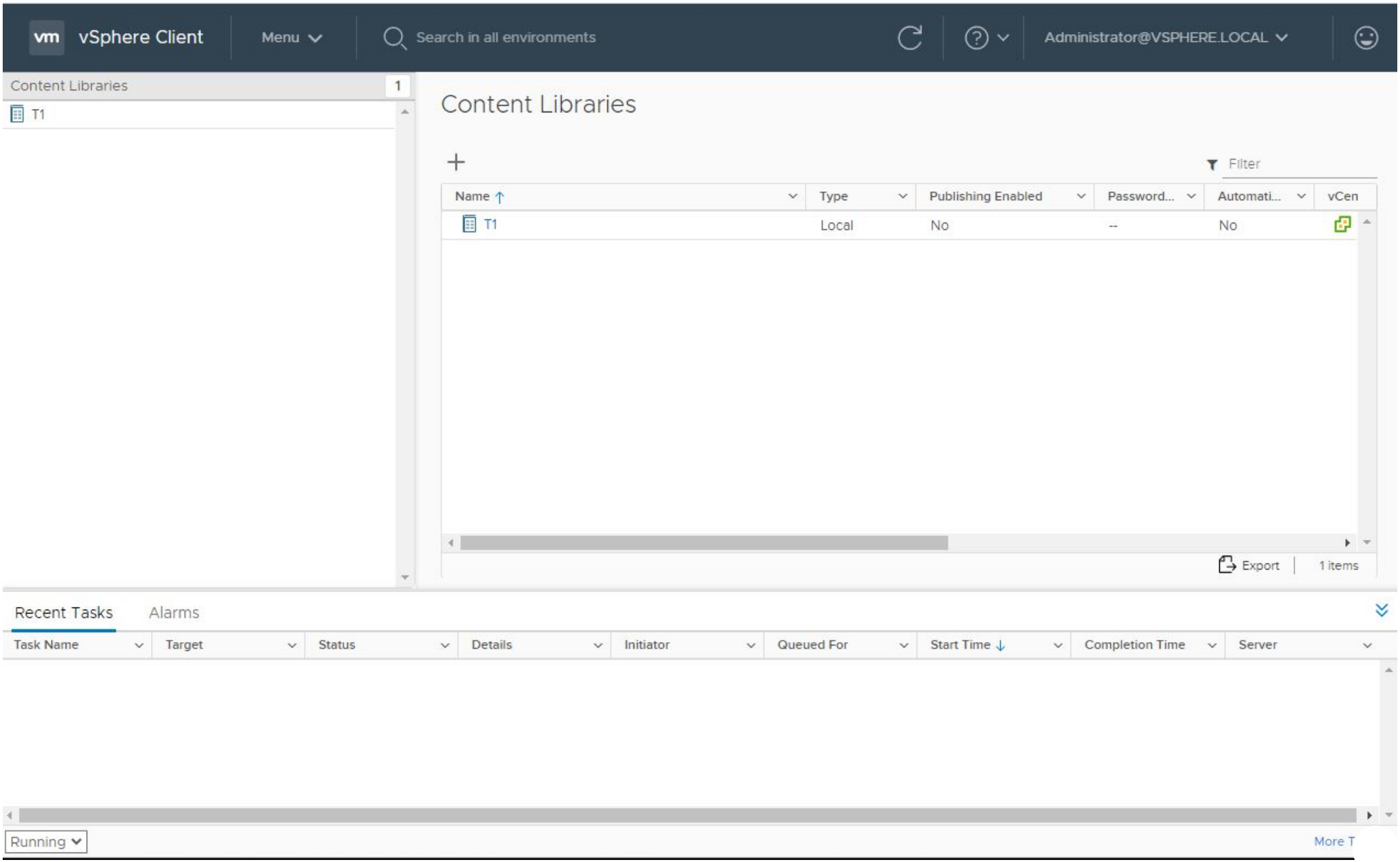
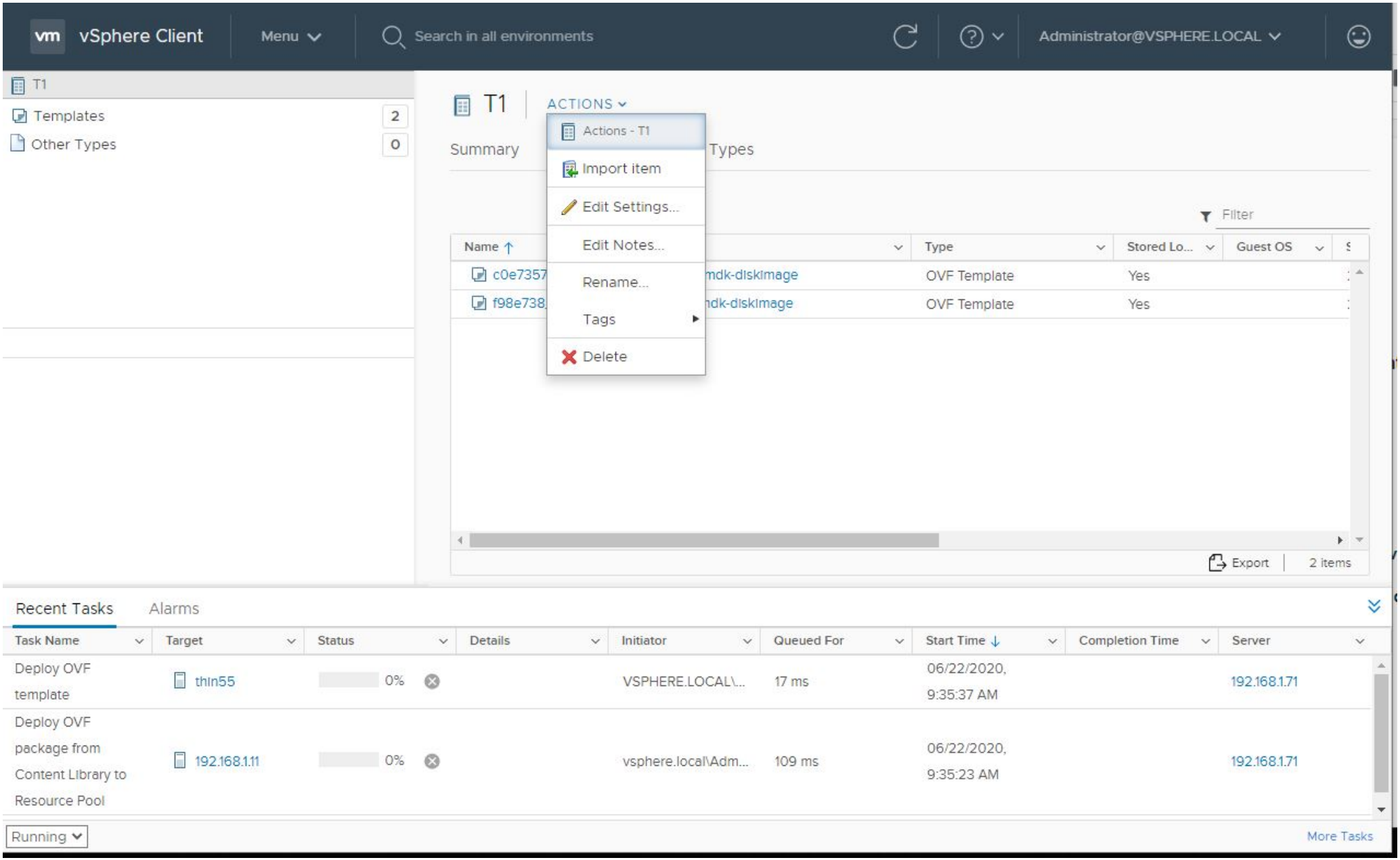
Deploying Netskope SASE GW on VMware ESXi

