



**ENDPOINT
PROTECTOR**

| by CoSoSys

Virtual and Hardware Appliance

User Manual



Version: 5.0
28 November 2023

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Document Changelog

Version	Date	Notes
1.0	2020	The document was created.
2.0	16 May 2022	The document was updated with the current template.
3.0	19 Jul 2022	Images from chapters Endpoint Protector Configuration , Server Information, and Maintenance and Support were updated.
4.0	11 Nov 2022	Deleted the Installing Root Certificate to Browsers chapter.
5.0	28 Nov 2023	Revised chapter 4 (Genius Chando) Legal approved

1. Endpoint Protector Virtual Appliance formats

The Endpoint Protector Virtual Appliance is available in different formats and for various platforms. The table below provides a list of supported virtual environments, versions, and main formats.

1.1. Table

In addition to the Virtual Environments mentioned above, the Endpoint Protector Virtual Appliance can also be run on older versions of the virtualization software. This makes testing and implementation as easy as possible. Additional information can be found in the following chapters.

Supported Virtual Environments	Version	.OVF	.OVA	.VMX	.VHD	.PVM	.XVA
VMware Player	7.1.0	•	•	•			
VMware Workstation	11.1.0	•	•	•			
Oracle VM VirtualBox	5.0.28	•	•				
VMware vSphere (ESXi)	6.0.0	•	•				
VMware Fusion Professional	7.1.3	•	•				
Hyper-V Manager Windows Server 2016	10.0.14393.0				•		
Parallels Desktop	11.1.3					•	
Citrix XenCenter	6.2						•

Note: The most commonly used format is **OVF** (Open Virtualization Format) as it is compatible with the majority of the virtualization software.

1.2. Format supported by Virtualization Software

In addition to the virtualization software listed in the previous table, these formats are also supported by the following:

1. OVF and OVA

- VMware Workstation 11.1
- VMware Player 5.0 (or higher)
- VMware Fusion 7.1.2
- VMware ESXi 5.1 (or higher)
- Oracle VM VirtualBox
- Citrix XenCenter 6.2

2. VHD

- Microsoft Hyper-V 6.1.7601.17514
- Microsoft Hyper-V 6.3.9600.16384

3. PVM

- Parallels Desktop 10.2.1

4. XVA

- Citrix XenServer 5.5
- Citrix XenServer 6.0

5. VMX

- VMware Player 5.0 (or higher)
- VMware Workstation 9.0 (or higher)

Note: The [.VMX virtual appliance](#) is set to run on the latest VMware Workstation version (v11.x.x) and the latest VMware Player version (v7.x.x).

To run the virtual appliances on older VMware Workstation / VMware Player versions, follow these steps:

1. Extract the .zip archive and go to the extract location;
2. Click to edit the .VMX file using a text editor;
3. Search for the "virtualHW.version" field;
4. Replace the default version (default = 11) to the new version
 - ☒ if you want to run the .VMX virtual appliance on VMware Workstation v9.x.x or VMware Player v5.x.x, then virtualHW.version = "9"
 - ☒ if you want to run the .VMX virtual appliance on VMware Workstation v10.x.x or VMware Player v6.x.x, then virtualHW.version = "10"
5. Save the changes and close the text editor;
6. Import the virtual image;
7. Play the virtual machine.

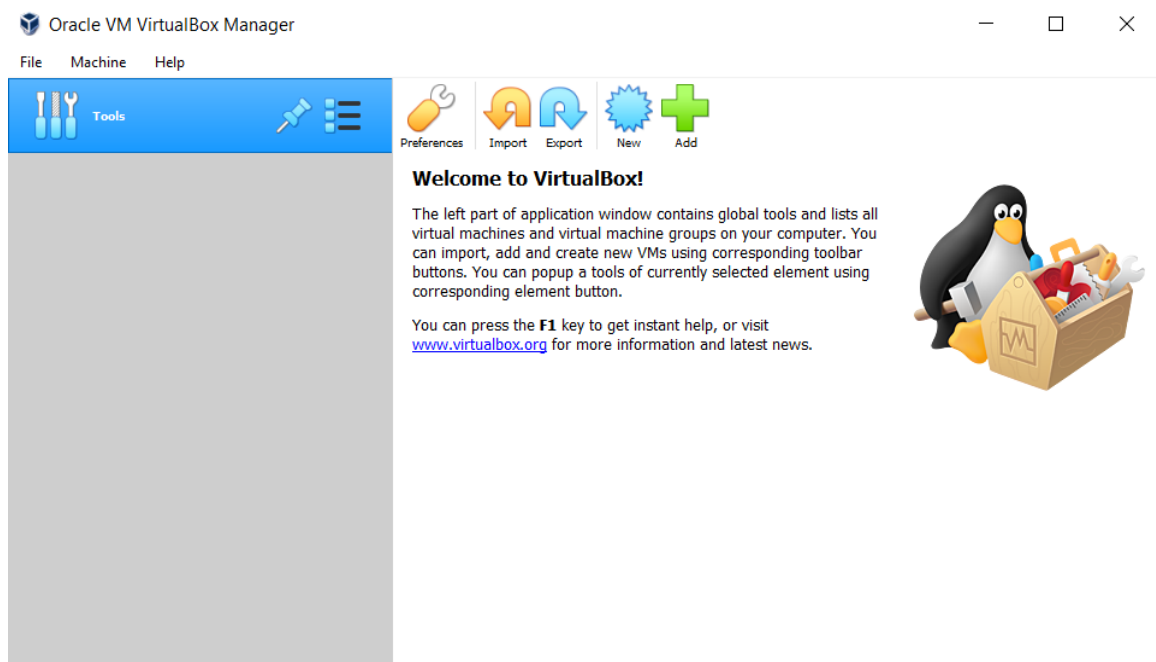
2. Implement using the OVF format

There are several options to implement the Endpoint Protector Virtual Appliance using the OVF format.

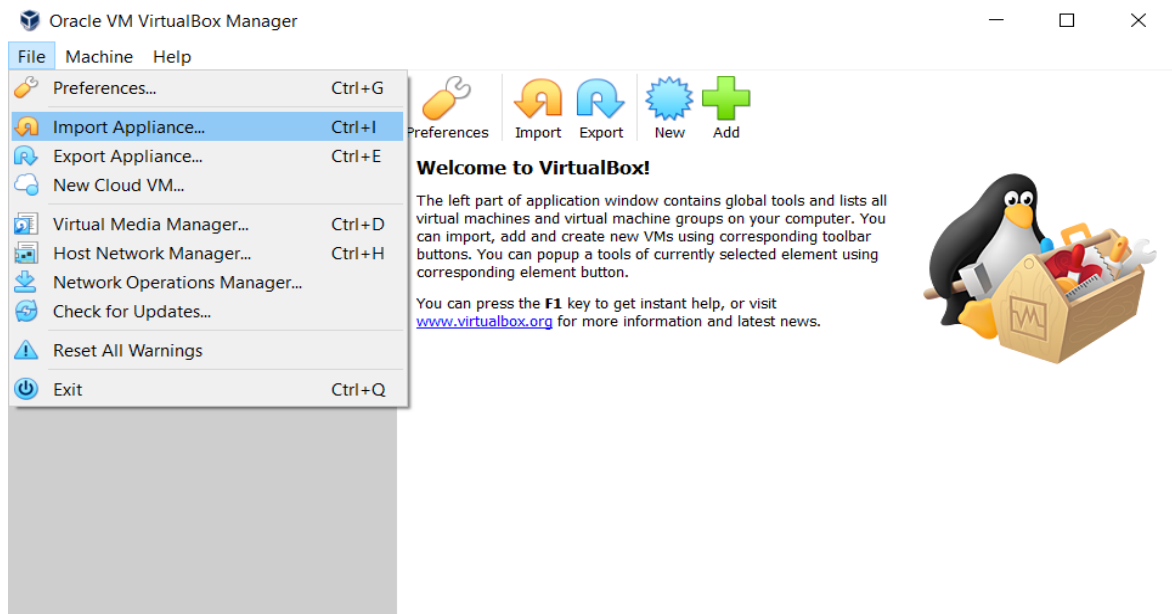
2.1. Oracle VM VirtualBox

To implement using the Oracle VM VirtualBox, follow these steps:

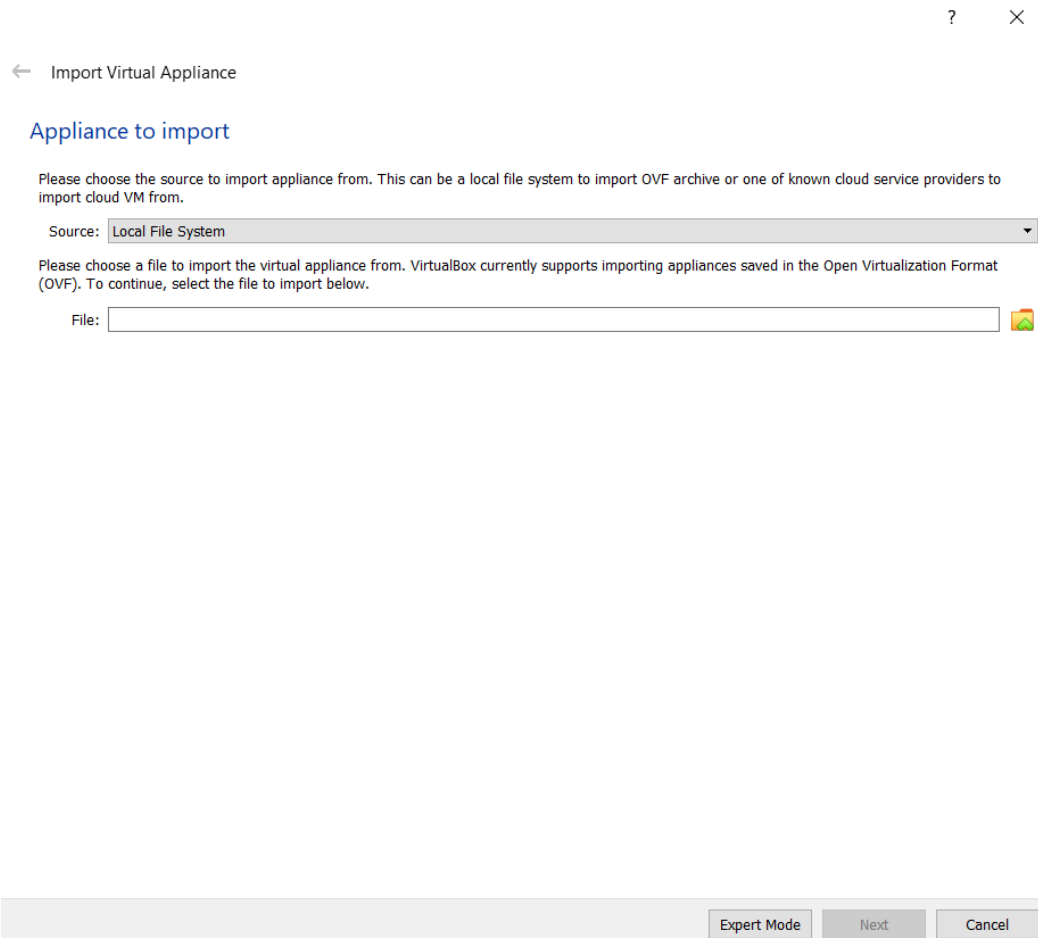
1. Unzip the downloaded package;
2. Open **VirtualBox**;



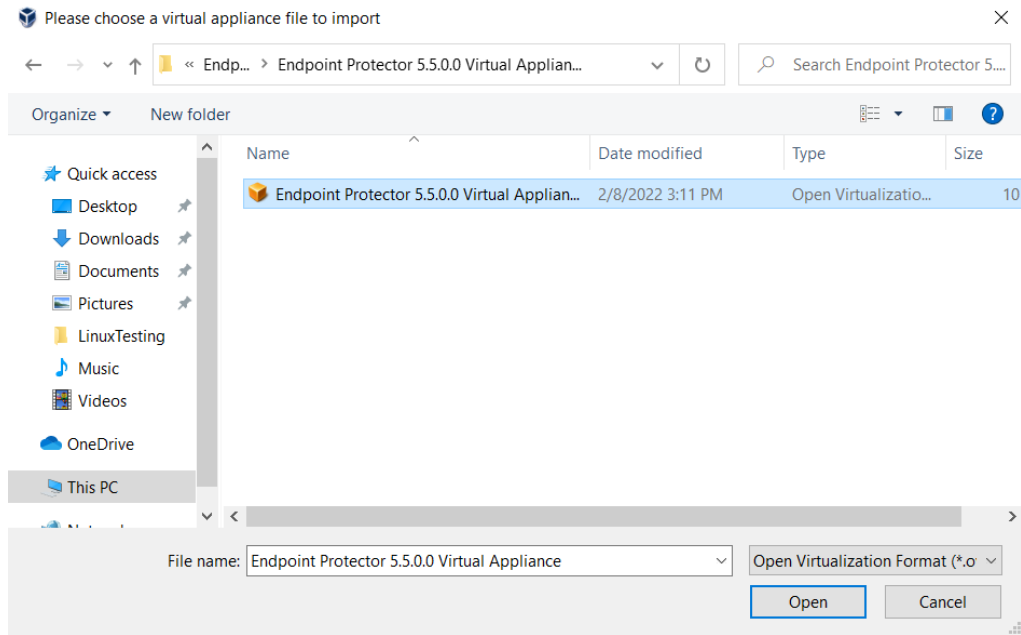
3. Go to **File** and select **Import Appliance**;



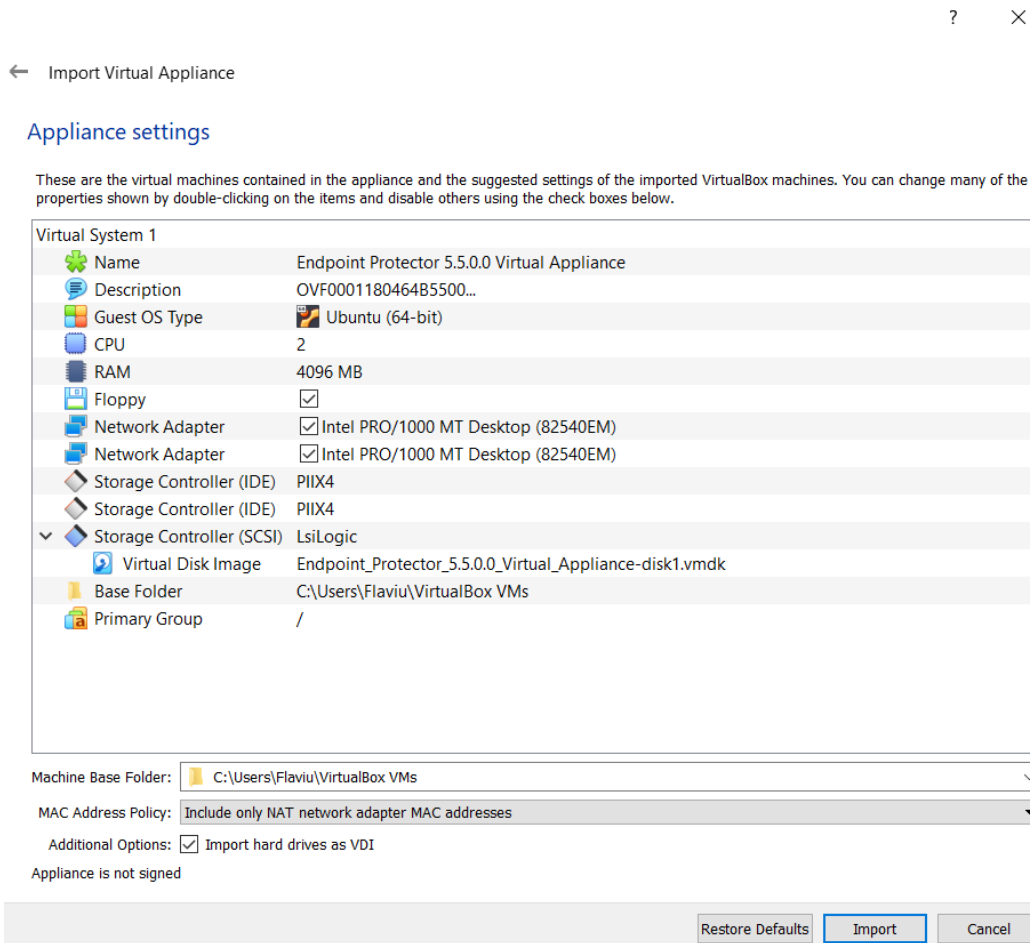
4. On the **Appliance to import** page, click the **File icon**, browse and select the OVF file from the extracted zip;



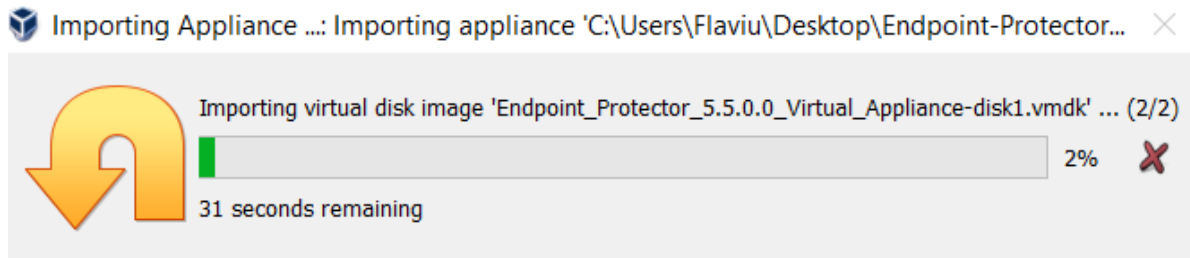
5. Click **Open**;



6. Click **Import**;

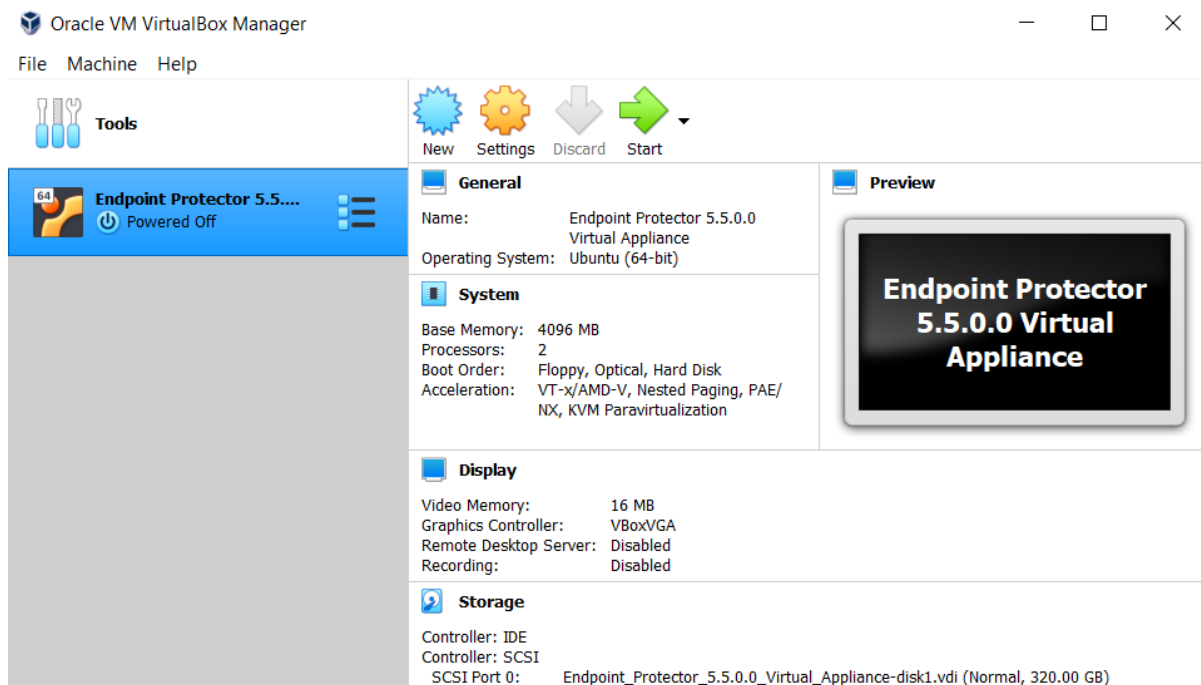


7. Wait for the import displayed by the progress bar;



At this point, the virtual machine is ready for use.

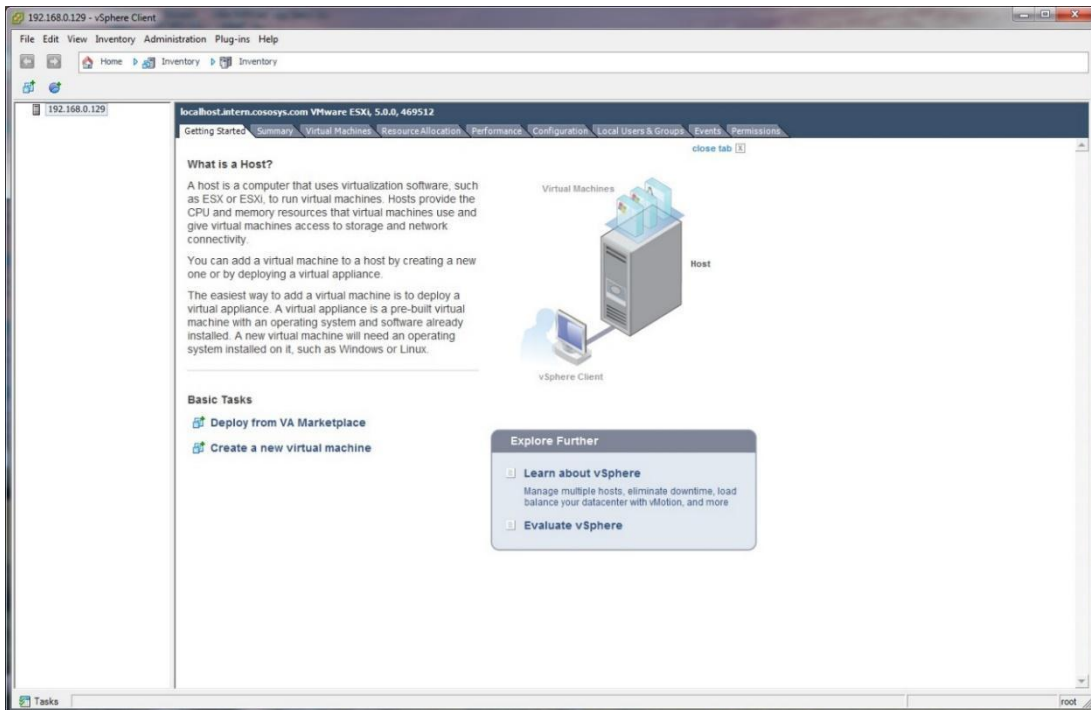
Follow the Endpoint Protector Appliance User Manual from this point on.



