



FastNAC



INSTALLATION GUIDE

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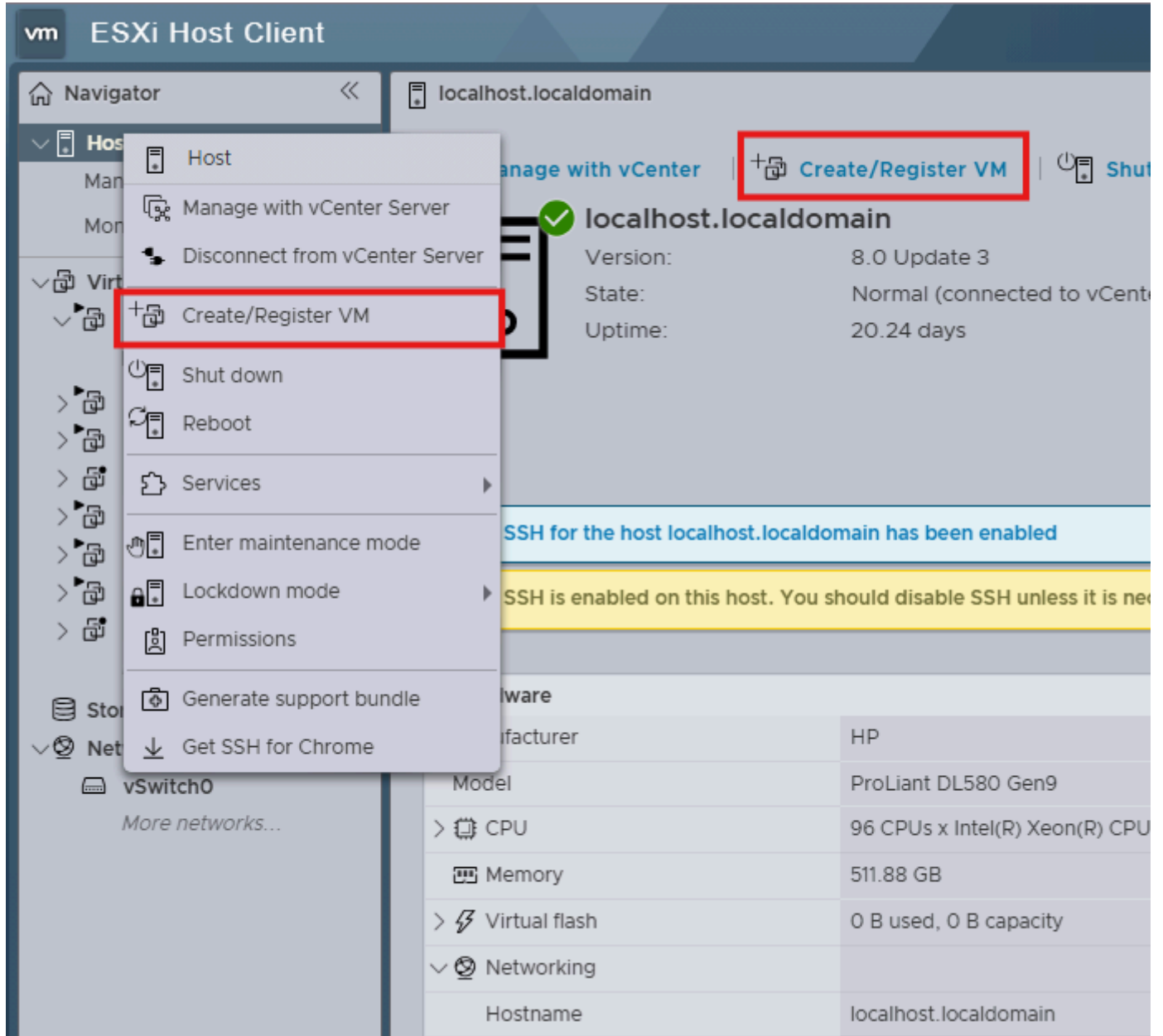
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1. Deploying to VMware ESXi Environment

FastNAC installation , the OVA file must be deployed to the virtualization environment as shown in the images below .

1.1) Creating a Virtual Server

logging into the virtualization environment , click the “ **Create/Register VM** ” option on the main screen .
(This option can also be accessed by right-clicking on the “ **Host** ” section in the left-hand menu .)



1.2) Selecting the Server Type

On the screen that appears, select the “ **Deploy a virtual machine from an OVF or OVA file** ” option and click the “ **Next** ” button .

The screenshot shows the 'New virtual machine - fastnac' wizard. On the left, a sidebar lists seven steps: 1. Select creation type (highlighted), 2. Select OVF and VMDK files, 3. Select storage, 4. License agreements, 5. Deployment options, 6. Additional settings, and 7. Ready to complete. The main area is titled 'Select creation type' with the question 'How would you like to create a Virtual Machine?'. It contains three options: 'Create a new virtual machine', 'Deploy a virtual machine from an OVF or OVA file' (which is selected and highlighted in blue), and 'Register an existing virtual machine'. To the right of these options, a note states: 'This option guides you through the process of creating a virtual machine from an OVF and VMDK files.' At the bottom right, there are four buttons: 'CANCEL', 'BACK', 'NEXT' (highlighted in blue), and 'FINISH'.

1.3) Selecting the OVA File

On the screen that appears, you need to give the FastNAC virtual machine a name and select the OVA file by dragging and dropping it into the “ **Click to select files or drag/drop** ” section, or by clicking on it.

The screenshot shows the 'New virtual machine - fastnac' wizard at Step 2: 'Select OVF and VMDK files'. The sidebar on the left now highlights step 2. The main area is titled 'Select OVF and VMDK files' with the instruction 'Select the OVF and VMDK files or OVA for the VM you would like to deploy'. Below this, there is a text input field for 'Enter a name for the virtual machine.' with the text 'fastnac' entered. A note below the input field states: 'Virtual machine names can contain up to 80 characters and they must be unique within each ESXi instance.' Below the note is a large light blue rectangular area with the text 'Click to select files or drag/drop'. At the bottom right, there are four buttons: 'CANCEL', 'BACK' (highlighted in blue), 'NEXT' (highlighted in blue), and 'FINISH'.

1.4) Selecting Disk Space

On the next screen, after selecting the storage partition where you want to deploy FastNAC, click the “**Next**” button.

The screenshot shows the 'Select storage' step of the 'New virtual machine - fastnac' wizard. On the left, a sidebar lists the steps: 1 Select creation type, 2 Select OVF and VMDK files, 4 Select storage (highlighted), 7 Deployment options, and 9 Ready to complete. The main area is titled 'Select storage' with the subtitle 'Select the storage type and datastore'. There are two tabs: 'Standard' (selected) and 'Persistent Memory'. Below the tabs, it says 'Select a datastore for the virtual machine's configuration files and all of its virtual disks.' A table lists available datastores:

Name	Capacity	Free	Type	Thin provision	Access
SSD	13.97 TB	6.02 TB	VMFS6	Supported	Single
VeeamBackup_DESKTOP-Q9J6CFS	0 B	0 B	NFS	Supported	Single

At the bottom right of the table, it says '2 items'. At the bottom of the wizard, there are four buttons: 'CANCEL', 'BACK', 'NEXT', and 'FINISH'.

1.5) Deployment Features

In the “**Deployment options**” section ;

The screenshot shows the 'Deployment options' step of the 'New virtual machine - fastnac' wizard. On the left, a sidebar lists the steps: 1 Select creation type, 2 Select OVF and VMDK files, 4 Select storage, 7 Deployment options (highlighted), and 9 Ready to complete. The main area is titled 'Deployment options' with the subtitle 'Select deployment options'. It contains several configuration sections:

- Network mappings:** Management (Vlan10), Guests (TRUNK), Reserved (TRUNK).
- Disk provisioning:** Thin (selected) or Thick.
- Power on automatically:** Checked (checkbox).