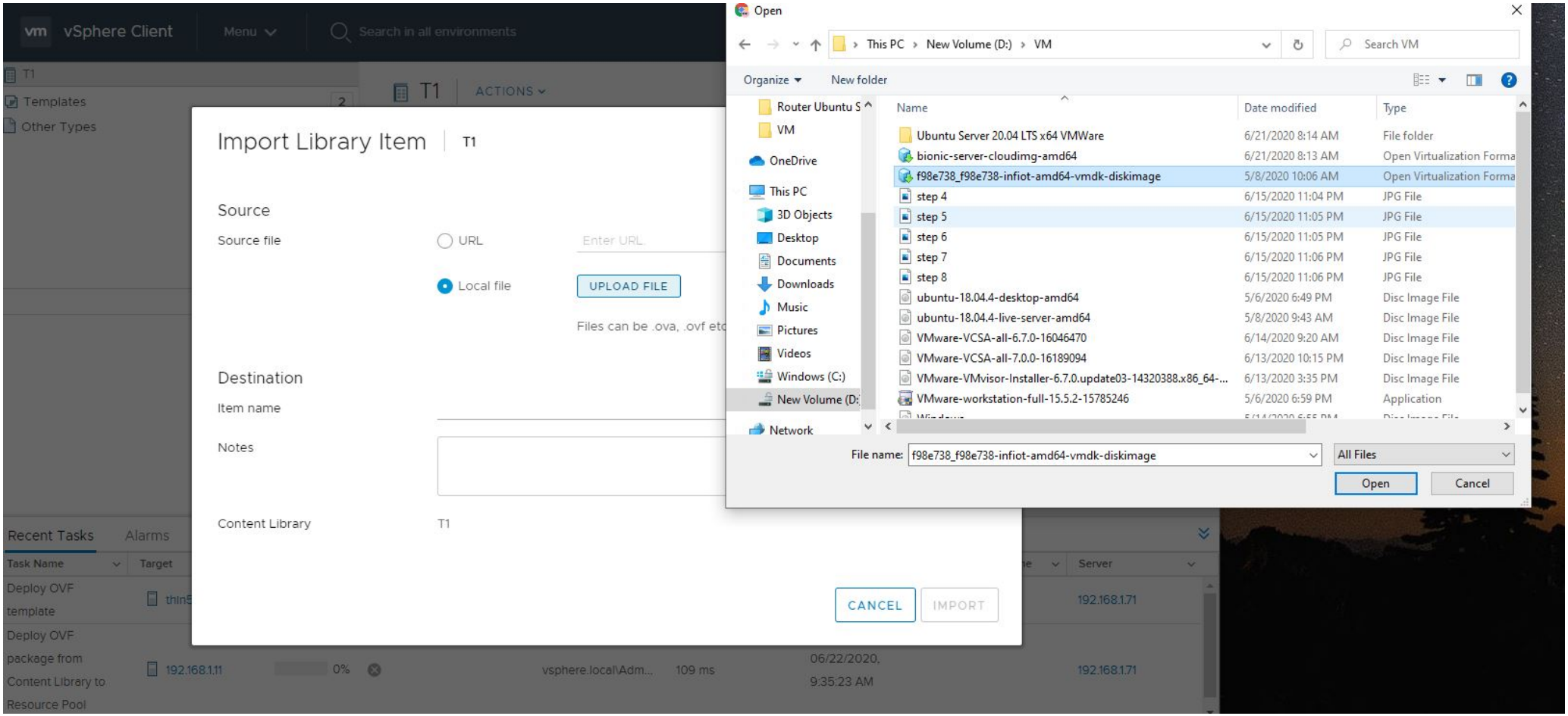
Updated on 12 Dec 2022 • 1 Minute to read • Contributors

