

SOPHOS UTM
HOME EDITION 9.6 IN
PROXMOX VE
Installation Guide

PICO PC®

MNHO-043

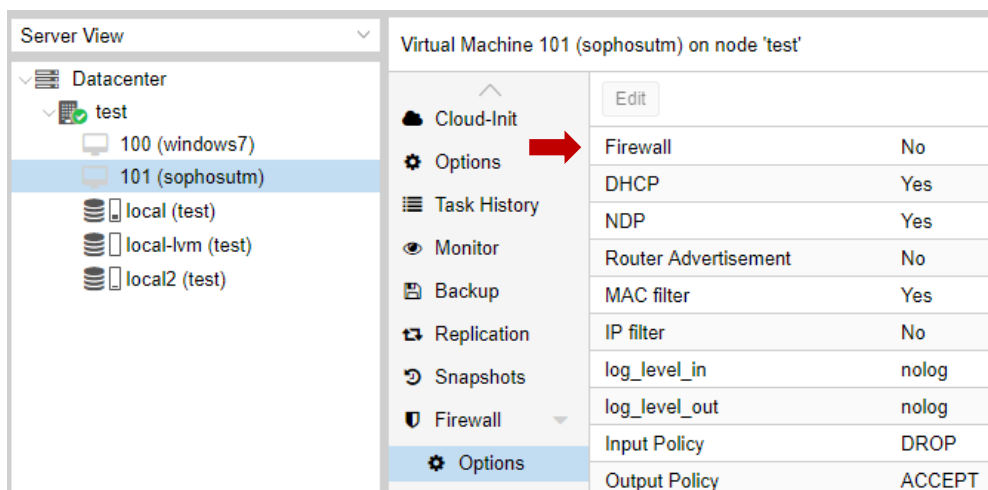
MNHO-048

MNHO-073

1. Pre-requisites

Before proceeding to the installation, the intended user should know that in order to install Sophos UTM 9.6 in Proxmox Virtual Environment the following steps should be followed:

- First, we need to specify the hardware requirements for Sophos UTM 9.6 for our VM.
- Since Proxmox is a virtual environment we can get hardware right away.
- One vCPU
- Cores minimum 1 or more depending upon your requirement
- Minimum 2 GB RAM or higher
- 2 vNIC
- Hard disk 40 GB
- The firewall for Proxmox must be set to “Off” for the Sophos UTM virtual machine

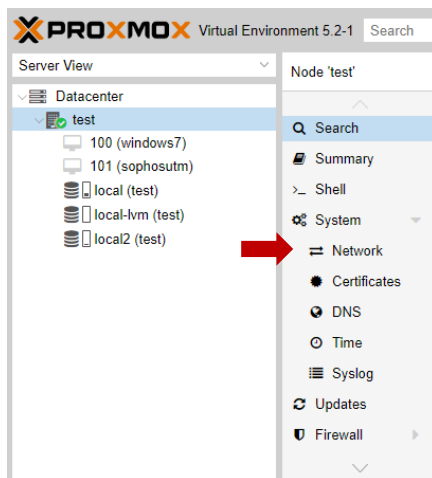


The screenshot displays the Proxmox VE interface. On the left, the 'Server View' shows a tree structure with 'Datacenter' expanded to 'test', where VM '101 (sophosutm)' is selected. The main panel shows the configuration for 'Virtual Machine 101 (sophosutm) on node 'test''. A red arrow points to the 'Options' menu item, which is open to show the 'Firewall' setting set to 'No'. Other settings include DHCP (Yes), NDP (Yes), Router Advertisement (No), MAC filter (Yes), IP filter (No), log_level_in (nolog), log_level_out (nolog), Input Policy (DROP), and Output Policy (ACCEPT).

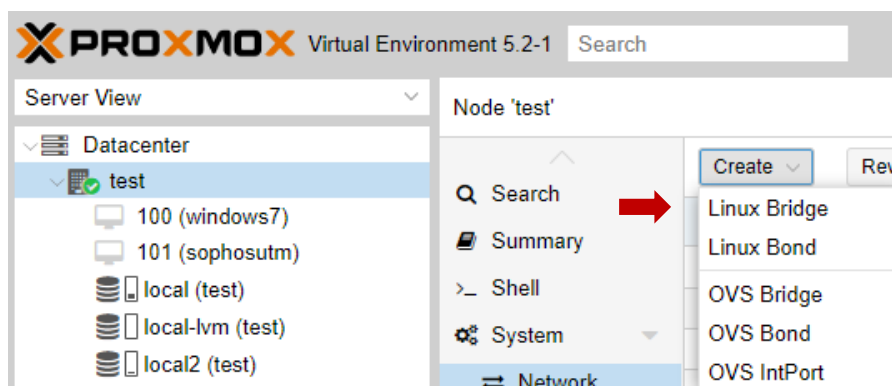
Setting	Value
Firewall	No
DHCP	Yes
NDP	Yes
Router Advertisement	No
MAC filter	Yes
IP filter	No
log_level_in	nolog
log_level_out	nolog
Input Policy	DROP
Output Policy	ACCEPT

