

Deploying Netskope SASE GW on VMware ESXi

Updated on 12 Dec 2022 • 1 Minute to read • Contributors  

How to Deploy Netskope SASE GW OVA on a ESXI host using vCenter vSphere Client

Import the OVA file to the content library in vSphere Client UI

The screenshot displays the vSphere Client interface. At the top, the navigation bar includes the VMware logo, 'vSphere Client', a 'Menu' dropdown, a search bar with the text 'Search in all environments', a refresh icon, a help icon, and the user 'Administrator@VSPHERE.LOCAL'. The main area is divided into two panes. The left pane, titled 'Content Libraries', shows a list with one item 'T1'. The right pane, also titled 'Content Libraries', features a '+ Add' button, a 'Filter' dropdown, and a table with the following data:

Name ↑	Type	Publishing Enabled	Password...	Automati...	vCen
T1	Local	No	--	No	

At the bottom of the right pane, there is an 'Export' button and a count of '1 items'. Below the main content area, there are tabs for 'Recent Tasks' and 'Alarms'. The 'Recent Tasks' tab is active, showing a table with columns: Task Name, Target, Status, Details, Initiator, Queued For, Start Time ↓, Completion Time, and Server. The 'Status' column shows 'Running'. A 'More T' link is visible at the bottom right of the table.

- T1
- Templates 2
- Other Types 0

T1

ACTIONS

- Actions - T1
- Import item
- Edit Settings...
- Edit Notes...
- Rename...
- Tags
- Delete

Summary

Types

Name	Type	Stored Lo...	Guest OS
c0e7357...mdk-diskimage	OVF Template	Yes	
f98e738...mdk-diskimage	OVF Template	Yes	

