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Getting Started Guide

Sophos Firewall Software Device

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Change Log

Date	Change Description
November 14, 2016	Updated for SF-OS 16.01.2.
October 6, 2016	Updated for SF-OS v16.
April 27, 2016	Updated Recommended Hardware Requirement.
November 16, 2015	In step 5, rectified an error in the command for creating installer on OS X.
March 2, 2016	Updated Minimum Hardware Requirement.
December 23, 2015	Rectified an error in Minimum Hardware Requirement and Recommended Hardware Requirement sections.

Preface

Welcome to Getting Started Guide for Sophos Firewall (SF) Software Appliance (hereinafter referred to as "Sophos Firewall"). This guide describes how you can download, deploy and run Sophos Firewall as a Software Appliance on custom hardware.

Note:

Software ISO can be used to install SF-OS on SG and XG series hardware devices after deleting the devices' hard drive partitions.

Minimum Hardware Requirement

Device will go in failsafe mode if minimum requirement is not satisfied.

- x86-64 (64 bit) CPU
- 2 Network Interface cards
- 2 GB RAM
- 10 GB HDD/SSD size

Recommended Hardware Requirement

- 64 GB HDD/SSD size
- 2 GB RAM

Note: To optimize the performance of your Software Appliance, configure CPU cores according to the license you have obtained. While configuring number of CPU cores, ensure that you do not exceed the maximum number limit specific to your license.

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. The downloaded ISO file can be installed on the custom hardware using an Installer. To create the Installer, see 'Creating an Installer' section.

Step 2: Creating an Installer

To install Software you will need to write ISO to a standard USB thumb drive.

On Windows:

1. Download the Win32 Disk Imager utility from http://sourceforge.net/projects/win32diskimager/
2. Run the utility, and browse the downloaded ISO file. The application will default to looking for .IMG files. Be sure to change the file filter to (*.*), then locate and select the **Sophos Firewall ISO file**.
3. Select the USB thumb drive you wish to install the ISO on. The thumb drive should be at least 1GB in size, and writing the ISO to it will erase any data it currently contains.
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 will need to convert the downloaded ISO file into a new format. Open a terminal window, and navigate to the path where the ISO is stored.
5. Run the command:

   hdiutil convert -format UDRW -o sf.img.dmg <Sophos Firewall ISO file>

   Be sure to change the <Sophos Firewall ISO file> in the command above with the software image (ISO) file downloaded in Step 1.

6. As specified in the step above, the converted ISO will be named "sf.img.dmg".
7. Next, locate the device path of the USB device, by running diskutil list.
8. For example purposes, let's say your USB thumb drive's path is /dev/disk9 but be sure to use the actual path of your thumb drive.
9. Next, write the converted ISO to your thumb drive, with the following command:

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

Note:

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

10. Wait a few minutes for the process to complete. When you return to a command prompt, the thumb drive will be ready, and can be ejected.
11. If you run into problems, see http://borgstrom.ca/2010/10/14/os-x-bootable-usb.html for detailed instructions.

Step 3: Installing Sophos Firewall

Since this is a Software Appliance, you may need to change BIOS settings for the thumb drive to boot, if you are installing on your own hardware. You will also need to connect a monitor and keyboard, or a serial cable to the system to complete. You will need to respond to two prompts to begin the installation.

Step 4: Booting

When prompted, press **y <enter>** to start the installation procedure.

The installation progress will be shown on the screen, as it continues.

Once the installation is complete, remove the thumb drive, and reboot the device. Give it a couple minutes for the first boot to complete.

At this point, the system is now running Sophos Firewall Software Appliance.