2. Network Configuration

- In all firewalls we have minimum one LAN and one WAN port to achieve internet connection.
- In the virtual environment it's the same case but the connections are not physical but virtual and need to be specified in Proxmox before proceeding with the installation else it will cause problems during installation.
- For WAN - eth0 = vmbr0 - Mode = Bridge
- For LAN - eth1 = vmbr1 - Mode = Bridge
- In order to set this up simply select the Node "Test" in our case and go to "Network".



- Now select "Create" and choose "Linux Bridge".



- Now specify the port for your LAN connection “enp4s0” and select “Create”.

Create: Linux Bridge

Name: Autostart:

IP address: VLAN aware:

Subnet mask: Bridge ports:

Gateway: Comment:

IPv6 address:

Prefix length:

Gateway:

Create

3. Virtual Machine

- In order to create a VM start by selecting “Create VM”.



- Now specify the “ID” for your VM and “Name”. ID could be in the ascending order of “100” then select “Next”.

Create: Virtual Machine

General OS Hard Disk CPU Memory Network Confirm

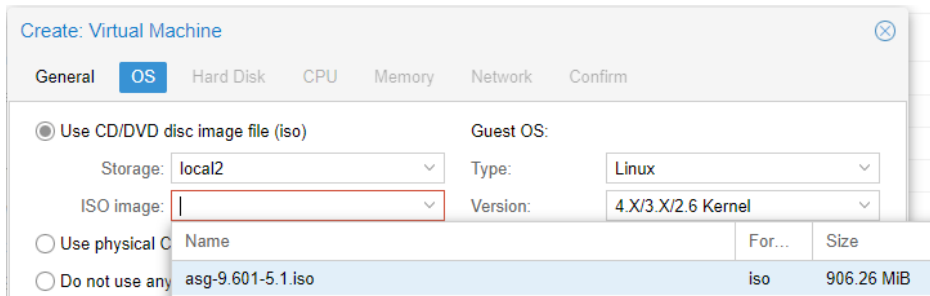
Node: Resource Pool:

VM ID:

Name:

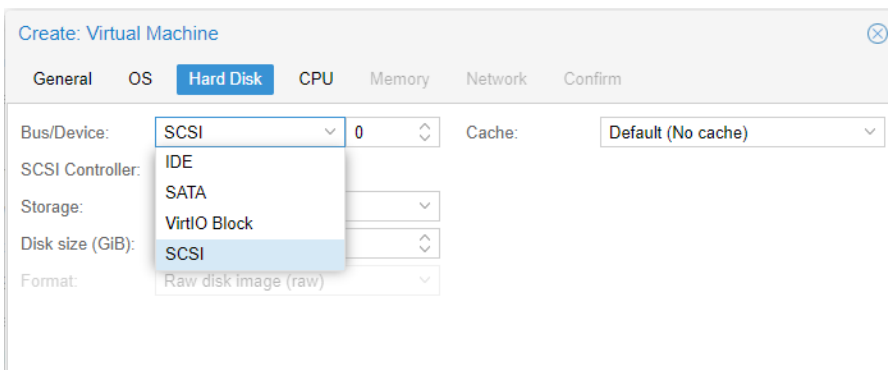
Help Advanced Back Next

- In the “OS” section you need to specify the location for storage “either primary or secondary drives” depending on your requirement. Specify the ISO Image for “Sophos” which you have uploaded and “Guest OS” type as either linux or other then select “Next”.

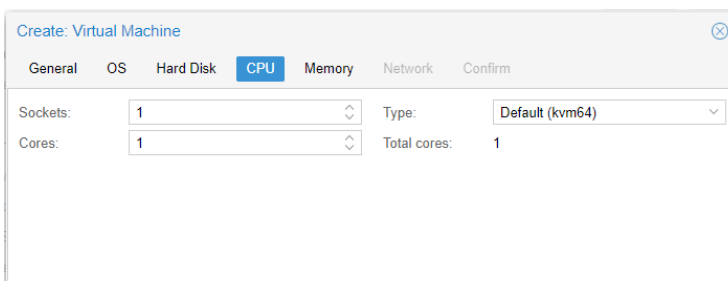


Name	For...	Size
asg-9.601-5.1.iso	iso	906.26 MiB

- Now you need to specify the “Hard Disk”. Select either “IDE or SATA or Virtio Block or SCSI” depending upon your requirement. We select “SATA” and for storage of the VM specify either the primary or secondary drive. Disk size should be 40 GB or more depending upon the features you may wish to utilize. Leave the “Cache” to default and select “Next”.