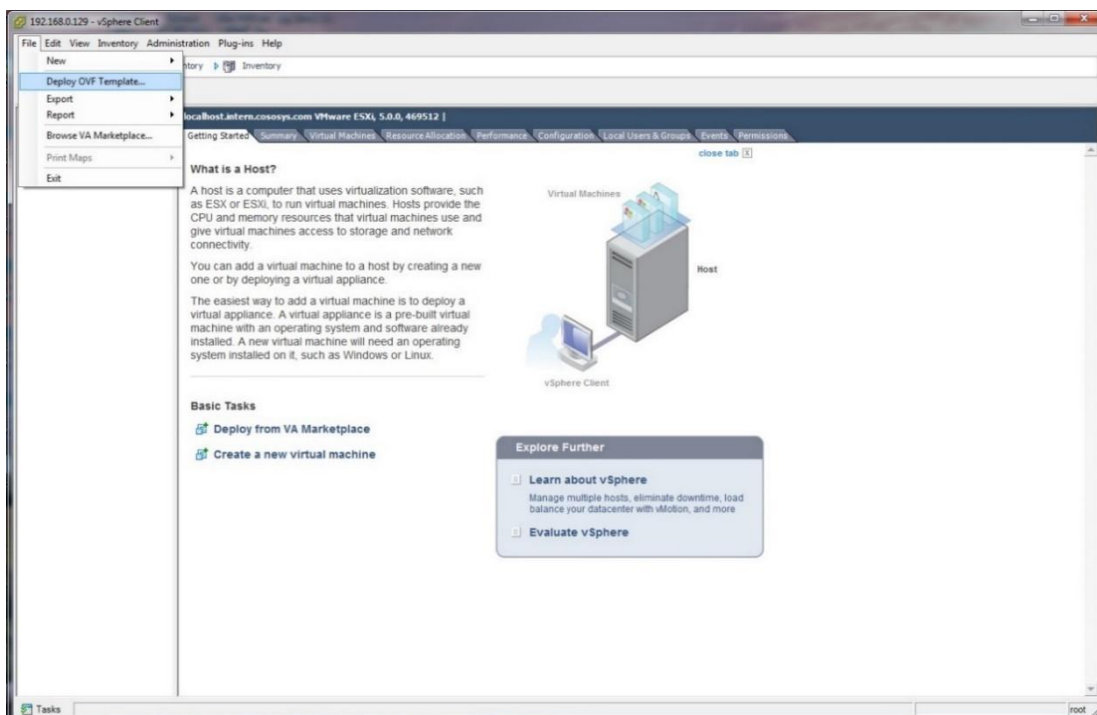
2.2. VMware vSphere

To implement using the VMware vSphere, follow these steps:

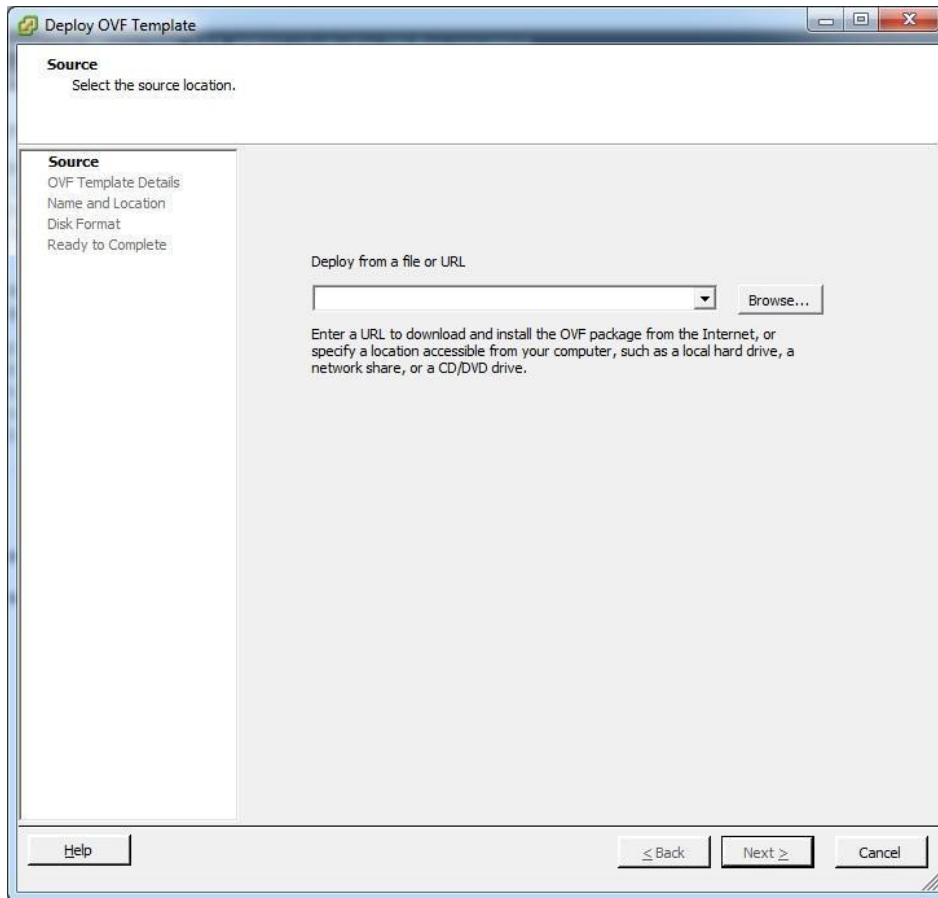
1. Unzip the downloaded package;
2. Start **vSphere**;



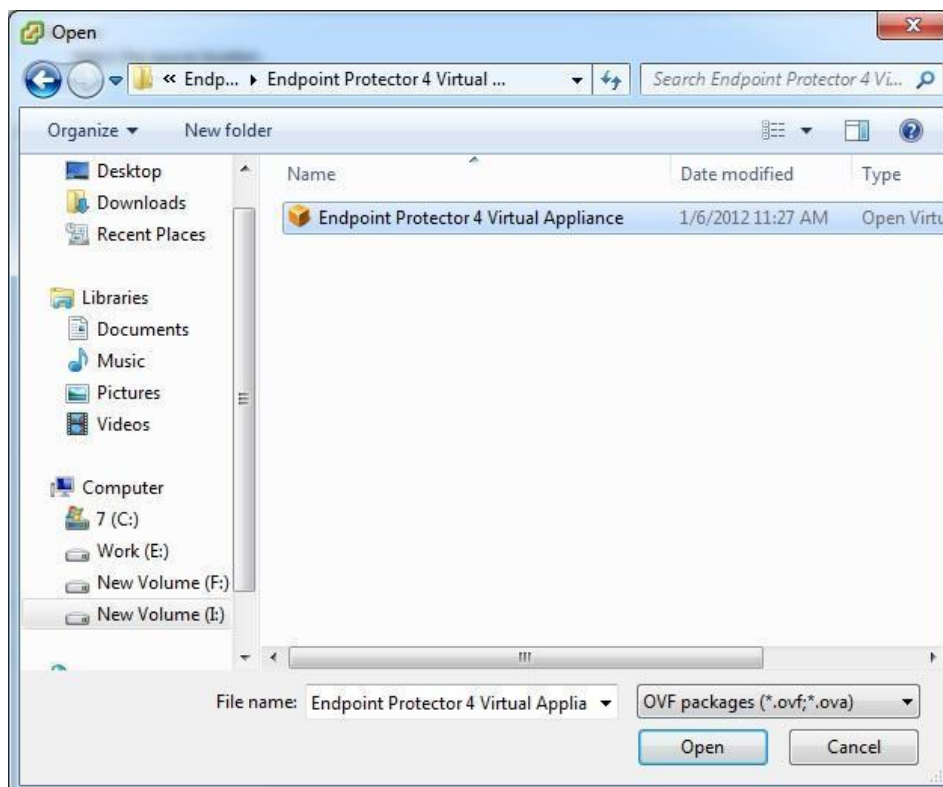
3. Go to **File** and select **Deploy OVF Template**;



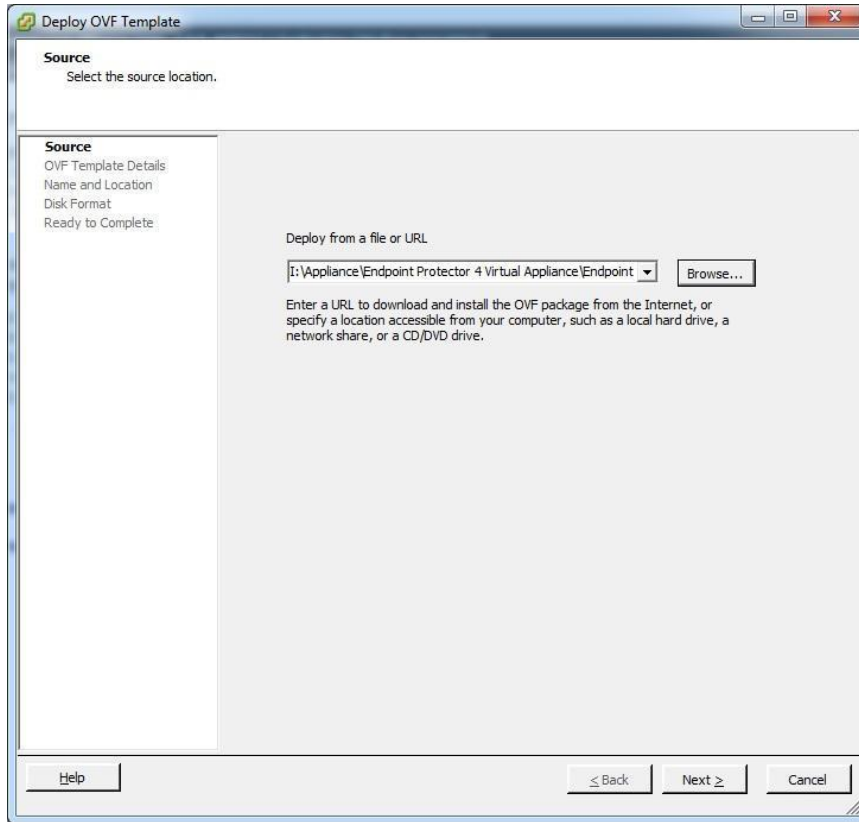
4. Click **Browse**;



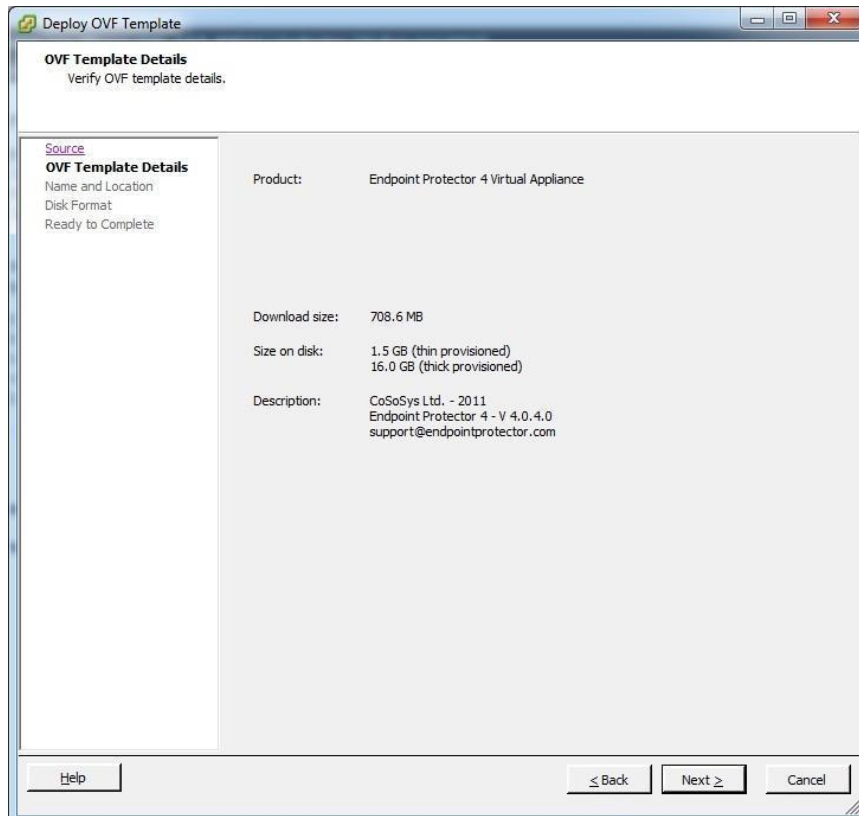
5. Select the OVF file from the extracted zip file;



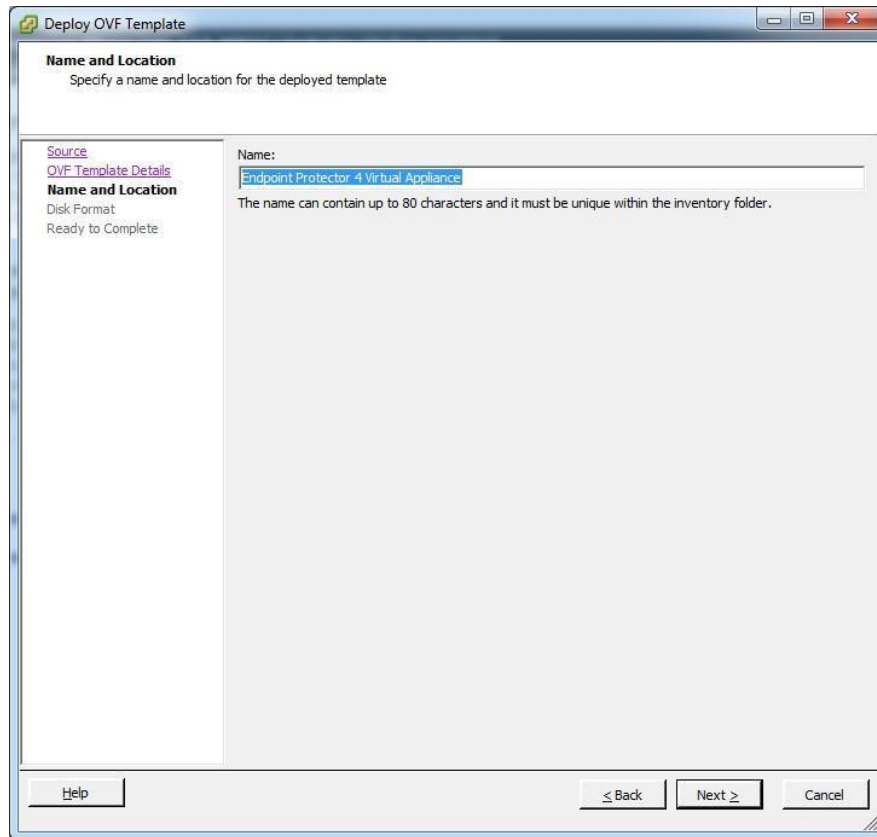
6. Click **Next**;



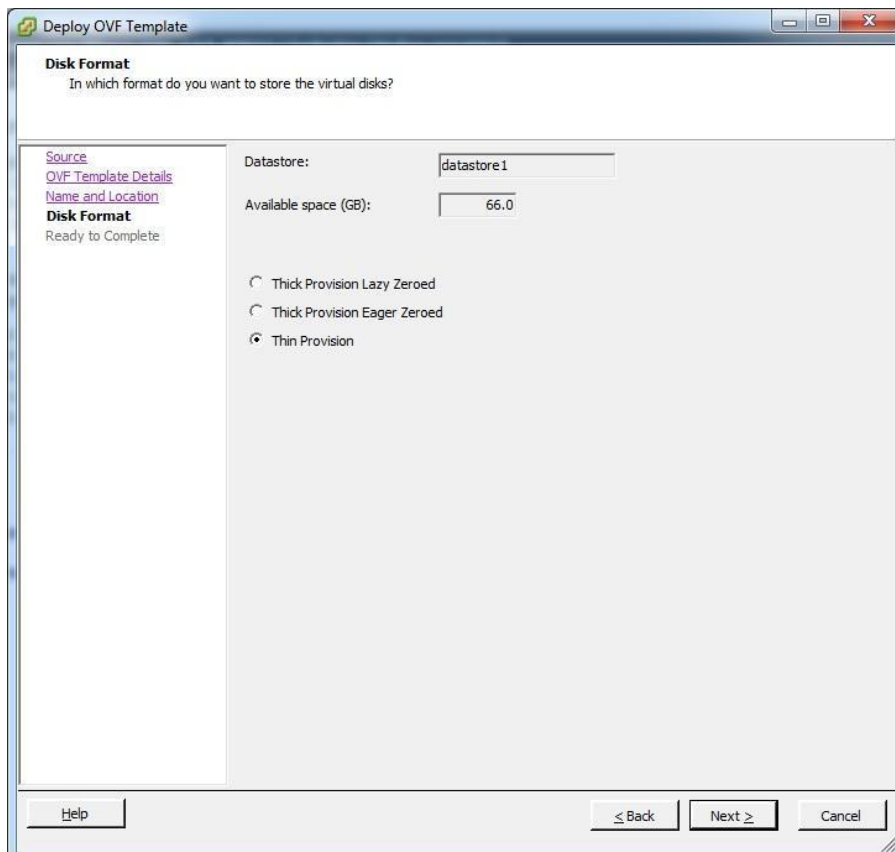
7. Check the OVF Template Details and then click **Next**;



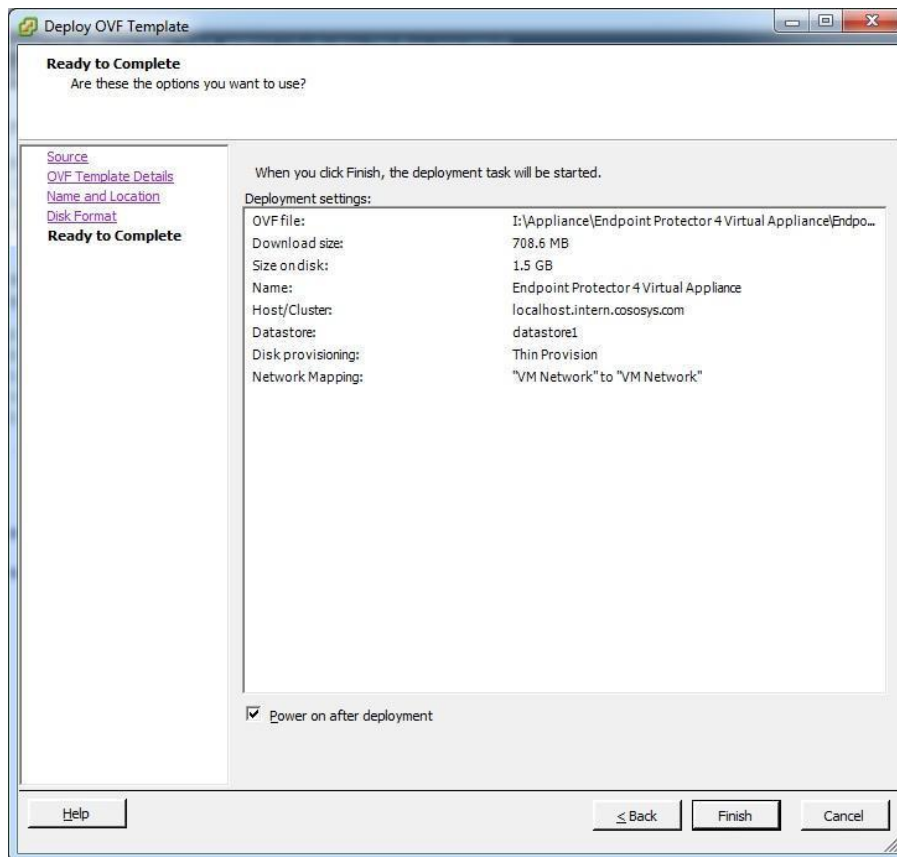
- Specify the name of the OVF template and click **Next**;



- Select the **Thin provision** Disk Format option and click **Next**;