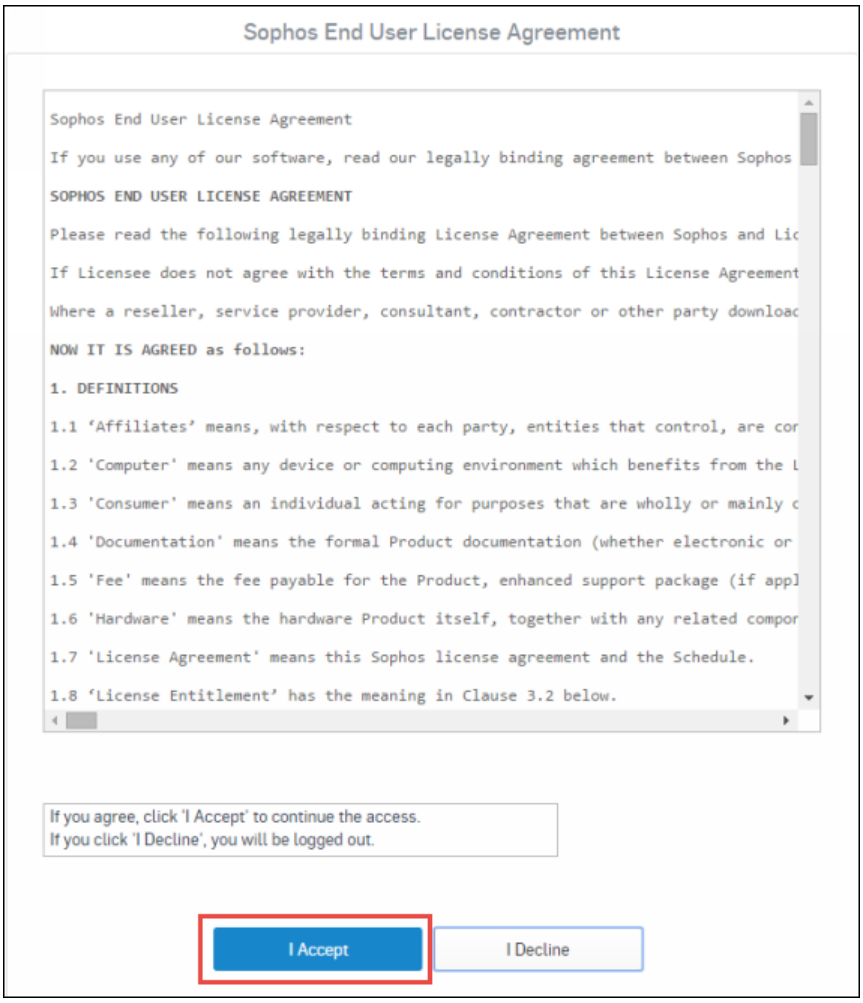
Configuring Sophos Firewall

Browse to https://172.16.16.16:4444 from the management computer and log on to Admin Console using the default credentials username – admin and password – admin.

Activation and Registration

Step 1: License Agreement

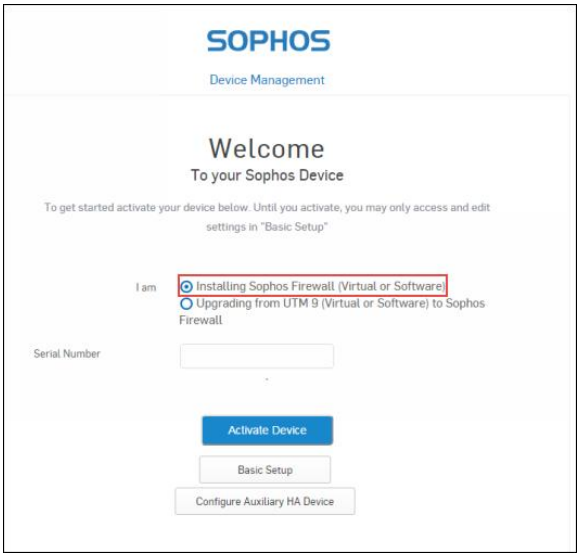
The moment you log in, you will be redirected to the Sophos End User License Agreement (EULA). You need to accept the agreement to proceed further.