At the bottom of the wizard, there are four buttons: 'CANCEL', 'BACK', 'NEXT', and 'FINISH'.

FastNAC comes with three network interfaces by default: **Management, Guests, and Reserved** . These interfaces are required according to FastNAC's deployment model.

Management – FastNAC is managed via the web interface using this IP address (or FQDN if an A-record is entered). Additionally, FastNAC communicates with all peripheral components (switches, computers, printers, etc.) through this interface.

Guests – This is a required network card for the Hotspot module. It initially appears as "Not Connected".

Reserved – This network card is the third network card of the FastNAC and is in a reserved state. It initially appears as "Not Connected".

- The "**Disk provisioning**" section is set to "**Thin**".
- The "**Power on automatically**" option is checked.

you proceed to the next step by clicking the "**Next**" button.

1.6) Completion of the Deployment Process

Once all steps are completed, the deployment process is finalized by clicking the "**Finish**" button.

New virtual machine - FastNAC

1 Select creation type

2 Select OVF and VMDK files

4 Select storage


7 Deployment options

9 Ready to complete

Ready to complete

Review your settings selection before finishing the wizard

Product	FastNAC_v3.0.0
VM Name	FastNAC
Files	FastNAC_v3.0.0-disk1.vmdk
Datastore	SSD
Provisioning type	Thin
Network mappings	Management: Vlan10, Guests: TRUNK, Reserved: TRUNK
Guest OS Name	Unknown

 Do not refresh your browser while this VM is being deployed.

CANCEL

BACK

NEXT

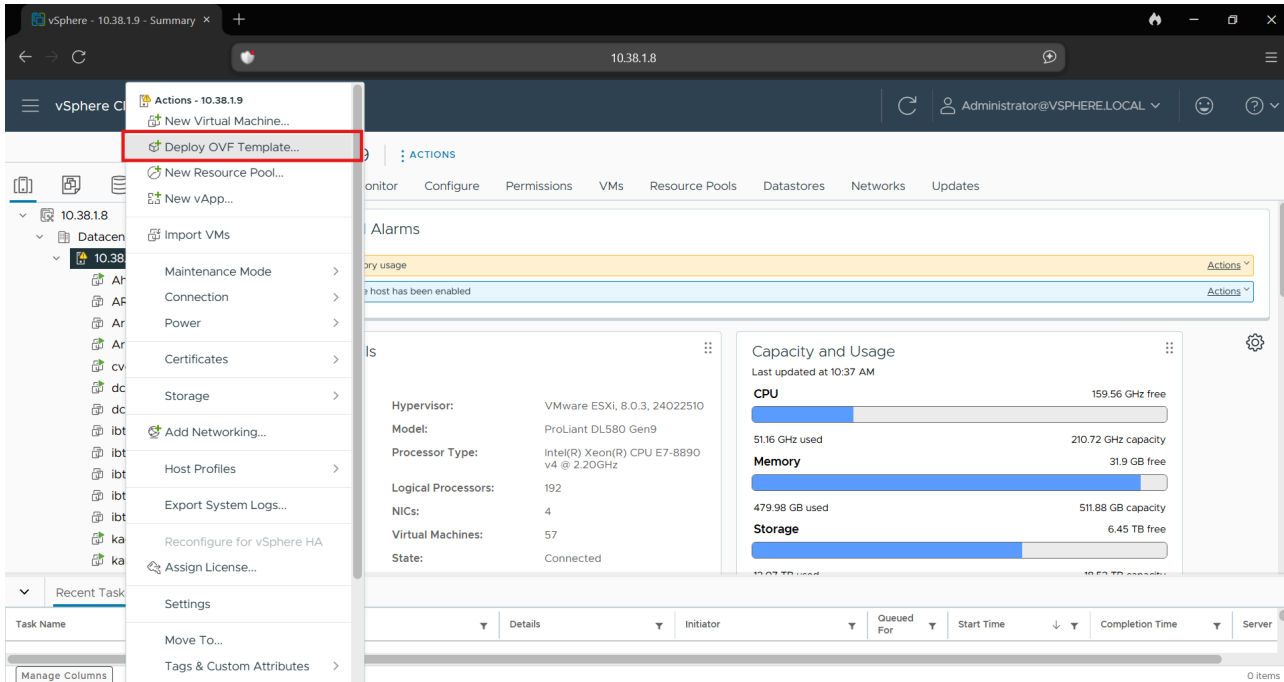
FINISH

2. Deployment to VMware vCenter Environment

For FastNAC installation, the OVA file must be deployed to the vCenter environment as shown in the images below.

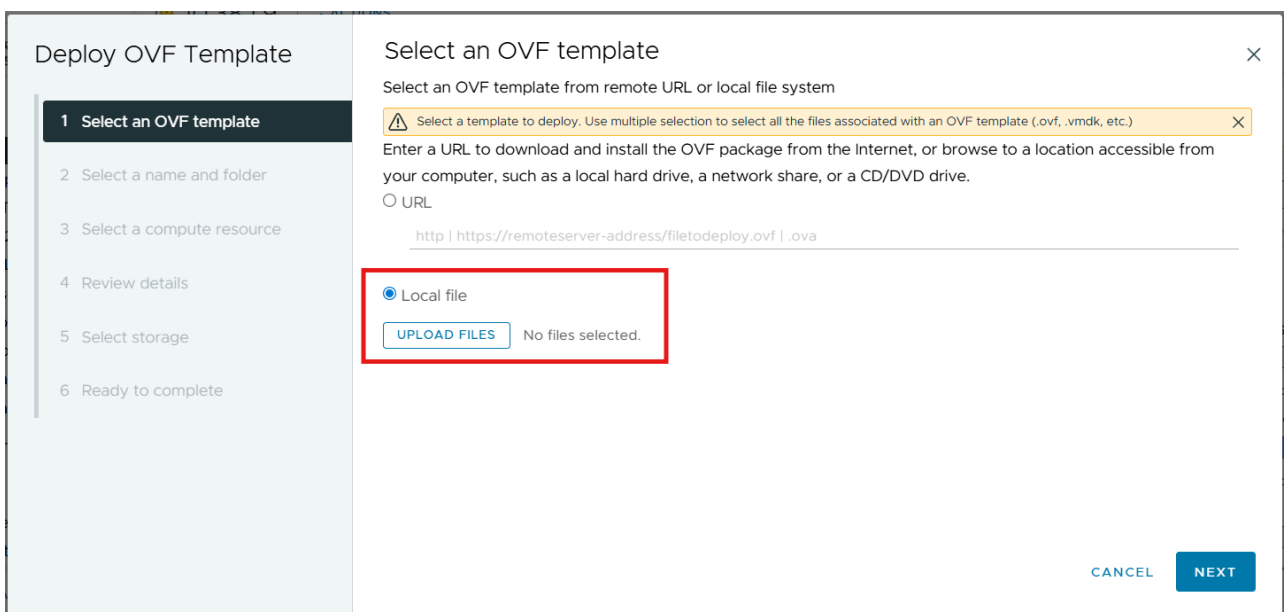
2.1) Deploy OVF Template

After logging into the vCenter environment, right-click on the server and select "**Deploy OVF Template...**".



2.2) OVA File Selection

In the window that opens, "**Local**" By selecting the "**File**" option, **you can upload it**. Click the "**Files**" button, select the downloaded FastNAC OVA file, and proceed by clicking the "**Next**" button;



2.3) Choosing a Name and Upload Location

In the next window, you can choose a name and select the installation location, then proceed with the "Next" button.