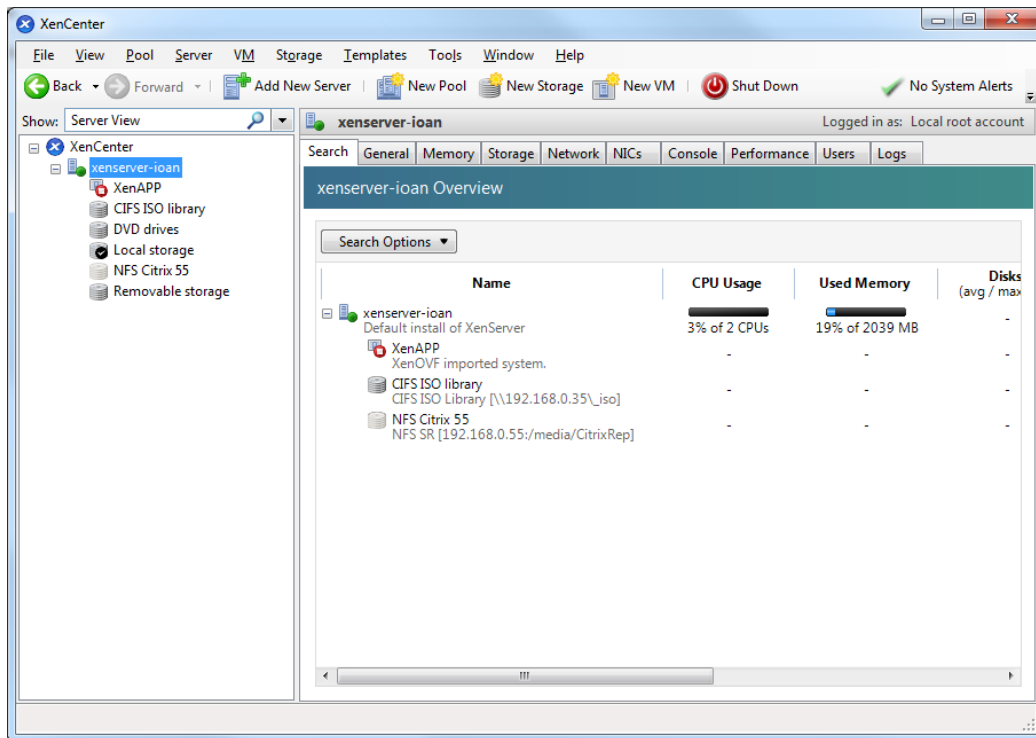


10. Click **Finish** to complete the installation.

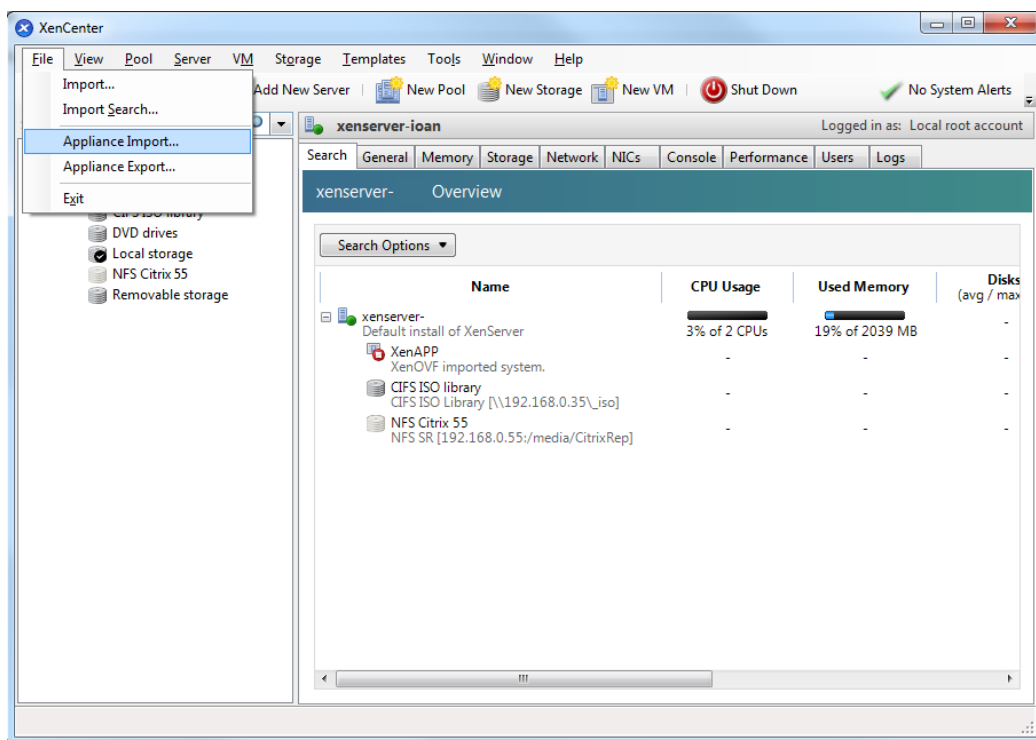


2.3. Citrix XenServer 5.6

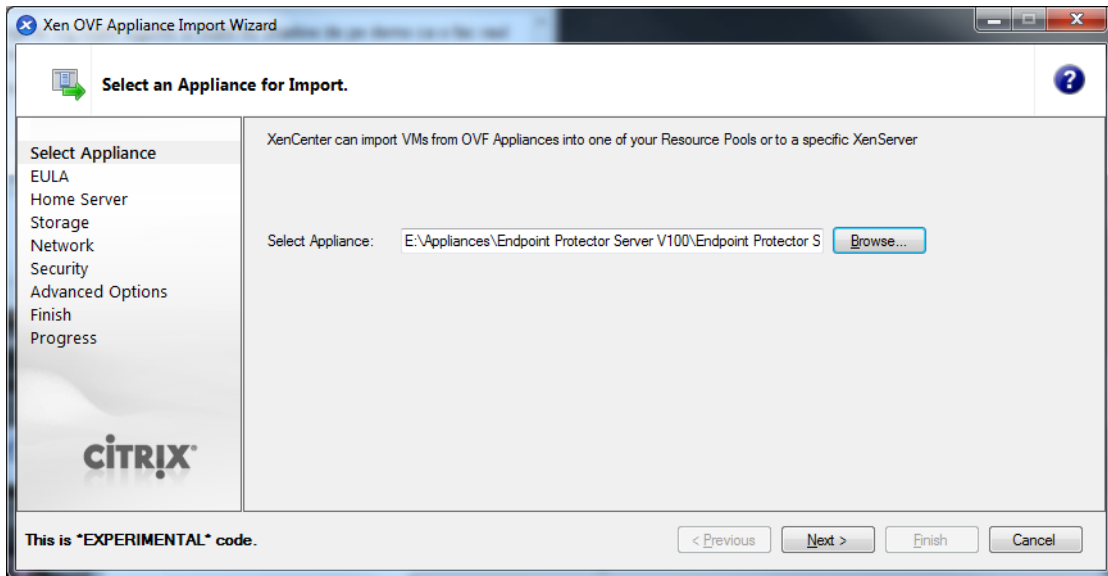
1. Unzip the downloaded package;
2. Start **XenCenter**;



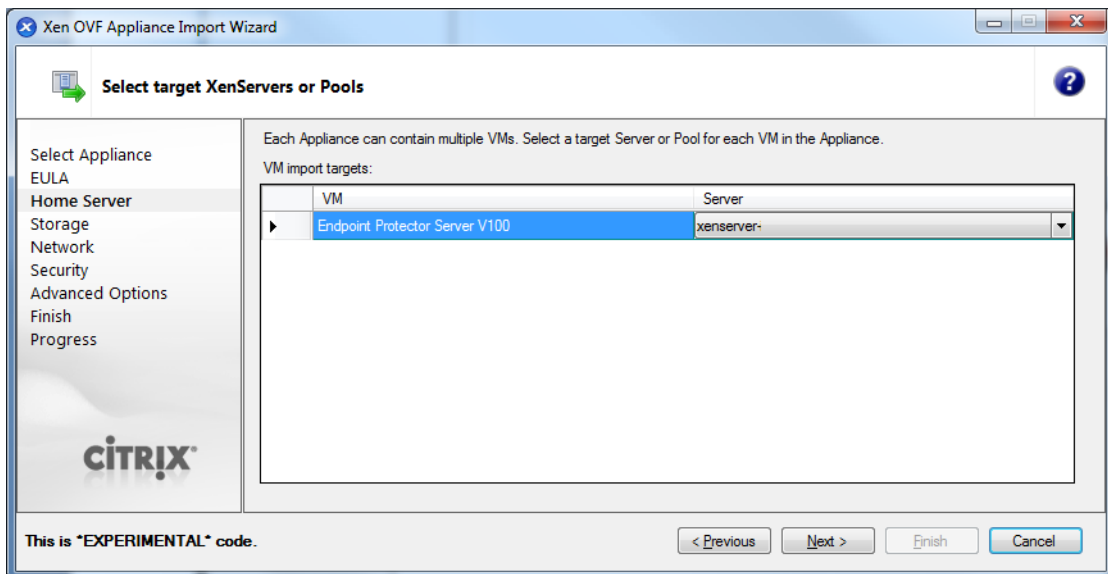
3. Go to **File** and select **Appliance Import**;



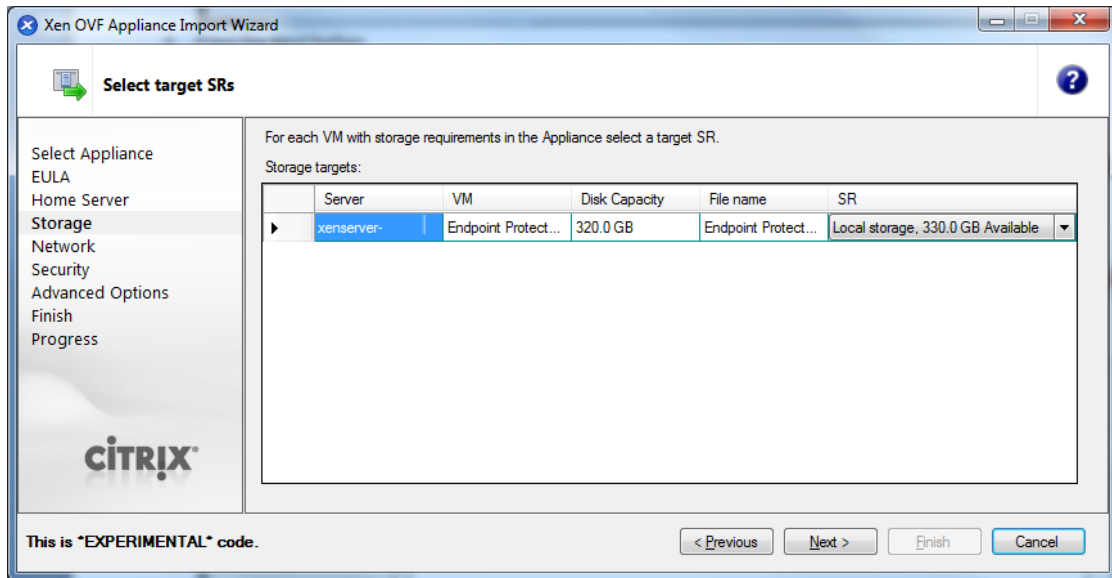
4. Select the OVF file and then click **Next**;



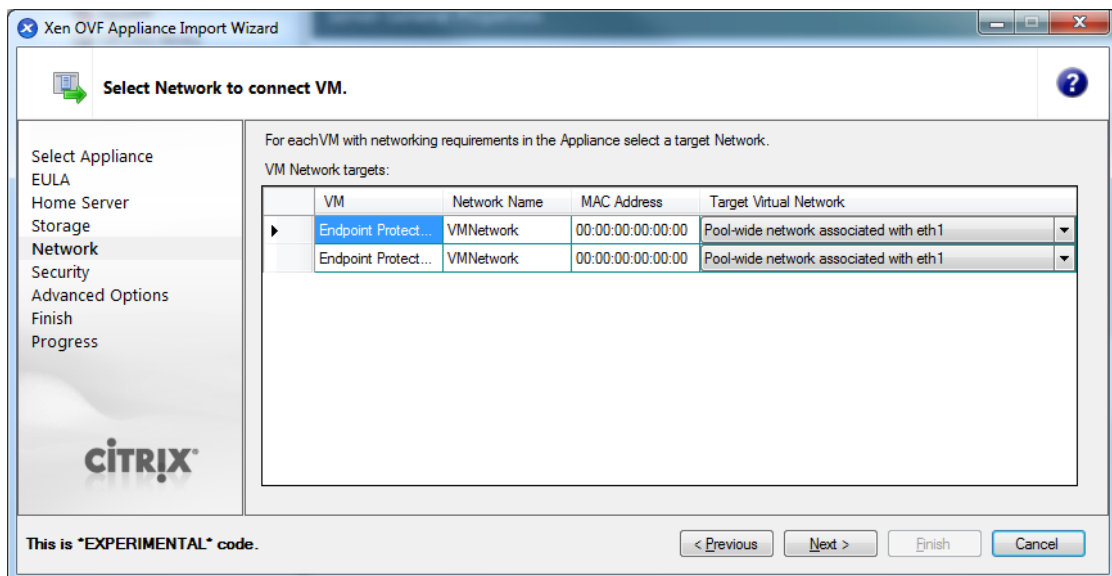
5. Read and accept the EULA, then click **Next**;
6. Select the target for the Virtual Appliance;



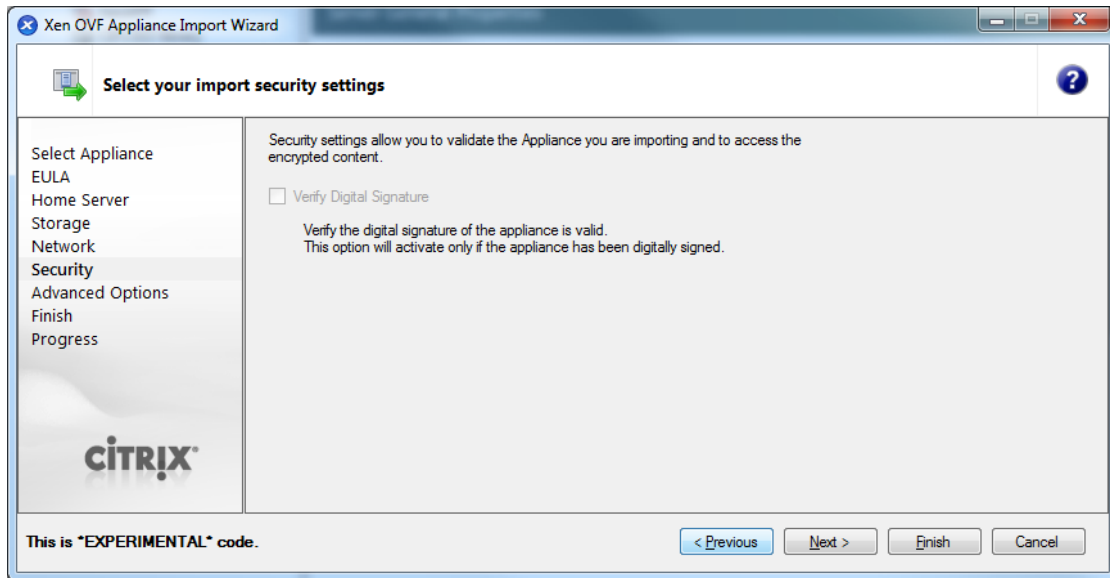
7. Select the storage location;



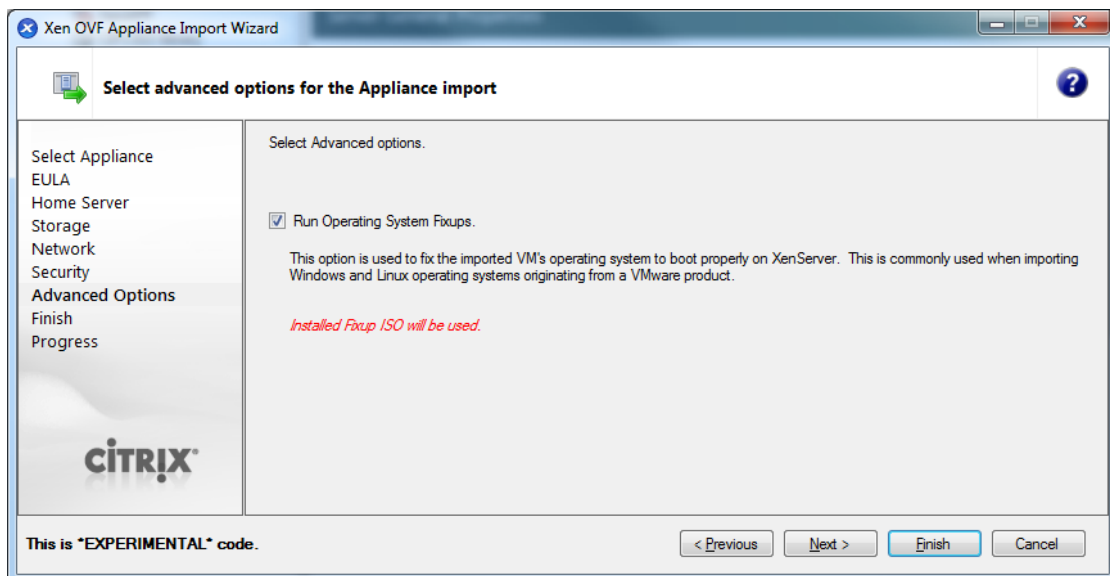
8. Select the network (keep default values);



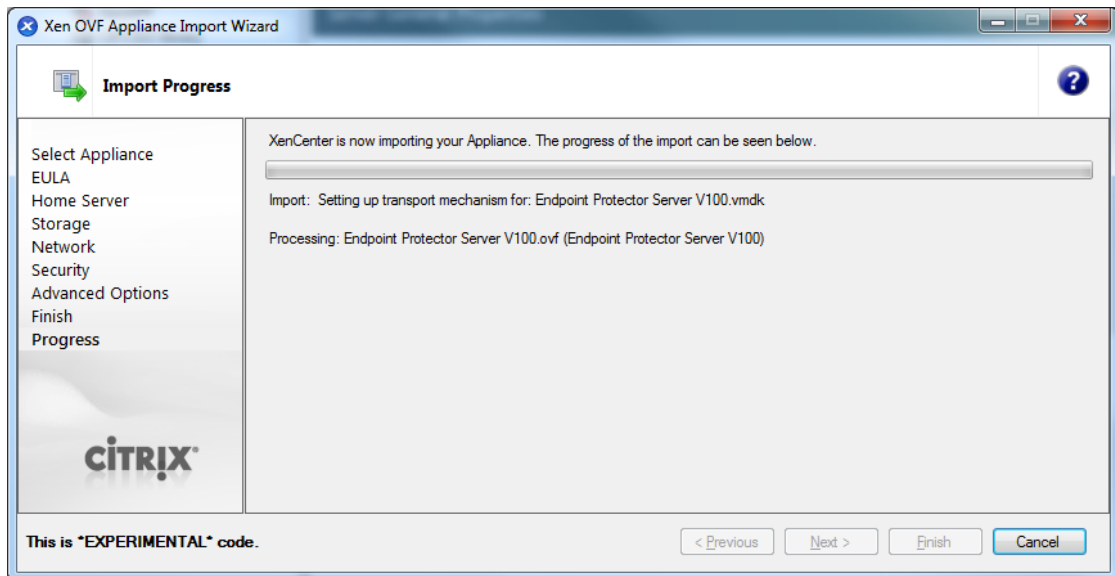
9. On the Security screen click **Next**;



10. On the Advanced Options screen click **Next**;



11. On the **Finish** screen, review the configuration, click **Finish** and wait for the import to be completed.



At this point, the virtual machine is ready to be started.

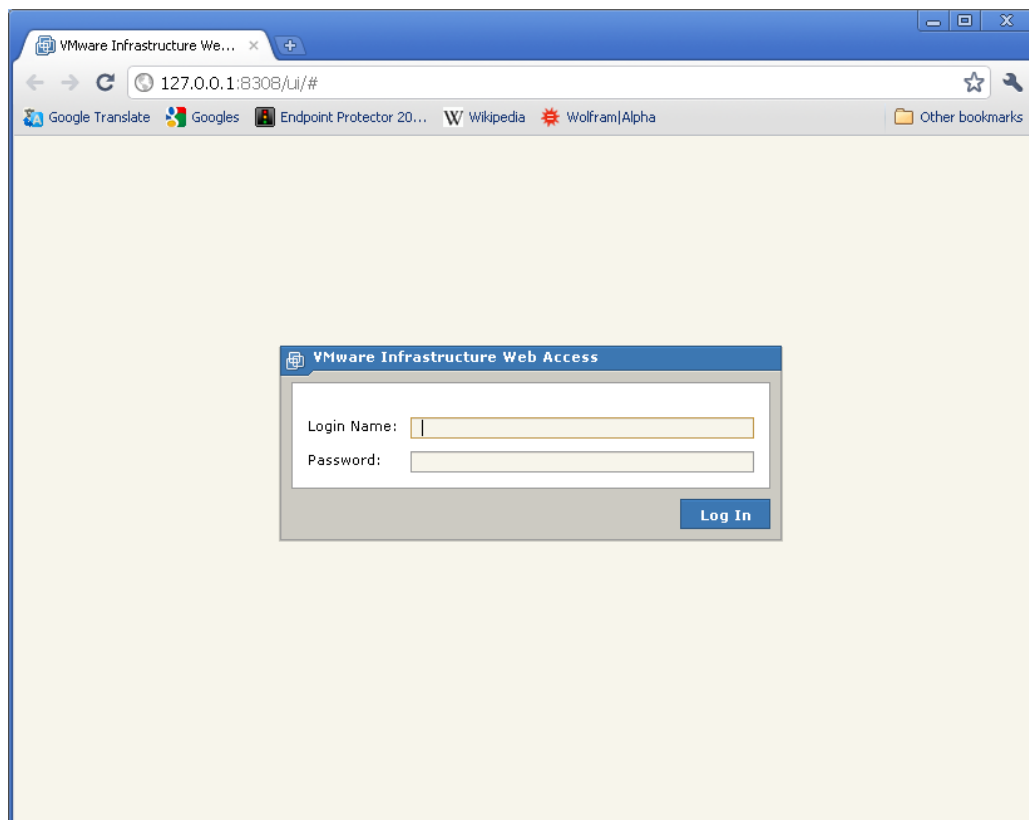
Follow the Endpoint Protector Appliance User Manual from this point on.

3. Implement using the VMX format

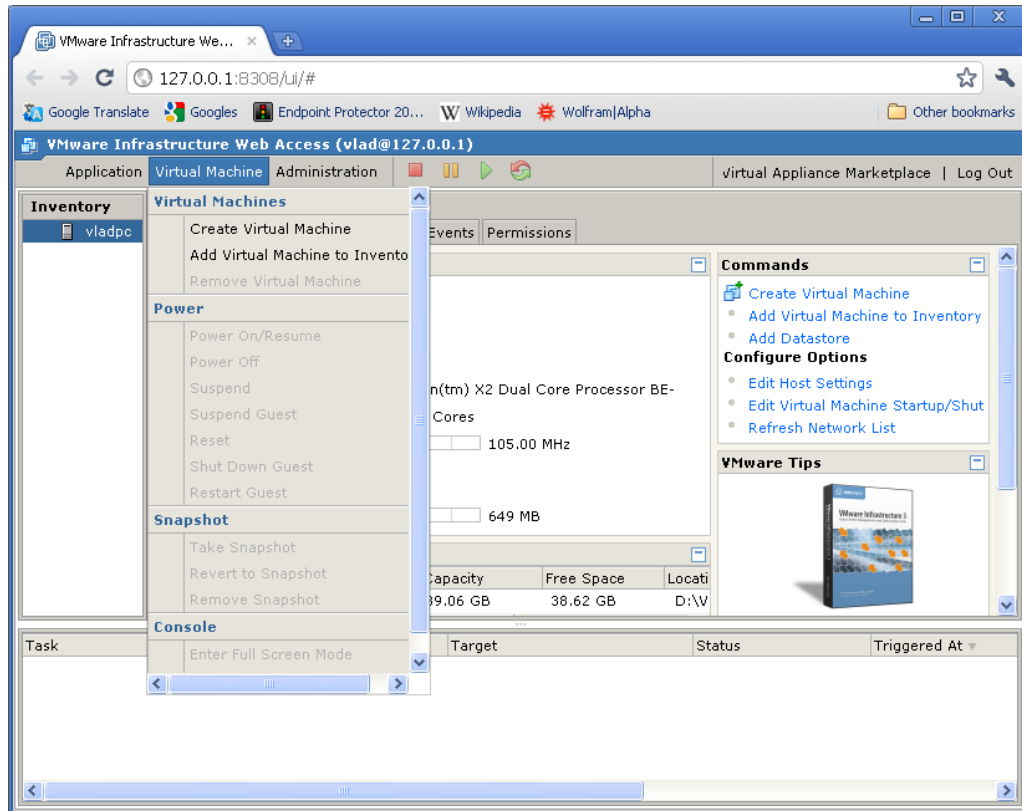
There are several options to implement the Endpoint Protector Virtual Appliance using the OVMX format.

