Sophos Enterprise Console
installation guide

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1 About this guide

This guide is for you if you are a network administrator who will be installing Sophos Enterprise Console and Sophos Endpoint Security and Control on your company network. The guide is designed to answer your preliminary questions and suggest the ways that Sophos Endpoint Security and Control can be best adapted for your network. It begins with a few general questions to set the context and then describes more specific network scenarios.

For more detailed advice on installing and configuring Sophos Enterprise Console and Sophos Endpoint Security and Control, see knowledge base article 63556.

Related information
knowledge base article 63556
2 What software is installed as part of Sophos Endpoint Security and Control?

The Sophos Endpoint Security and Control on-premise option includes the following software:

- Management console: Sophos Enterprise Console.
- Anti-virus and other software on your endpoint computers: Sophos Endpoint Security and Control (Sophos Anti-Virus, Sophos Client Firewall, software to handle updates and messaging, and so on.).
- Management database that stores information about the configuration of your endpoint computers.
- Management server (and management service) that handle communications between the console, the database, and the endpoint computers.
3 What features require planning?

3.1 Installation locations and methods

The location of the management database, management server and management consoles can be customized to suit your needs. For instance you could install:

- All components on the same server – this is referred to as a "standard" or "default" installation throughout our documentation.

  Note
  
  Note: This is the recommended, most secure deployment.

- Each component on a separate server.
- Only the databases on a separate server, possibly on a dedicated SQL cluster.
- Sophos Enterprise Console on your local computer and the other components on a separate server.
- The whole product on VMWare to be managed from within a virtual machine.
- All components on a server in a server room and you use Remote Desktop sessions to use Sophos Enterprise Console from your local computer.

We don’t describe each of these installation configurations in this document, but we do explain generally how to install the management software and the software on your endpoint computers in each of the network configuration scenarios that follow.

3.2 Other features

Some features in the management console require a little foreplanning as well. The considerations that go into each are described in this document for each network configuration scenario:

- Update Manager. This component creates a structure for updating the anti-virus (and other) software on your endpoint computers. It will automatically create a central location for your network to update from, but you can choose to create more update locations as you see fit. Update locations can either be set up as a UNC path or a web folder.

- Role-Based Administration. This is an optional feature that allows you to subdivide the management of your network so that other users can monitor the network’s health and perform actions.

- Multi-factor Authentication. We recommend you create a recovery user for this feature. This is a Windows user account that is used for multi-factor authentication recovery only. After installing Sophos Enterprise Console, grant multi-factor authentication administrator rights to this user account in role-based administration. Only use this account if a multi-factor authentication device has been lost, to recover the accounts that are usually used.
4 General installation planning considerations

In general, if you consider the following items before you read this document, you’ll get the most out of this guide:

1. Think about the numbers. The number of end users you have will determine how many sub-estates and update locations you should set up.

2. Think about your network configuration. Your network configuration will determine how you should install the software on your client computers, how you will distribute updates, and how many sub-estates you should set up.

3. Think about who will manage your network. The number of IT staff who will monitor and respond to malware alerts and firewall events will determine the number of sub-estates you should set up.

4. Think about how you would like to deploy updates. There are countless ways of doing this. Think about whether you would want everyone on the network downloading from one shared folder, or whether you want every department to have their own update location with a failover location as well.

The rest of this document describes various deployment scenarios (like WANs, remote users, or networks with no servers) that we have anticipated.
5 Main installation scenarios

5.1 Single-site network

5.1.1 Installation

Management software

Install Sophos Enterprise Console on one server (to be used to manage the network) or install the databases on a separate server if you have a large network. For more information on installing the Sophos Enterprise Console database on a SQL cluster, see knowledge base article 116465.

If you use Active Directory, use it to import containers (OUs) first. Then, once you’ve adjusted your groups and created the subgroups that you need, synchronize with Active Directory to import the computers.

If your network has more than 10,000 computers (4,000 if you use Windows Server 2008), you should set up at least one message relay to reduce the load of communications to and from the management server. See knowledge base article 14635.