- Now in the CPU selection section you need to specify “sockets” if you have a multi-socket CPU and same goes for the “cores”. Type will be “kvm64” then select “Next”.



- Now minimum memory requirement is “2 GB” but for better performance you can increase it as well.

Memory (MiB): 2048

- Now we need to specify the first network adapter and once the VM is created add the second network adapter. You can select “vibr0” for WAN and the other for LAN. The model should be VirtIO (paravirtualized). Make sure the firewall is disabled for the adapters as well.

Bridge: vibr0 Model: VirtIO (paravirtualized)

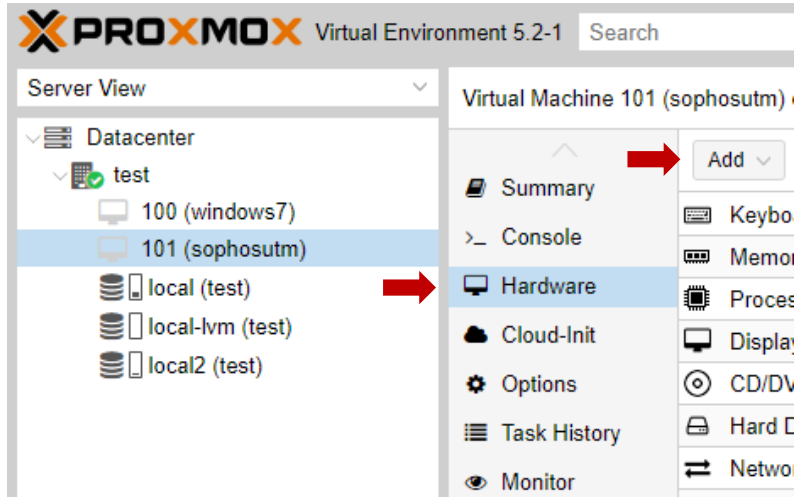
Bridge ↑	Active	Comment
vibr0	Yes	
vibr1	Yes	

- Next step is to confirm the settings and select “finish”.

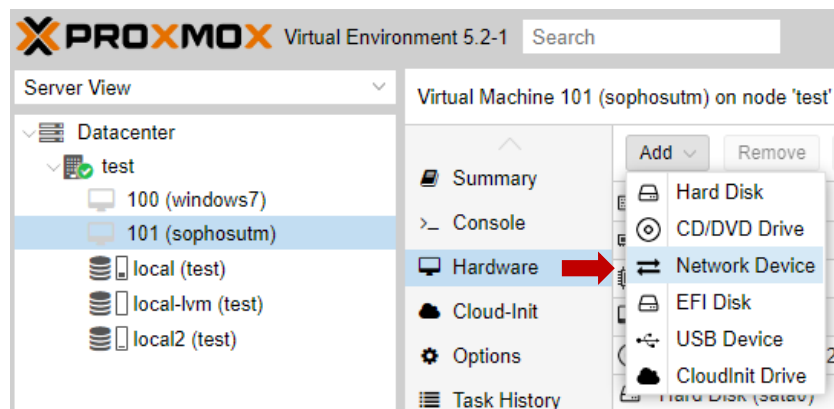
Key ↑	Value
cores	2
ide2	local2:iso/asg-9.601-5.1.iso,media=cdrom
memory	2048
name	sophosutm
net0	virtio,bridge=vibr0
nodename	test
numa	0
ostype	l26
scsi0	local-lvm:32
scsihw	virtio-scsi-pci
sockets	1
vmid	102

Advanced Back Finish

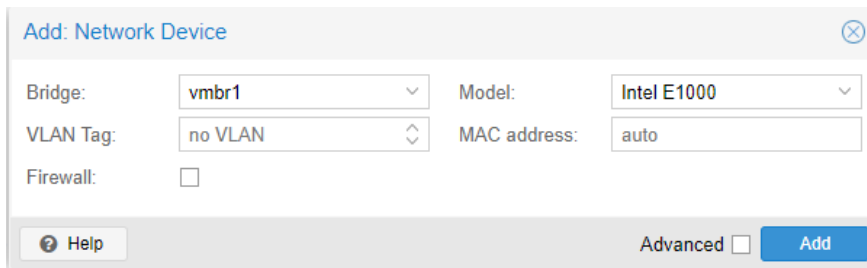
- Now we need to specify the second network adapter. Select the newly created “VM” then go for “hardware” and select “Add”.