3.1. Implementing using VMware Server

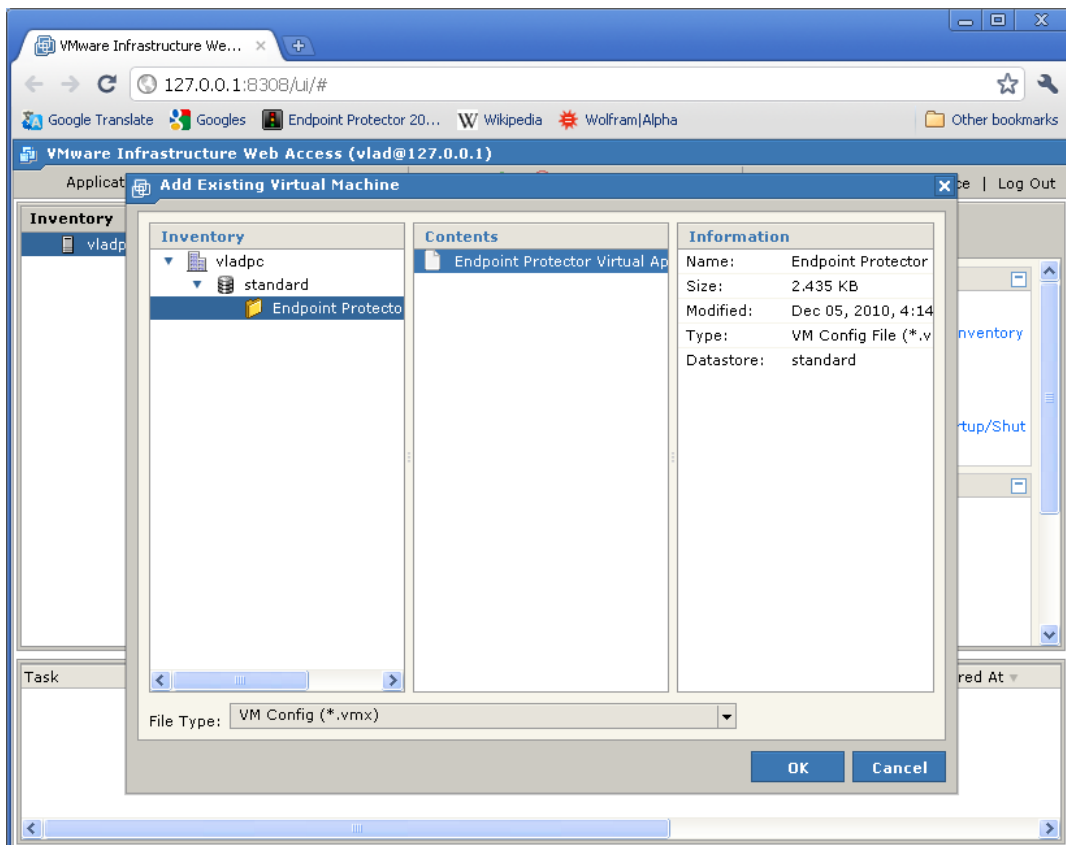
1. Extract the downloaded Endpoint Protector Virtual Appliance package and move the files to the path where your virtual machines are stored;
2. Open your VMware Server web interface and log in;



3. Select **Add Virtual Machine to inventory**;



4. Browse in the inventory for Endpoint Protector Virtual Appliance and select the VMX file and click **OK**;



At this point, the Virtual Machine is ready to be started.

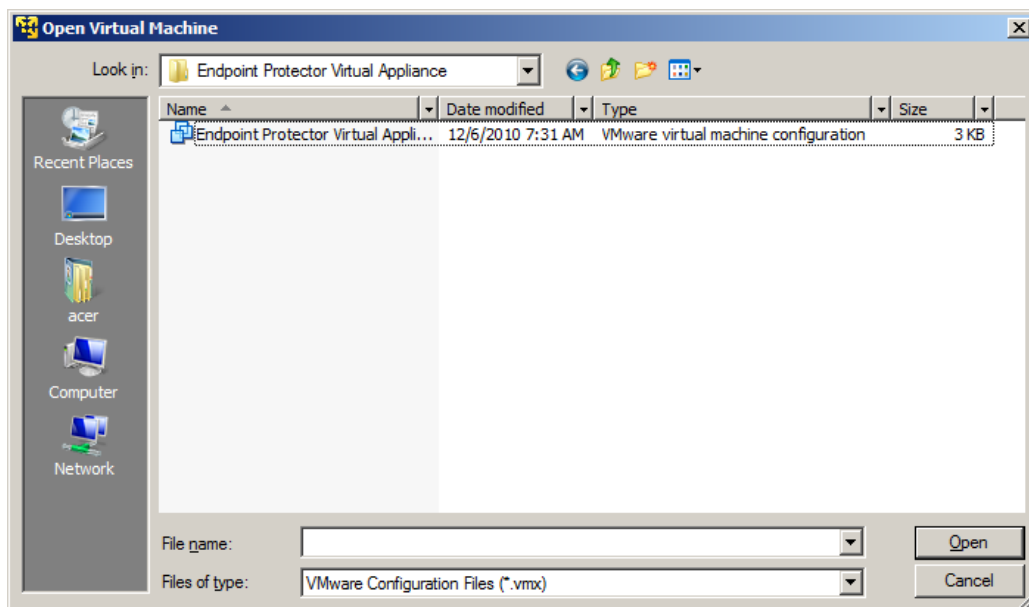
Follow the Endpoint Protector Appliance User Manual from this point on.

3.2. Implementing using VMware Player

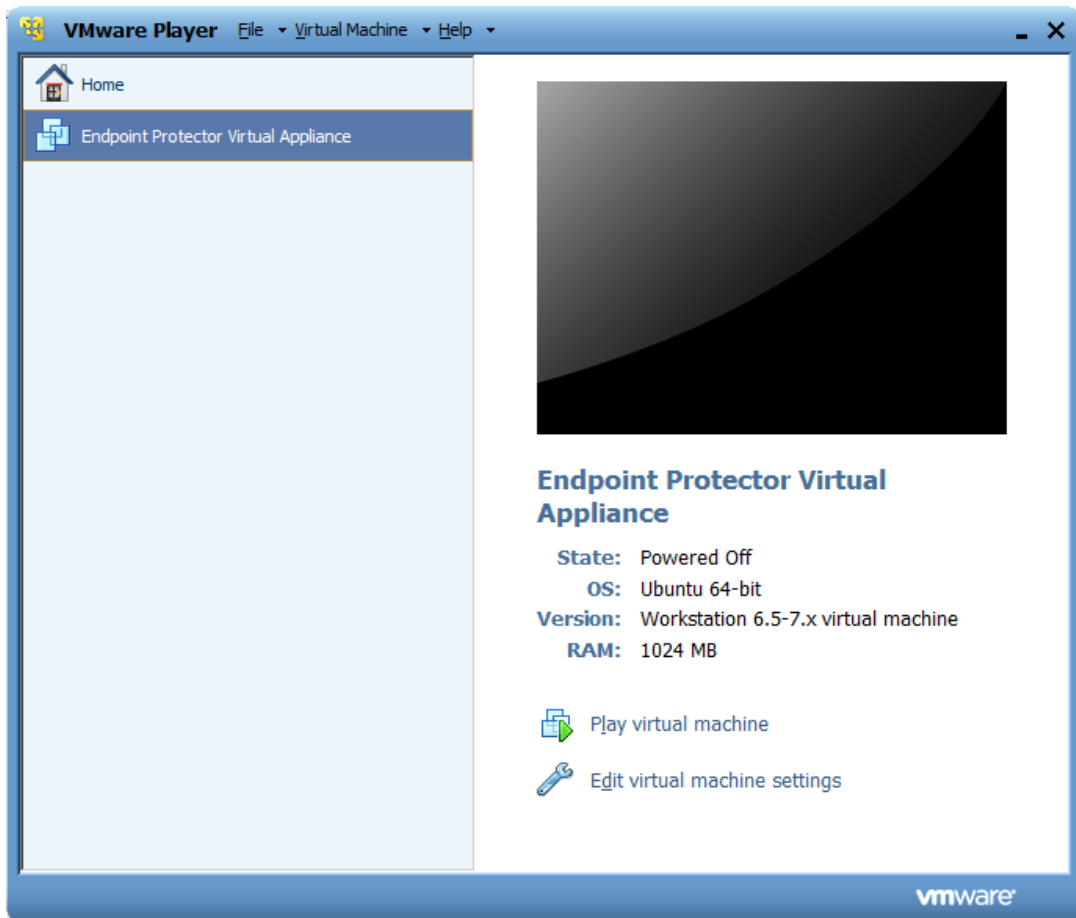
1. Extract the downloaded Endpoint Protector Virtual Appliance package and move the files to the path where your virtual machines are stored;
2. Open VMware Player;



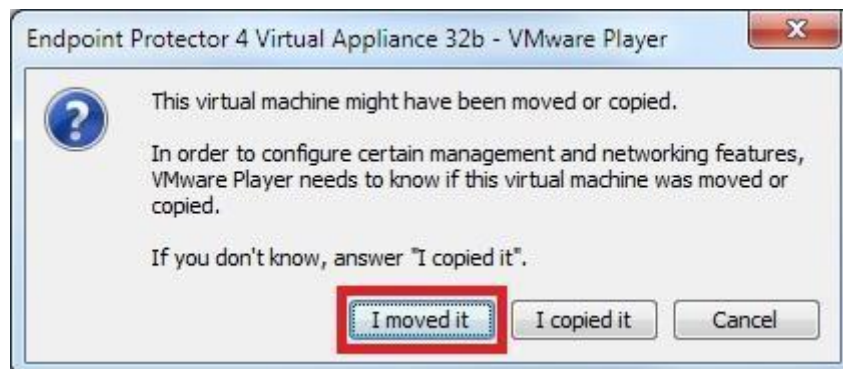
3. Select **Open a Virtual Machine** and select the VMX file from the location where you extracted it and then click **Open**;



4. After the Virtual Machine is in your inventory click **Play Virtual Machine**;



5. If asked if the Virtual Machine was copied or moved, select moved (if it is the only Endpoint Protector Virtual Appliance in your network);



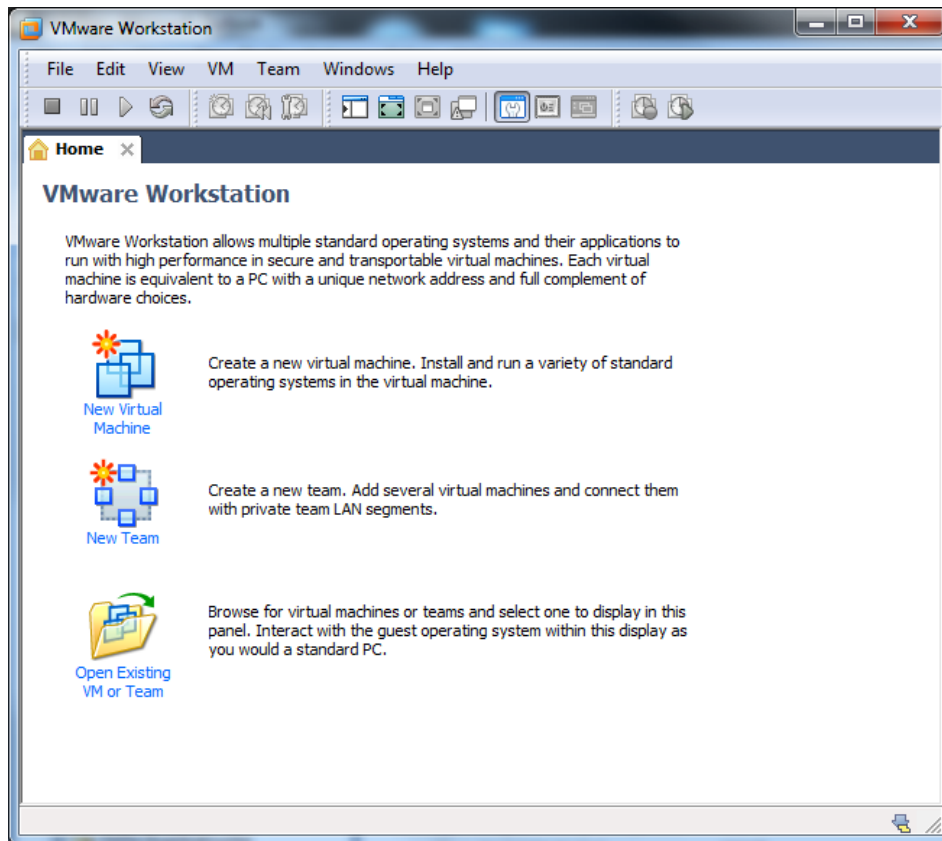
At this point, the Virtual Machine is ready to be started.

Follow the Endpoint Protector Appliance User Manual from this point on.

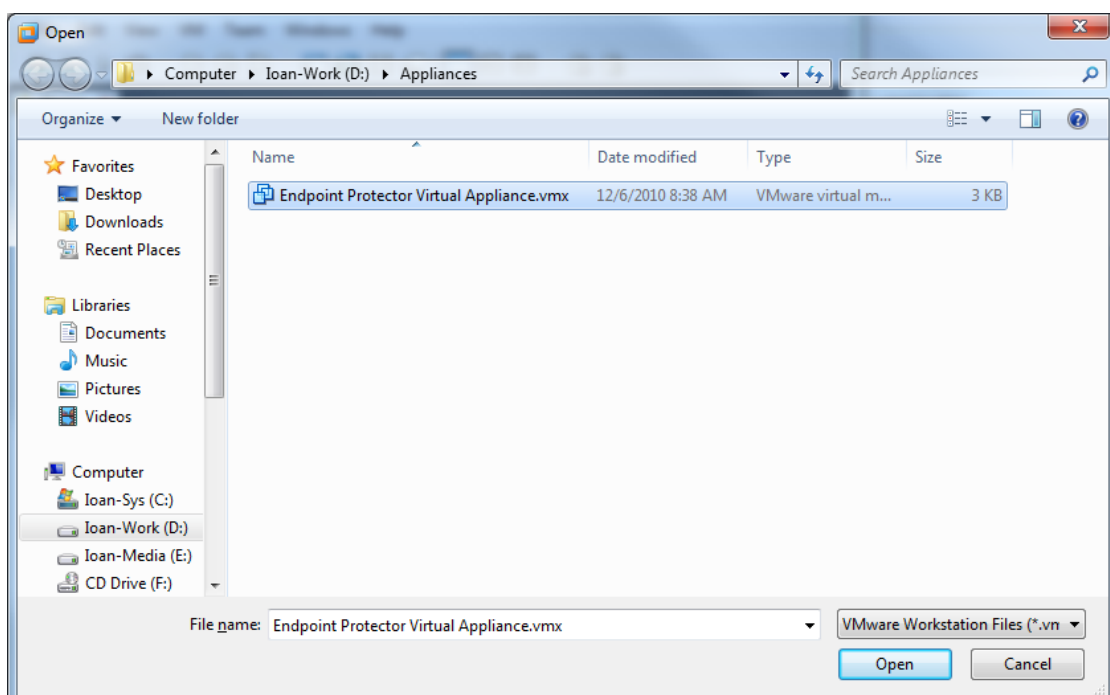
Important: Do not suspend the VMware Player while Endpoint Protector Virtual Appliance is running! Also, do not shut down your computer while VMware Player is running.

3.3. Implementing using VMware Workstation

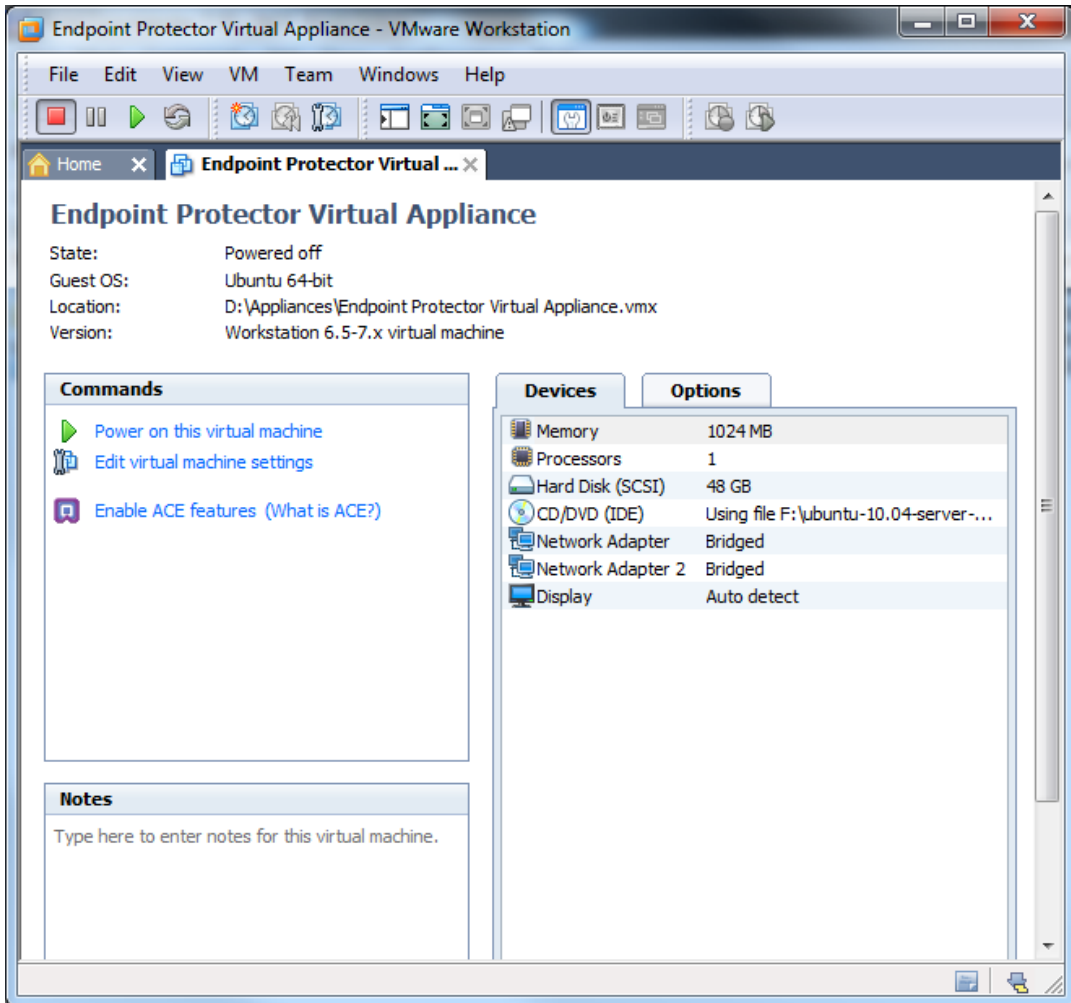
1. Extract the downloaded Endpoint Protector Virtual Appliance package and move the files to the path where your virtual machines are stored;
2. Open VMWare Workstation;



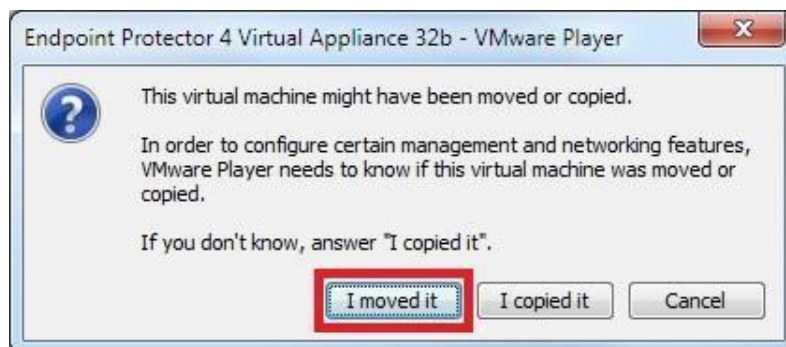
3. Select Open Existing VM or Team;



4. After the Virtual Appliance is in your inventory power on the Virtual Appliance;



5. If asked if the Virtual Machine was copied or moved, select moved (if it is the only Endpoint Protector Virtual Appliance in your network).



The Virtual Machine is started and ready for use.

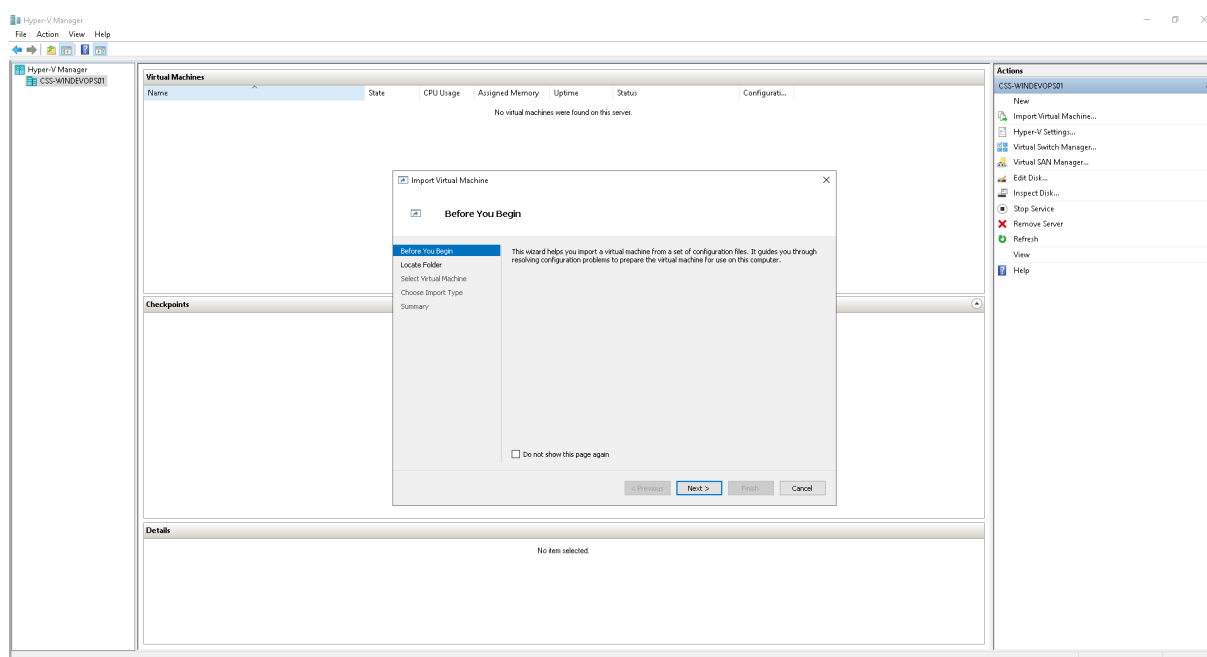
Follow the Endpoint Protector Appliance User Manual from this point on.

4. Using the VHD format

There are several options to implement the Endpoint Protector Virtual Appliance using the VHD format. The way to do this is explained below.