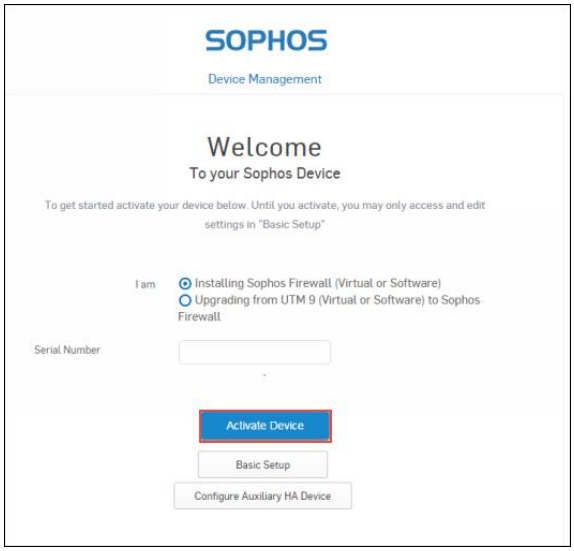


Click **I Accept** to navigate to the welcome page.

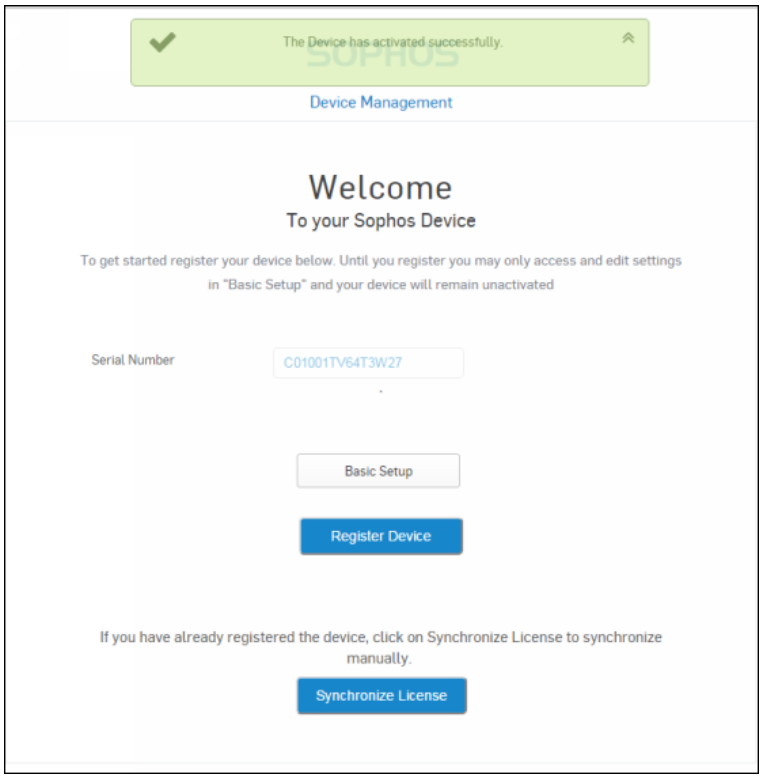
Step 2: Activating Sophos Firewall

Select **Installing Sophos Firewall (Virtual or Software)** option to continue the activation of Sophos Firewall, specify serial number mailed at your registered email address and click Activate Appliance.



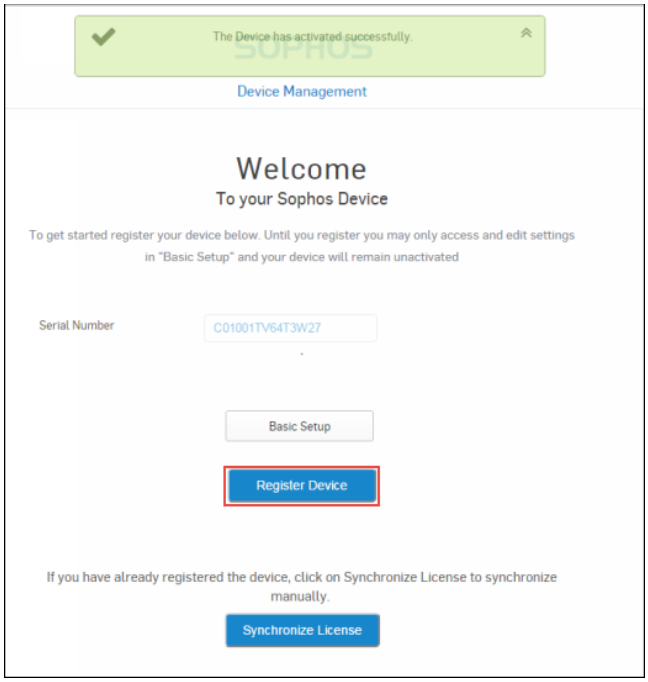


Note: Make sure your current network configuration allows Sophos Firewall to connect to the Internet for activation. If not, click **Basic Setup** to modify the network settings so that the Sophos Firewall can connect to the Internet.