Client software

You have many options for deploying Sophos Endpoint Security and Control to your client computers:

- Deploy directly from Sophos Enterprise Console, as described in the Sophos Enterprise Console quick startup guide (for smaller networks) or the Sophos Enterprise Console advanced startup guide (for larger networks).

- Use SMS/SCCM (Microsoft recommends that you use SCCM to distribute software when you have 250 or more client computers in your network). For detailed instructions, see knowledge base article 12457.
• Create a script to invoke special features when running the installation with `setup.exe`. You can then use a Group Policy Object to deploy the script and installation file.

**Related information**
- Knowledge base article 116465
- Knowledge base article 14635
- Sophos Enterprise Console documentation
- Knowledge base article 12457

### 5.1.2 Role-based administration

Consider whether you would like to use sub-estates to divide up the day-to-day management of your network. Consider who will have what roles and install Sophos Enterprise Console on their computers when you are ready.

We recommend that you have at least one sub-estate at each of your locations, with more than one IT person assigned to each one. That way, they can manage two networks when one person is off sick or on vacation.

### 5.1.3 Multi-factor authentication

Think about whether you want to have multi-factor authentication enabled for users interacting with Sophos Enterprise Console.

We recommend to you use an integrated solution like Active Directory Federation Services or Azure Active Directory to enable multi-factor authentication for your Windows machines.

Alternatively you can configure Sophos Enterprise Console to require multi-factor authentication before starting the console.

**Related information**
- Azure Active Directory

### 5.1.4 Updating structure

There are many considerations that go into planning an update structure. When planning, remember that the update manager pushes the files to each share in turn, so the number of shares should be tailored to fit your network bandwidth. Also remember that you shouldn’t put a share on a computer that may go into standby or otherwise be unavailable for long periods of time.

**How big is your network?**

On a network with fewer than 1,000 computers, you can install a single update manager and create one or more update locations for your client computers to download updates from.

On a network of 1,000 or more computers, you’ll want to design your update structure to take advantage of the best network architecture and the most effective servers. If you use a UNC path for your update location, it should be used by a maximum of 1,000 computers, unless it is on a dedicated file server. If you set up a web location for updating, it can handle somewhere between 5,000 and 10,000 computers updating from it.
You could also set up additional update managers to spread the load. They could either update from the primary update manager or directly from Sophos. This kind of scenario could also be used for designing failovers. For detailed instructions about installing an additional update manager, see section 7 of the Sophos Enterprise Console advanced startup guide.

As a general rule, you should install an additional update manager for each 25,000 client computers on your network.

What computers are on your network?

Your update shares can publish software for all the different supported operating systems.

Consider whether you may want more than one update location for a specific operating system. For example, you might want half your Windows 2000+ operating systems to use one update location and the other half to use another, and use a separate server for Mac OS X, Linux, and UNIX updates.

You can also download software for NetWare and set up a share on any server for these computers to update from. This is described in an appendix to the Sophos Enterprise Console advanced startup guide.

Do you have roaming or remote users connecting to your network?

We’ve tried to illustrate the most common "additional network configuration" scenarios in the rest of this document. Refer to the type of installation that applies to your situation to learn how to install Sophos Endpoint Security and Control on the client computers and how to structure your updating structure to support them.

Related information
Sophos Enterprise Console documentation

5.2 WAN

Note
The following sections apply to both single-domain and multiple-domain (or workgroup) networks.

Choose the scenario that best applies to your situation:

• Scenario 1: Sites are managed independently.
In this scenario, there is an administrator at each site who will administer their own site independently.

- Scenario 2: Sites are primarily centrally managed.
  - There is admin or helpdesk staff who will administer groups across the two domains/sites, or
  - There is one administrator who will administer both domains/sites from site A.

### 5.2.1 Scenario 1: Sites are managed independently

There is an administrator at each site who will administer their own site independently.

#### Installation

Install Sophos Enterprise Console at each site and use Active Directory to synchronize with the local domain only.