- Now select “Network device”.



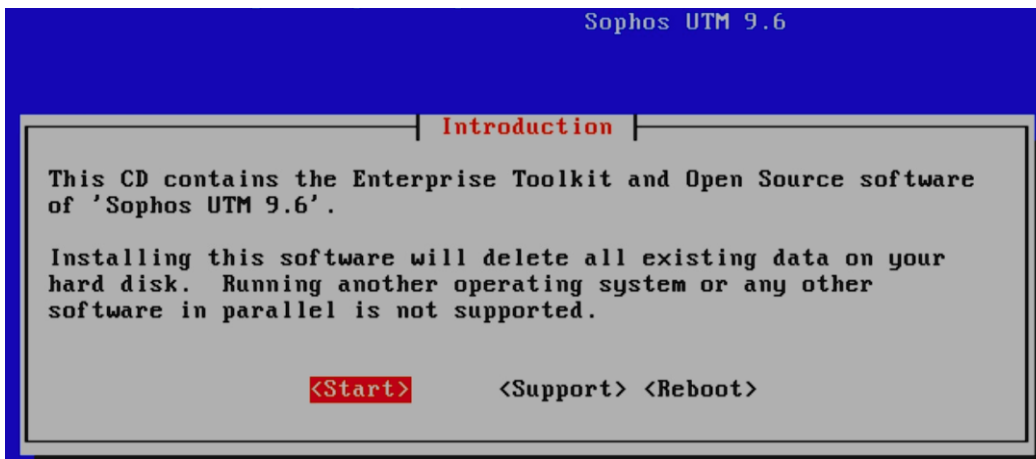
- Specify the bridge for the “WAN” connection which is “vmbr1”.



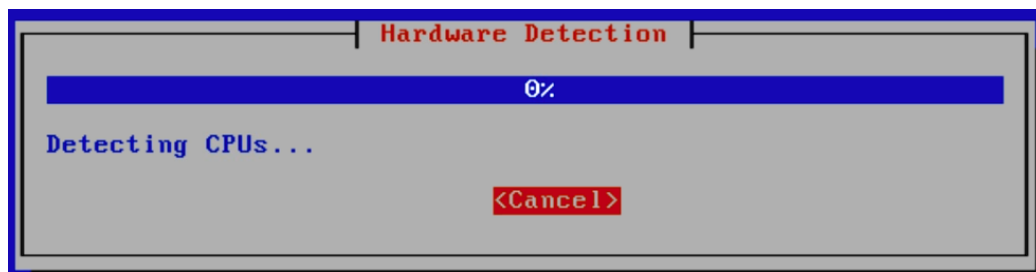
- Now power on the VM, go to “console” and press “enter”.



- This will start the booting process and you will be presented with the introduction screen. Select start and proceed with the installation.



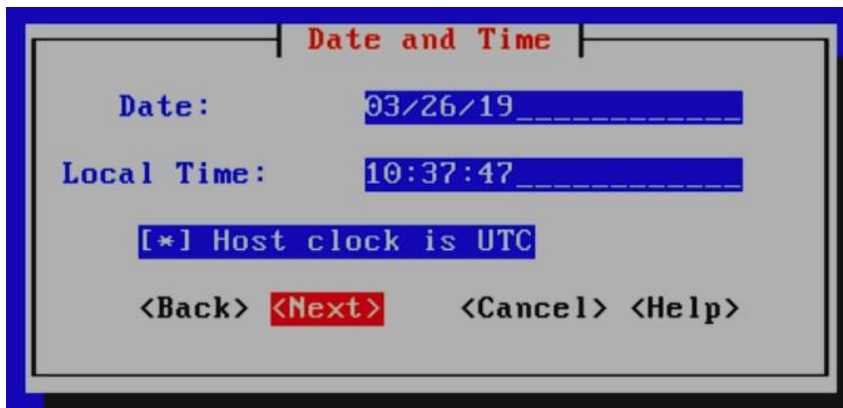
- This will start the “hardware detection” process.



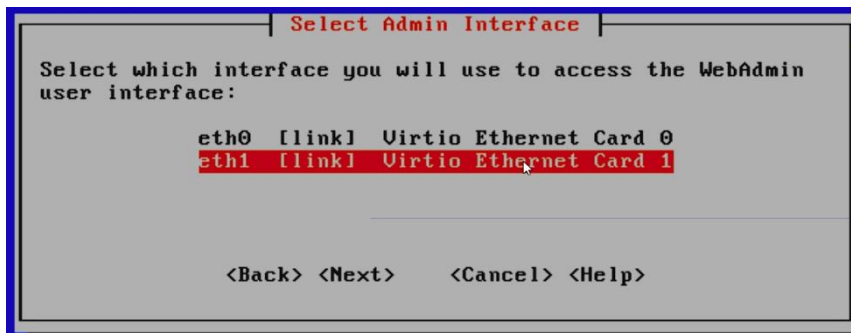
- Once the hardware detection is complete you will need to specify the time zone and select “Next”.