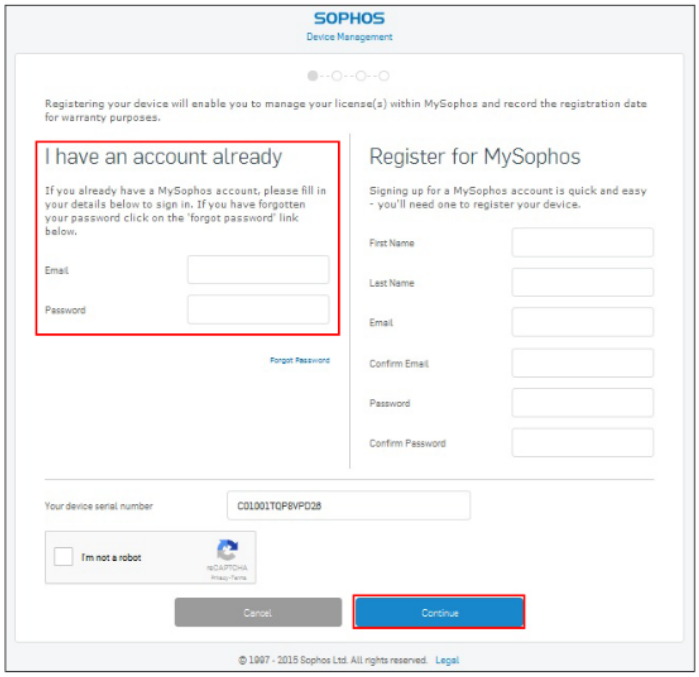


Step 3: Registering Sophos Firewall

Click **Register Device** to initiate the registration process.



After clicking "Register Device", you are redirected to the MySophos portal website. If you already have a MySophos account, specify your login credentials under "I have an account already". If you are a new user, sign up for a MySophos account by filling in the details under "Register for MySophos".

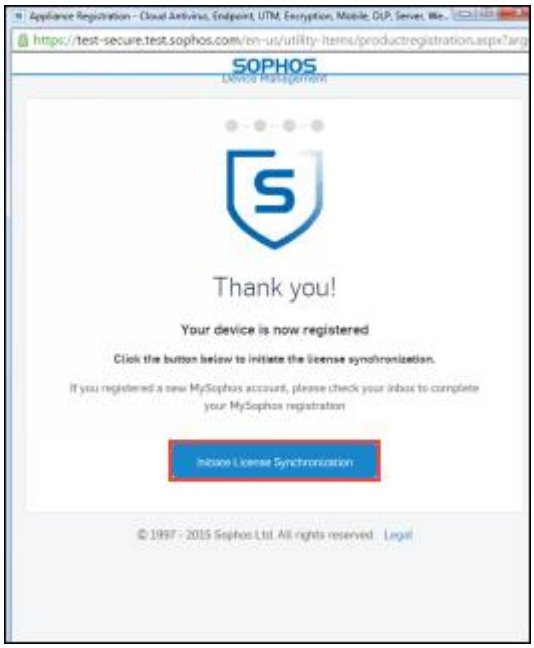


Click Continue to complete the registration process.