4.1. Implementing using Microsoft Hyper-V 2022

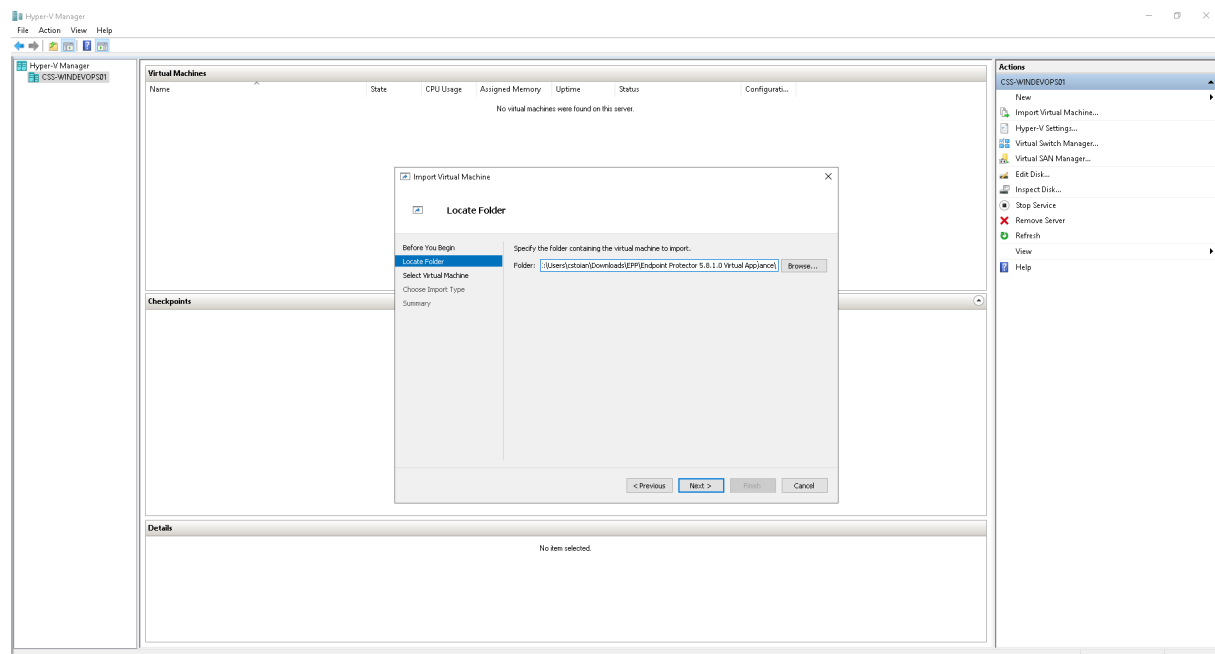
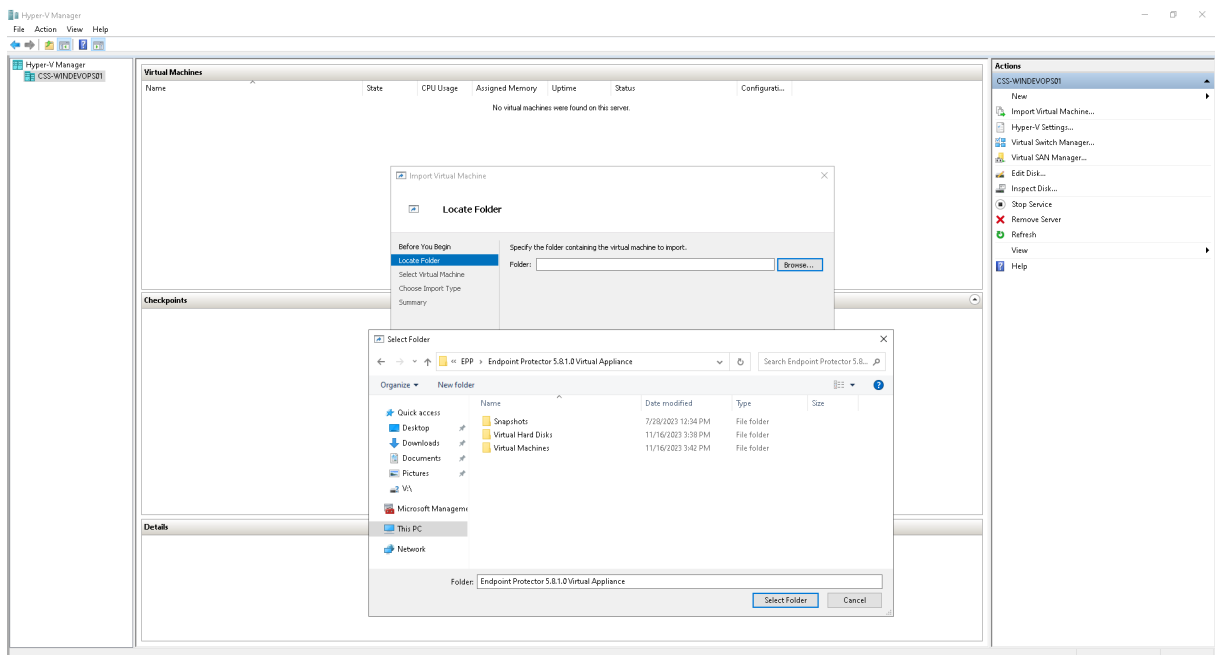
1. Extract the downloaded Endpoint Protector Virtual Appliance .zip package;
2. Start Hyper-V Manager;
3. Select from the right-side box the option to **Import Virtual Machine**;



Click 'Next' at the **Before You Begin** step.

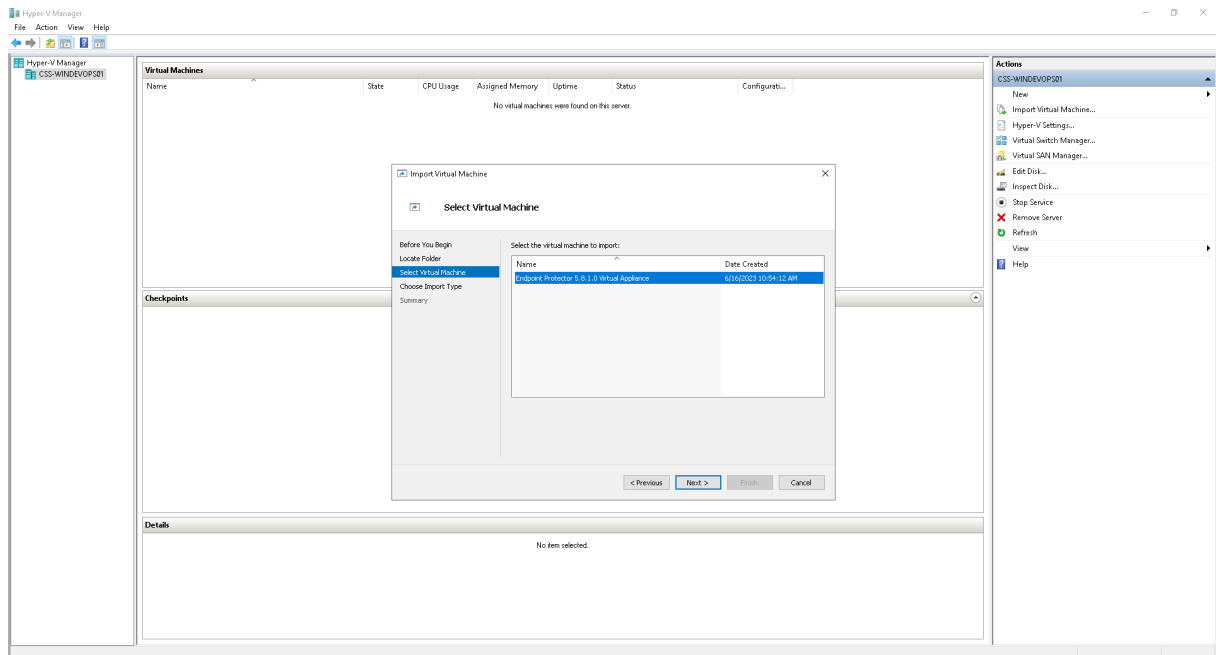
3.1 Select the Endpoint Protector Virtual Appliance folder, containing:

- Snapshots
- Virtual Hard Disks
- Virtual Machines

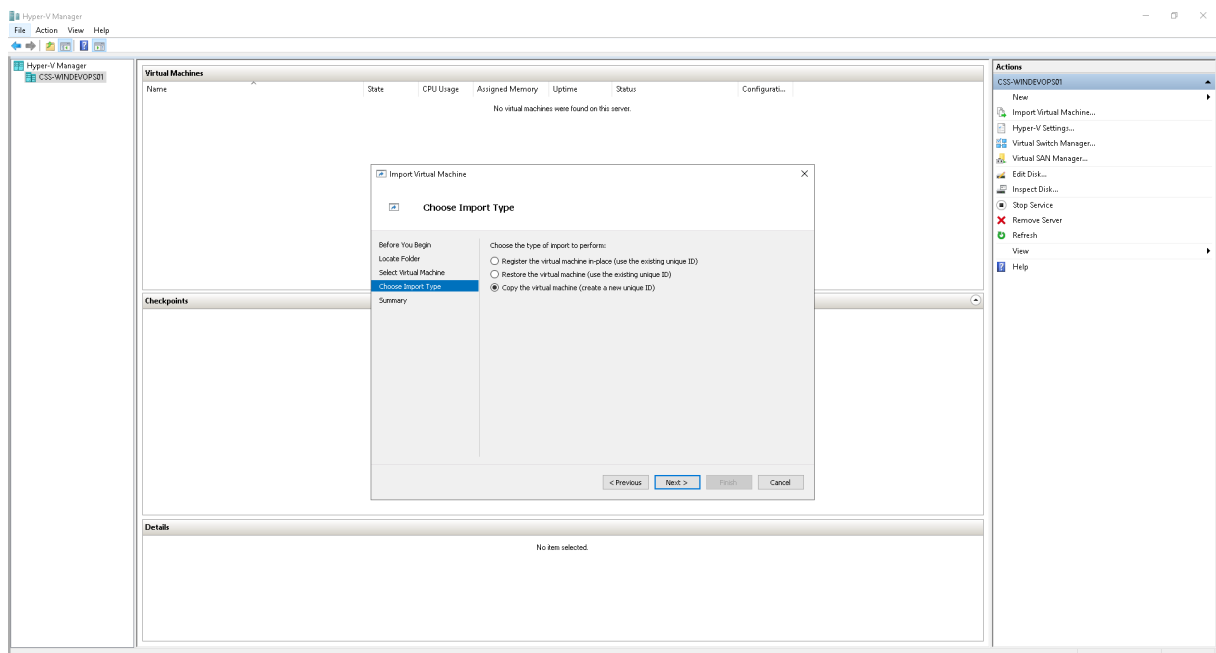


Then click 'Next'.

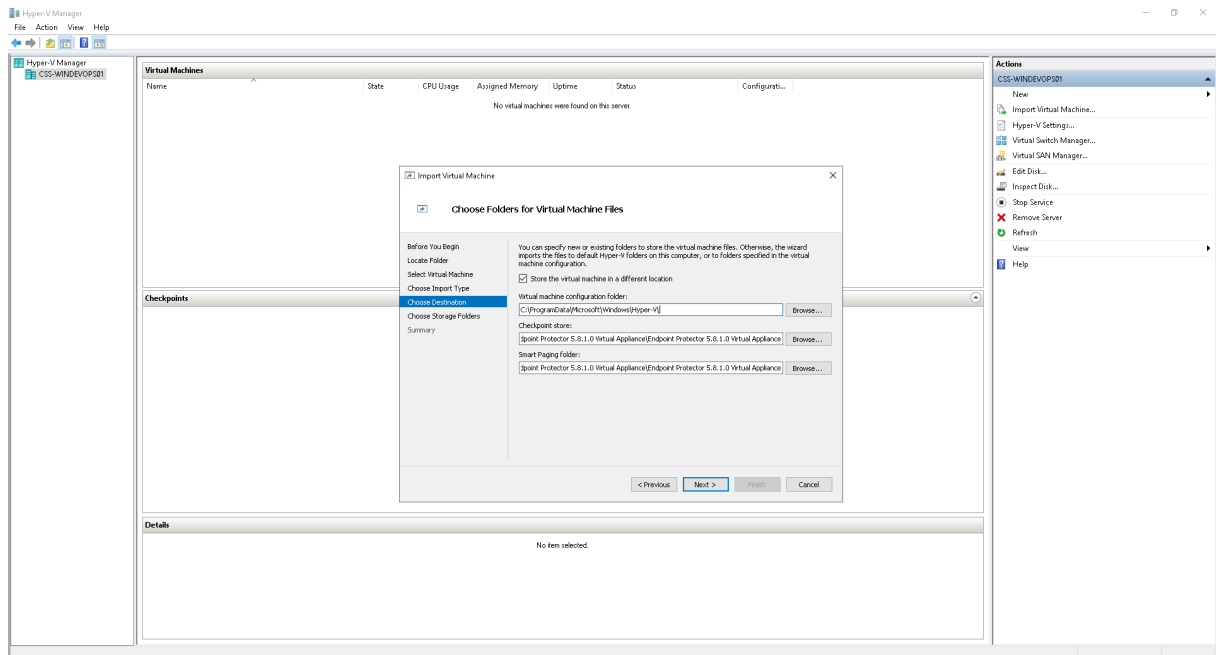
3.2 On the **Select Virtual Machine** section, select the Endpoint Protector Virtual Appliance, then click 'Next'.



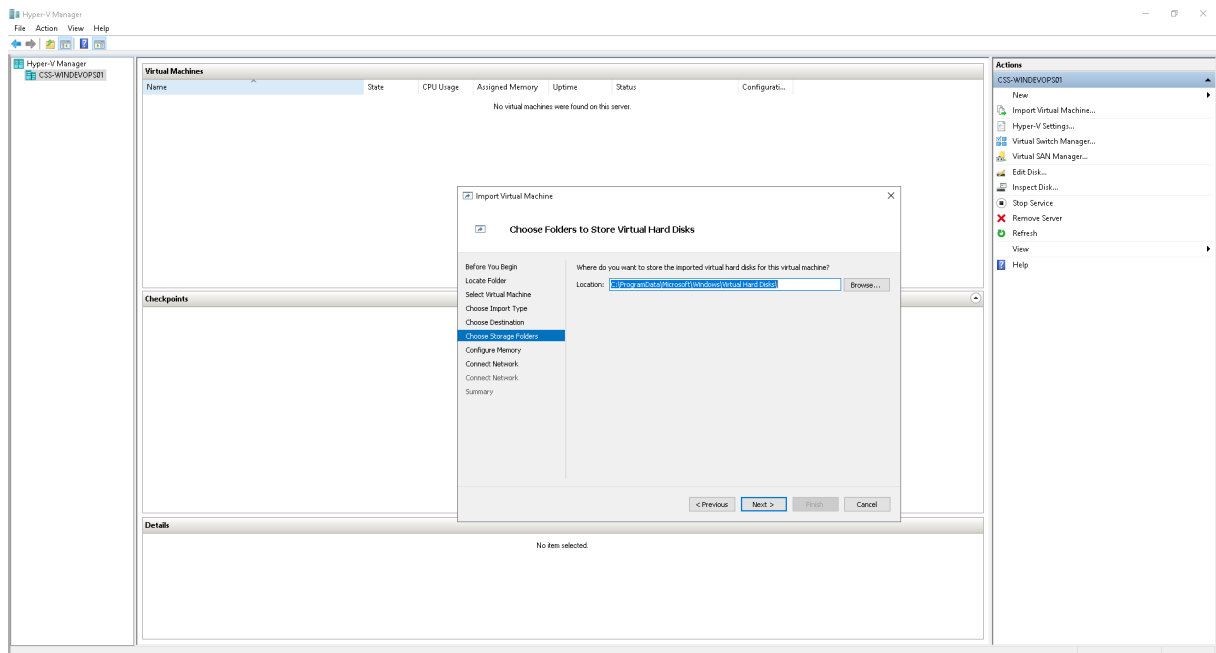
3.3. On the **Choose Import Type** section, select the **Copy the virtual machine (create a new unique ID)** option. Then click 'Next'.



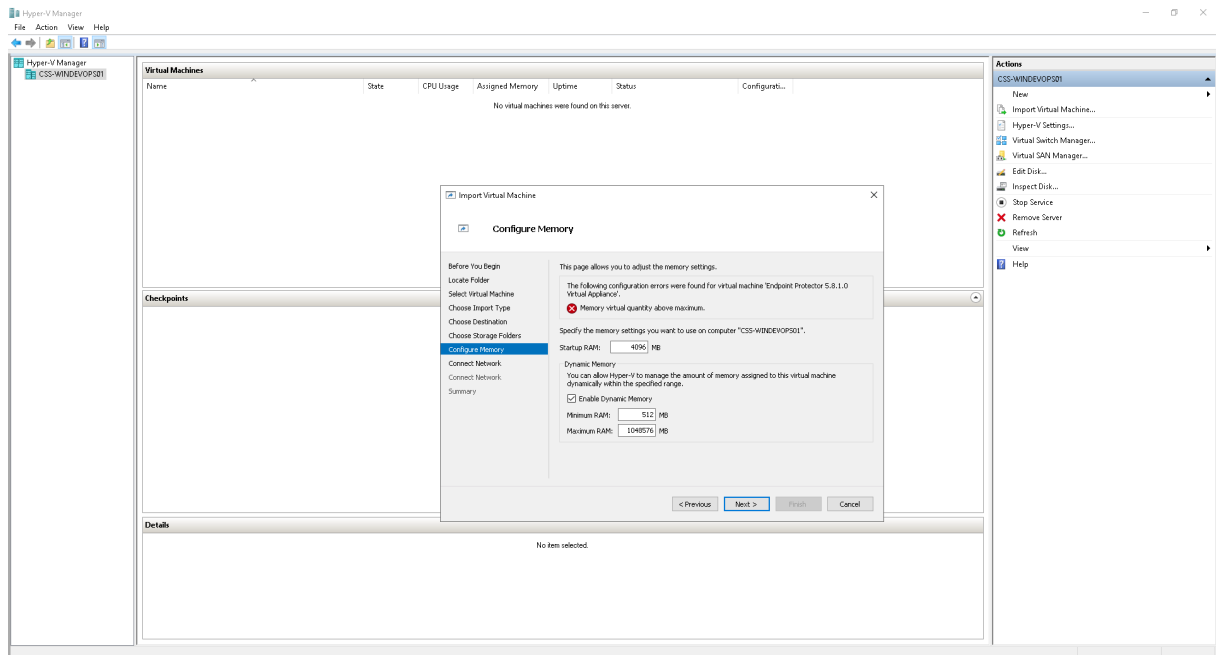
3.4. On the **Choose Folders for Virtual Machine Files** section, tick 'Store the virtual machine in a different location' and then set desired paths inside the three input fields. Click 'Next'.



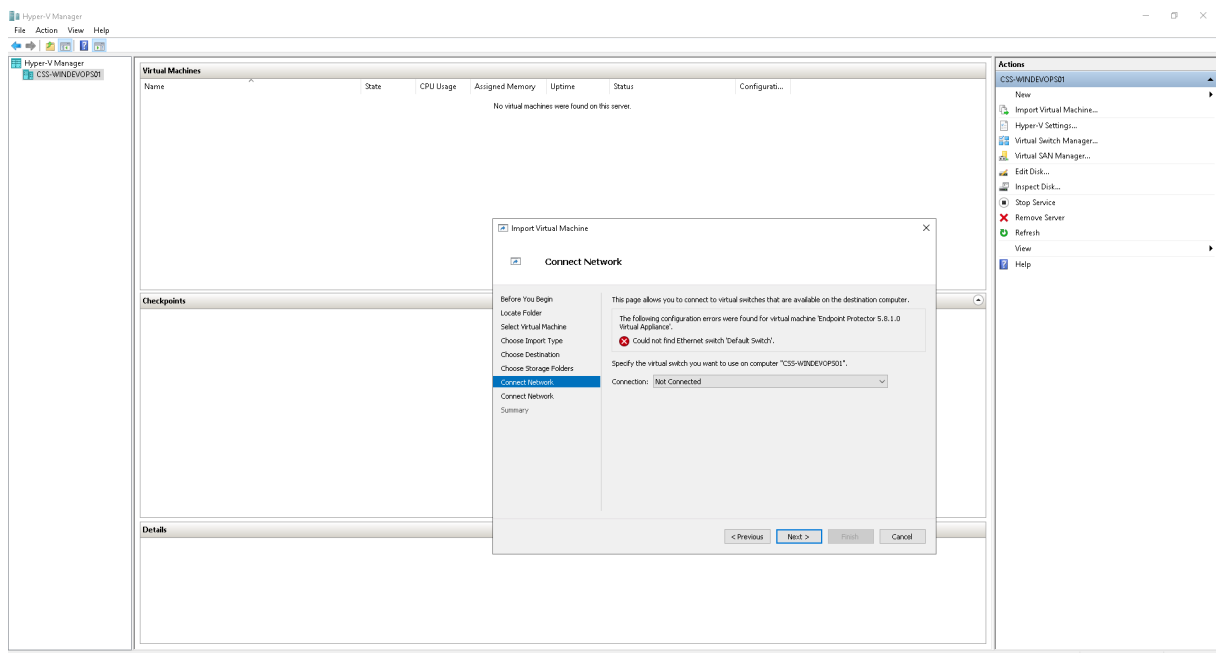
3.5 On the **Choose Folders to Store Virtual Hard Disks** section, set the desired path for storing imported virtual hard disk. Click Next.



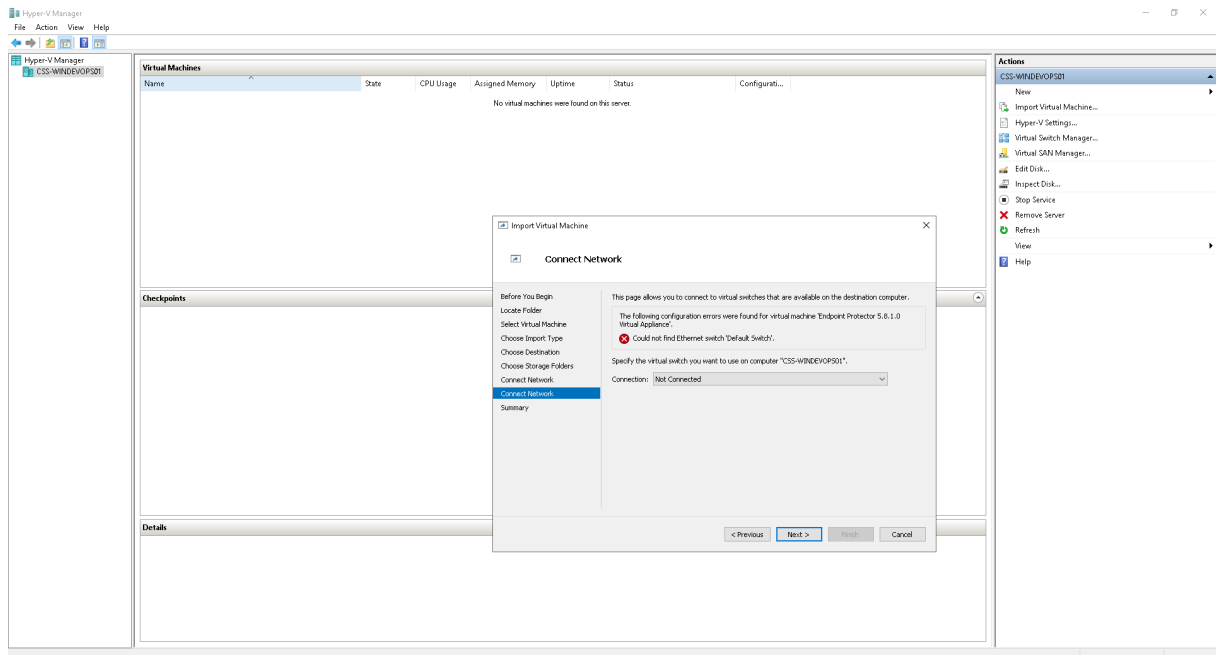
3.6 If you get to the **Get Memory** step, it means you have insufficient memory on the Hyper-V Host. Please abort the process and either increase memory on the Host or choose another Host to import the Endpoint Protector Virtual Appliance on.