Deploy OVF Template

- 1 Select an OVF template
- 2 Select a name and folder**
- 3 Select a compute resource
- 4 Review details
- 5 Select storage
- 6 Ready to complete

Select a name and folder

Specify a unique name and target location

Virtual machine name:

Select a location for the virtual machine.

- 10.38.1.8
 - Datacenter**

CANCEL BACK NEXT

2.4) Compliance Checks

The next window checks the compatibility of the FastNAC OVA file. You can skip this step by clicking "Next".

Deploy OVF Template

- 1 Select an OVF template
- 2 Select a name and folder
- 3 Select a compute resource**
- 4 Review details
- 5 Select storage
- 6 Ready to complete

Select a compute resource

Select the destination compute resource for this operation

- Datacenter
 - 10.38.1.9**

Compatibility

✓ Compatibility checks succeeded.

CANCEL BACK NEXT

2.5) Adjustment Controls

In the next window, you can see a general summary of the settings up to this point. You can proceed by clicking "**Next**".

Deploy OVF Template

- 1 Select an OVF template
- 2 Select a name and folder
- 3 Select a compute resource
- 4 Review details**
- 5 Select storage
- 6 Select networks
- 7 Ready to complete

Review details

Verify the template details.

Warning: The OVF package contains advanced configuration options, which might pose a security risk. Review the advanced configuration options below. Click next to accept the advanced configuration options.

Publisher	No certificate present
Download size	4.1 GB
Size on disk	8.5 GB (thin provisioned) 250.0 GB (thick provisioned)
Advanced configuration	svga.autodetect = TRUE nvram = ovf:/file/file2

Buttons: CANCEL BACK NEXT

2.6) Disk Selection

In the next window, information about the disk on which FastNAC will be installed is entered;

Deploy OVF Template

- 1 Select an OVF template
- 2 Select a name and folder
- 3 Select a compute resource
- 4 Review details
- 5 Select storage**
- 6 Select networks
- 7 Ready to complete

Select storage

Select the storage for the configuration and disk files

☐ Encrypt this virtual machine

Select virtual disk format: Thin Provision

VM Storage Policy: Datastore Default

☐ Disable Storage DRS for this virtual machine

Name	Storage Compatibility	Capacity	Provisioned	Free
SSD	--	13.97 TB	23.08 TB	4.85 TB

Compatibility: ✓ Compatibility checks succeeded.

Buttons: CANCEL BACK NEXT

Here, the "**Select virtual disk format**" section should be set to "**Thin Provision**". Then, select the datastore disk partition where it will be installed and proceed with "**Next**".

2.7) Network Card Settings

The next window is where FastNAC's network card settings are configured;

Deploy OVF Template

1 Select an OVF template

2 Select a name and folder

3 Select a compute resource

4 Review details

5 Select storage

6 Select networks

7 Ready to complete

Select networks

Select a destination network for each source network.

Source Network	Destination Network
Management	Vlan10
Guests	VLAN60
Reserved	TRUNK

Manage Columns 3 items

IP Allocation Settings

IP allocation: Static - Manual

IP protocol: IPv4

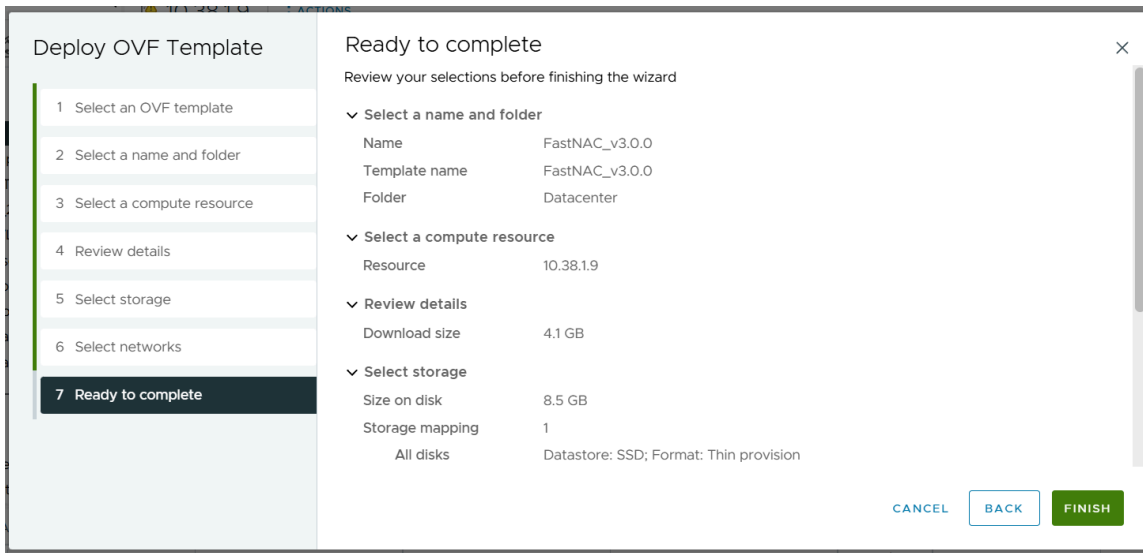
CANCEL BACK NEXT

- Management – The network card is the management network for FastNAC. It must be selected as the VLAN network to which FastNAC will be assigned an IP address.
- Guests – This is a required network card for the Hotspot module. It initially appears as "Not Connected".
- Reserved – This network card is the 3rd network card of the FastNAC and is in a reserved state. It initially appears as "Not Connected".

After making the necessary settings, click " **Next** " to proceed to the next step.

2.8) Initiating the Deployment Process

The next window displays a summary of all the settings made. The deployment process is started with the " **Finish** " button;