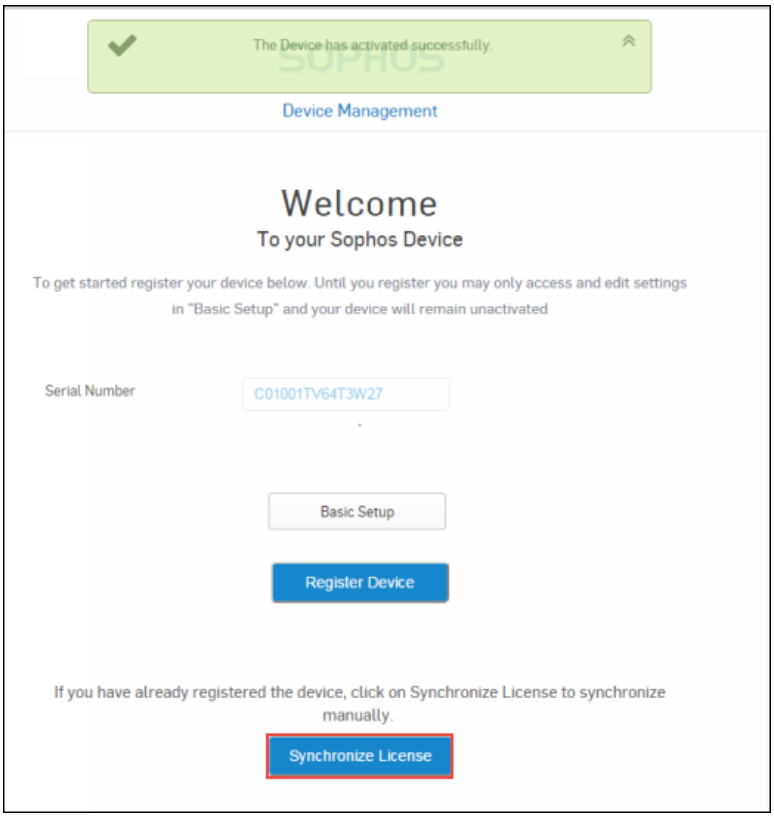
Step 4: Initiate License Synchronization

Post successful registration of the device, you need to synchronize license details with Sophos servers.

As shown in the image below, click **Initiate License Synchronization** to initiate the license synchronization process:

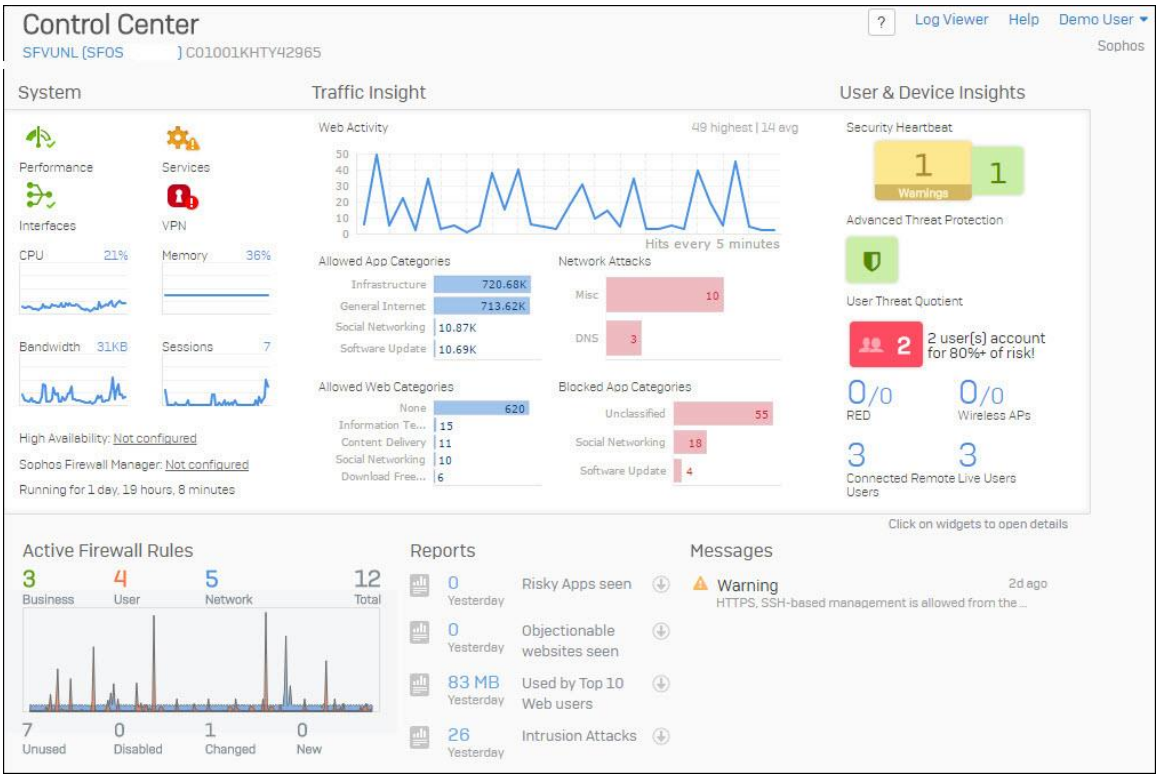


Click Synchronize License to synchronize licenses.



Click **Click Here** in the image above to run the **Network Configuration Wizard**. The wizard walks you through the steps to setup initial configuration of your Sophos Firewall so that you can begin creating your security policies.

Click **Start** to begin the wizard and follow the on-screen instructions. Once the configuration is successfully done, Control Center will be displayed.



You can now use the Navigation pane on the left hand side of the UI to navigate and configure further settings.

Basic Configuration

a. Setting up interfaces

1. Network interfaces and RED connections are defined in the **Configure > Network > Interfaces** menu.
2. Wireless networks are defined in the **Protect > Wireless** menu, and SSIDs will also be shown in the interfaces menu once created.
3. Access points may be configured or added, in **Protect > Wireless > Access Points**.

a. Creating Zones

Zones are central to the security model in SF. If you wish to create more zones than are offered by default, go to **Configure > Network > Zones**. You can then use those zones when creating interfaces, and security policies.

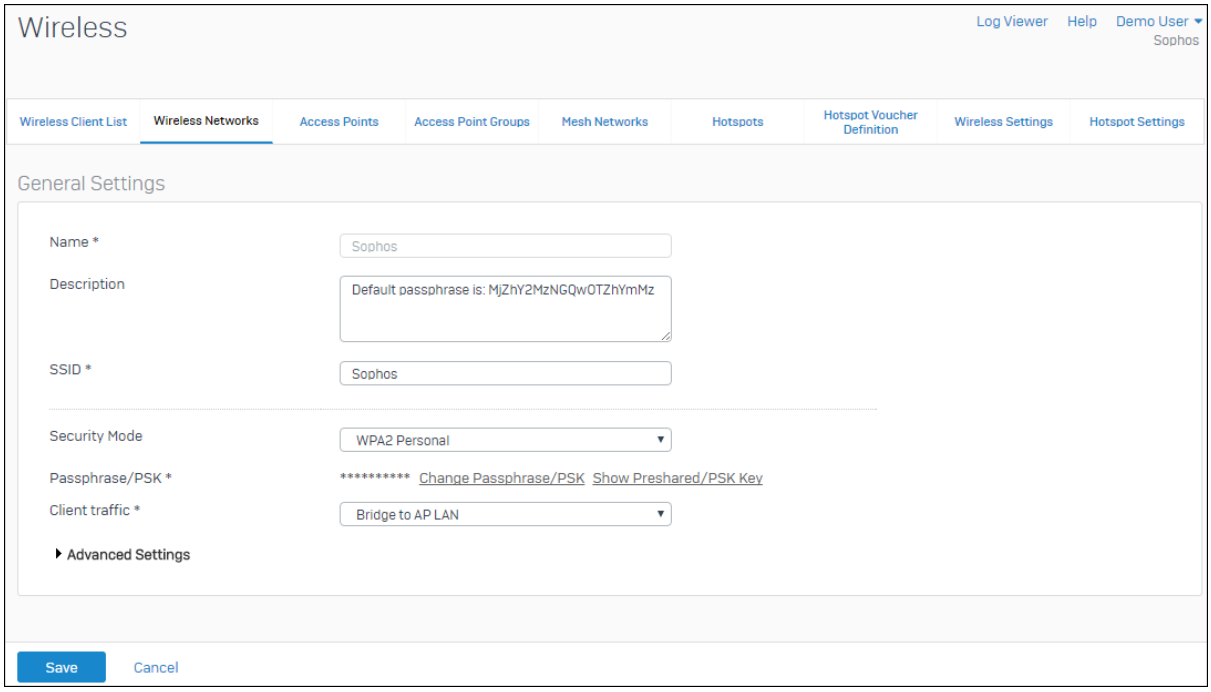
b. Setting up Firewall Rules

All security related policies are defined in the Firewall menu. There are two different firewall rule types available:

1. Business Applications Rule - If you are securing a server or service, use a business application rule to allow internal or external users to access that service.
2. User/Network Rule - If you are controlling what web and application content your protected users can access, or want to control traffic by source, service, destination, zone, (and user) then use a user/network rule.

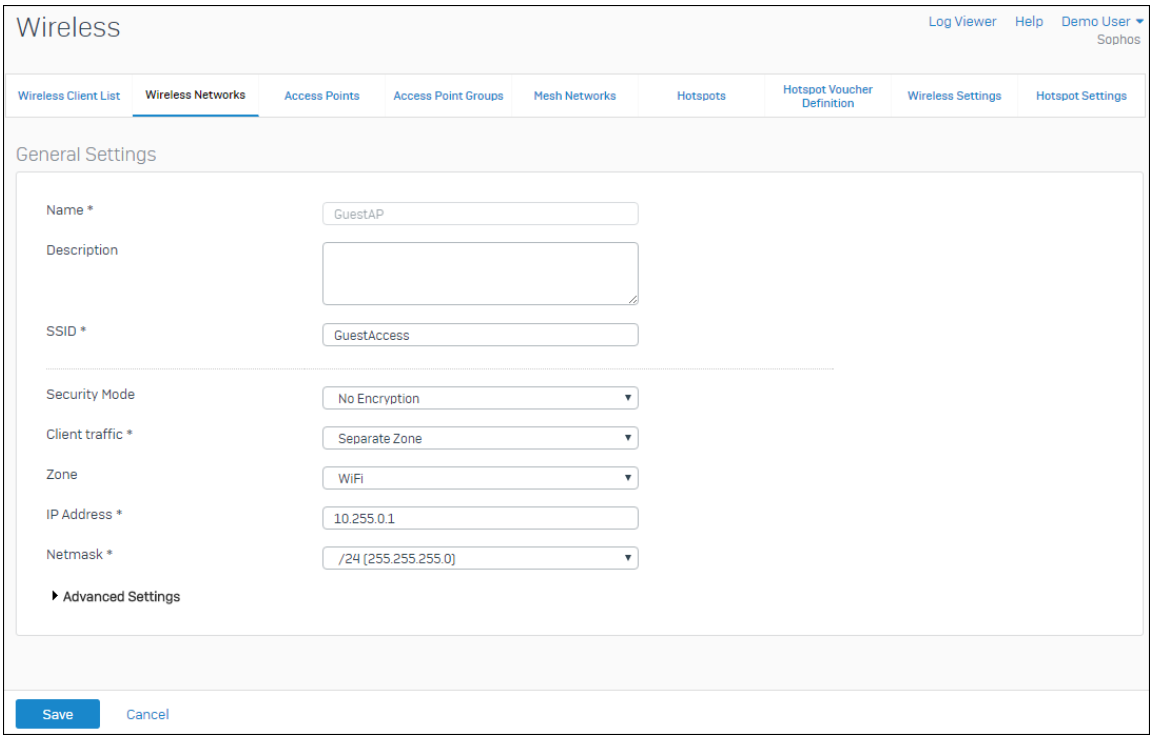
c. Setting up Wireless Network

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 screen below.