3.7 On the first **Connect Network** step, please mention the virtual switch you want to use for the first virtual network interface, changing it from 'Not Connected' to desired one. Click 'Next'.



3.8 On the second **Connect Network** step, please mention the virtual switch you want to use for the second virtual network interface. You may use the same one you have used at the previous step. Click 'Next'.



3.9 On the **Completing Import Wizard** step, check that the settings are the ones wanted, and press 'Finish'.

4. The new Virtual Machine will appear in the Virtual Machines list;

Follow the Endpoint Protector Appliance User Manual from this point on.

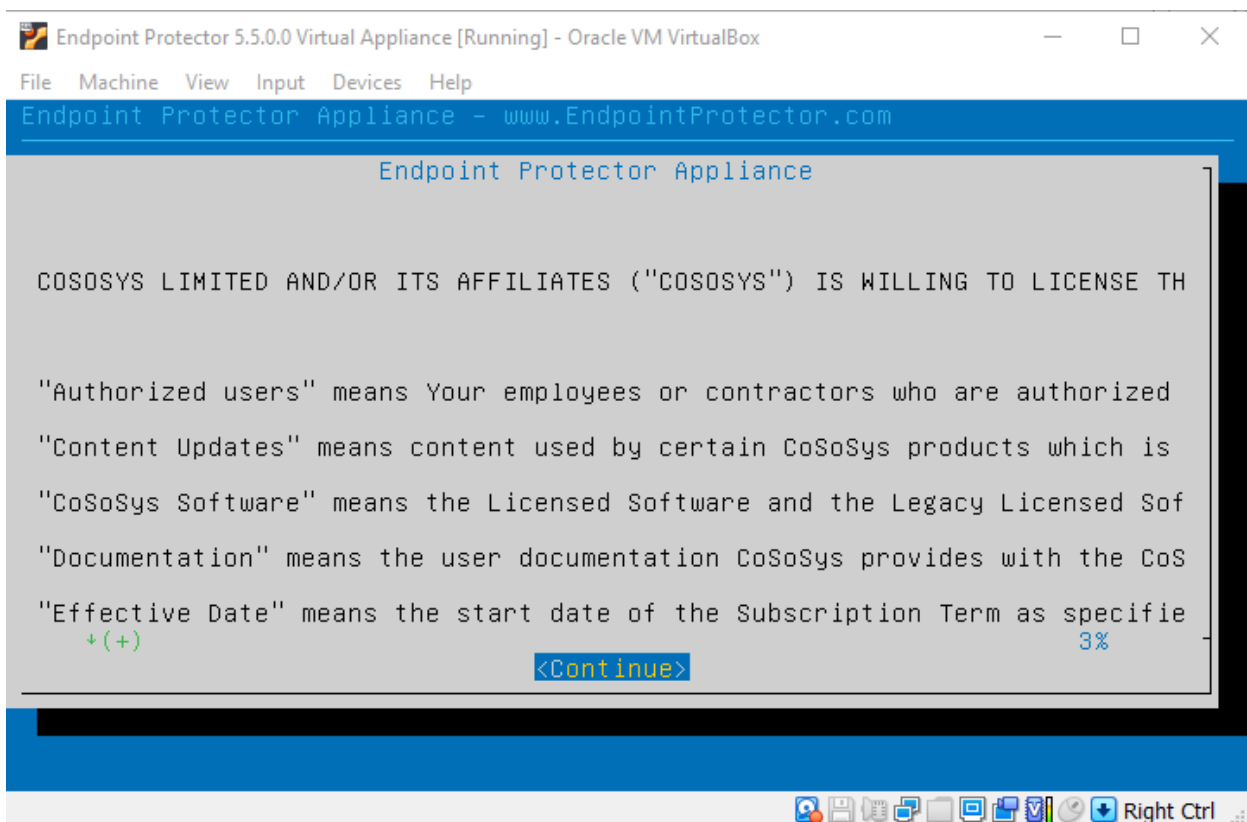
5. Virtual Appliance Setup Wizard

The Endpoint Protector Appliance (virtual or hardware) requires incoming traffic for ports 443 and 80 to be whitelisted from the firewall. They are used for:

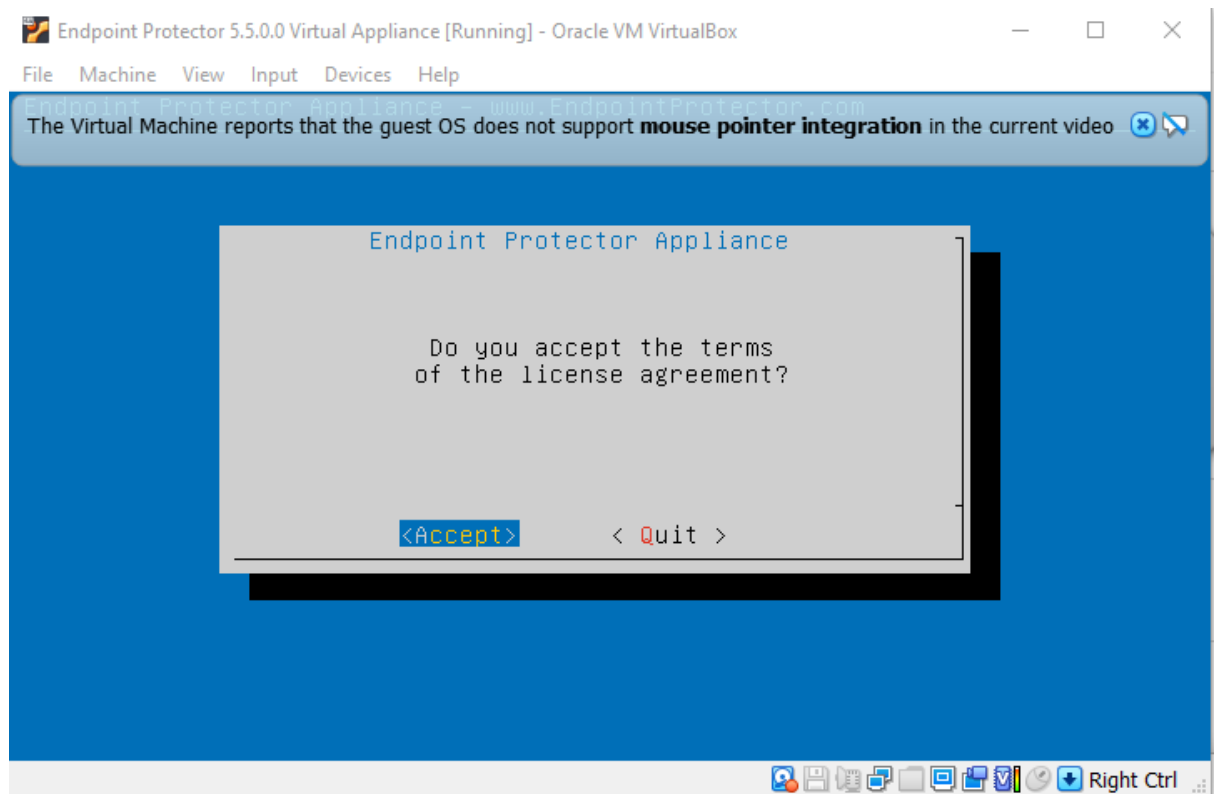
- Endpoint Protector Server and Client communication: 443
- Mobile Device Management Cloud (cloud.endpointprotector.com): 443
- Live Update (liveupdate.endpointprotector.com): 80 & 443

To configure the Endpoint Protector Appliance for the first time, follow the steps below.

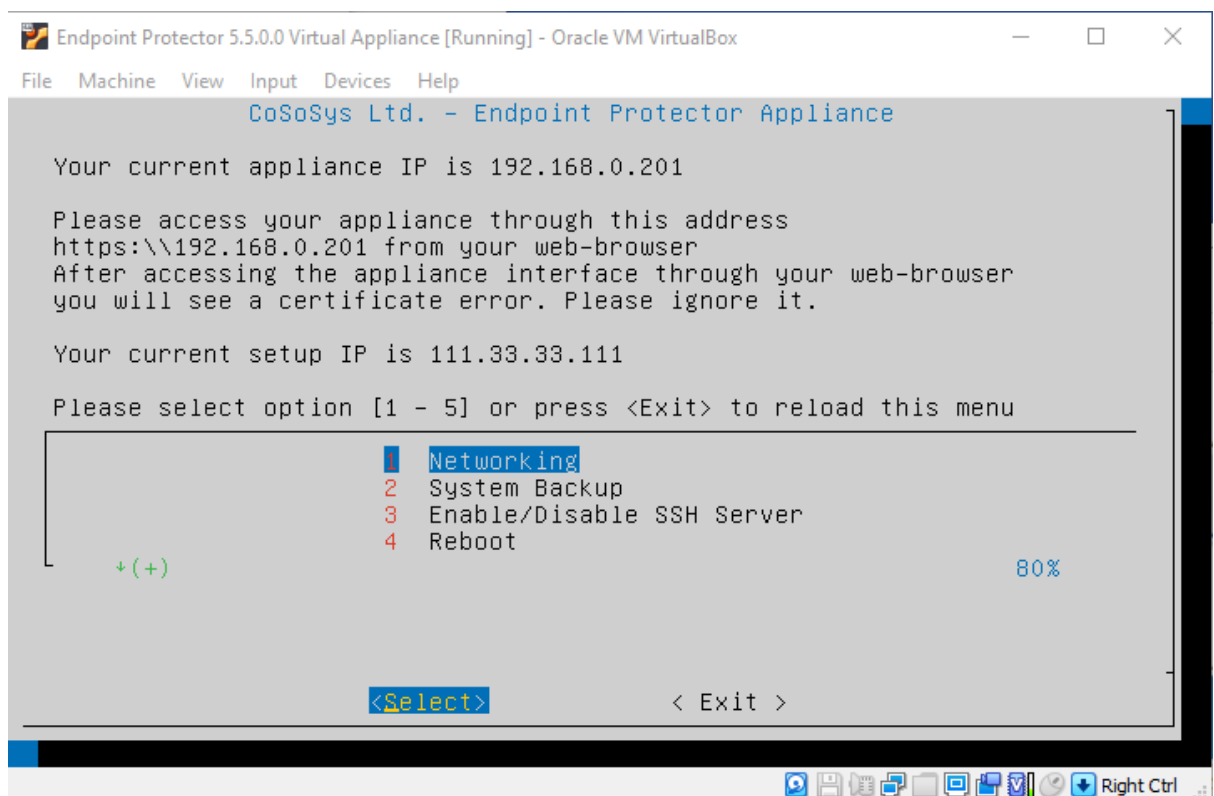
1. Select **Continue** when finished reading the End User License Agreement;



2. Select **Accept**;

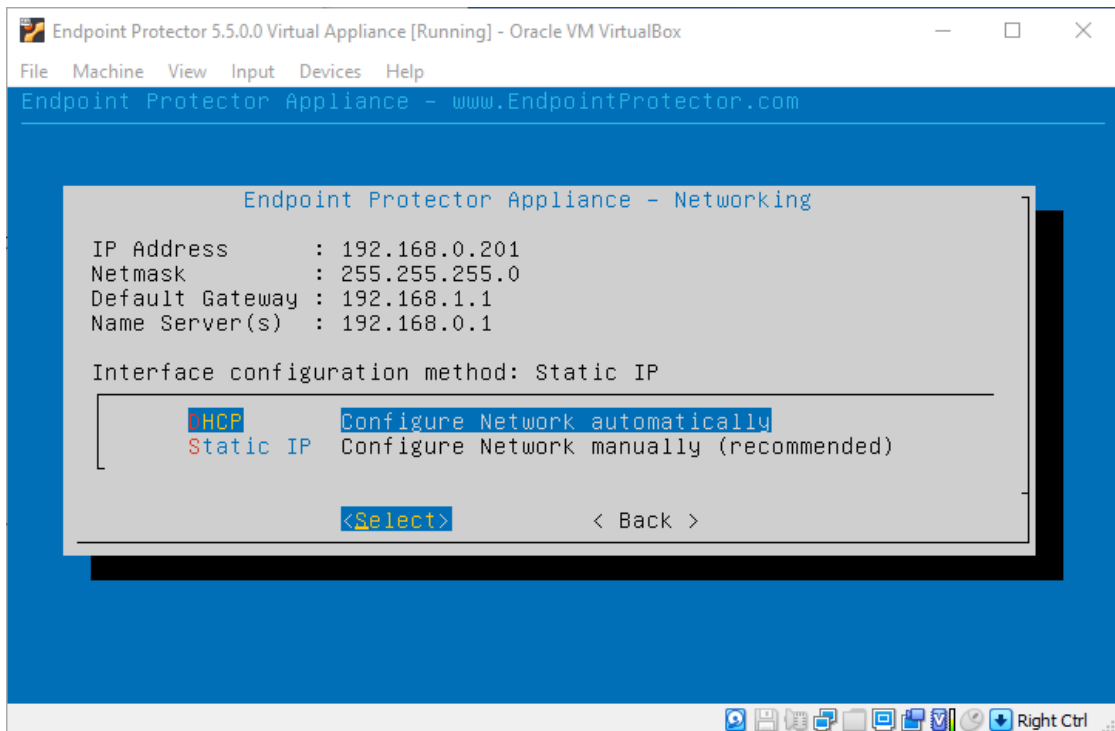


3. Select **Networking**;



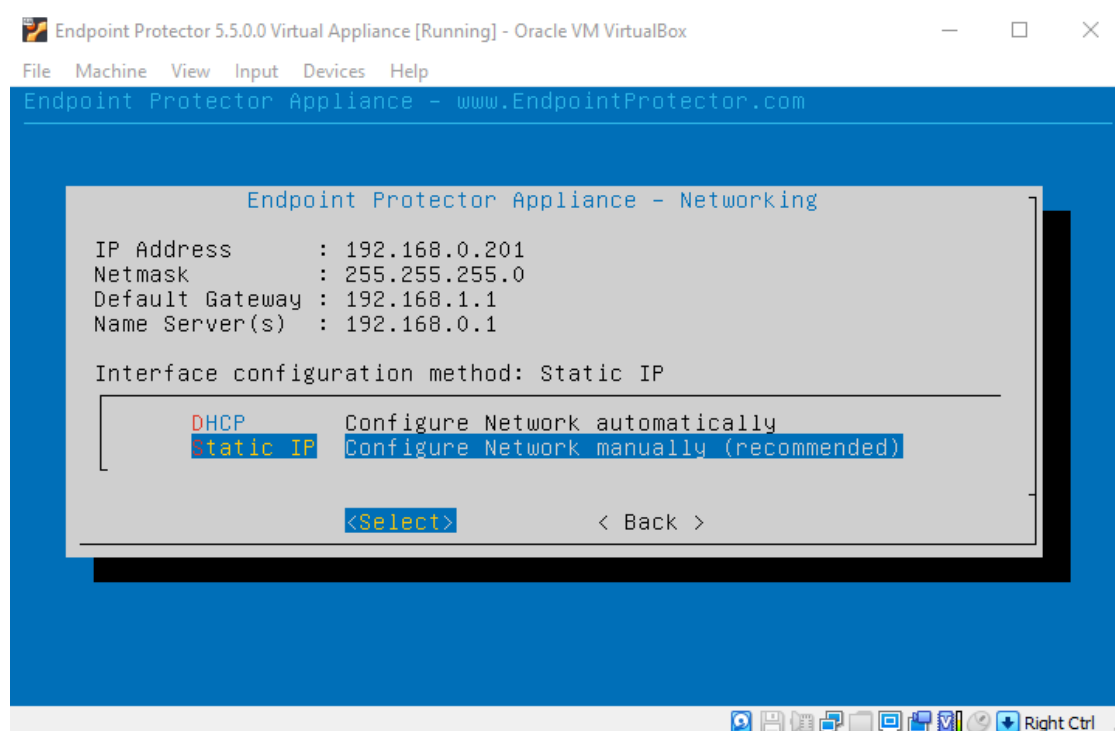
4. The configuration methods are now available.

Important: We recommend a manual configuration of the network settings.

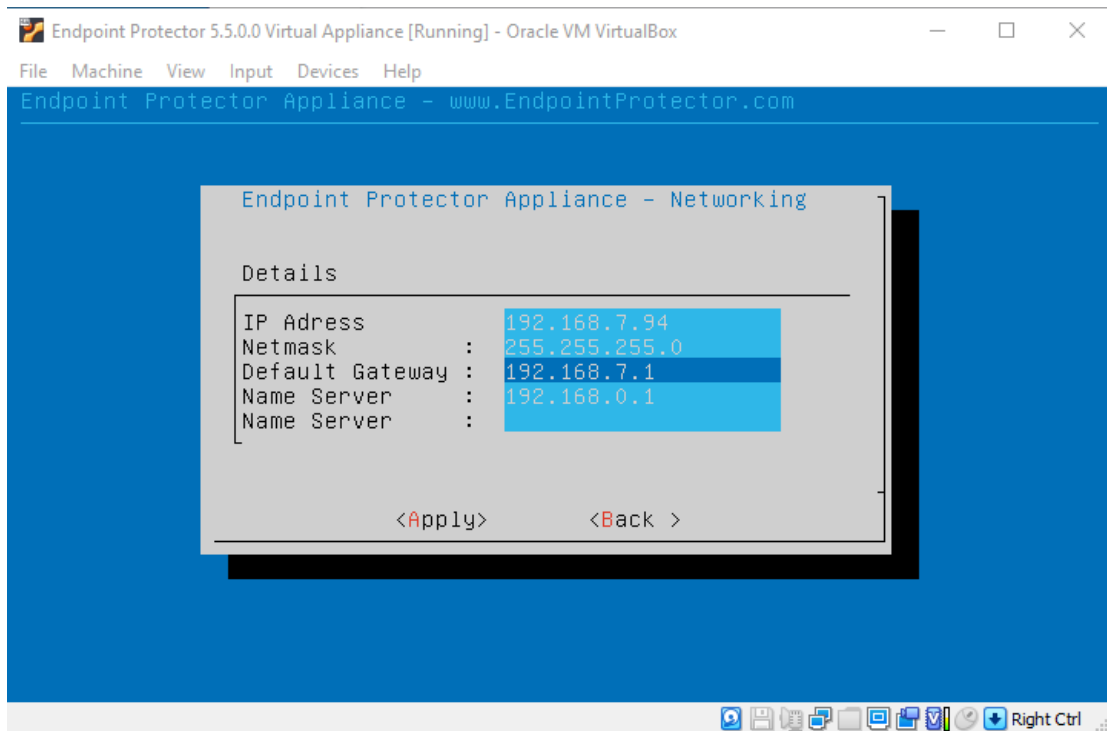


5.1.1 Manual configuration

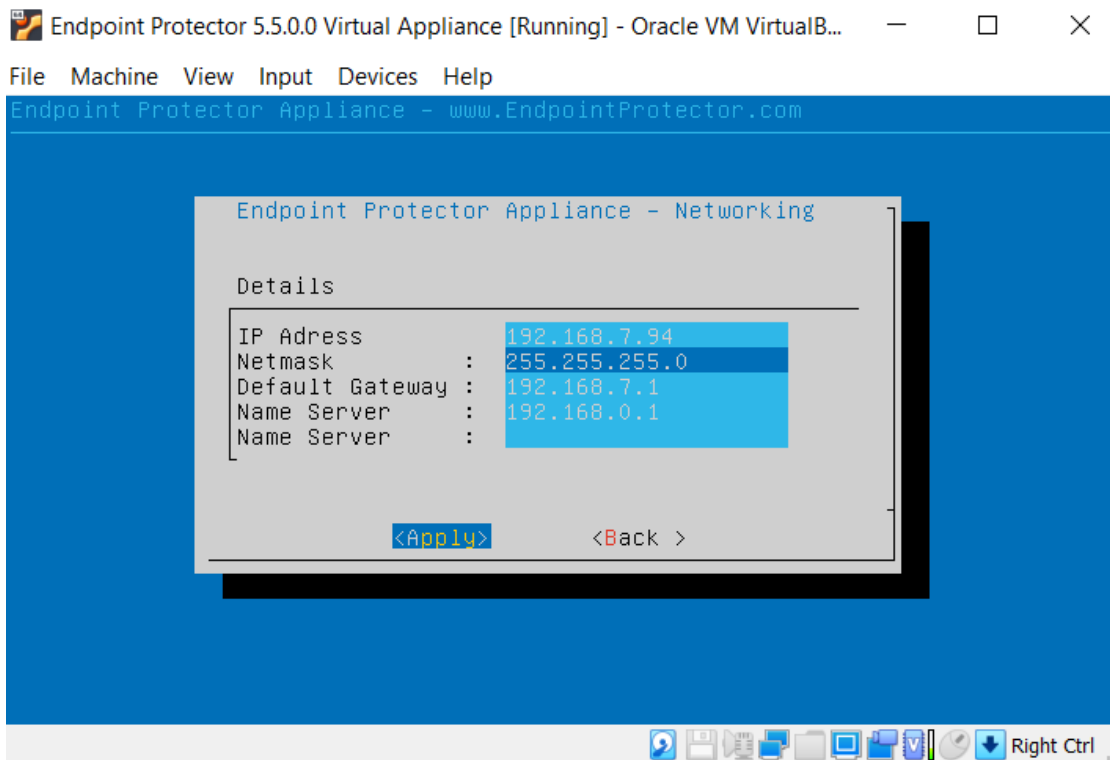
1. Select **Configure Network manually (recommended)**;



