



Holo-Setup-Deploy-Router

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Holo-Setup-Deploy-Router

Holo-Router Deployment

Overview

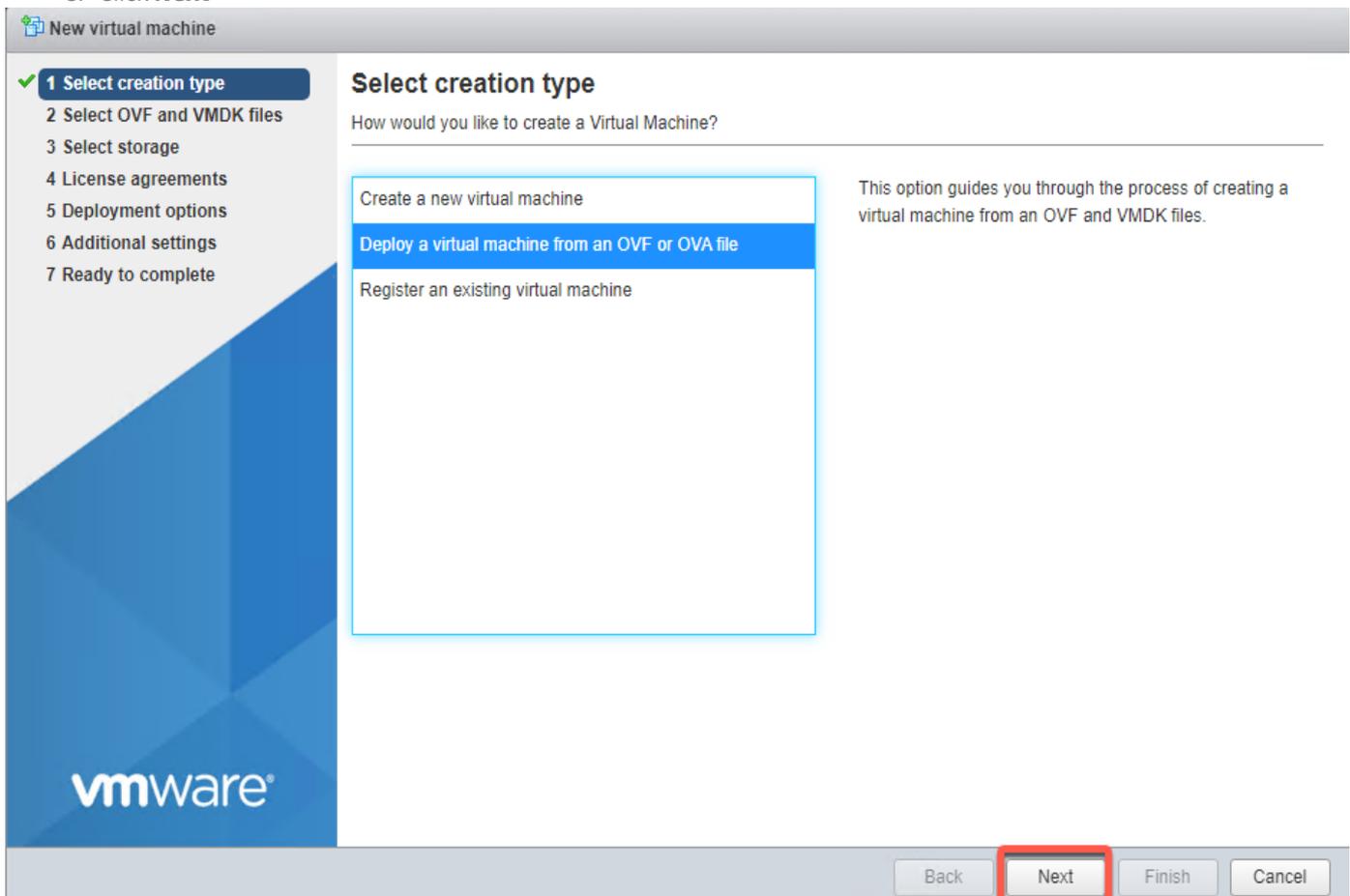
This section details the deployment of the Holo-Router VM. The Holo-Router provides external connectivity for a Holodeck environment, RDP port forwarding from external network to Holo-Console and routing between Holo-Site-1 and Holo-Site-2 inside a Holodeck environment