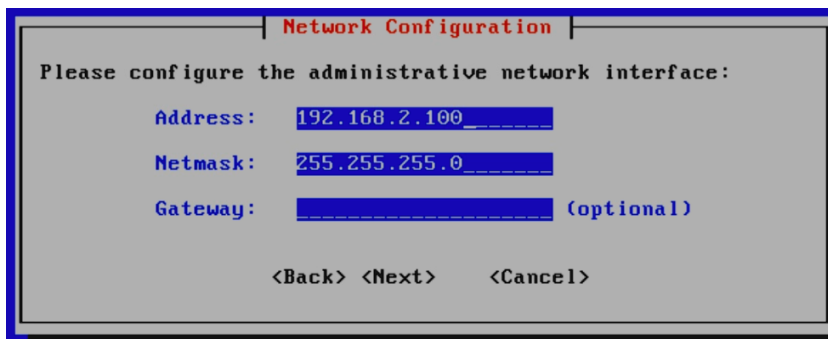
- Specify the “date and time”.



- Specify the network interface to access the Sophos UTM WebGUI

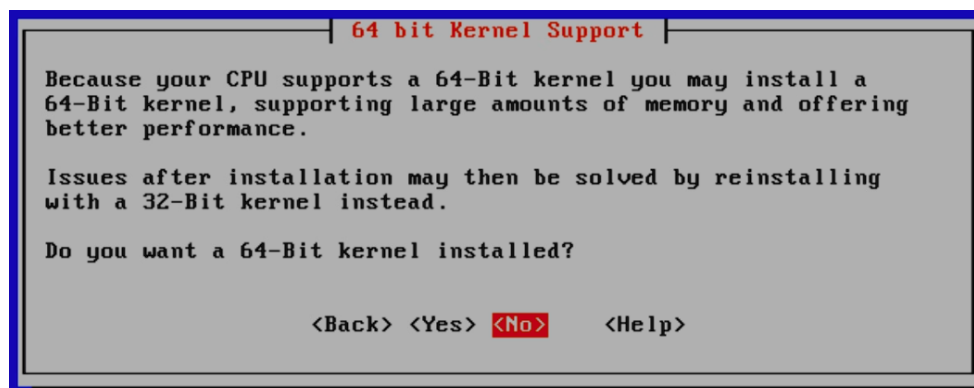


- Now specify the IP configuration for administrative network interface.



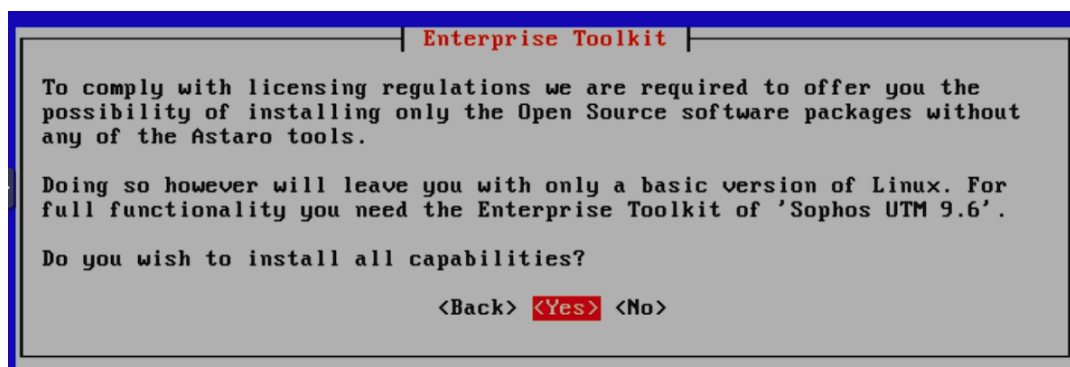
```
Network Configuration
Please configure the administrative network interface:
Address: 192.168.2.100
Netmask: 255.255.255.0
Gateway: _____ (optional)
<Back> <Next> <Cancel>
```

- You will be prompted install either the 32-bit or the 64-bit version. As of right now the 64-bit version is not compatible with Proxmox VE as per the “Sophos Support Forum” so proceed with the 32-bit version.