#### Role-based administration

If there is only one person responsible for checking the network at each site, set up the other site administrator with the right to monitor alerts and events to ensure that there is coverage to deal with malware outbreaks and other security events in the event that the local admin is not present.

If there are several people at each site who can check the network, set them up with roles and sub-estates as required.

#### Updating structure

If you wish, you could configure the update manager on site B to download its updates from site A, but you could also have it download its updates directly from Sophos.

Read the advice for the "standard" scenario described above to see what other issues you should consider before installing Sophos Endpoint Security and Control at each site.

### 5.2.2 Scenario 2: Sites are primarily centrally managed

There are admin or helpdesk staff who will administer groups across the two domains or sites or there is one administrator who will administer both domains or sites from site A.

#### Installation

Install Sophos Enterprise Console at site A and use RDP or TS to manage the computers at site B. If you have staff at site B who should be allowed to perform certain tasks, install Sophos Enterprise Console only at site B.

If the sites are on different domains, remember that once you install Sophos Enterprise Console, you will need to set it up for multiple domains. For more information, see knowledge base article 12610.

Ensure that your web filtering equipment allows the following ports for Sophos communications:

- Network: allow ports 137-139 and 445
- Weblink: allow port 80
Role-based administration

This depends on how the IT department is structured. If all the IT staff is on one site, you’d probably want to break down the network into sub-estates based on location. If there is IT staff at each site, you could divide each site into sub-estates as well.

Updating structure

Wherever possible, we recommend that you install an additional update manager in a remote location. There are a few reasons, but most important is the amount of bandwidth needed to update the shared folders on site B and the danger that the shares would be incomplete if the link went down.

Your updating structure would depend on whether or not there is a server or other suitable Windows computer on site B which could be used to distribute updates.

Note

• If there is a server or other suitable Windows computer on site B which could be used to distribute updates
  Install an Update Manager at site B to update the local computers. This update manager could either download its updates from site A or directly from Sophos.
  If you have a firewall between your sites, you’ll have to update via HTTP. Set up a web folder at site A so that the site B computers can get their updates.

• If there is no server or suitable Windows computer on site B
  Use the update manager at site A to create a share for site B. This shared folder could be located at site A, or at site B if bandwidth is a concern. If the link would be too slow to download updates from site A once an hour, consider creating a web folder for the site B computers to update from.
  No matter what you choose as the primary source for updates, ensure that the secondary updating source in the updating policy for Site B computers point to Sophos in case the link between the two sites goes down or the web location is unavailable.

Related information
knowledge base article 118365
5.3 No server

5.3.1 Installation

If you have a small network with no server (ten or fewer computers), you can still download and use Sophos Enterprise Console to manage your network as long as you have a computer that satisfies system requirements for Sophos Enterprise Console, see knowledge base article 118635.

Follow the advice for the "Single-site network" scenario, described above.

Alternatively, if all of your computers are connected to the Internet, you could install the standalone version of Sophos Endpoint Security and Control on those computers and they would all update directly from Sophos.

Related information
knowledge base article 118635

5.3.2 Role-based administration

If you install Sophos Enterprise Console on one of your computers, you could set up another user to monitor your network when you are away from the office.

5.3.3 Updating

If you install Sophos Enterprise Console on one of your computers, use the update manager to set up an updating system with a single share.

If you install the standalone version of Sophos Endpoint Security and Control on all of your computers, they will update directly from Sophos.
5.4 No suitable Windows computer

If you don’t have a Windows Server, or a suitable Windows computer that satisfies system requirements for Sophos Enterprise Console, you will have to download Sophos Anti-Virus for your non-Windows computers and they will update separately.

**Related information**
knowledge base article 118635

5.4.1 Installation

Download and install:
- Sophos Anti-Virus for macOS
- Sophos Anti-Virus for Linux
- Sophos Anti-Virus for UNIX

**Related information**
Sophos Anti-Virus for macOS
Sophos Anti-Virus for Linux
Sophos Anti-Virus for UNIX

5.4.2 Role-based administration

Does not apply as Sophos Enterprise Console can only be run on a Windows server or suitable workstation.