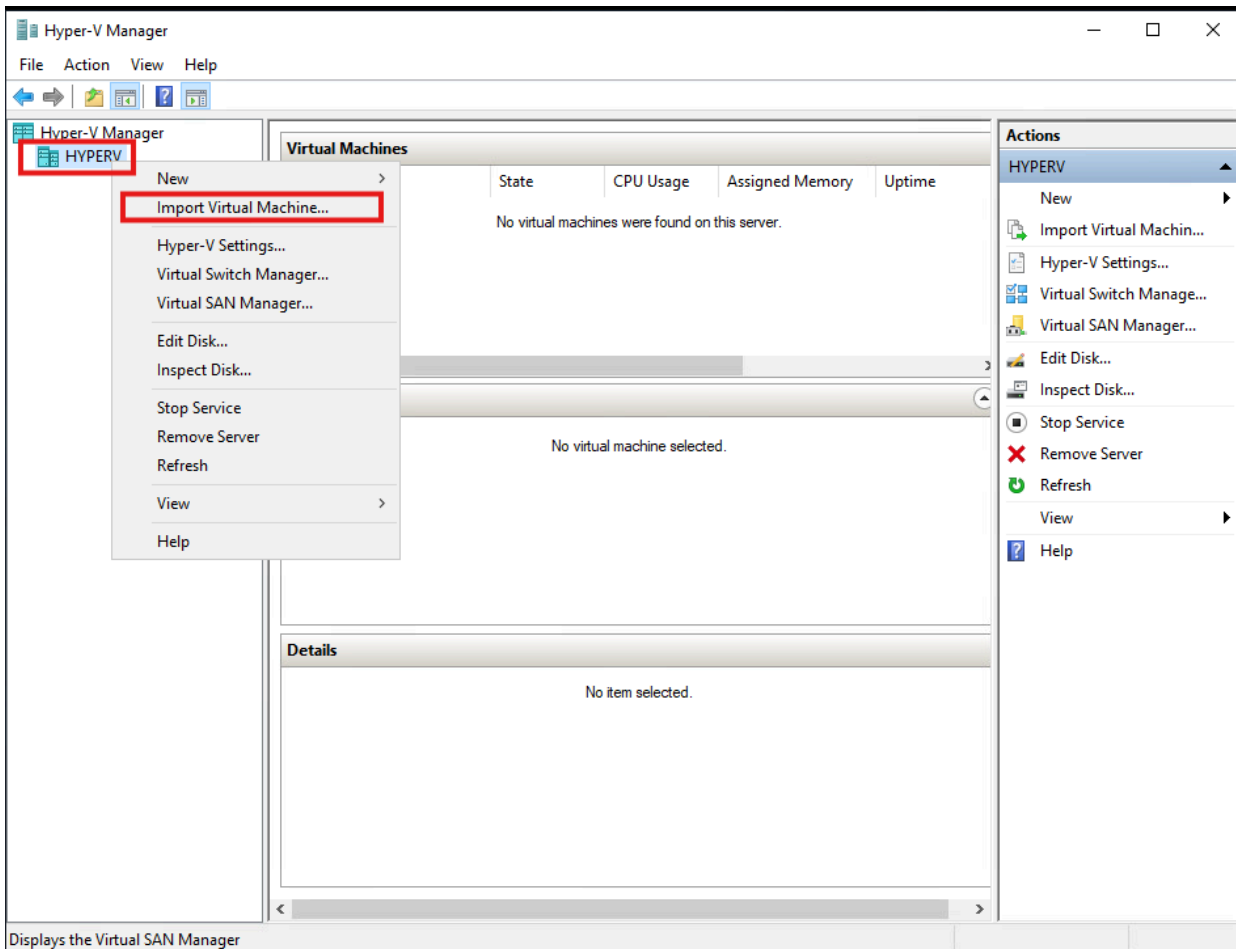


3. DEPLOYMENT TO HYPER-V ENVIRONMENT

For FastNAC installation, the VHD file must be deployed to the Hyper-V environment as shown in the images below.

3.1) Import Virtual Machine

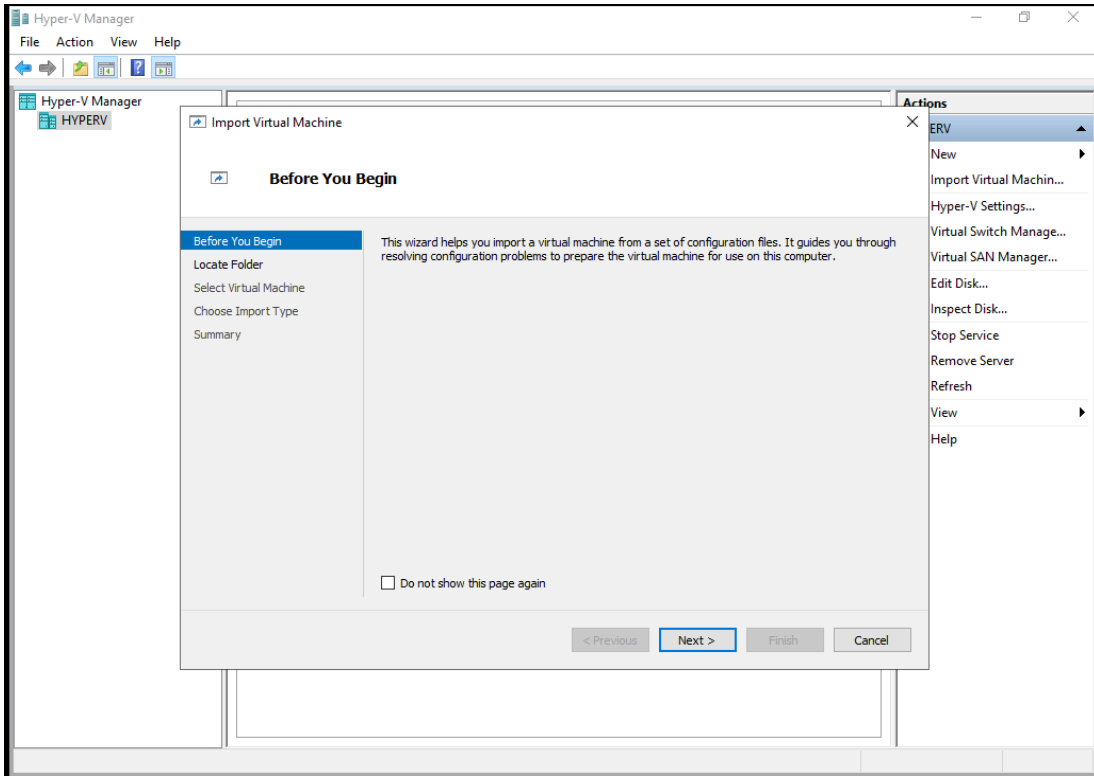
In the Hyper-V environment, right-click and select the " **Import Virtual Machine** " option;



Displays the Virtual SAN Manager

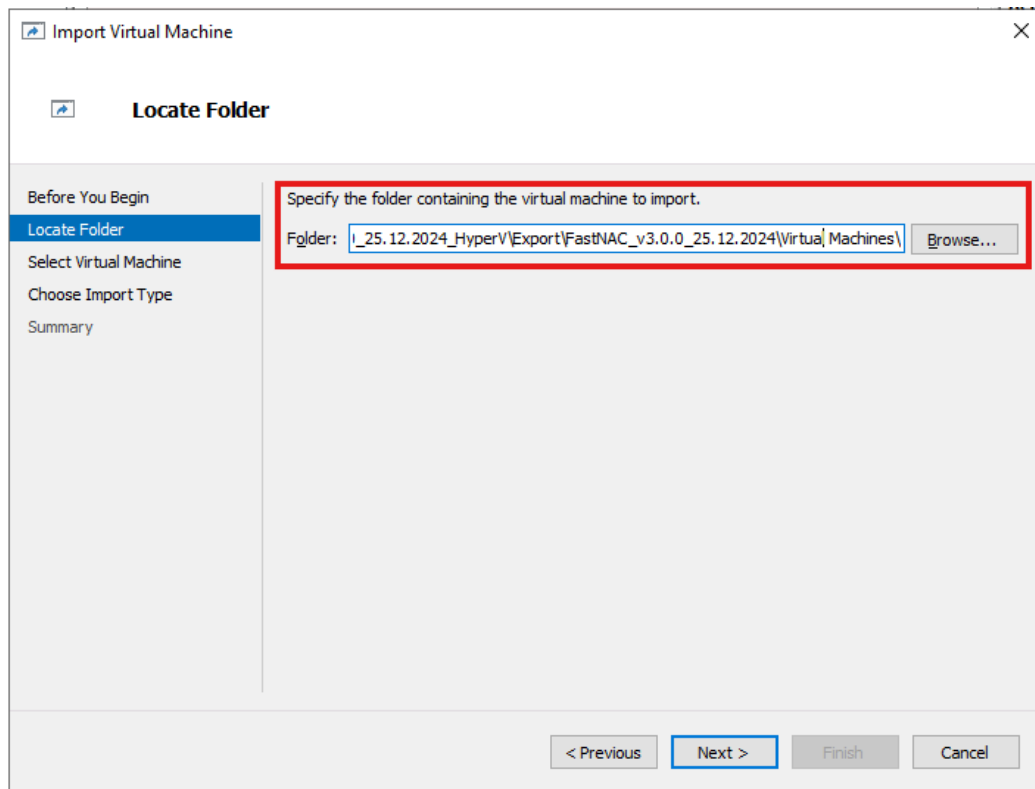
3.2) Beginning

The process begins on the first screen with the " **Next** " button;