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



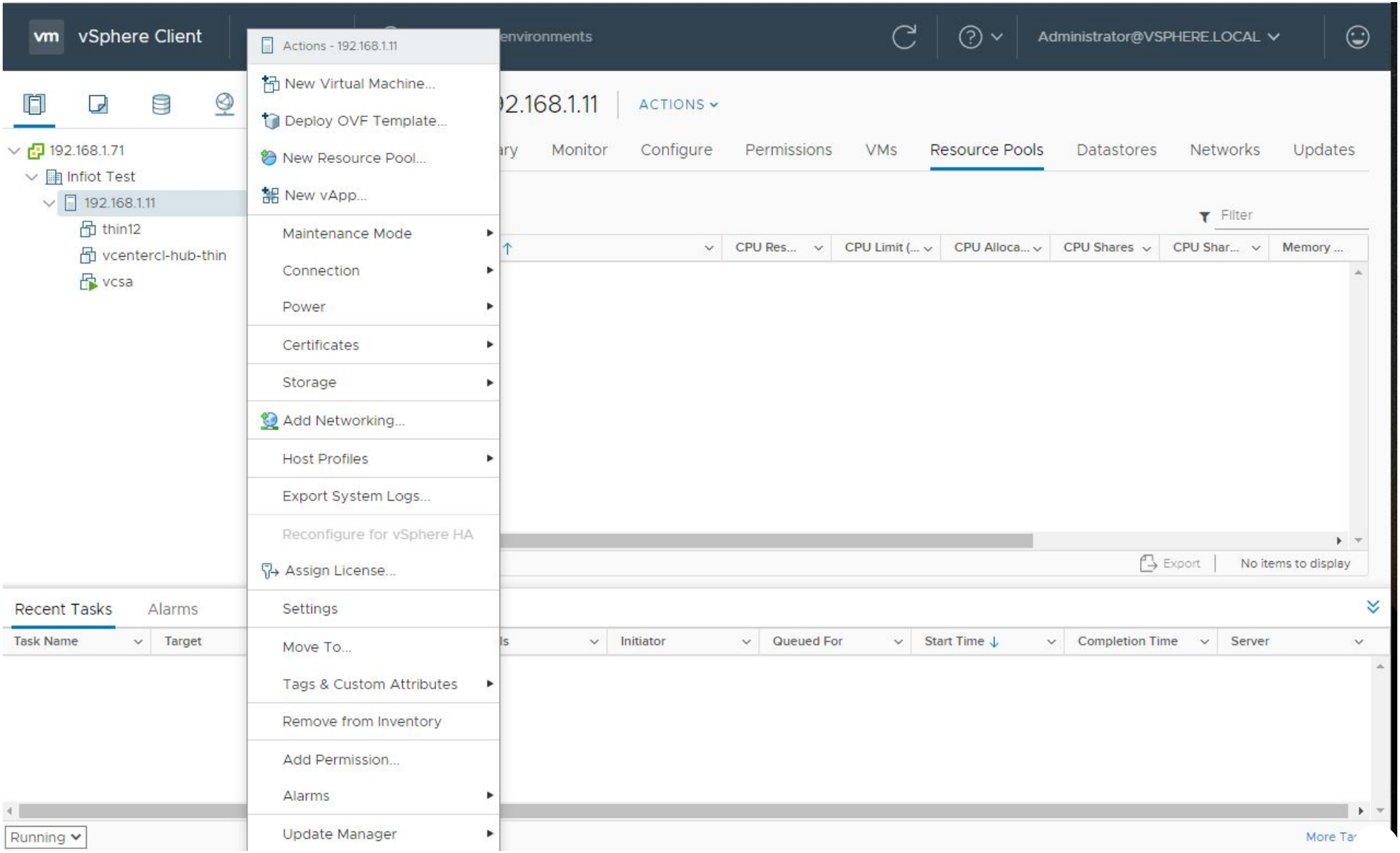

vSphere Client
Menu
Search in all environments
Administrator@VSPHERE.LOCAL
T1
Templates 2
Other Types 0
T1
ACTIONS
Summary
Types
Actions - T1
Import item
Edit Settings...
Edit Notes...
Rename...
Tags
Delete
Filter
Name
Type
Stored Lo...
Guest OS
c0e7357
mdk-diskImage
OVF Template
Yes
f98e738
ndk-diskImage
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
192.168.1.71
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
192.168.1.71
Running
More Tasks

