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## Change Log

<table>
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<tr>
<th>Date</th>
<th>Change Description</th>
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<tbody>
<tr>
<td>November 16, 2015</td>
<td>In step 5, rectified an error in the command for creating installer on OS X.</td>
</tr>
<tr>
<td>December 23, 2015</td>
<td>Rectified an error in Minimum Hardware Requirement and Recommended Hardware Requirement sections.</td>
</tr>
<tr>
<td>August 21, 2017</td>
<td>Updated content for Activation and Registration.</td>
</tr>
</tbody>
</table>
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Preface

Welcome to the Getting Started Guide for Sophos Firewall (SF) Software Appliance (referred to in this document as “Sophos Firewall”). This guide describes how to download, deploy and run Sophos Firewall as a Software Appliance on custom hardware.

Minimum Hardware Requirement

The device will go into fail-safe mode if the minimum requirement is not satisfied

- 2 Network Interface cards
- 1 GB RAM
- 10 GB HDD/SSD size

Recommended Hardware Requirement

- 2 GB RAM
- 64 GB HDD/SSD size

Installation Procedure

Step 1: Download Software Image (ISO)

Download the software image (ISO) from https://sophos.com/en-us/products/next-gen-firewall/free-trial.aspx. You can install the downloaded ISO file on custom hardware, using an Installer. To create the Installer, see Creating an Installer.

Step 2: Creating an Installer

To install the software, you need to write the ISO to a standard USB thumb drive.

On Windows:

2. Run the utility, and browse the downloaded ISO file. The application will look for .IMG files. Change the file filter to (*.*) , then locate and select the Sophos Firewall ISO file.
3. Select the USB thumb drive on which you wish to install the ISO. The thumb drive should have at least 1GB space. Writing the ISO to it will erase its current data.
4. Once the process is complete, your thumb drive is ready to use.

On OS X:

1. Open the Disk Utility included on OS X.
2. Locate the thumb drive in the list of disks.
3. On the partitions tab, change the volume scheme to “1 partition”, and the format to “Free Space”, then click apply.
4. You need to convert the downloaded ISO file into a new format. Open a terminal window, and go to the path where the ISO is stored.
5. Run the command:

   hdiutil convert -format UDRW -o sf.img.dmg SW-SFOS_15.01.0-376.iso

6. The converted ISO will be renamed “sf.img.dmg”.

7. Run the diskutil list and locate the path of the USB device.

8. Write the converted ISO to your thumb drive, using the following command for reference:

   dd if=./sf.img.dmg of=/dev/rdisk9 bs=1m

   In this command, the USB thumb drive’s path is /dev/disk9. Make sure that you use the actual path.

Note:

- The = path adds an “r” before the device path name. This is deliberate, and enables RAW disk access. You may leave the ‘r’ out, but the process will take place much more slowly.
- You may need to run “sudo dd <rest of command>” for the imaging to work on your system.

9. The process will take a few minutes to complete. When you are returned to the command prompt, the thumb drive is ready, and can be ejected.

10. If you face a problem, see http://borgstrom.ca/2010/10/14/os-x-bootable-usb.html for detailed instructions.

Step 3: Installing Sophos Firewall

For the thumb drive to boot, you may need to change the BIOS settings since this is a Software Appliance. You will also need to connect a monitor, keyboard, and a serial cable to the system to complete the installation. You will be prompted twice to start the installation.

Step 4: Booting

When the prompt appears, type y <enter> to start the installation procedure.

Loading ....
Press y to continue
y_

The installation progress will be shown on the screen.

When the installation is complete, remove the thumb drive, and reboot the device. The device will take a few minutes to boot the first time.

The system is now running Sophos Firewall Software Appliance.
Configuring Sophos Firewall

Browse to [https://172.16.16.16:4444](https://172.16.16.16:4444) from the management computer. Click **Start** to begin the wizard and follow the on-screen instructions.

**Note:** The wizard will not start if you have changed the default administrator password from the console.

Activation and Registration

Step 1: License Agreement

You must accept the Sophos End User License Agreement (EULA) to proceed further.

Step 2: Register Your Firewall

Enter the serial number, if you have it. You can also use your UTM 9 license if you are migrating. Otherwise, you can skip registration for 30 days or start a free trial.
You will be redirected to the MySophos portal website. If you already have a MySophos account, specify your login credentials under “Login”. If you are a new user, sign up for a MySophos account by filling in the details under “Create Sophos ID”.

Complete the registration process.

**Step 3: Finishing the basic setup**

Post successful registration of the device, the license is synchronized and the basic setup is done.
Click **Continue** and complete the configurations through the wizard. When you finish the process, the Network Security Control Center appears.

You can now use the navigation pane to the left to navigate and configure further settings.

**Basic Configuration**

a. **Setting up Interfaces**

1. You can add network interfaces and RED connections in the **Configure > Network > Interfaces** menu.
2. You can add wireless networks in the **Protect > Wireless > Wireless Networks** menu. SSIDs will also be shown in the interfaces menu once created.
3. You can add access points in Protect > Wireless > Access Points.

b. Creating Zones

Zones are essential in creating firewall rules and, therefore, central to the security model in XG Firewall. If you wish to create custom zones in addition to the default zones, go to Configure > Network > Zone. You can use these custom zones when creating interfaces, and security policies.

c. Creating Firewall Rules

You can create the following types of firewall rules in Protect > Firewall > Add Firewall Rule. Two types of firewall rules are available:

1. Business Application Rule: To secure a server or service, and allow internal or external users access to it, use a business application rule.
2. User/Network Rule: To control user access to web and application content, or to control traffic by source, service, destination, zone, and user, use a user/network rule.

d. Setting up a Wireless Network

1. Go to Protect > Wireless > Wireless Networks.
2. Click Add to add a new wireless network.
3. Configure the wireless network as shown in the image.

![Wireless Network Configuration](image)

The wireless network will be added successfully.
4. Similarly, add another wireless network for guest access.
You can see both these wireless networks in Protect > Network > Wireless Networks.

5. Go to Protect > Wireless > Access Point Groups.
6. Click Add to add a new access point group.
7. Add both the wireless networks, and the new access point.
If new APs have been installed, you can view these in Control Center.

8. Click the pending APs to accept the new access points.
9. Configure the settings of the new APs as shown in the image.

10. Click **Save**.