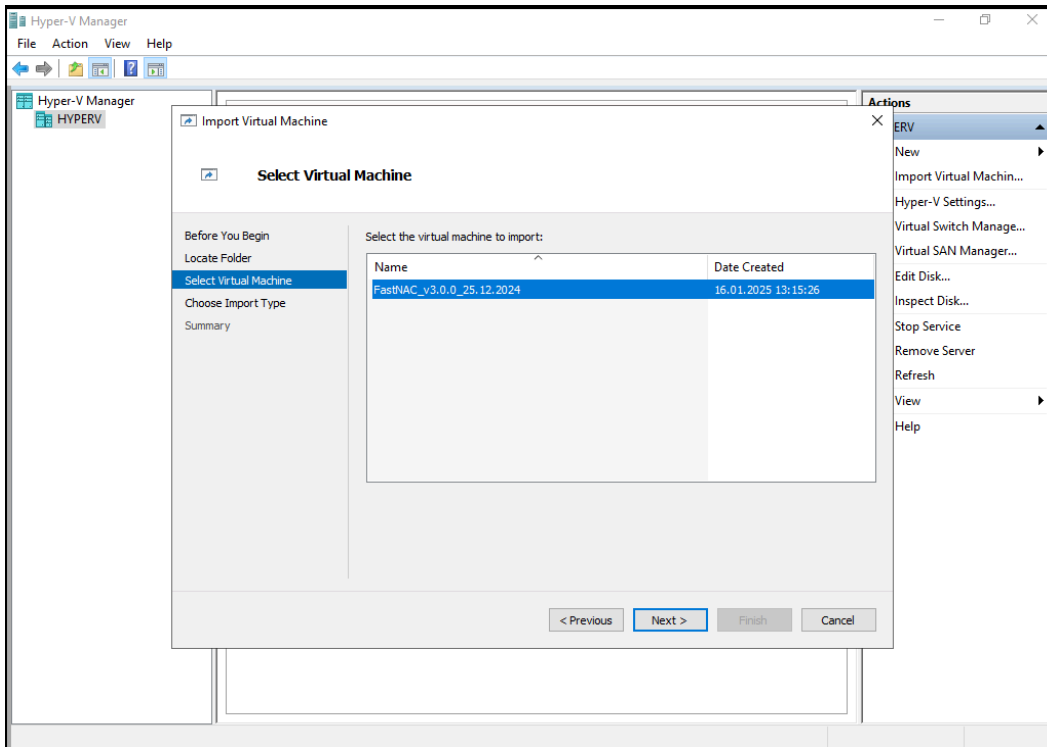
3.3) Selecting a Folder

Next " **Locate** " On the " **Folder** " screen, click the " **Browse...** " button to select the " **Virtual Machines** " folder path inside the FastNAC Hyper-V folder you downloaded , and then click the " **Next** " button to proceed;



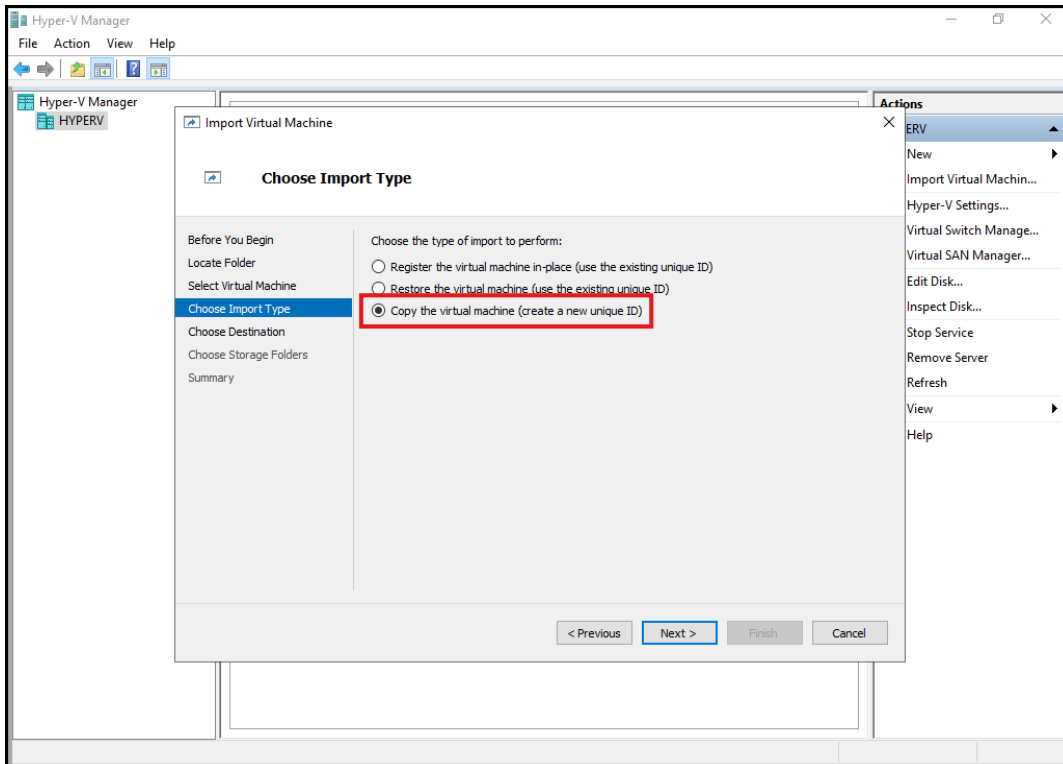
3.4) Selecting a Virtual Machine

On the next screen, you should see the FastNAC Virtual Machine. Proceed to this step by clicking the “**Next**” button;



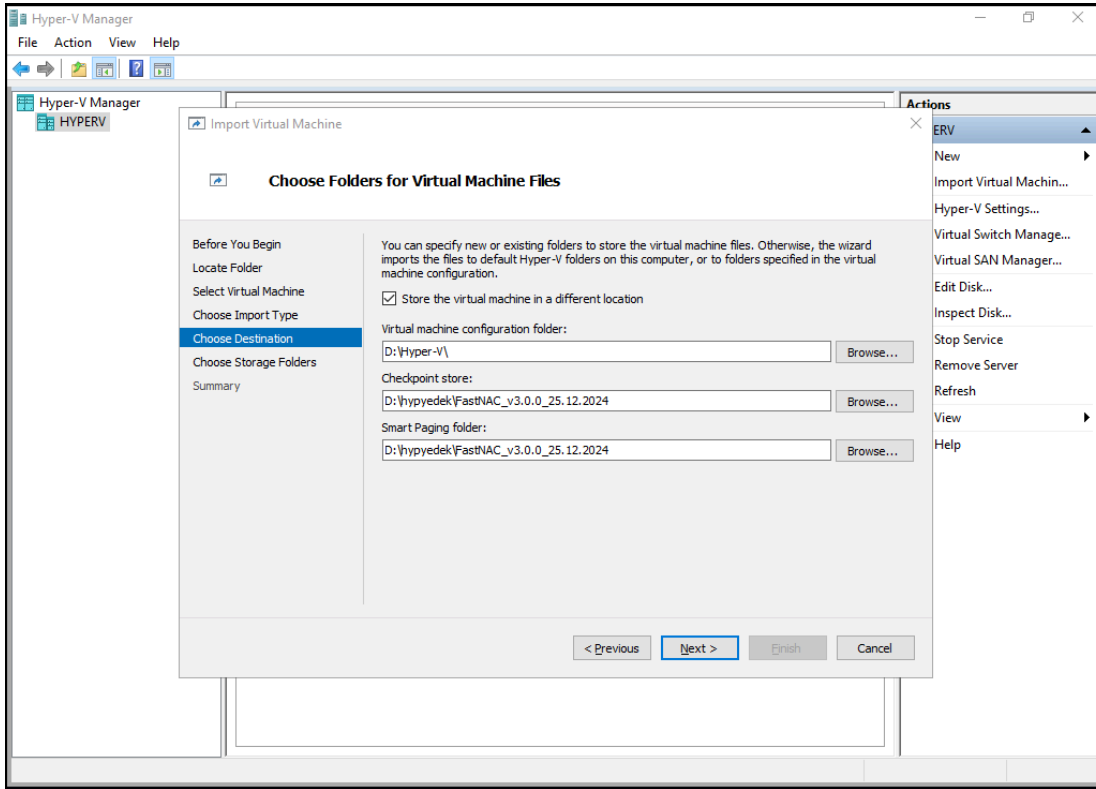
3.5) Selecting the Installation Type

On the next screen, select the “**Copy the virtual machine (create a new unique ID)**” option and click the “**Next**” button;