Export | 2 items

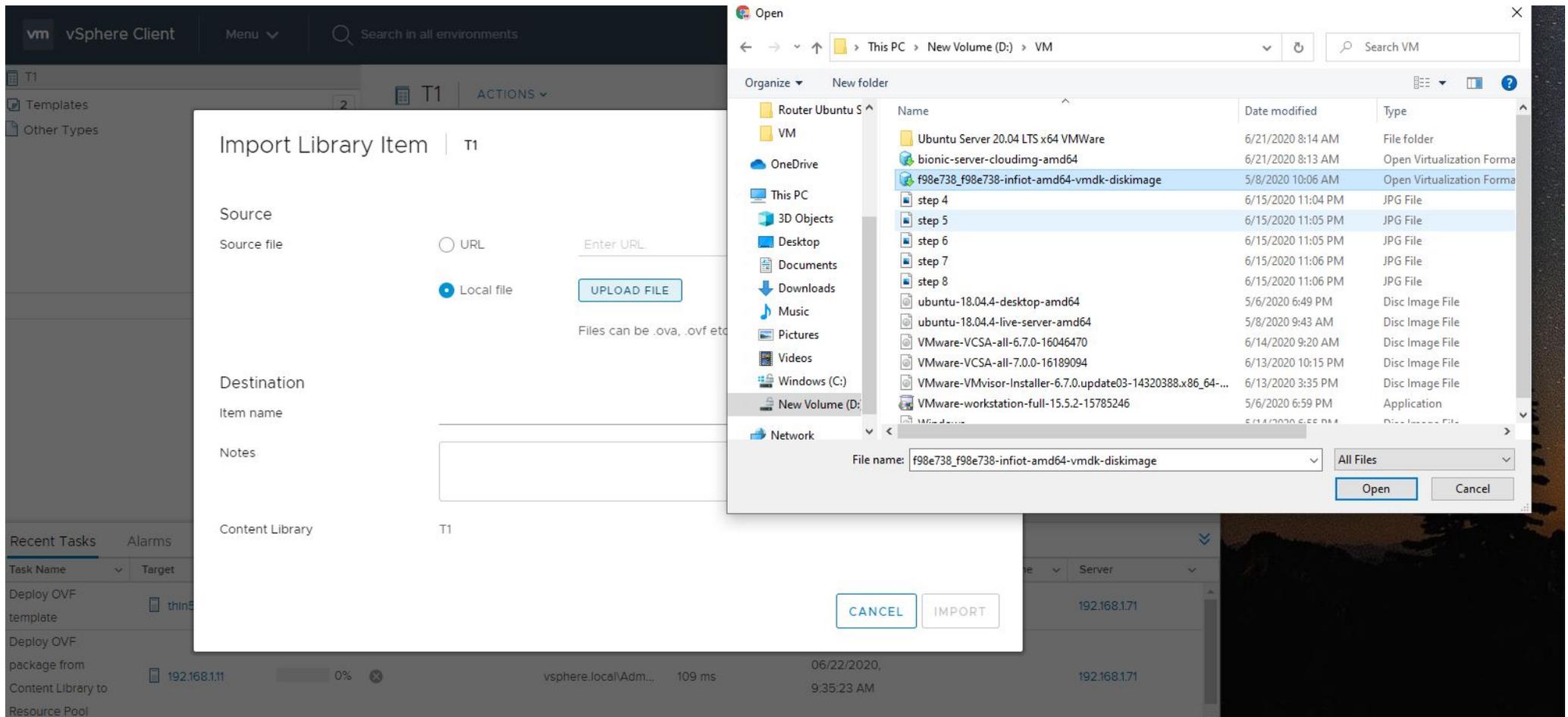
Recent Tasks

Alarms

Task Name	Target	Status	Details	Initiator	Queued For	Start Time	Completion Time	Server
Deploy OVF template	thin55	0%		VSPHERE.LOCAL\...	17 ms	06/22/2020, 9:35:37 AM		192.168.171
Deploy OVF package from Content Library to Resource Pool	192.168.1.11	0%		vsphere.local\Adm...	109 ms	06/22/2020, 9:35:23 AM		192.168.171

Running

More Tasks



Deploy the OVA using the following steps:

- Choose Create VM on the host from vCenter vsphere client
- Choose Deploy from OVF template option
- point to the OVA file in the content library
- Choose "thin provisioned virtual disk" (default is thick provisioned vdisk. Do not choose this)

- Follow through the next steps with default selections to get the OVA deployed in a new VM on Esxi host

The screenshot displays the vSphere Client interface. The top navigation bar includes the 'vm vSphere Client' logo, a refresh icon, a help icon, and the user 'Administrator@VSPHERE.LOCAL'. The left sidebar shows a tree view with the host '192.168.1.11' selected, containing sub-items 'thin12', 'vcentercl-hub-thin', and 'vcsa'. The main pane shows the 'ACTIONS' menu for the selected host, with options such as 'New Virtual Machine...', 'Deploy OVF Template...', 'New Resource Pool...', 'New vApp...', 'Maintenance Mode', 'Connection', 'Power', 'Certificates', 'Storage', 'Add Networking...', 'Host Profiles', 'Export System Logs...', 'Reconfigure for vSphere HA', and 'Assign License...'. Below the actions menu, there are sections for 'Recent Tasks' and 'Alarms'. The 'Recent Tasks' table is currently empty, with columns for 'Task Name', 'Target', 'Initiator', 'Queued For', 'Start Time', 'Completion Time', and 'Server'. The 'Alarms' section shows a 'Running' status. The bottom right corner of the main pane has a 'More Ta...' link.

vm vSphere Client Menu Search in all environments Administrator@VSPHERE.LOCAL

Deploy From Template

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

Select a creation type
How would you like to create a virtual machine?

- Create a new virtual machine
- Deploy from template**
- Clone an existing virtual machine
- Clone virtual machine to template
- Clone template to template
- Convert template to virtual machine

This option guides you through the process of creating a virtual machine from a template. A template is a golden image of a virtual machine that lets you easily create ready-for-use virtual machines. You must have a template to proceed with this option.

CANCEL BACK **NEXT**

Recent Tasks Alarms

Task Name	Target
Running	

Networks Updates

Filter

Shar... Memory...

No items to display

Server

More Tasks

vm vSphere Client

Menu Search in all environments Administrator@VSPHERE.LOCAL

Deploy From Template

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

Select a template

Content Library Data Center

Template Name	Library Name
f98e738_f98e738-infiot-amd64-vmrk-diskl...	T1
c0e7357_c0e7357-infiot-amd64-vmrk-dlisk...	T1