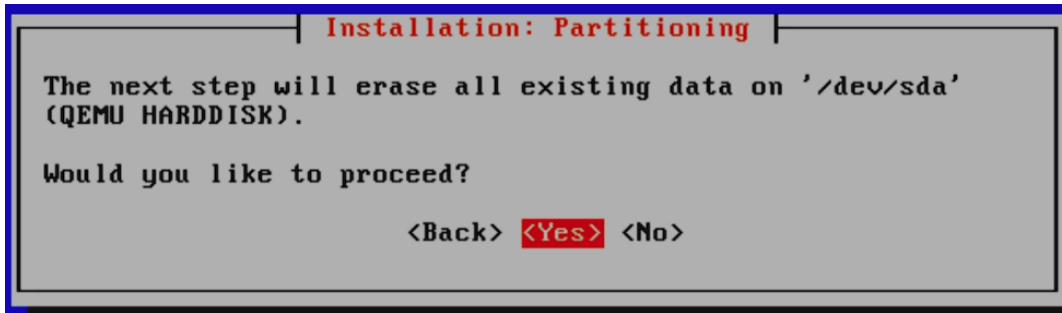
```
64 bit Kernel Support
Because your CPU supports a 64-Bit kernel you may install a
64-Bit kernel, supporting large amounts of memory and offering
better performance.
Issues after installation may then be solved by reinstalling
with a 32-Bit kernel instead.
Do you want a 64-Bit kernel installed?
<Back> <Yes> <No> <Help>
```

- Install the enterprise tool kit.

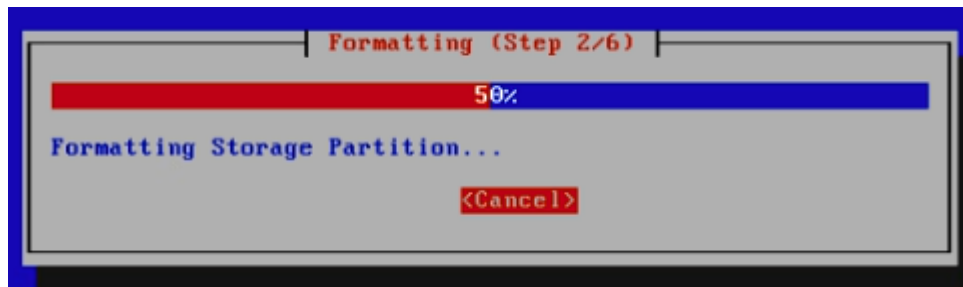


```
Enterprise Toolkit
To comply with licensing regulations we are required to offer you the
possibility of installing only the Open Source software packages without
any of the Astaro tools.
Doing so however will leave you with only a basic version of Linux. For
full functionality you need the Enterprise Toolkit of 'Sophos UTM 9.6'.
Do you wish to install all capabilities?
<Back> <Yes> <No>
```

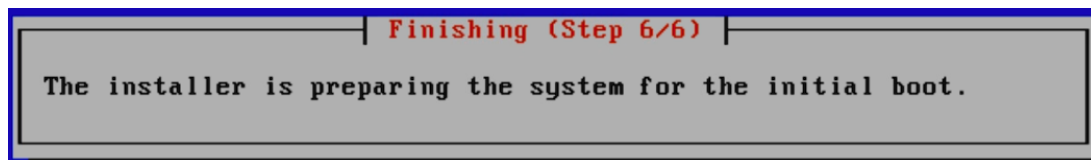
- Proceed with the partitioning.



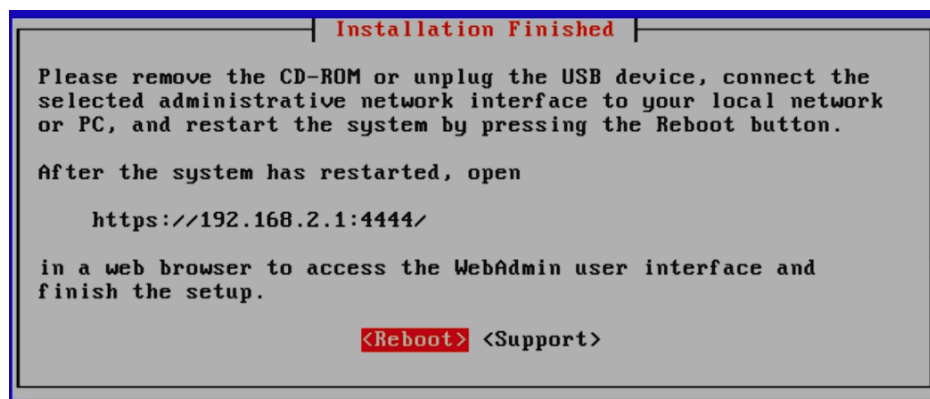
- The process will start formatting.



- Just before finalizing you will be prompted.