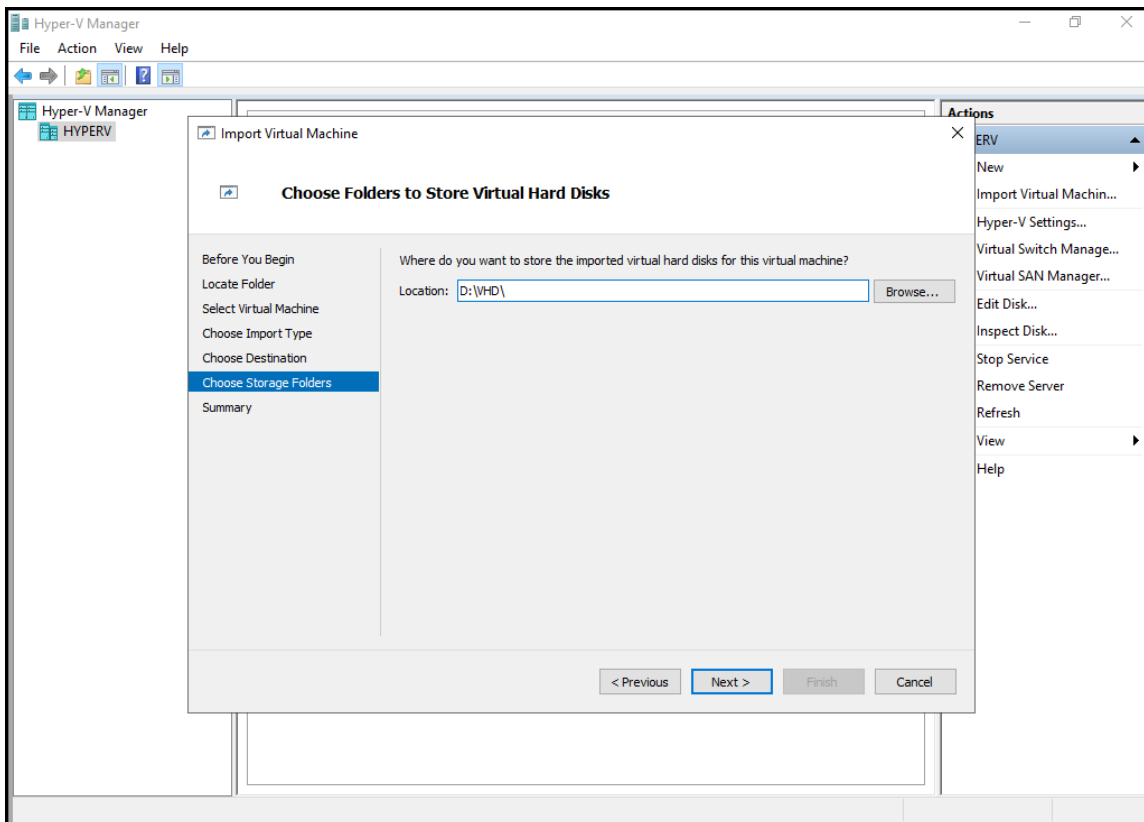
3.6) Choosing the Installation Location

If you want to install FastNAC in a different location, select the desired location by checking the “Store the virtual machine in a different location” option, and then proceed by clicking the “ **Next** ” button;



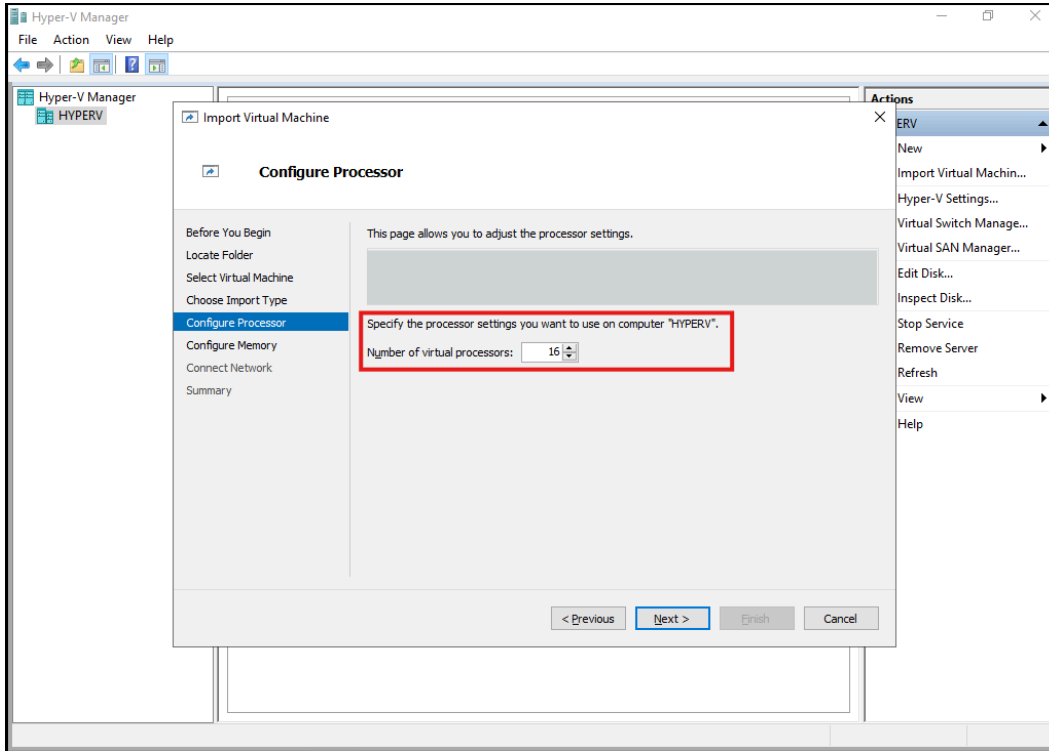
3.7) Selecting the Disk Location

Select the partition where the FastNAC files will be stored and proceed by clicking the “ **Next** ” button;