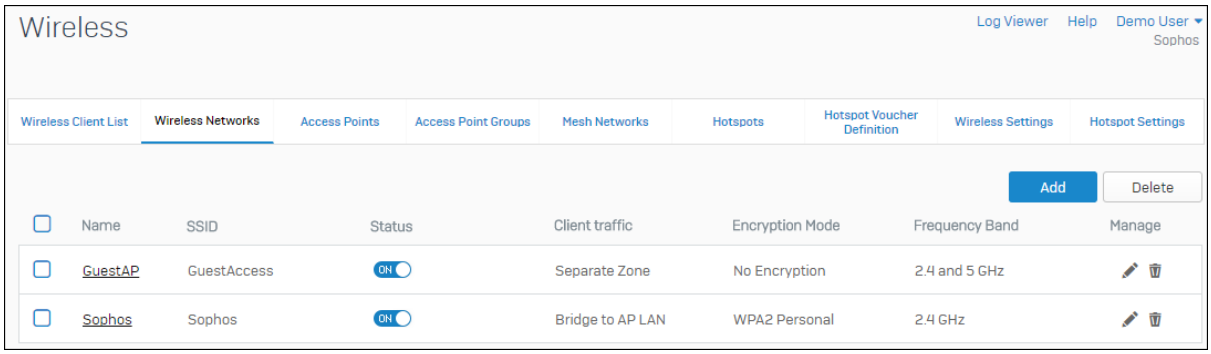


The wireless network will be added successfully.

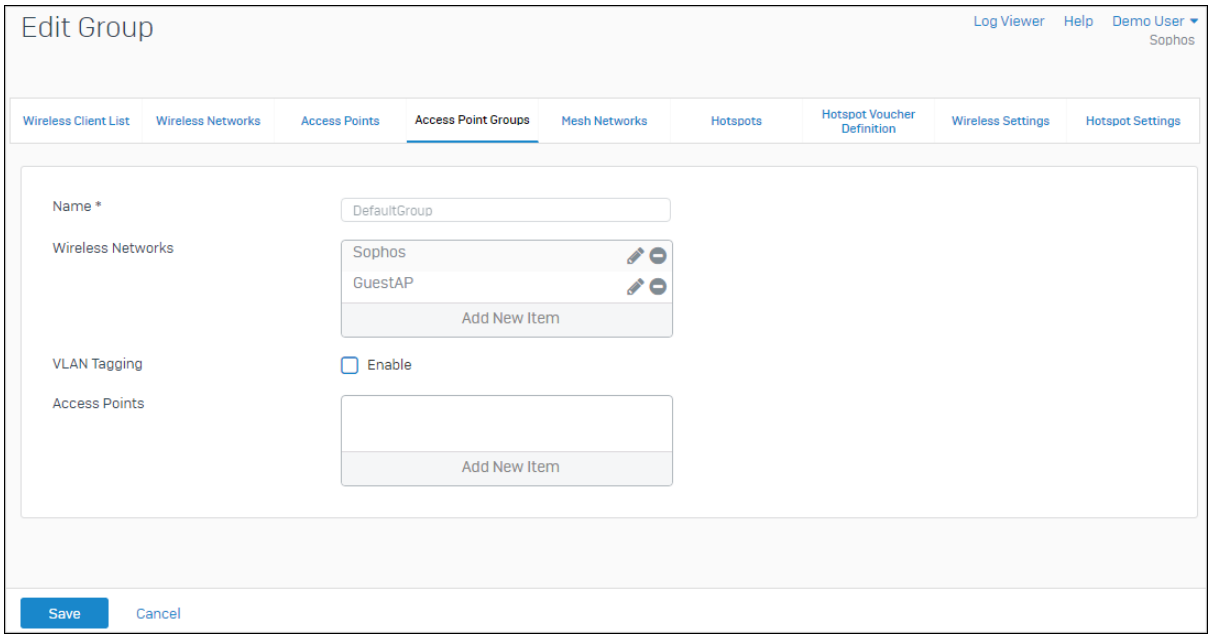
4. Add another Wireless Network for Guest Access as shown in the image below.



Both the added wireless networks can now be seen on the Wireless Network page.



5. Navigate to **Protect > Wireless > Access Point Groups**.
6. Click **Add** to add a new access point group.
7. Configure the new AP group, and add both wireless networks, and the new access point.



In some time, you can continue to discover and add APs from Control Center.

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