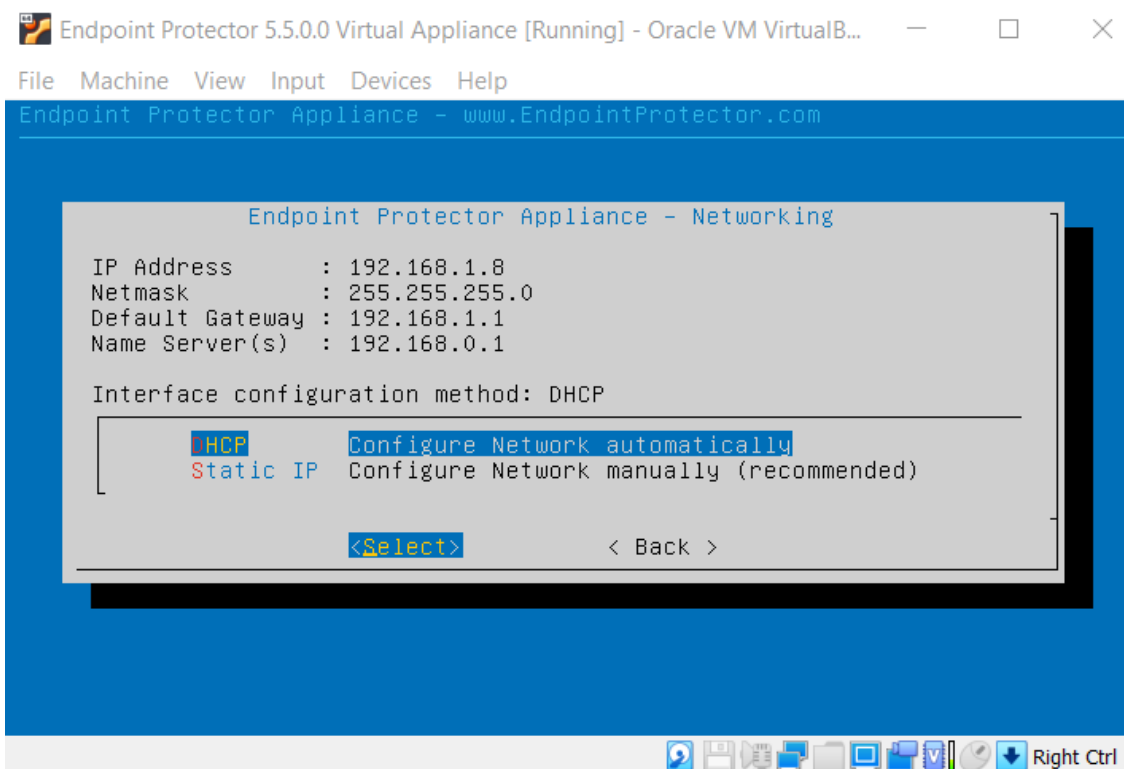
2. Set the IP Address, and Default Gateway (in our example we set the IP Address as 192.168.7.94 and the Default Gateway as 192.168.7.1);



3. Press **Tab**;

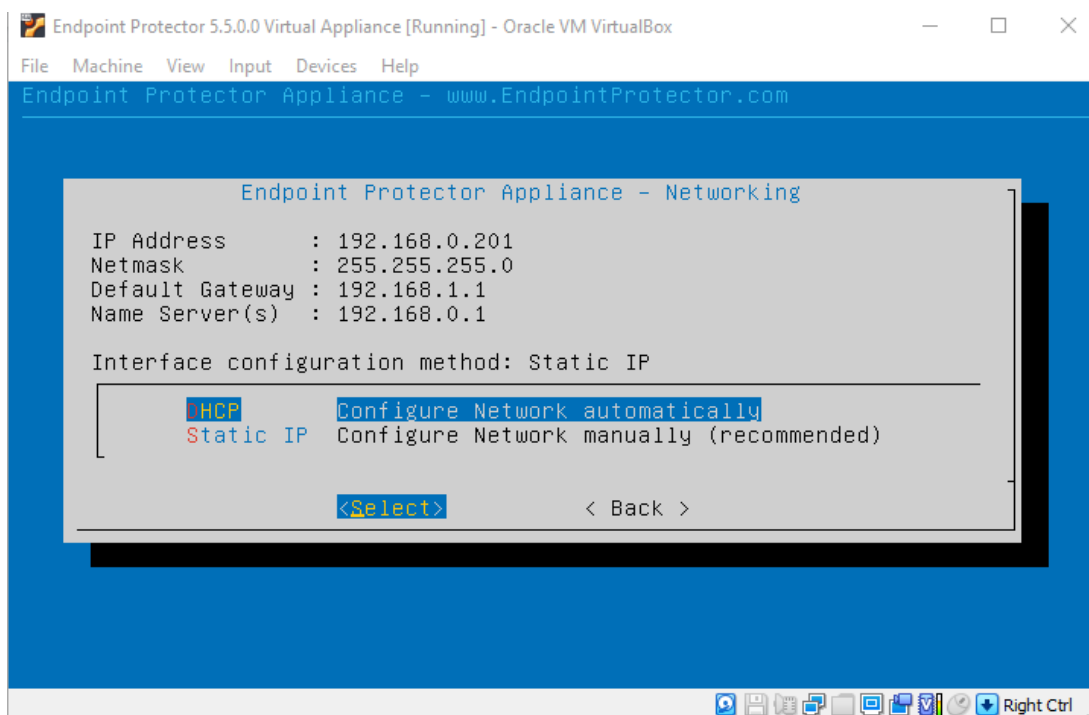


4. Select **Apply** - the virtual appliance is now accessible from the configured IP Address.
(in our example, [https:// 192.168.7.94](https://192.168.7.94))



5.1.1. Automatic configuration

Select configure network automatically, and select **Enter**. The IP Address and Default Gateway will be configured automatically.



6. Endpoint Protector Configuration

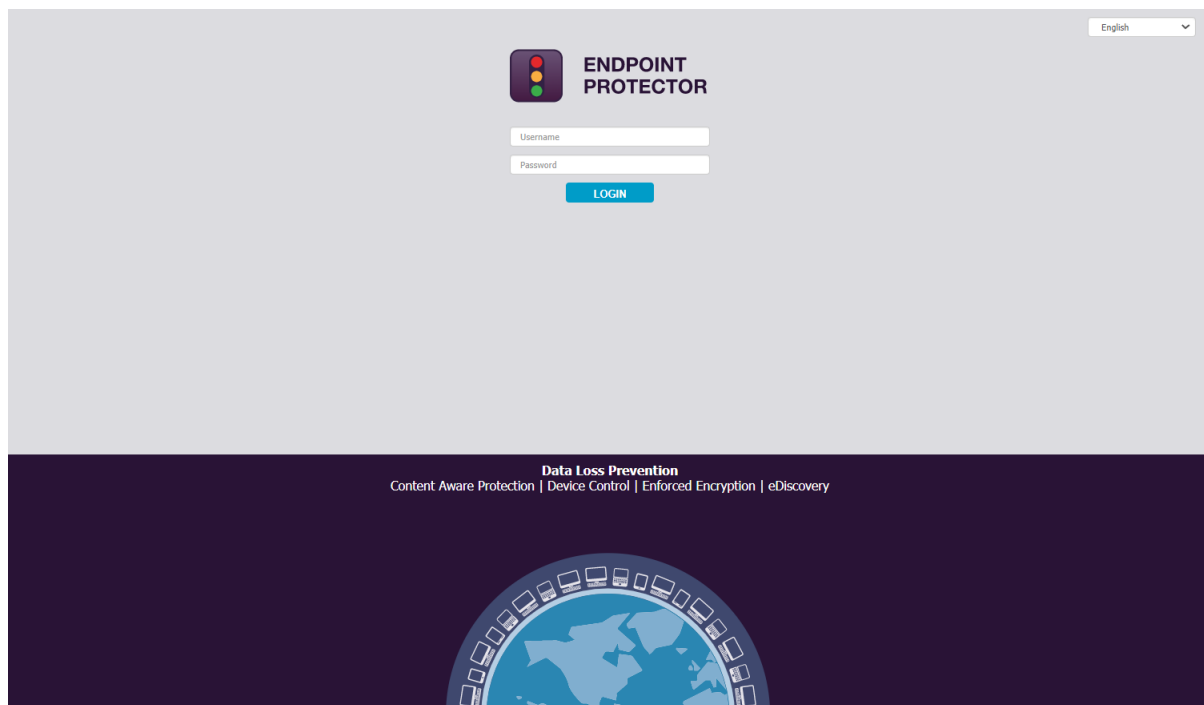
After assigning a static IP in the Endpoint Protector Setup Wizard, you can connect the Appliance to your network.

The Endpoint Protector User Interface can be accessed by going to the defined HTTPS address (e.g. default: <https://192.168.0.201>).

6.1. Login to Endpoint Protector

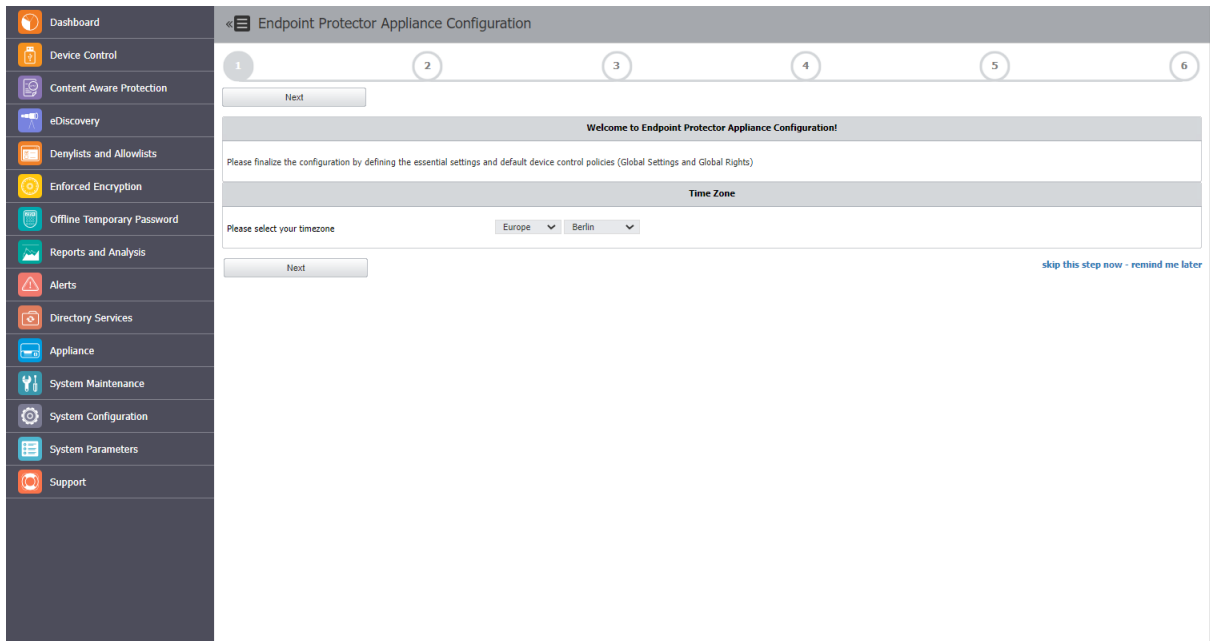
Enter the username and password defined in the Endpoint Protector Setup Wizard.

Use the default Endpoint Protector credentials for the root account.



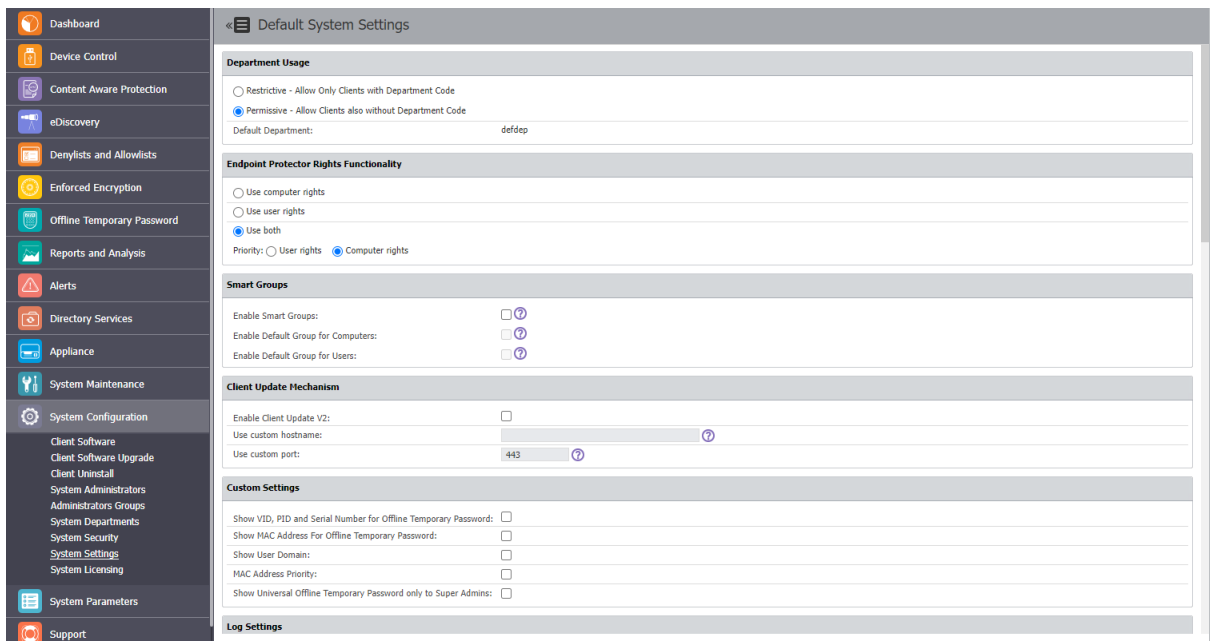
6.2. Configuration Wizard

To finalize the Endpoint Protector Configuration, some important basic settings and the default device control policy (Global Settings) have to be defined by following the steps in the Configuration Wizard.



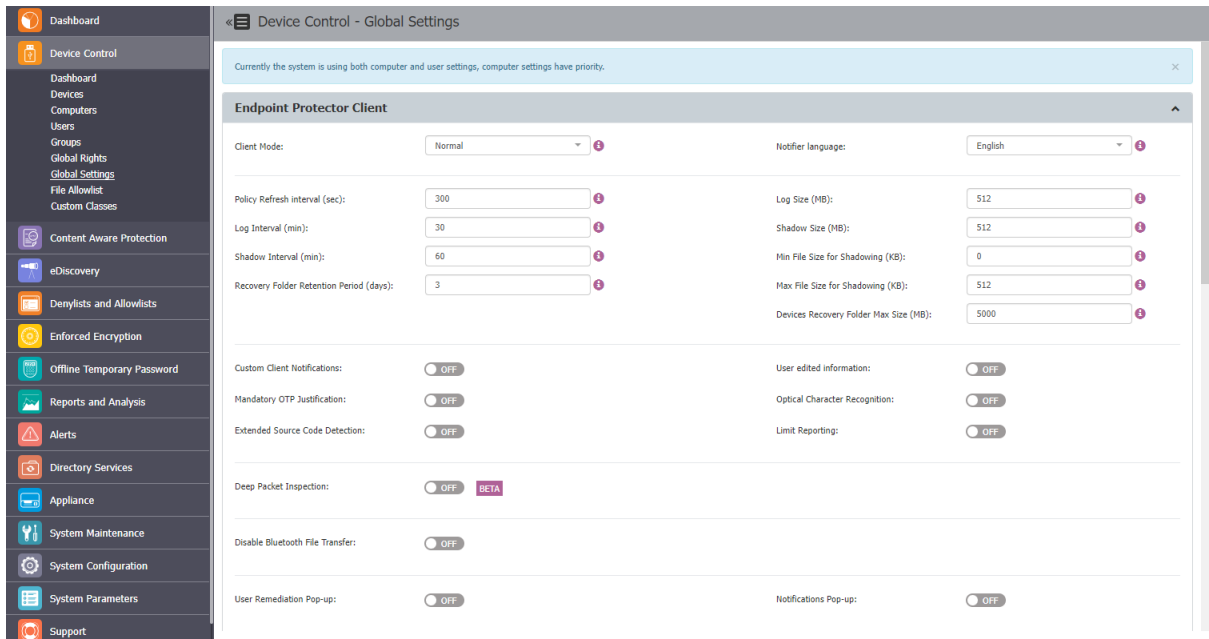
6.3. System Settings

Some basic settings are required for the Endpoint Protector to function properly. Select what rights have priority, the E-mail address used to receive Alerts, the main Administrator contact, the Proxy Server Settings, and more.



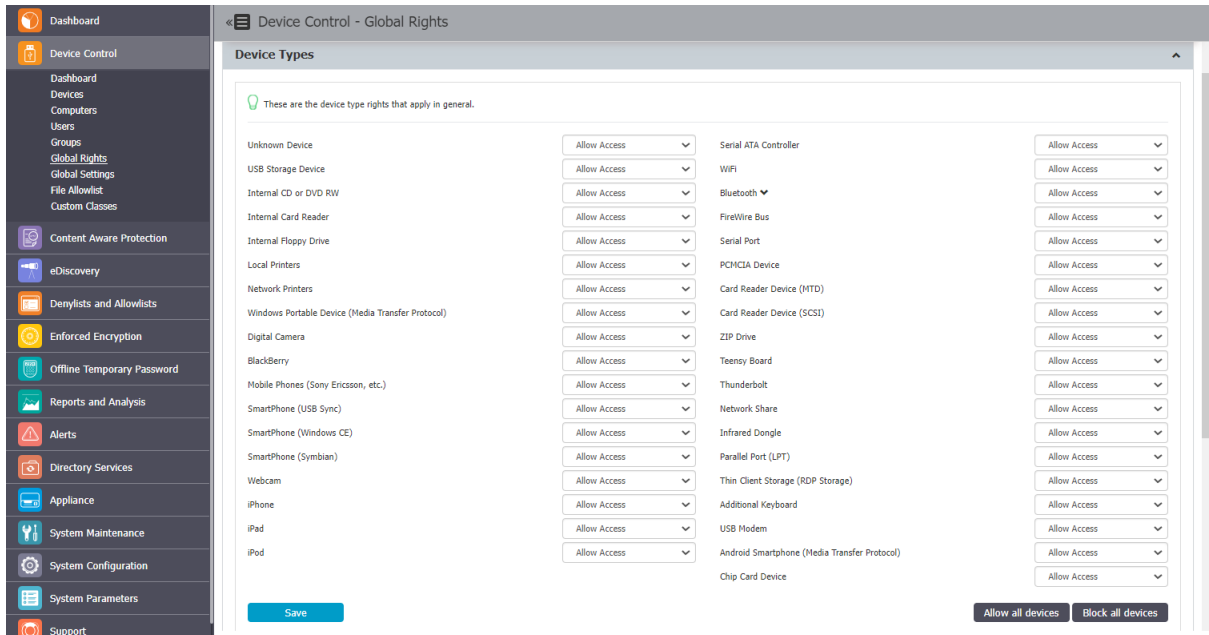
Additionally, the Endpoint Protector Client Refresh Interval, the activated or deactivated features such as File Tracing and File Shadowing, and the default parameters for the generated logs can also be configured.

By default, the recommended settings are already configured and they apply globally throughout the entire network.



6.4. Default Device Control Rights

As Endpoint Protector provides the Device Control module enabled by default, the use of USB devices and peripheral ports have the Global Rights preconfigured. They can be changed later at any time or they can be applied more granularly (per device, computer, user, or group).



6.5. Finishing the Endpoint Protector Configuration Wizard

After following the above steps, the Endpoint Protector setup and configuration are completed. The next step is to deploy the Endpoint Protector Clients to the Windows, Mac, and Linux computers that need to be protected.

7. Server Information and Maintenance

The Endpoint Protector Server Information and Maintenance Settings can be accessed from the Appliance section in the main menu.

7.1. Server Information

This section displays information about the Server's current state.

The screenshot displays the 'Endpoint Protector Appliance - System Information' page. The left sidebar contains a navigation menu with items: Dashboard, Device Control, Content Aware Protection, eDiscovery, Denylists and Allowlists, Enforced Encryption, Offline Temporary Password, Reports and Analysis, Alerts, Directory Services, Appliance (with sub-items: Server Information, Server Maintenance, SIEM Integration), System Maintenance, System Configuration, System Parameters, and Support. The main content area is divided into several sections:

- System Fail/Over Status:** System Fail/Over Status: N/A
- Disk Space:**

Disk Space System:	6.3G - 14% from 50G
Disk Space EPP Server:	1.2G - 1% from 25BG
Logs on Disk:	4.0K
Shadows on Disk:	8.0K
- Info Disk Space:**

Please consider taking one of the following actions in **System Maintenance** tab if you have used up 95% of the storage resources available on the appliance:

 1. Back-up & Save old or unneeded logs by going to File Maintenance and selecting the suitable option.
 2. Remove old or unneeded logs by going to File Maintenance and selecting the suitable option.