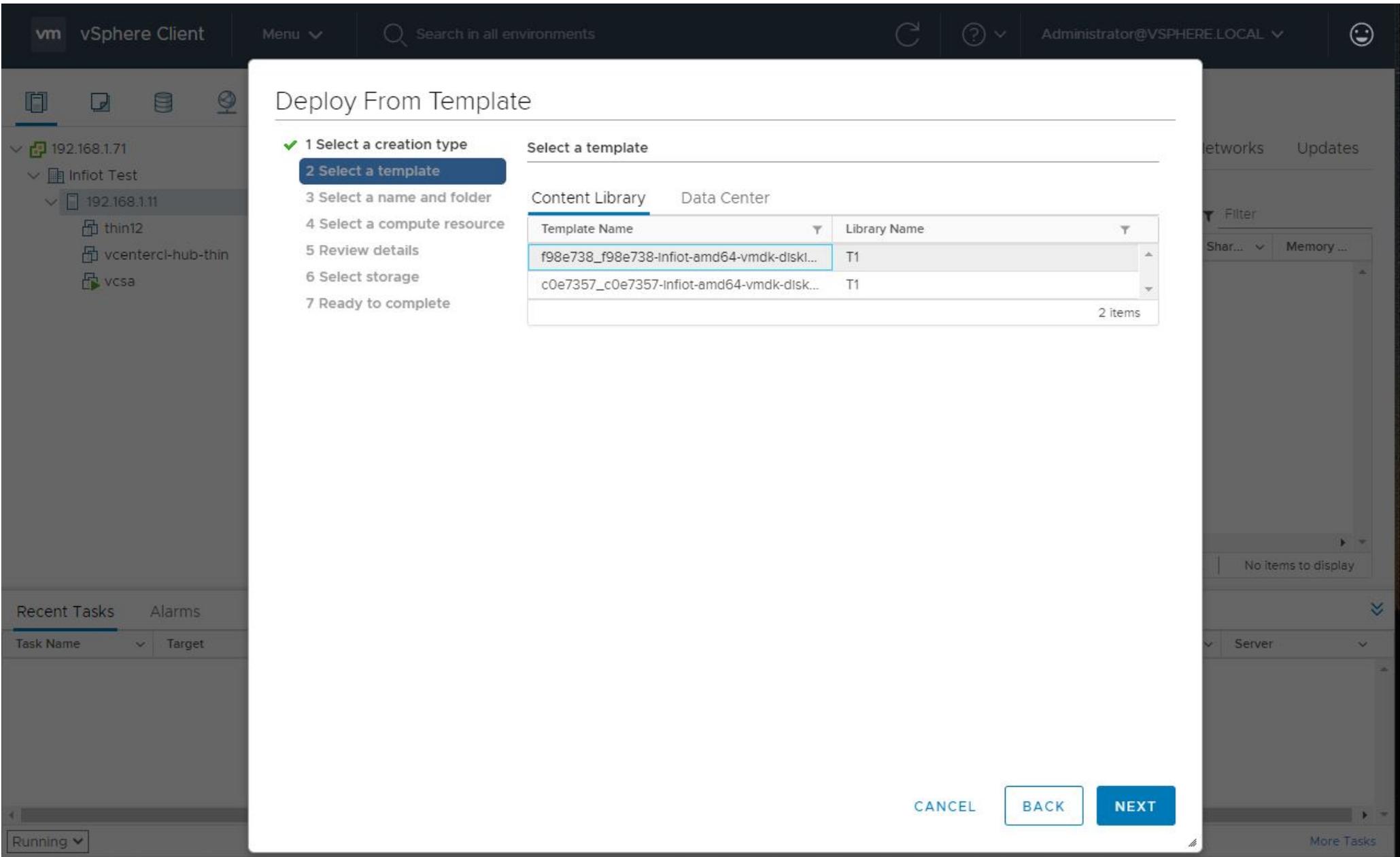
2 items

CANCEL BACK NEXT

Recent Tasks Alarms

Task Name	Target
-----------	--------

Running



- 192.168.1.71
 - Infiot Test
 - 192.168.1.11
 - thin12
 - vcentercl-hub-thin
 - vcsa

Task Name	Target

f98e738_f98e738-infiot-amd64-vm-diskimage - Deploy From Te...

- ✓ 1 Select a creation type
- ✓ 2 Select a template
- 3 Select a name and folder**
- 4 Select a compute resource
- 5 Review details
- 6 Select storage
- 7 Ready to complete

Select a name and folder

Specify a unique name and target location

Virtual machine name: infiot-onprem-hub3

Select a location for the virtual machine.

- 192.168.1.71
 - Infiot Test

Customize the operating system

CANCEL

BACK

NEXT

vm vSphere Client Menu Search in all environments Administrator@VSPHERE.LOCAL

f98e738_f98e738-infiot-amd64-vmdk-diskimage - Deploy From Te...