3.8) CPU Settings

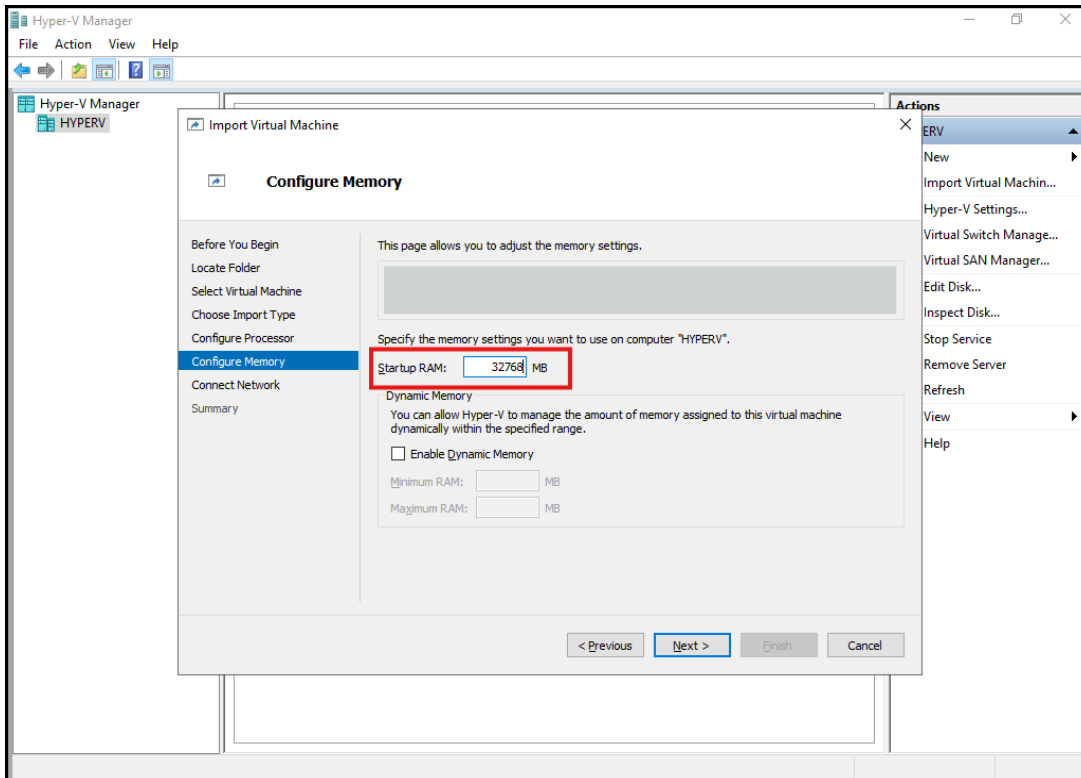
On the next screen, FastNAC's CPU settings are configured, and then you proceed by clicking the " **Next** " button;



Note: For stable operation of FastNAC, a minimum of 16-core CPU is recommended.

3.9) Memory Settings

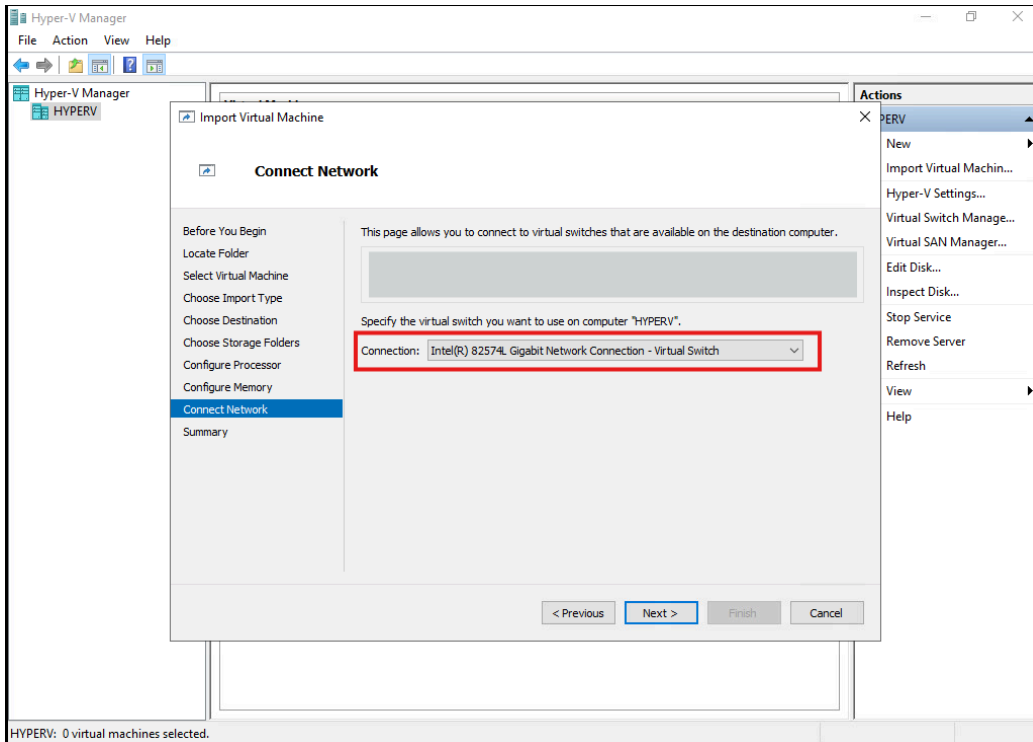
On the next screen, FastNAC's memory settings are configured, and then you proceed by clicking the " **Next** " button;



Note: For stable operation of FastNAC, it is recommended to allocate a minimum of 32 GB of memory. FastNAC has its own memory manager. Therefore, using " **Dynamic Memory** " is **not recommended**.

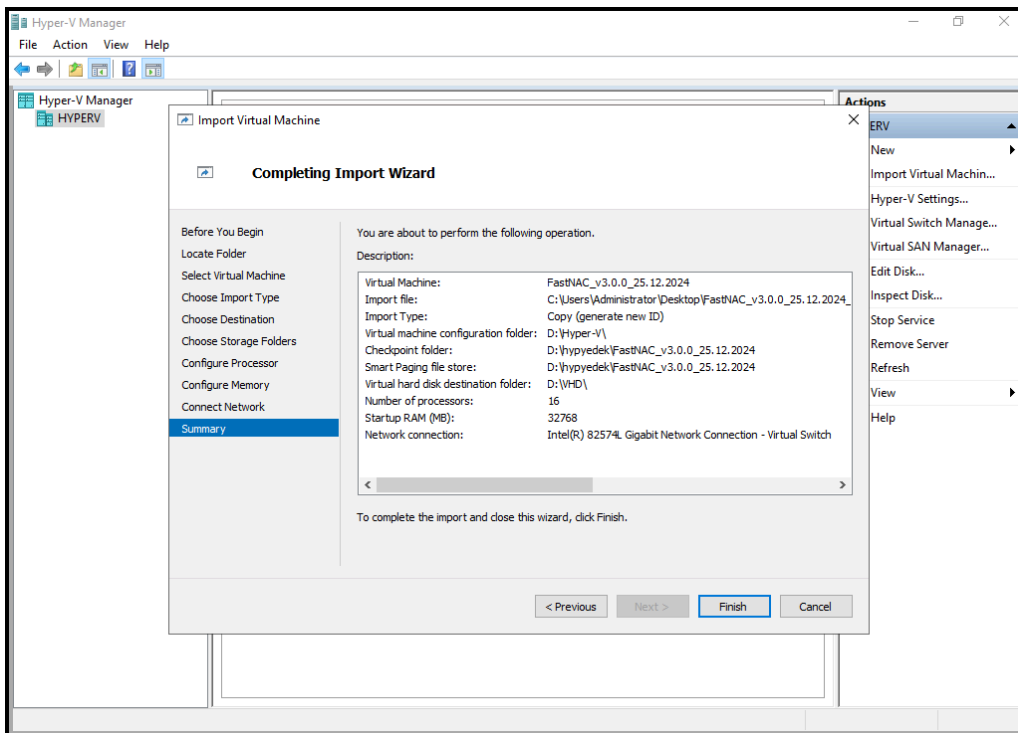
3.10) Network Settings

On the next screen, select the network card used in Hyper-V and then proceed by clicking the " **Next** " button;



3.11) Summary Information

The next screen provides a summary of the settings you've made. Clicking the " **Finish** " button here will start the deployment process.