5.4.3 Updating

Sophos Anti-Virus for Linux can be updated by one computer and the cache folder can be shared with the other Linux computers in your network.
5.5 No Sophos Enterprise Console

Please note that this scenario is not supported. You should make every effort to use Sophos Enterprise Console or other security management product from the range of Sophos products, for example, Sophos Central or Sophos Unified Threat Management (UTM).

5.5.1 Installation

Download the standalone installer and install Sophos Endpoint Security and Control on each computer individually. Each computer would then update directly from Sophos.

5.5.2 Role-based administration

Not applicable, as these computers are not managed and Sophos Enterprise Console is not being used.

5.5.3 Updating

The computers would update directly from Sophos.
6 Additional configurations

6.1 Roaming users connecting via VPN

6.1.1 Installation

Follow the advice for the "standard" scenario for recommendations for installing Sophos Enterprise Console on the management server.

For your roaming users, because the computers will connect to the network via VPN, you should deploy Sophos Endpoint Security and Control software to these computers from Sophos Enterprise Console. When they next connect, they will download and install the security software.

6.1.2 Role-based administration

Supporting roaming users is an additional security concern. To make monitoring and administration easier, you might want to set up one sub-estate for roaming users so that one person could closely monitor their security status.

6.1.3 Updating

Ensure that the updating policies for roaming computers have Sophos set up as a secondary source for updates, in case the user can't connect to your network while they're away from the office. Alternatively, you may also consider creating a web location for them to update from, so that they can update their security software even if they can't connect to your network.
6.2 Air gapped network

6.2.1 Installation

Follow the advice for the "standard" scenario for recommendations for installing Sophos Enterprise Console on the management server on the outside network.

For your air-gapped network, you have two options:

- Install Sophos Enterprise Console and an update manager and deploy to the client computers from the management server in the air-gapped network.
- Install Sophos Endpoint Security and Control on each of the computers individually and have them update from a shared folder copied from the outside network. You won't be able to manage the computers on the air-gapped network, nor would you be able to take advantage of all the features of Sophos Endpoint Security and Control, because Application Control, Device Control and Data Control are all configured using Sophos Enterprise Console.

6.2.2 Role-based administration

You will have separate installations of Sophos Enterprise Console on the two networks, so you won't be able to monitor both networks from one Sophos Enterprise Console. You could break your air-gapped network into sub-estates, if it's big enough. As with any network, you'd probably want to define at least one extra role to monitor the network when the administrator is busy.

6.2.3 Updating

When you configure the update manager in the air-gapped network, ensure that it uses a folder on the management server, or a removable device that you manually update with data from the outside network as its update source.

For detailed instructions on setting up an air gapped network, see knowledge base article 64899.

Related information

knowledge base article 64899
6.3 Remote workers, no VPN access

6.3.1 Installation

There are two options for protecting off-site computers without VPN connection:

- You could download the standalone installer and install Sophos Endpoint Security and Control on each computer individually. The users would then update directly from Sophos.
- You could create a self-extracting .exe file for your users to install the software themselves. These users would update from a web location that you configure and update.

6.3.2 Role-based administration

Not applicable, as these computers are not managed.

6.3.3 Updating

Either the computers would update directly from Sophos or they would update from a web location that you configure.

6.4 Home users (extended license)
6.4.1 Installation

The only supported installation for home users is a self-extracting .exe file that you build for them. We do not permit home users to update from the Sophos databanks directly. You will have to create a web folder where your home users can download their updates from.

6.4.2 Role-based administration

Does not apply.

6.4.3 Updating

Create a web folder that will copy the updates from your update manager and allow you to distribute them to your employees’ personal computers at home.

See knowledge base article 63182.

Related information
knowledge base article 63182
7 Technical support

Full release

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

- Visit the Sophos Community at community.sophos.com/ and search for other users who are experiencing the same problem.
- Open a ticket with our support team at https://secure2.sophos.com/support/contact-support/support-query.aspx.
8 Legal notices

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