- ✓ 1 Select a creation type
- ✓ 2 Select a template
- ✓ 3 Select a name and folder
- 4 Select a compute resource**
- 5 Review details
- 6 Select storage
- 7 Ready to complete

Select a compute resource
Select the destination compute resource for this operation

- ✓ Infiot Test
 - > 192.168.1.11

Compatibility

✓ Compatibility checks succeeded.

CANCEL BACK NEXT

Recent Tasks Alarms

Task Name	Target
Running	

Networks Updates

Filter

Shar... Memory ...

No items to display

Server

More Tasks

vm vSphere Client Menu Search in all environments Administrator@VSPHERE.LOCAL

f98e738_f98e738-infiot-amd64-vmdk-diskimage - Deploy From Te...

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

Review details
Verify the template details.

⚠ 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	Unknown
Size on disk	2.2 GB (thin provisioned)
	21.0 GB (thick provisioned)
Extra configuration	virtualHW.productCompatibility = hosted nvram = amd64rootfs_scsi.nvram

CANCEL BACK **NEXT**

Recent Tasks Alarms

Task Name	Target
Deploy OVF package from Content Library to Resource Pool	192.168.1.71

Running

Networks Updates

Filter

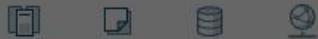
Shar... Memory ...

No items to display

Server

192.168.1.71

More Tasks



- 192.168.1.71
- Infiot Test
 - 192.168.1.11
 - thin12
 - vcentercl-hub-thin
 - vcsa

Recent Tasks Alarms

Task Name Target

Running

f98e738_f98e738-infiot-amd64-vm-diskimage - Deploy From Te...

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

Select storage

Select the storage for the configuration and disk files

Encrypt this virtual machine (Requires Key Management Server)

Select virtual disk format:

Thin Provision

VM Storage Policy:

Datastore Default

Name	Capacity	Provisioned	Free	Type
datastore1	923.5 GB	368.45 GB	878 GB	VM

Compatibility

✓ Compatibility checks succeeded.

CANCEL

BACK

NEXT



- 192.168.1.71
- Infiot Test
 - 192.168.1.11
 - thin12
 - vcentercl-hub-thin
 - vcsa

Recent Tasks Alarms

Task Name Target

Running

f98e738_f98e738-infiot-amd64-vmdk-diskimage - Deploy From Te...

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

Select networks

Select a destination network for each source network.

Source Network	Destination Network
GE1	VM Network
GE3	VM Network
GE2	VM Network
GE4	VM Network