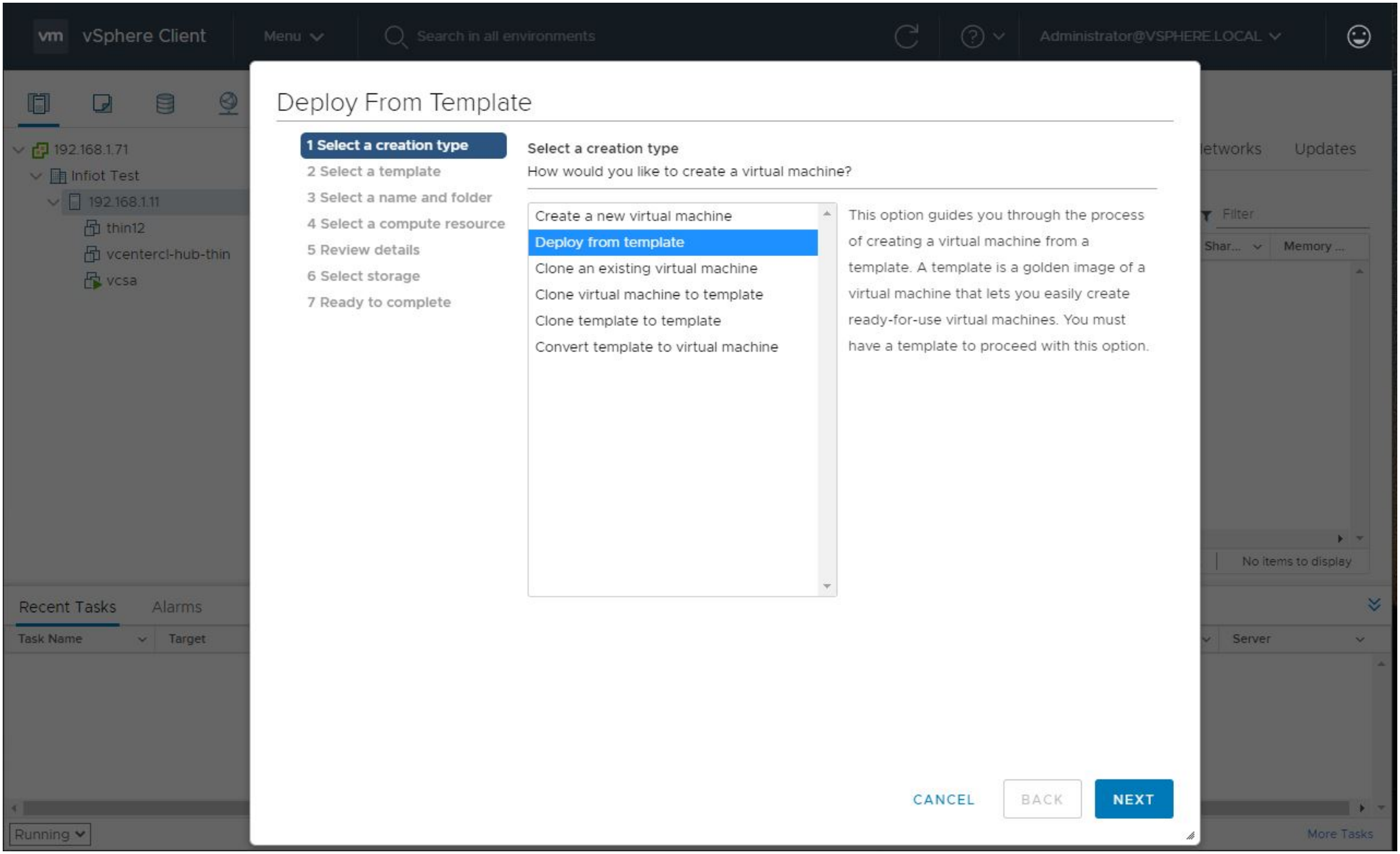


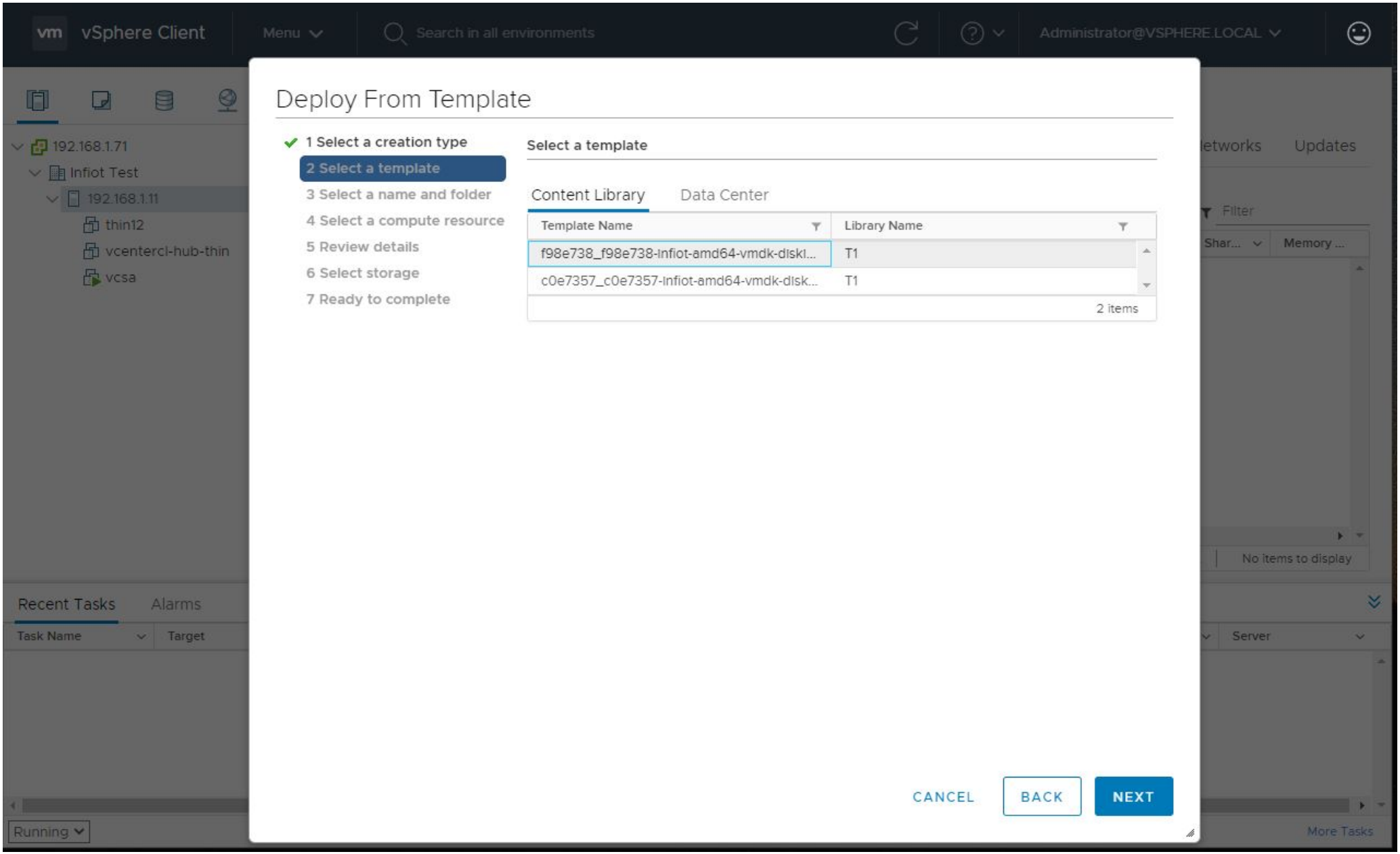
Deploy the OVA using the following steps:

- 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




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
192.168.1.71
Infiot Test
192.168.1.11
thin12
vcenterci-hub-thin
vcsa
Networks
Updates
Filter
Memory ...
No items to display
Recent Tasks
Alarms
Task Name
Target
Server
Running
More Tasks