- Afterwards you will be prompted to reboot and provided with the URL to access the WebGUI of Sophos but before you do make sure to eject the ISO image file so that you don't get main boot screen again for installation.



- Upon reboot you'll be presented with the Sophos boot screen. You can press "F2" to see the details.

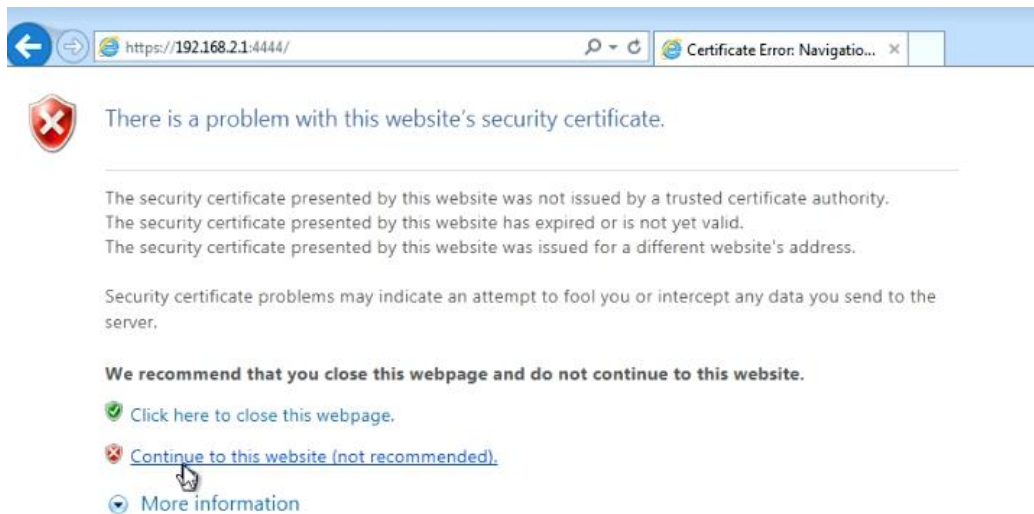


- Once booting is complete, you'll get this screen.

```
All configuration is done with WebAdmin. Go to https://192.168.2.1:4444
in your browser.

192.168.2.1
login:
```

- Open the browser and access the Sophos WebGUI.



- You will need to go through the basic setup to finalize the settings.

The screenshot shows the Sophos UTM 9 WebAdmin interface. The browser address bar shows <https://192.168.2.1:4444/>. The page title is "WebAdmin". The main content area is titled "Welcome to WebAdmin" and contains a "Basic system setup" form. The form fields are:

- Hostname:
- Company or organization name:
- City:
- Country:
- admin account password:
- Repeat password:
- admin account email address:

On the right side of the form, there is a note: "These settings must be made before the system can be used. Please note that ALL fields must be filled in and the hostname must not contain special characters or spaces. After applying the settings, log into the system with username **admin** and the password you set below."

- Agree to perform the basic system.

The screenshot shows the "SOPHOS LICENSE AGREEMENT" section of the WebAdmin interface. The text of the agreement is as follows:

SOPHOS LICENSE AGREEMENT

Please read carefully the following legally binding License Agreement between Sophos and Licensee (as defined below) for the Products defined below. By selecting the accept option, breaking the seal on the software package or installing, copying or otherwise using the Products, Licensee acknowledges that Licensee has read, understands, and agrees to be bound by the terms of this License Agreement. If Licensee does not agree with the terms of this License Agreement, do not install or otherwise use the Products and, if applicable, promptly return them and the accompanying items (including ANY written materials and packaging) to Licensee's supplier together with proof of purchase for a full refund.

If Licensee does not agree with any of the terms or conditions of this License Agreement, Licensee is not authorized to use the Products for any purpose whatsoever. Also, by installing, copying or otherwise using Updates and/or Upgrades from Sophos, Licensee agrees to be bound by any additional license terms that accompany such Updates and/or Upgrades.

Below the agreement text, there is a "Print EULA" button and a checkbox labeled "I accept the license agreement" which is checked. At the bottom right, there is a "Perform basic system setup" button with a green checkmark icon, which is being clicked by a mouse cursor.