4 items

IP Allocation Settings

IP allocation: Static - Manual

IP protocol: IPv4

CANCEL

BACK

NEXT

networks Updates

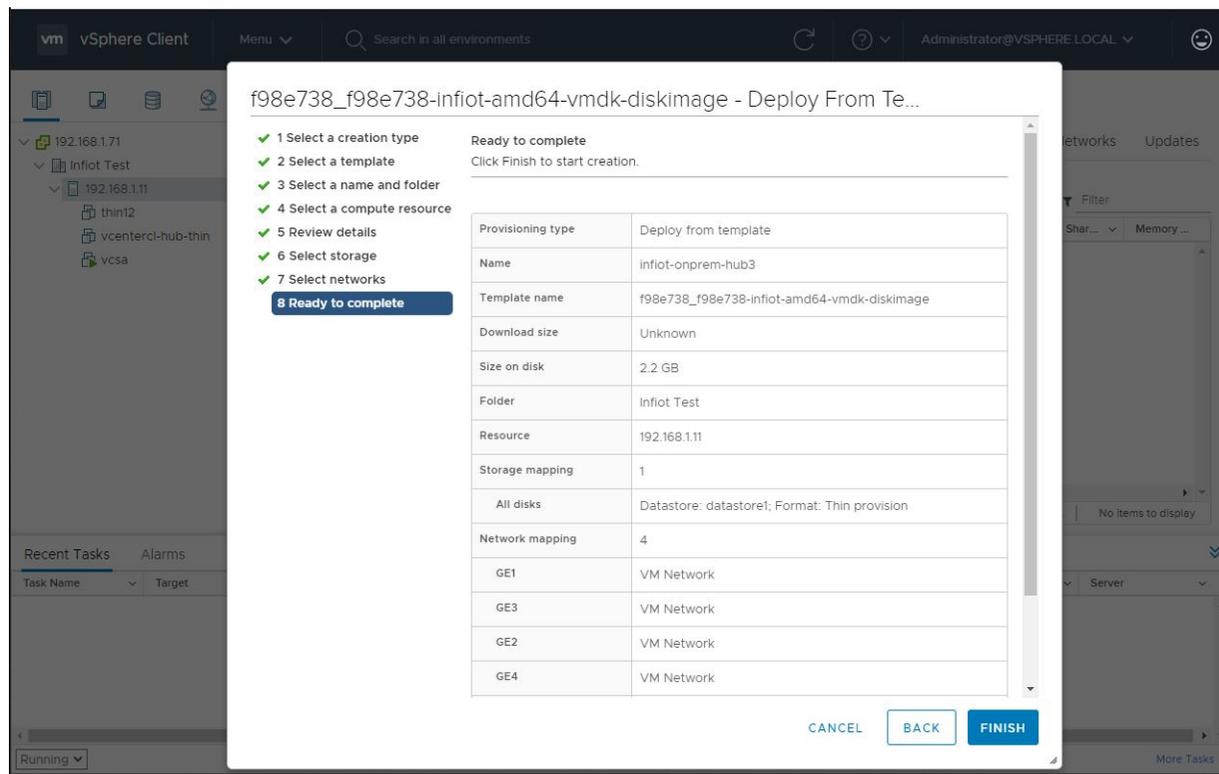
Filter

Shar... Memory ...

No items to display

Server

More Tasks



Change the IP on WAN interface to static

- Login to the VM console from vCenter / ESXi UI (default username: infiot, default password infiot)
- Become a super user (command: `sudo su`, password: infiot)
- By Default the VM will be provisioned with DHCP on GE1 (`enp2s0`) interface.
- Change the static ip using `inhostd cli`
 - `sudo su` (password: infiot)
 - `inhostd configure interface -name GE1 -ipv4 192.168.0.118 -netmask 255.255.255.0 -dns-server 8.8.8.8 -default-gateway 192.168.0.1`
- Check the internet connection via the wan interface by pinging any host on the internet.
- Now you can ssh into the VM using the static ip configured on the WAN interface (GE1)

- Upgrade the image to latest R1.4.x using CLI to fetch the docker images
 - **infhostd upgrade -displayname R1.4.187**
 - **reboot**

Gateway Activation

- Create the Gateway configuration on the SASE Orchestrator and activate to generate the activation link
- To complete the activation using the browser (Gateway IP should be accessible from the local machine). Copy the link address from the email and change the IP address to the GE1 IP of the gateway

http://192.168.0.118/activate?activation_uri=https://tid-60c6bdd6e4e3710ce35813ae.stage0.infiot.net&auth_token=WzEsIjYzMTk2ZmQyZmE1NmVhYjdkNzc5ZTQ4NilSli8rd1I0N0xGR200PSJd (http://192.168.50.1/activate?activation_uri=https://tid-60c6bdd6e4e3710ce35813ae.stage0.infiot.net&auth_token=WzEsIjYzMTk2ZmQyZmE1NmVhYjdkNzc5ZTQ4NilSli8rd1I0N0xGR200PSJd).

OR

- To activate from the console use the following CLI

```
infhostd activate -token <auth_token from the link> -uri <activation_uri>
```

```
infhostd activate -token WzEsIjYzMTk2ZmQyZmE1NmVhYjdkNzc5ZTQ4NilSli8rd1I0N0xGR200PSJd (http://192.168.50.1/activate?activation_uri=https://tid-60c6bdd6e4e3710ce35813ae.stage0.infiot.net&auth_token=WzEsIjYzMTk2ZmQyZmE1NmVhYjdkNzc5ZTQ4NilSli8rd1I0N0xGR200PSJd) -uri https://tid-60c6bdd6e4e3710ce35813ae.stage0.infiot.net (http://192.168.50.1/activate?activation_uri=https://tid-60c6bdd6e4e3710ce35813ae.stage0.infiot.net&auth_token=WzEsIjYzMTk2ZmQyZmE1NmVhYjdkNzc5ZTQ4NilSli8rd1I0N0xGR200PSJd).
```

- After activation the Gateway status on the Orchestrator will change from "Pending" to "Warning" state.

- Initiate the upgrade to the desired 1.4.x release from the Orchestrator. Gateway status will change to "Online" after successful upgrade.
- Upgrade status can be monitored from Monitor--> Events

Previous

[Deploying Netskope SASE GW on Azure](#)

Next

[Deploying Netskope SASE GW with KVM on Bare metal server](#)