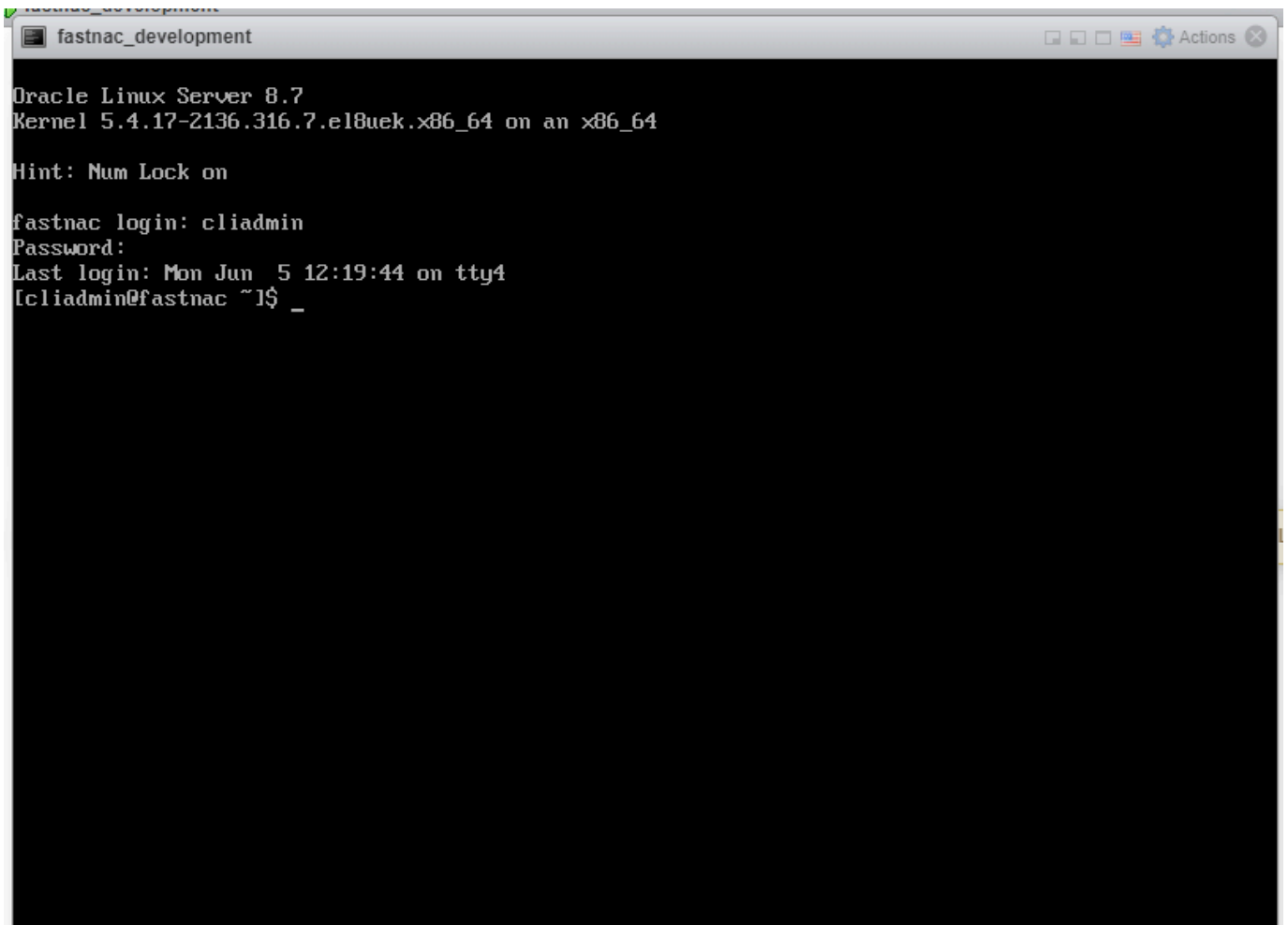
4. FASTNAC STARTUP SETTINGS

4.1) Initial Setup via CLI

the deployment process is complete , you first need to log in via the console (CLI) with the **cliadmin** user and define an IP address, gateway, DNS, and NTP server for FastNAC. The default user credentials are as follows:

Username: **cliadmin**

Password: **fastnac**



```
fastnac_development
fastnac login: cliadmin
Password:
Last login: Mon Jun  5 12:19:44 on tty4
[cliadmin@fastnac ~]$ _
```

The initial settings must be completed using the following commands in order.

```
config network ip 192.168.1.1/24
config network gateway 192.168.1.254
config network dns 192.168.1.10
config ntp 162.159.200.123
config reboot
```

Note : For a list of commands that **the cliadmin user can access and use, please refer to the document fastnac_cliadmin.docx** .

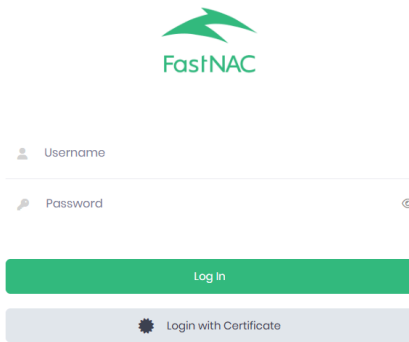
4.2) Accessing the Web Interface

After the initial settings are configured, the given IP address can be opened in a browser (e.g., **https://192.168.1.1**) The fastnac web interface is accessed. After FastNAC restarts, it takes approximately 5-10 seconds for all services to become active.

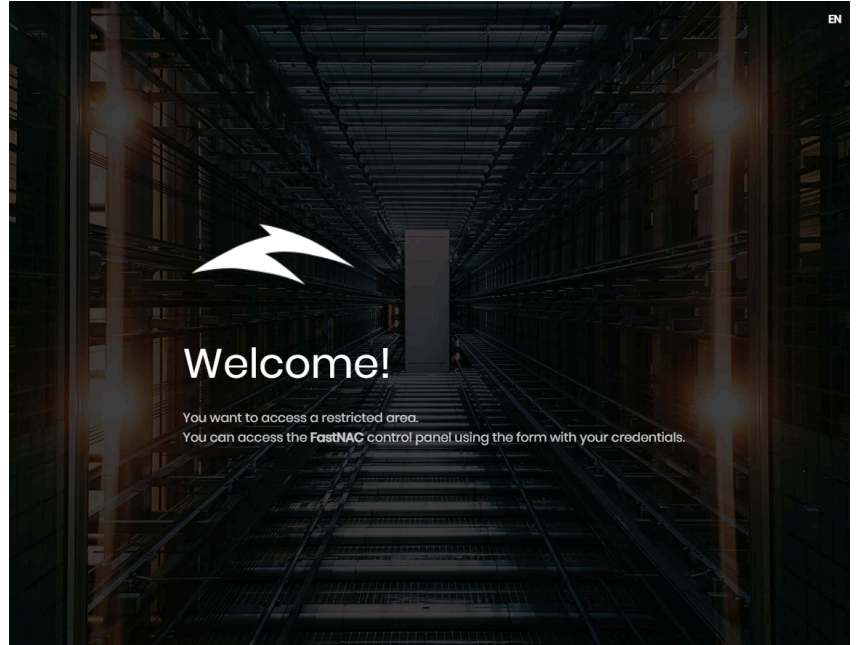
The default user login information is as follows:

Username: **admin**

Password: **rakort**



The image shows the FastNAC login interface. At the top is the FastNAC logo, which consists of a green stylized arrow pointing right above the text 'FastNAC'. Below the logo are two input fields: 'Username' with a person icon and 'Password' with a speech bubble icon and a toggle eye icon. There are two buttons: a green 'Log In' button and a grey 'Login with Certificate' button with a certificate icon. At the bottom, there is a copyright notice: 'Rakort Information Technologies © 2025 - All Rights Reserved.'



Note: The default user information will prompt you to change your password the first time you log in. You can change your password if you wish.