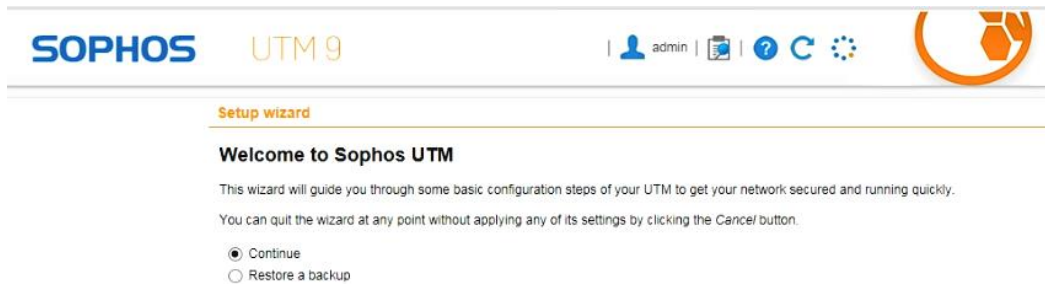
- You will be prompted to login for the first time. The username is "admin" and the password you specified.

Login to WebAdmin

Username:

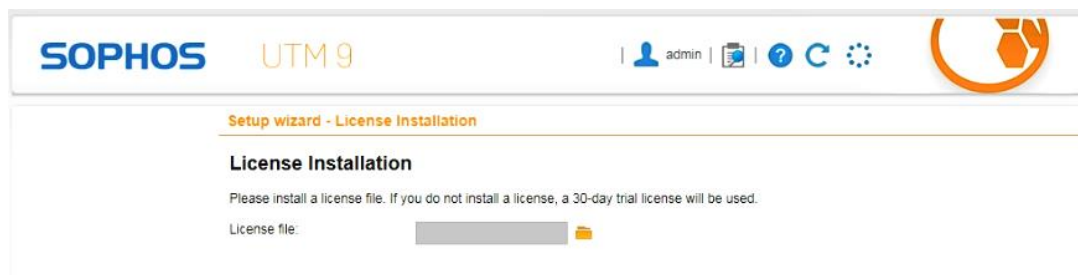
Password:

- Proceed with the setup wizard.



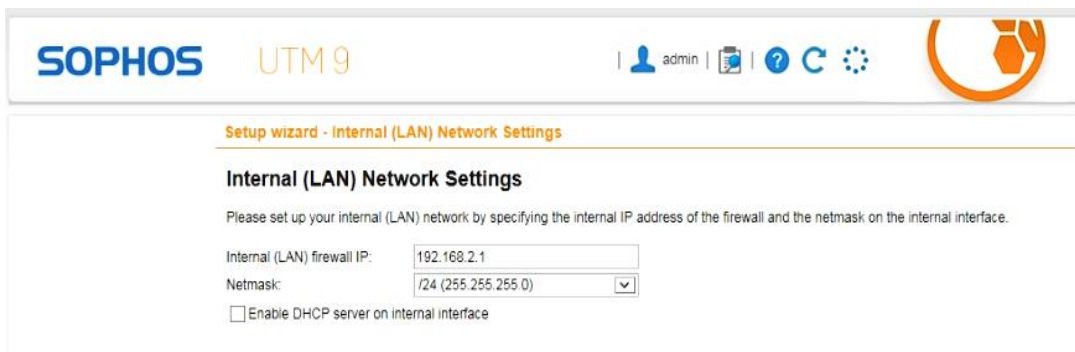
The screenshot shows the 'Setup wizard' interface for Sophos UTM 9. The header includes the 'SOPHOS UTM 9' logo and a navigation bar with 'admin', a help icon, a refresh icon, and a settings icon. The main content area is titled 'Setup wizard' and 'Welcome to Sophos UTM'. It contains the following text: 'This wizard will guide you through some basic configuration steps of your UTM to get your network secured and running quickly. You can quit the wizard at any point without applying any of its settings by clicking the Cancel button.' Below this text are two radio buttons: 'Continue' (which is selected) and 'Restore a backup'.

- Upload your Sophos UTM license file else firewall will expire after 30 days.



The screenshot shows the 'Setup wizard - License Installation' screen. The header is the same as the previous screen. The main content area is titled 'License Installation' and contains the text: 'Please install a license file. If you do not install a license, a 30-day trial license will be used.' Below this text is a 'License file:' label followed by a file upload button (represented by a folder icon).

- Setup the LAN interface for the firewall. Make sure to enable "DHCP".



The screenshot shows the 'Setup wizard - Internal (LAN) Network Settings' screen. The header is the same as the previous screens. The main content area is titled 'Internal (LAN) Network Settings' and contains the text: 'Please set up your internal (LAN) network by specifying the internal IP address of the firewall and the netmask on the internal interface.' Below this text are two input fields: 'Internal (LAN) firewall IP:' with the value '192.168.2.1' and 'Netmask:' with a dropdown menu showing '/24 (255.255.255.0)'. At the bottom, there is a checkbox labeled 'Enable DHCP server on internal interface' which is currently unchecked.

- Once you are done with the setup you can connect the LAN 2 interface to your I.T infrastructure and manage your network.

THANK YOU

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