Alternatively, go to System Configuration > System Policies and:

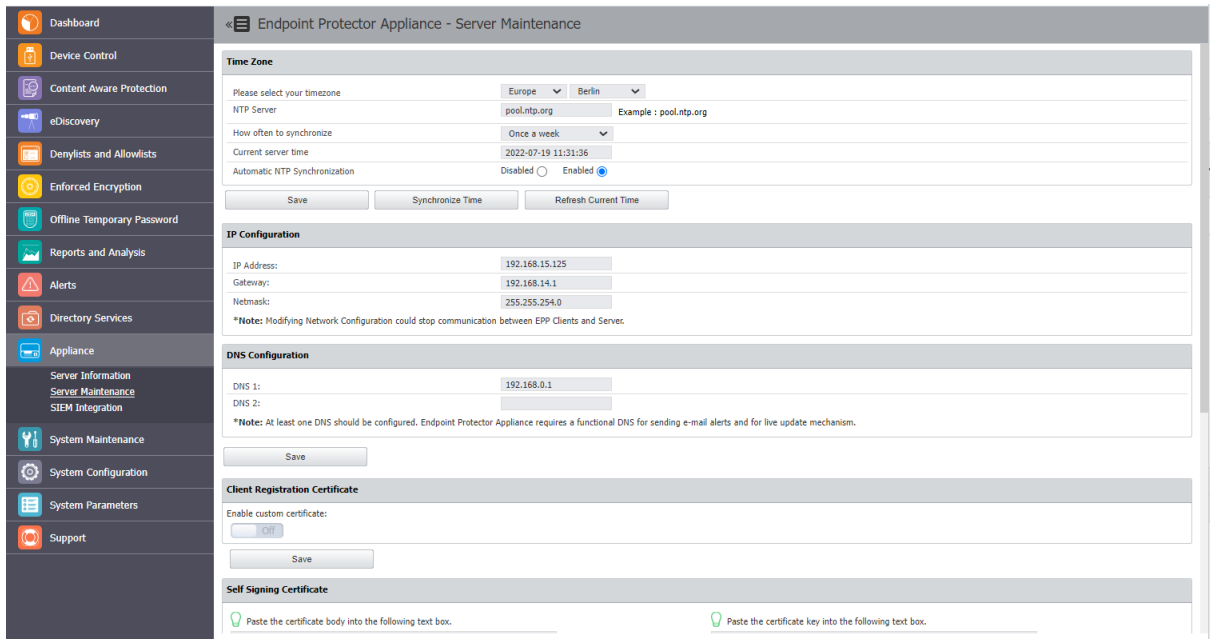
 3. Disable or Change the granularity of your policies. Activating File Tracing / Shadowing under Global Settings will greatly affect your Server performance. It is recommended to activate File Tracing / File Shadowing for specific Computers.
 4. Enable the Automatic Log Cleanup feature and Set the HDD Disk Space percentage at which the process will begin
- Database Disk Space occupied:**

Database Disk Space occupied:	34M
Number of Logs in Database:	0
Number of Files Traced:	0
Number of Files Shadowed:	0
- System:**

Uptime:	11:20:07 up 14 days, 2:42, 0 users, load average: 1.58, 1.30, 0.91 - 1, 5 and 15 minutes ago
Linux Distribution:	Ubuntu 18.04.6 LTS 1
System Information Update:	2022-Jul-19 11:20:07

7.2. Server Maintenance

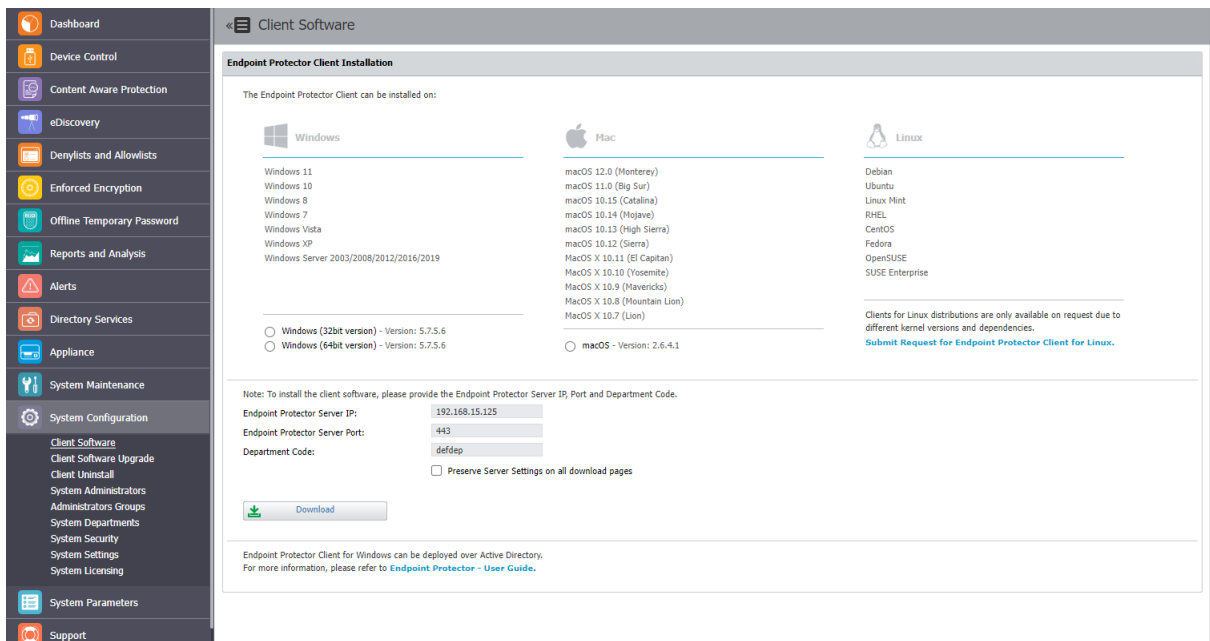
This section provides the option to configure the Appliance network settings, reboot or shut down the appliance, and more.



7.3. Endpoint Protector Client Installation

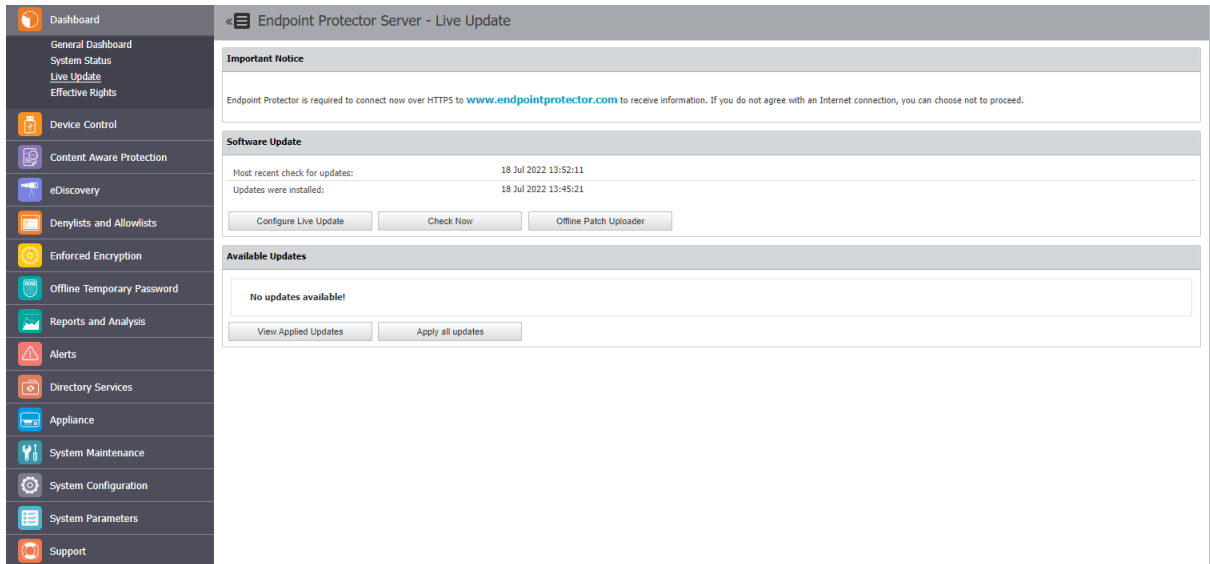
The Endpoint Protector Client needs to be deployed on the computers in the network. They can be downloaded directly from the Appliance by accessing the static IP Address in a browser (e.g.: <http://192.168.0.201>). The Endpoint Protector Download section can be accessed through both HTTPS and HTTP, allowing a user that is not an Endpoint Protector Administrator to deploy it themselves.

If the Endpoint Protector Administrator is going to deploy the Client on the network computers, it needs to be saved on a location. Solutions like Active Directory or Apple Remote Desktop can be used to make the deployment easier.



7.4. Endpoint Protector Live Update

The Live Update feature allows checking online if Endpoint Protector updates are available. The process can be done manually or, if enabled, automatically. However, installing any available updates need to be done by the Endpoint Protector Administrator.



8. Hardware Appliance Setup

8.1. Endpoint Protector Appliance Delivery

When receiving the Endpoint Protector Appliance, the package contains:

- Endpoint Protector Appliance
- Power Cable
- Crossed Network Cable for the initial Appliance Setup (yellow sticker) (not included with the A20 model)
- Network Cable for connection of Appliance with your network
- Rack Mount Screws (not included with the A20 model)
- Extractable assembly rails (included in A250, A500, A1000, and A4000 models only)
- External power supply (only included and required for A20)



8.2. Connecting Appliance for Initial Setup

Connect the power cable to the appliance and a power outlet.

For the A20 appliance connect the external power supply to the A20 and the power outlet. Next, connect the blue cable to the A20 network port and then to the network.

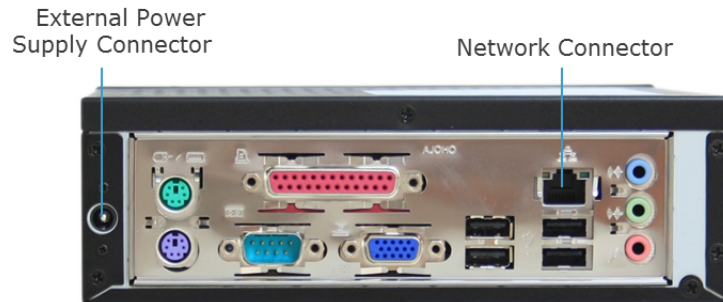
Your hardware appliance (models A50 to A4000) contains on the backside two network ports that are marked yellow for CONFIG (configuration connection) and blue for NET (network connection). The A20 hardware appliance has one network port.

Connect the CROSSED Network Cable (yellow sticker) to the configuration network port CONFIG (yellow marked) on the back of the appliance and connect it directly to a PC (a Laptop, PC, Netbook).

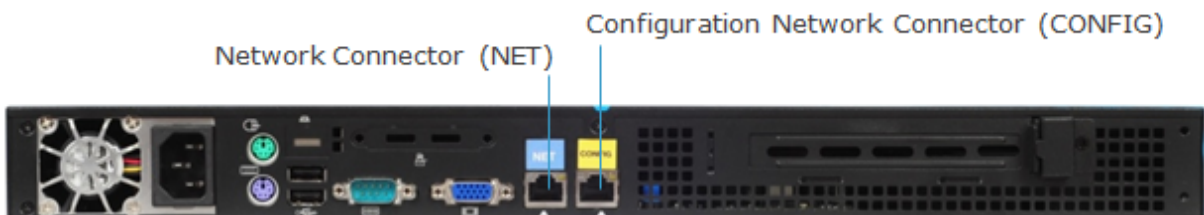
Start the Appliance by pushing the POWER button.

8.3. Hardware Appliance Back and Front Panel

8.3.1. A20 Appliance Back Panel



8.3.2. A50 and A100 Appliance Back Panel

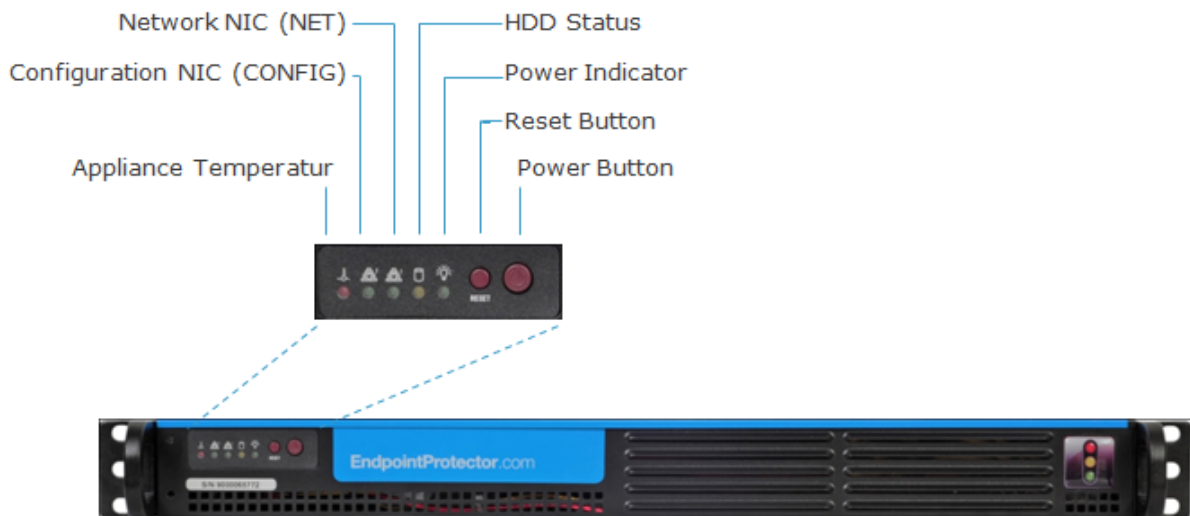


The back panels for Models A250 up to A4000 have marked network ports similar to the picture above for the A50 and A100 model.

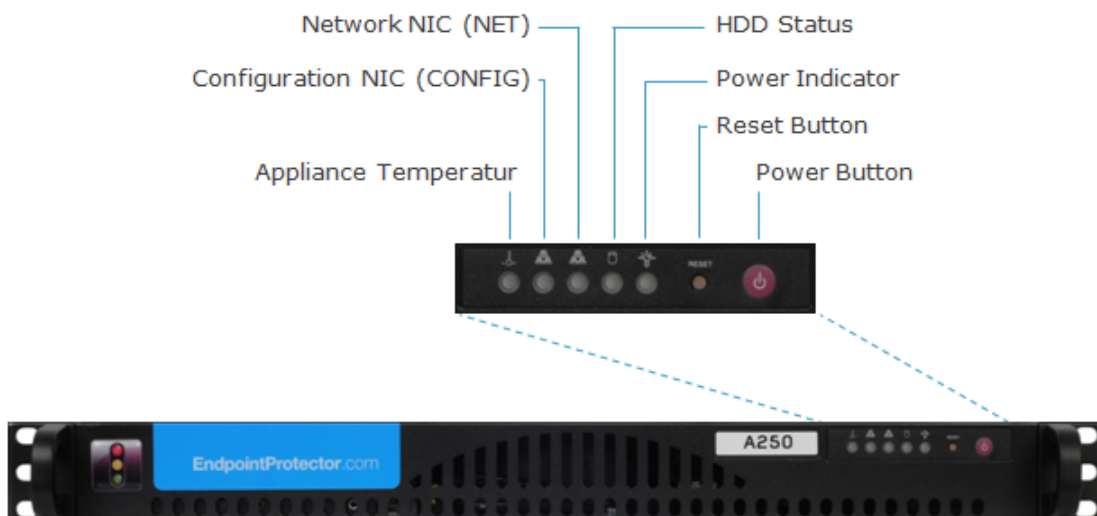
8.3.3. A20 Appliance Front Panel



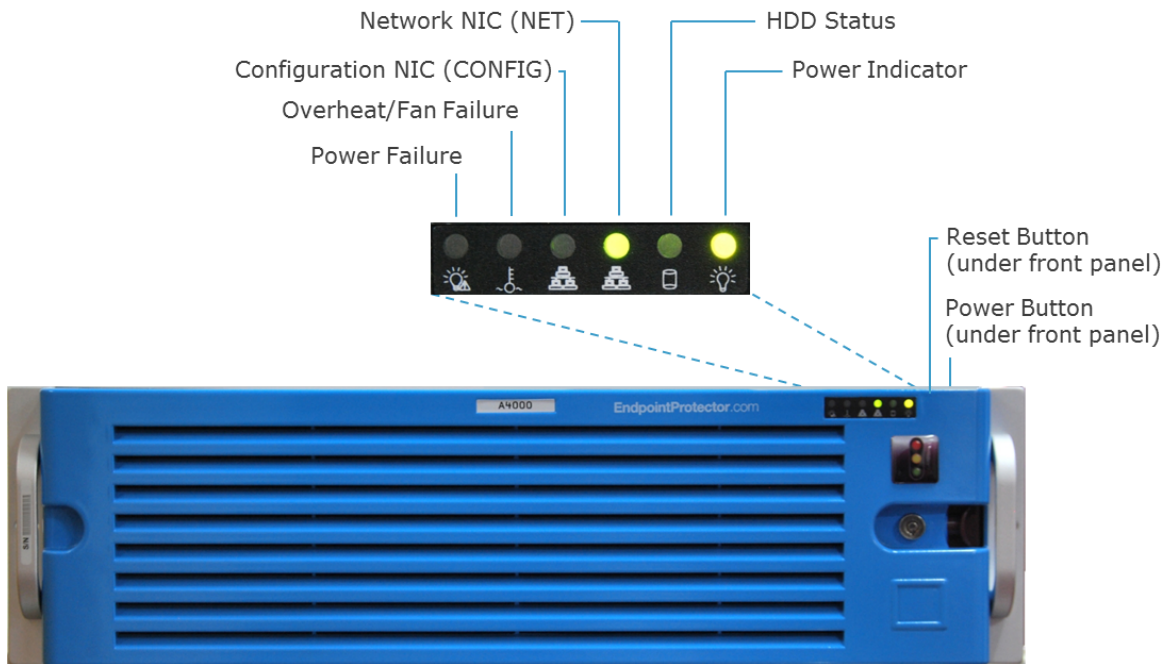
8.3.4. A50 and A100 Appliance Front Panel



8.3.5. A250, A500, and A1000 Appliance Front Panel

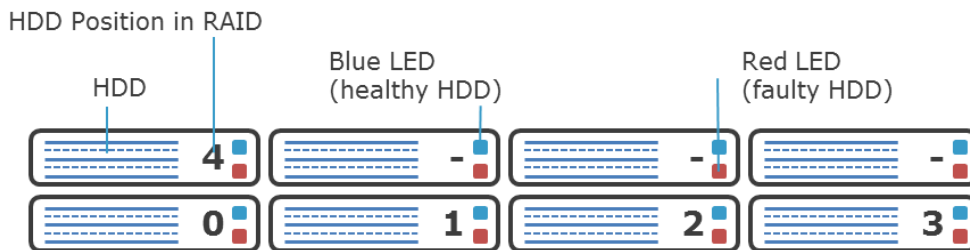


8.3.6. A2000 - A4000 Appliance Front Panel



8.4. A2000 / A4000 Appliance HDD Configuration

8.4.1. A2000 Appliance HDD Configuration

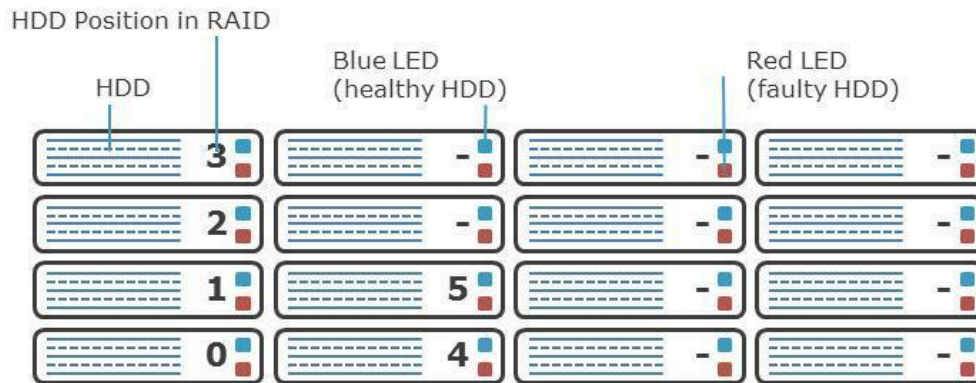


The A2000 Appliance comes with 4 HDDs in RAID 5 Configuration. The HDDs are installed in the number order 0-3.

In case of an HDD failure, the HDD can be replaced by changing it with the same model HDD.

Each HDD bay features a blue and red LED to indicate drive status. A blue indicator symbolizes a healthy hard drive, and a red indicator a bad hard drive. A faulty hard drive should be replaced immediately by an identical model.

8.4.2. A4000 Appliance HDD Configuration



The A4000 Appliance comes with 6 HDDs in RAID 5 Configuration. The HDDs are installed in the number order 0-5.

In case of an HDD failure, an HDD can be replaced by changing it with the same model HDD.

Each HDD bay features a blue and red LED to indicate drive status. A blue indicator symbolizes a healthy hard drive, and a red indicator a bad hard drive. A faulty hard drive should be replaced immediately by an identical model.

8.4.3. A2000 and A4000 Appliance HDD RAID Additional Software

The A2000 and A4000 appliance have additional configurable software from 3Ware ® preinstalled which you can use as an administrator to be warned of possible errors on one HDD by e-mail notification. More information on configuring this additional software can be found in the Appendix to this User Manual for the "3ware 3DM ® 2 ® User Manual.

8.5. Hardware Appliance Setup Wizard

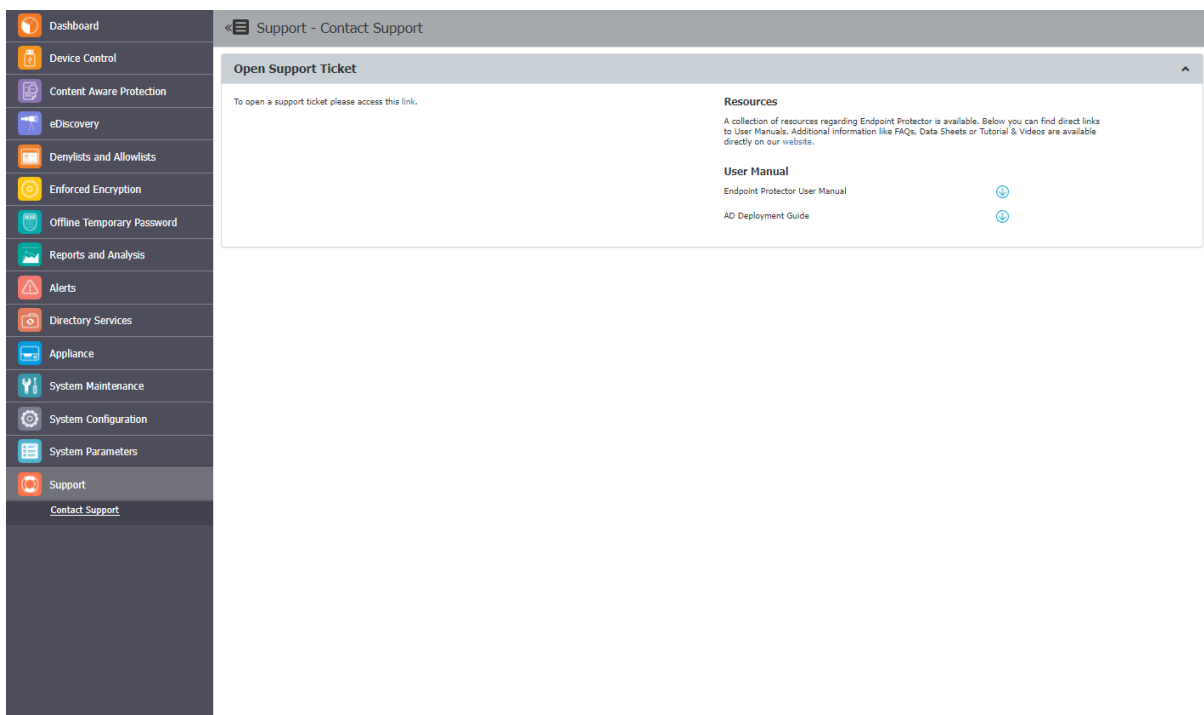
The Hardware Appliance Setup Wizard will guide you through the Endpoint Protector Hardware appliance setup.

The easiest way to configure the Endpoint Protector Hardware Appliance is to connect a mouse, keyboard, and monitor directly to it. This will prompt the same Setup Wizard as described in the chapter above Virtual Appliance Setup Wizard.

9. Support

For additional support resources, please visit our [website](#) where you can read manuals, FAQs, watch videos and tutorials, direct E-mail support, and much more.

Our Technical Support Department can also be contacted from Endpoint Protector, the Support section by using the **Open Support Ticket** option. One of our team members will contact you in the shortest time possible.



10. Disclaimer

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Each Endpoint Protector Server has the default SSH Protocol (22) open for Support Interventions, and there is one (1) System Account enabled (eproot) protected with a password. The SSH Service can be disabled at customers’ request.

Security safeguards, by their nature, are capable of circumvention. CoSoSys cannot, and does not, guarantee that data or devices will not be accessed by unauthorized persons, and CoSoSys disclaims any warranties to that effect to the fullest extent permitted by law.

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