vSphere Client
Menu
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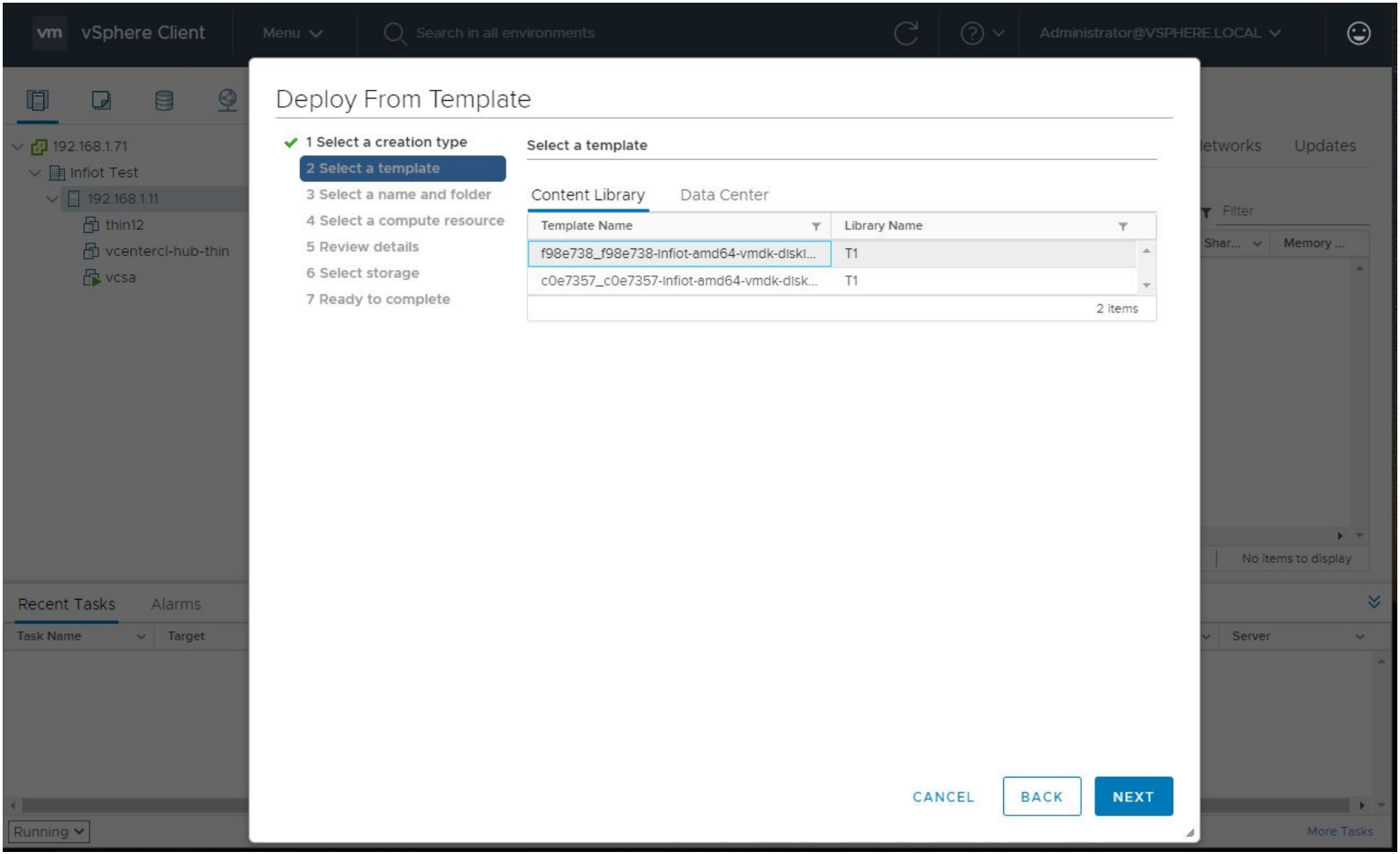
Administrator@VSPHERE.LOCAL
Deploy From Template
1 Select a creation type
2 Select a template
3 Select a name and folder
4 Select a compute resource
5 Review details
6 Select storage
7 Ready to complete
Select a template
Content Library
Data Center
Template Name
Library Name
f98e738_f98e738-Infiot-amd64-vmdk-diskl...
T1
c0e7357_c0e7357-Infiot-amd64-vmdk-disk...
