect. For example, type: /etc/init.d/sav-protect start

or

service sav-protect start

7 Run an on-demand scan of the computer

Having just installed Sophos Anti-Virus, we recommend that you scan the whole computer for viruses, especially if it's a server and you want to minimize the possibility of spreading viruses to the other computers. To do this, you run an *on-demand scan*.

■ To run an on-demand scan of the computer, type: savscan /

8 What happens if viruses are detected

Regardless of whether viruses are detected by on-access scanning or an on-demand scan, by default Sophos Anti-Virus:

- Logs the event in syslog and the Sophos Anti-Virus log.
- Sends an email alert to root@localhost.

Sophos Anti-Virus also displays alerts according to whether the viruses were detected by on-access scanning or an on-demand scan, as explained below.

On-access scanning

If on-access scanning detects a virus, Sophos Anti-Virus denies access to the file and by default displays a desktop pop-up alert like the one shown below.



If the desktop pop-up alert cannot be displayed, a command-line alert is displayed instead.

For information about cleaning up viruses, see the Sophos Anti-Virus for Linux configuration guide.

On-demand scans

If an on-demand scan detects a virus, by default Sophos Anti-Virus displays a command-line alert. It reports the virus on the line which starts with >>> followed by either Virus or Virus Fragment:

```
SAVScan virus detection utility
Version 4.69.0 [Linux/Intel]
Virus data version 4.69
Includes detection for 2871136 viruses, Trojans and worms
Copyright (c) 1989-2012 Sophos Limited. All rights reserved.
```

For information about cleaning up viruses, see the Sophos Anti-Virus for Linux configuration guide.

9 Uninstall Sophos Anti-Virus

■ To uninstall Sophos Anti-Virus, go to each Linux computer and run the uninstall script: /opt/sophos-av/uninstall.sh

If the **savd** daemon is running, the script prompts you to stop it.

The uninstall script deletes:

- All entries from the system startup that are associated with Sophos Anti-Virus.
- The Sophos Anti-Virus man pages in /usr/share/man.
- The **savscan** on-demand scanner in /usr/local/bin.
- /opt/sophos-av and its contents.

10 Appendix: Turn Sophos Live Protection on or off

Sophos Anti-Virus offers Live Protection, which uses in-the-cloud technology to decide instantly whether a suspicious file is a threat and take action as specified in the cleanup configuration.

Live Protection is turned on by default if you are installing Sophos Anti-Virus for the first time. If you are upgrading from a previous version of Sophos Anti-Virus, it is turned off. You can choose to turn Live Protection on or off during the installation of Sophos Anti-Virus on a standalone computer or if you are creating a CID.

To turn Live Protection on or off, use the **--live-protection** option with the install script. For example:

- To turn Live Protection off, type:
 - ./sophos-av/install.sh --live-protection=false
- To turn Live Protection on, type:
 - ./sophos-av/install.sh --live-protection=true

The Live Protection settings can also be modified after the installation. For information, see the *Sophos Anti-Virus for Linux configuration guide*.

11 Technical support

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

- Visit the SophosTalk community at *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*.
- Download the product documentation at www.sophos.com/en-us/support/documentation/.
- Send an email to *support@sophos.com*, including your Sophos software version number(s), operating system(s) and patch level(s), and the text of any error messages.

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If you have any suggestions, additions, comments, or questions, please let me²¹ know.

Douglas C. Schmidt²²

References

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libmagic – file type detection

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TinyXML XML parser

www.sourceforge.net/projects/tinyxml

Original code by Lee Thomason (www.grinninglizard.com)

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zlib compression tools

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