T1
2 items
CANCEL
BACK
NEXT
192.168.1.71
Infiot Test
192.168.1.11
thin12
vcenterci-hub-thin
vcsa
Networks
Updates
Filter
Memory ...
No items to display
Recent Tasks
Alarms
Task Name
Target
Server
Running
More Tasks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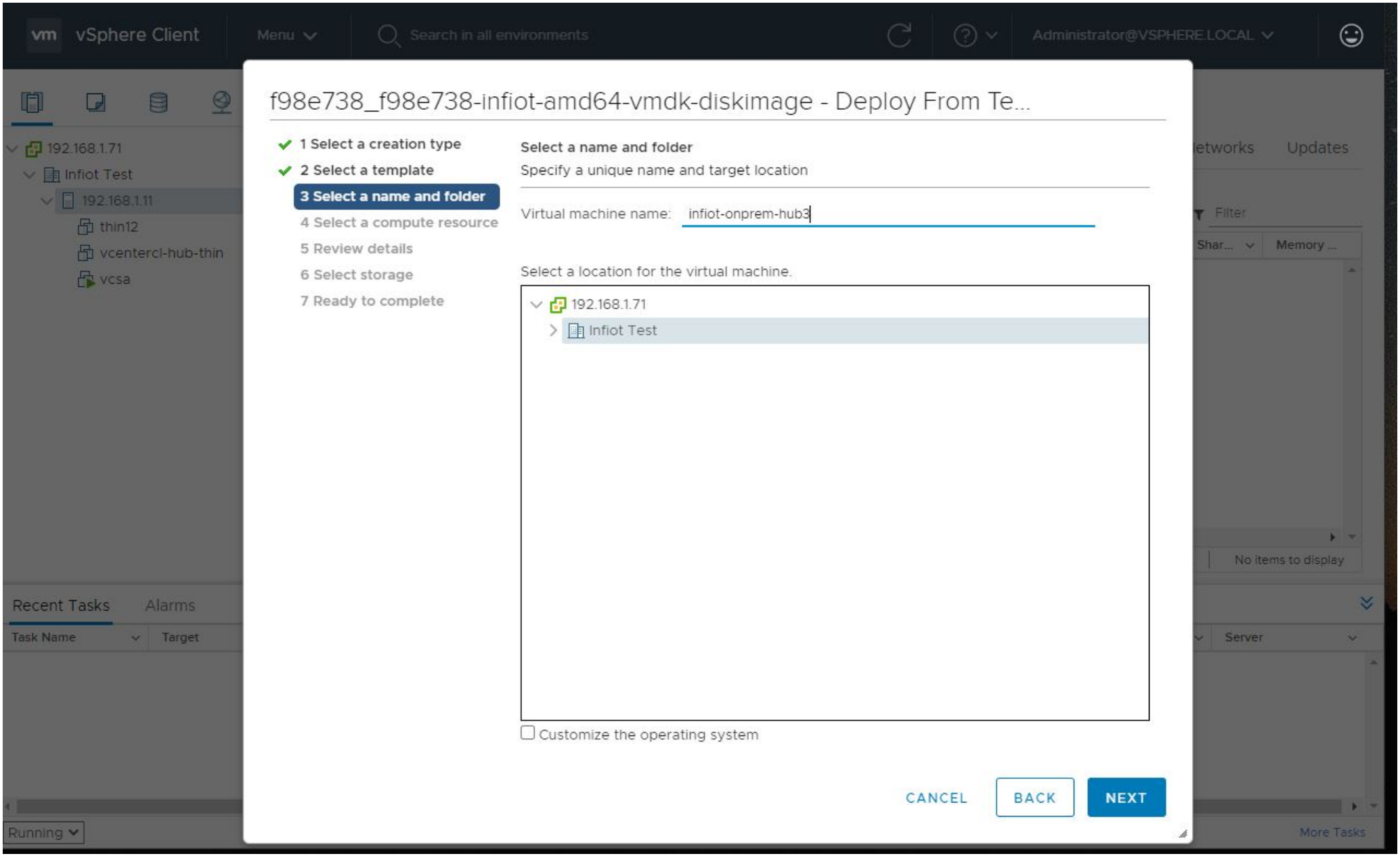
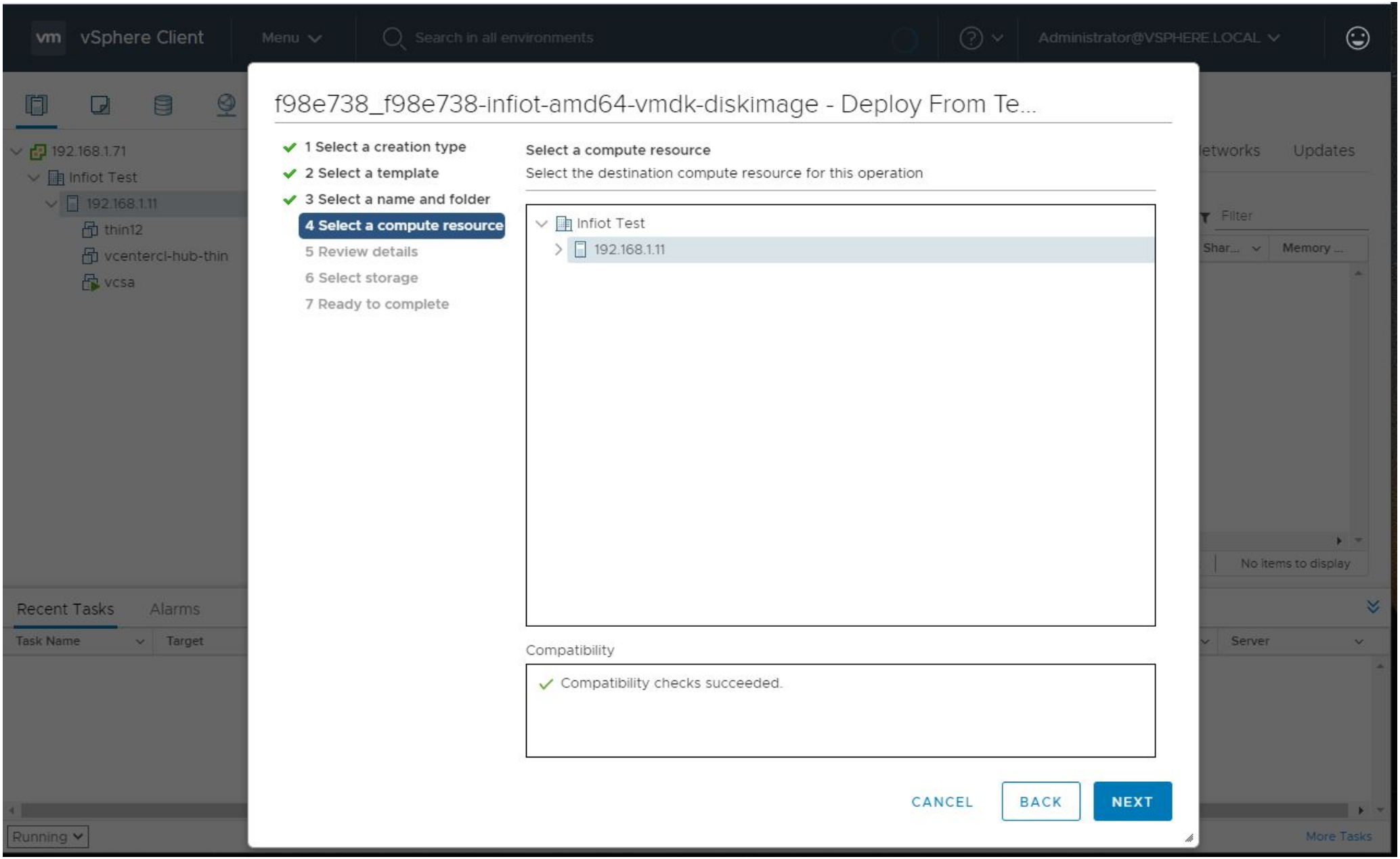
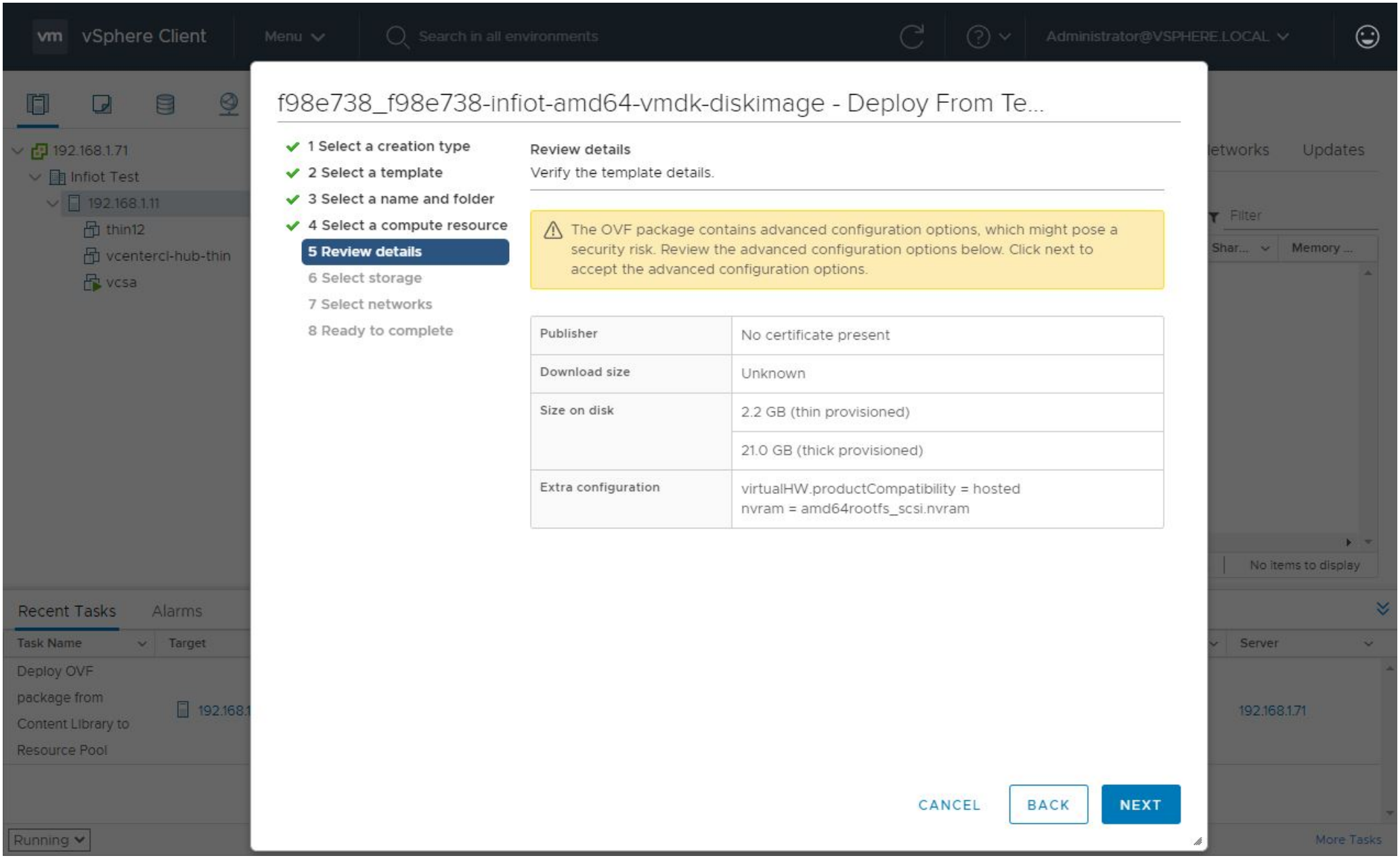
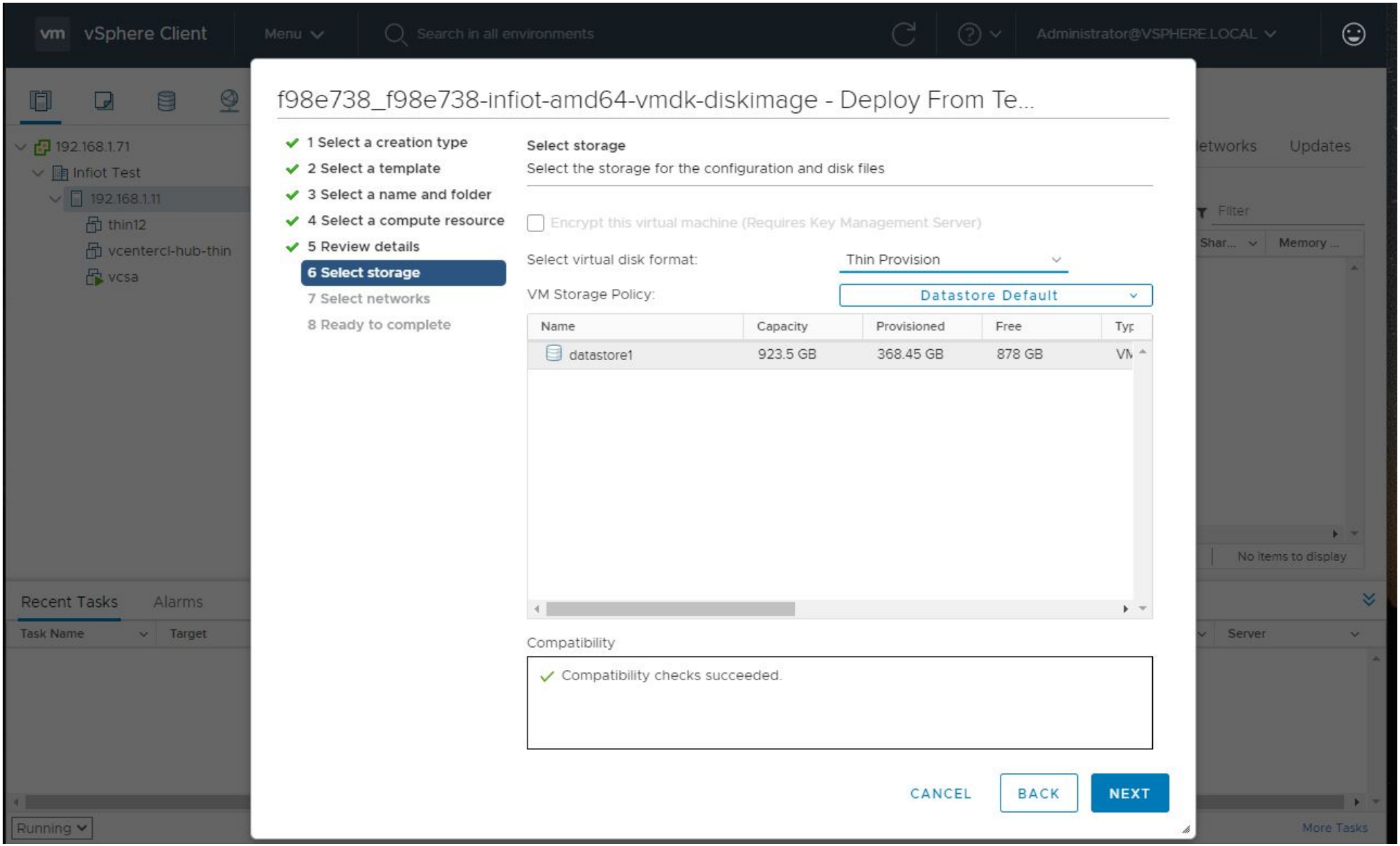
2 Select a template
3 Select a name and folder
4 Select a compute resource
5 Review details
6 Select storage
7 Ready to complete
Select a template
Content Library
Data Center
Template Name
Library Name
f98e738_f98e738-Infiot-amd64-vmdk-diskl...
T1
c0e7357_c0e7357-Infiot-amd64-vmdk-disk...
T1
2 items
CANCEL
BACK
NEXT
192.168.1.71
Infiot Test
192.168.1.11
thin12
vcenterci-hub-thin
vcsa
Recent Tasks
Alarms
Task Name
Target
Server
No items to display
Running
More Tasks


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 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
192.168.1.71
Infiot Test
192.168.1.11
thin12
vcenterci-hub-thin
vcsa
Networks
Updates
Filter
Shar...
Memory ...
No items to display
Recent Tasks
Alarms
Task Name
Target
Server
Running
More Tasks


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
192.168.1.71
Infiot Test
192.168.1.11
thin12
vcenterci-hub-thin
vcsa
Recent Tasks
Alarms
Task Name
Target
Running
No items to display
Server
More Tasks


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
192.168.1.71
Infiot Test
192.168.1.11
thin12
vcentercl-hub-thin
vcsa
Recent Tasks
Alarms
Task Name
Target
Deploy OVF package from Content Library to Resource Pool
Running
No items to display
Server
More Tasks


vSphere Client
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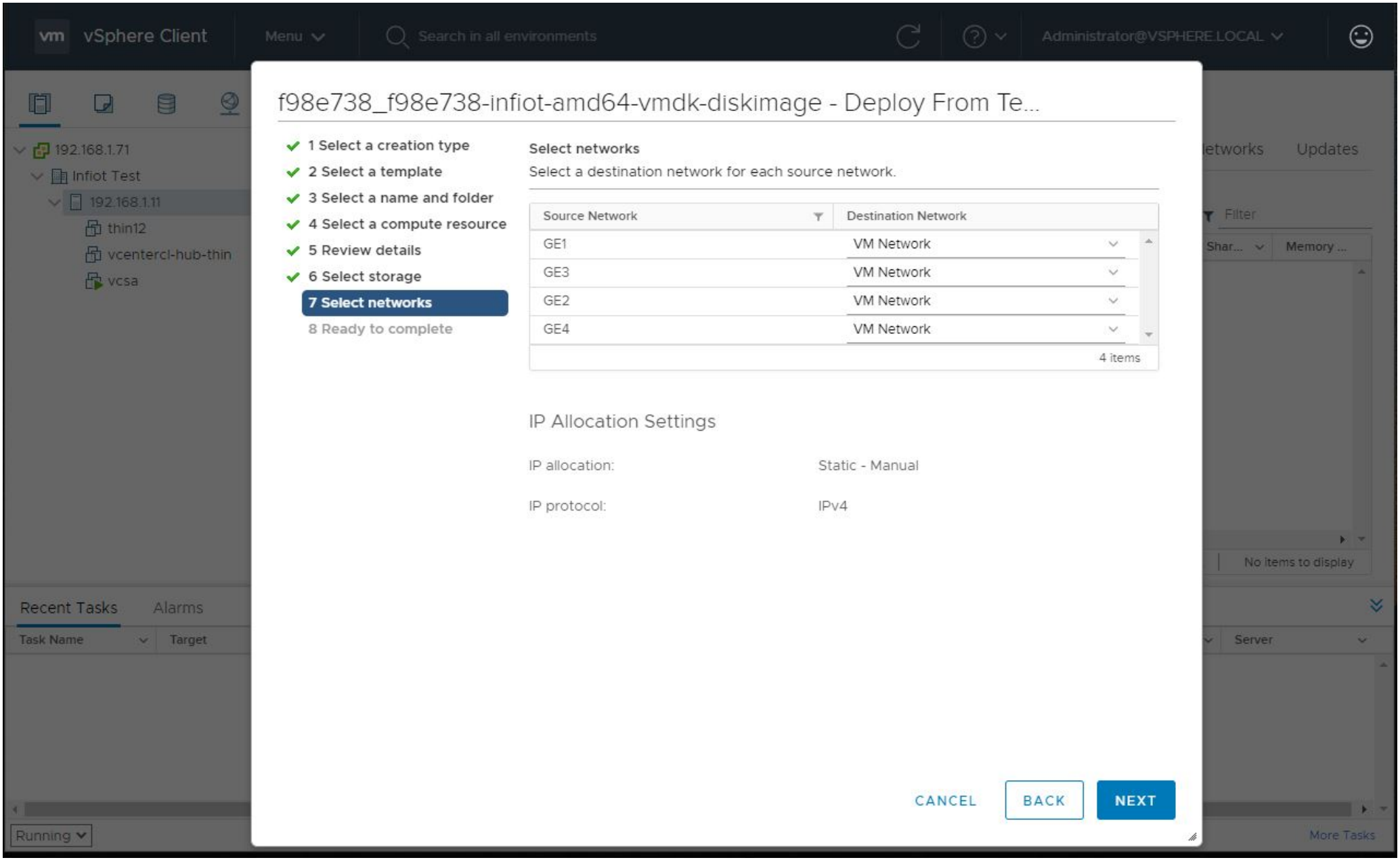
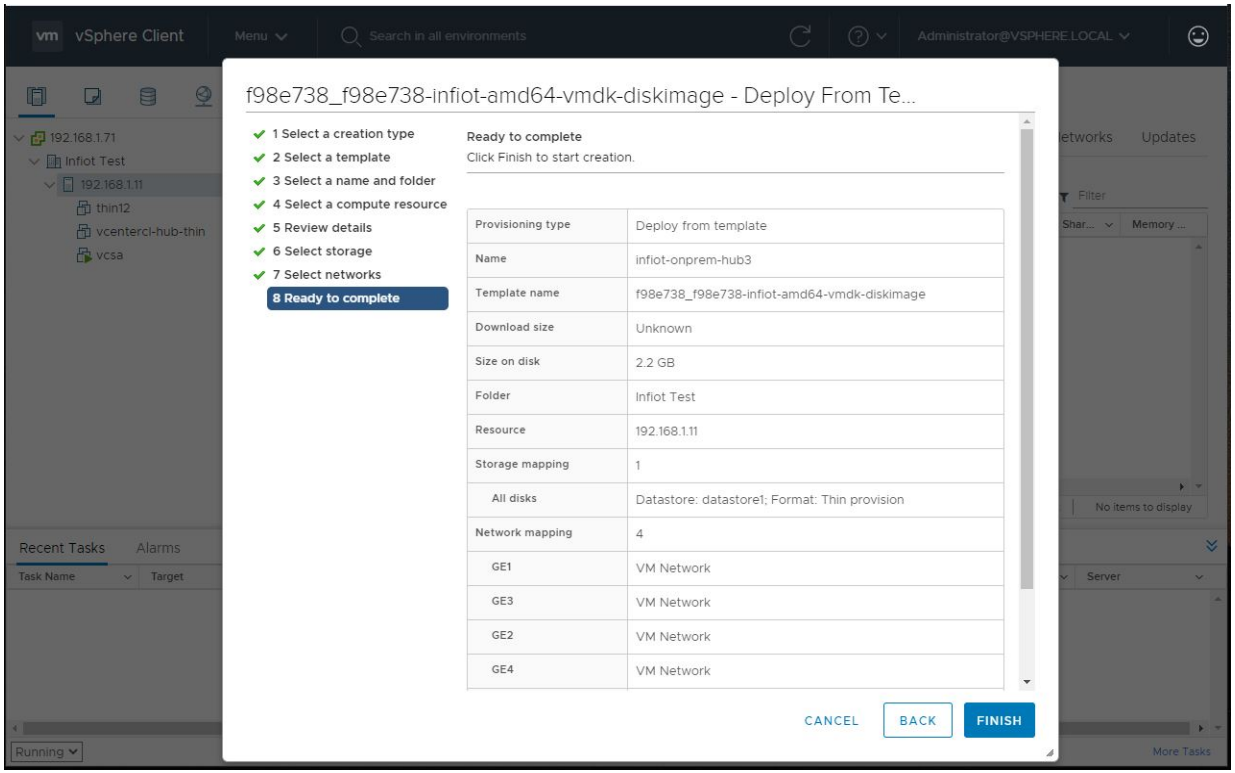
Administrator@VSPHERE.LOCAL
f98e738_f98e738-infiot-amd64-vmdk-diskimage - Deploy From Te...
1 Select a creation type
2 Select a template
3 Select a name and folder
4 Select a compute resource
5 Review details
6 Select storage
7 Select networks
8 Ready to complete
Select storage
Select the storage for 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
Typ
datastore1
923.5 GB
368.45 GB
878 GB
Compatibility
Compatibility checks succeeded.
CANCEL
BACK
NEXT
192.168.1.71
Infiot Test
192.168.1.11
thin12
vcenterci-hub-thin
vcsa
Recent Tasks
Alarms
Task Name
Target
Running
Updates
Filter
Memory ...
No items to display
Server
More Tasks


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
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
192.168.1.71
Infiot Test
192.168.1.11
thin12
vcentercl-hub-thin
vcsa
Recent Tasks
Alarms
Task Name
Target
Running
Updates
Filter
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 infhostd cli
  - **sudo su (password: infiot)**
  - **infhostd 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=WzEsIjYzMTk2ZmQyZmE1NmVhYjdkNzc5ZTQ4NiIsIi8rd1I0N0xGR200PSJd (http://192.168.50.1/activate?activation_uri=https://tid-60c6bdd6e4e3710ce35813ae.stage0.infiot.net&auth_token=WzEsIjYzMTk2ZmQyZmE1NmVhYjdkNzc5ZTQ4NiIsIi8rd1I0N0xGR200PSJd)

OR

- To activate from the console use the following CLI

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

infhostd activate -token WzEsIjYzMTk2ZmQyZmE1NmVhYjdkNzc5ZTQ4NiIsIi8rd1I0N0xGR200PSJd (http://192.168.50.1/activate?activation_uri=https://tid-60c6bdd6e4e3710ce35813ae.stage0.infiot.net&auth_token=WzEsIjYzMTk2ZmQyZmE1NmVhYjdkNzc5ZTQ4NiIsIi8rd1I0N0xGR200PSJd) -uri https://tid-60c6bdd6e4e3710ce35813ae.stage0.infiot.net (http://192.168.50.1/activate?activation_uri=https://tid-60c6bdd6e4e3710ce35813ae.stage0.infiot.net&auth_token=WzEsIjYzMTk2ZmQyZmE1NmVhYjdkNzc5ZTQ4NiIsIi8rd1I0N0xGR200PSJd)

- 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