Deploy Holo-Router

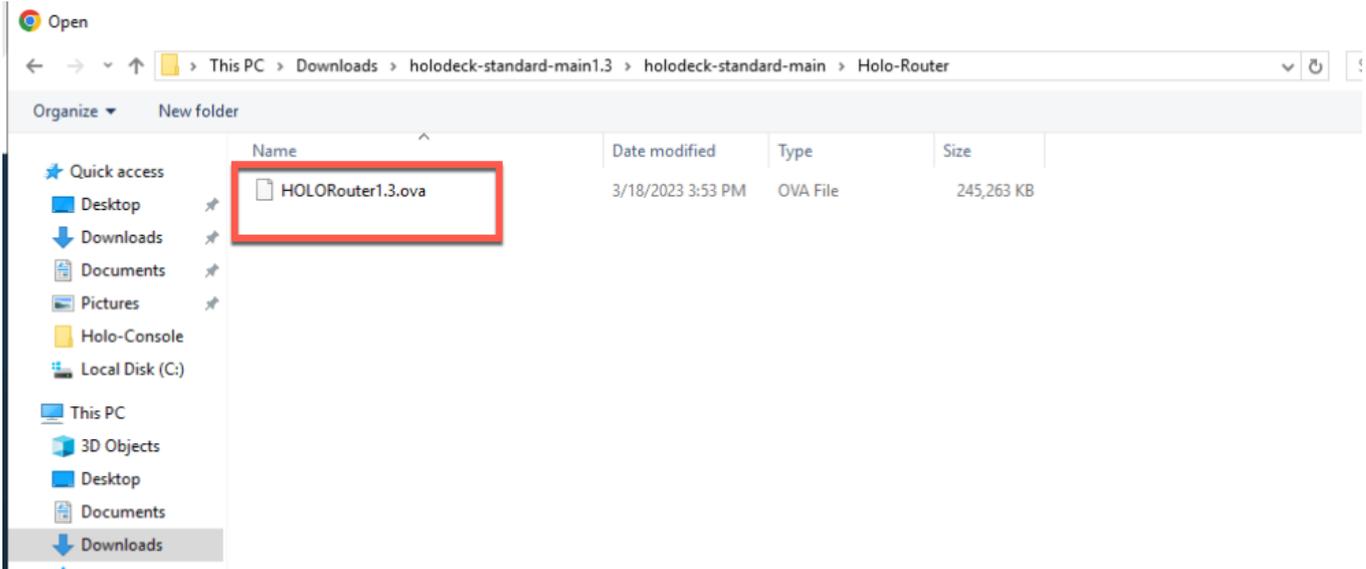
The Holo-Router VM is deployed on the physical ESXi host to the same Portgroup as the corresponding Holo-Console. It can be deployed using the vCenter client or the vSphere client. This example demonstrates the use of the vSphere Client to deploy the OVA to the physical ESXi host. The Holo-Router can be deployed while the Holo-Console is building.

Provision the Holo-Router Virtual Machine

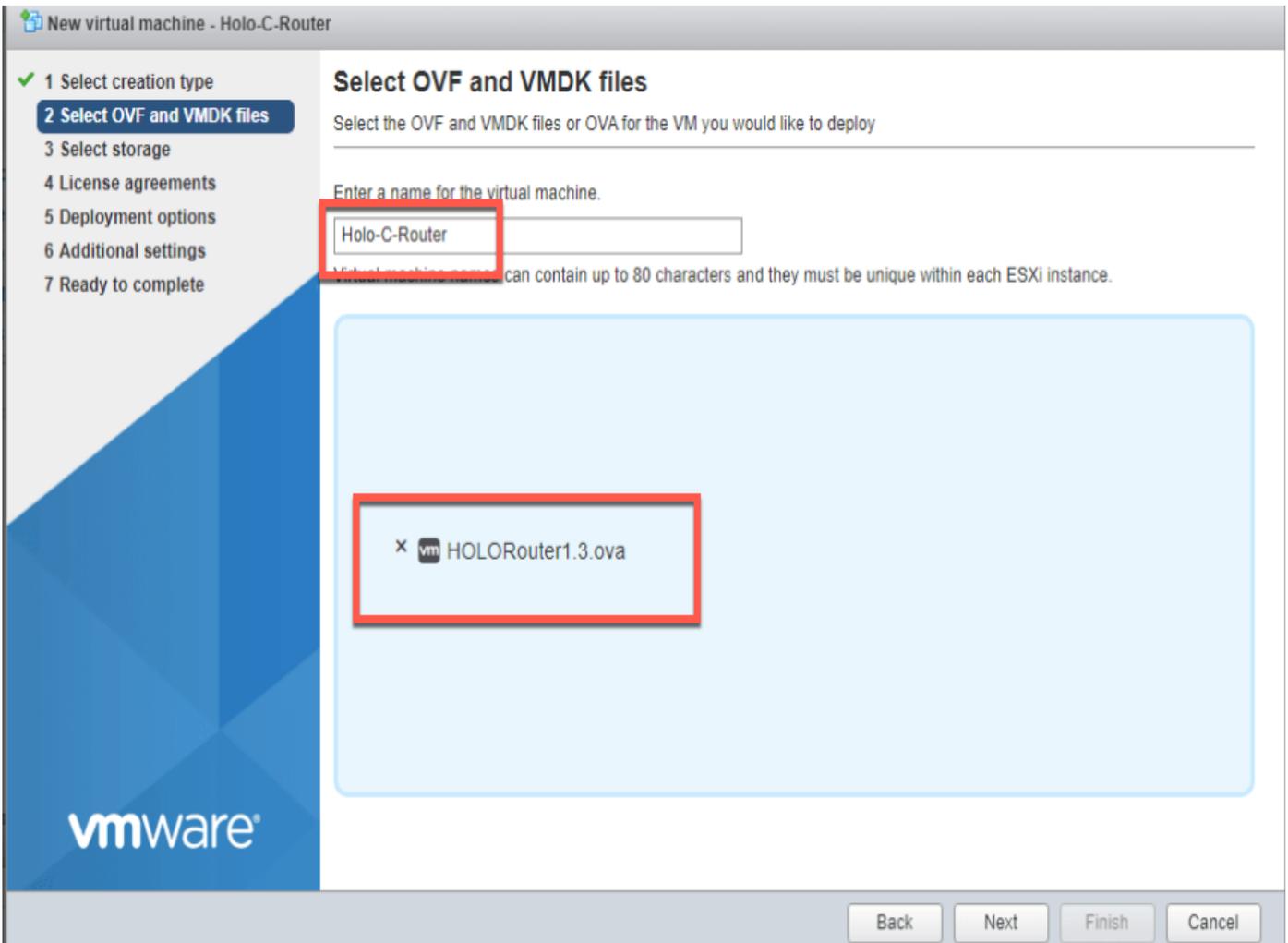
- A. Using the vSphere Web client, login to the ESXi host
- B. Click **Create/Register VM ->Deploy a virtual machine from an OVF or OVA file**
- C. Click **Next**



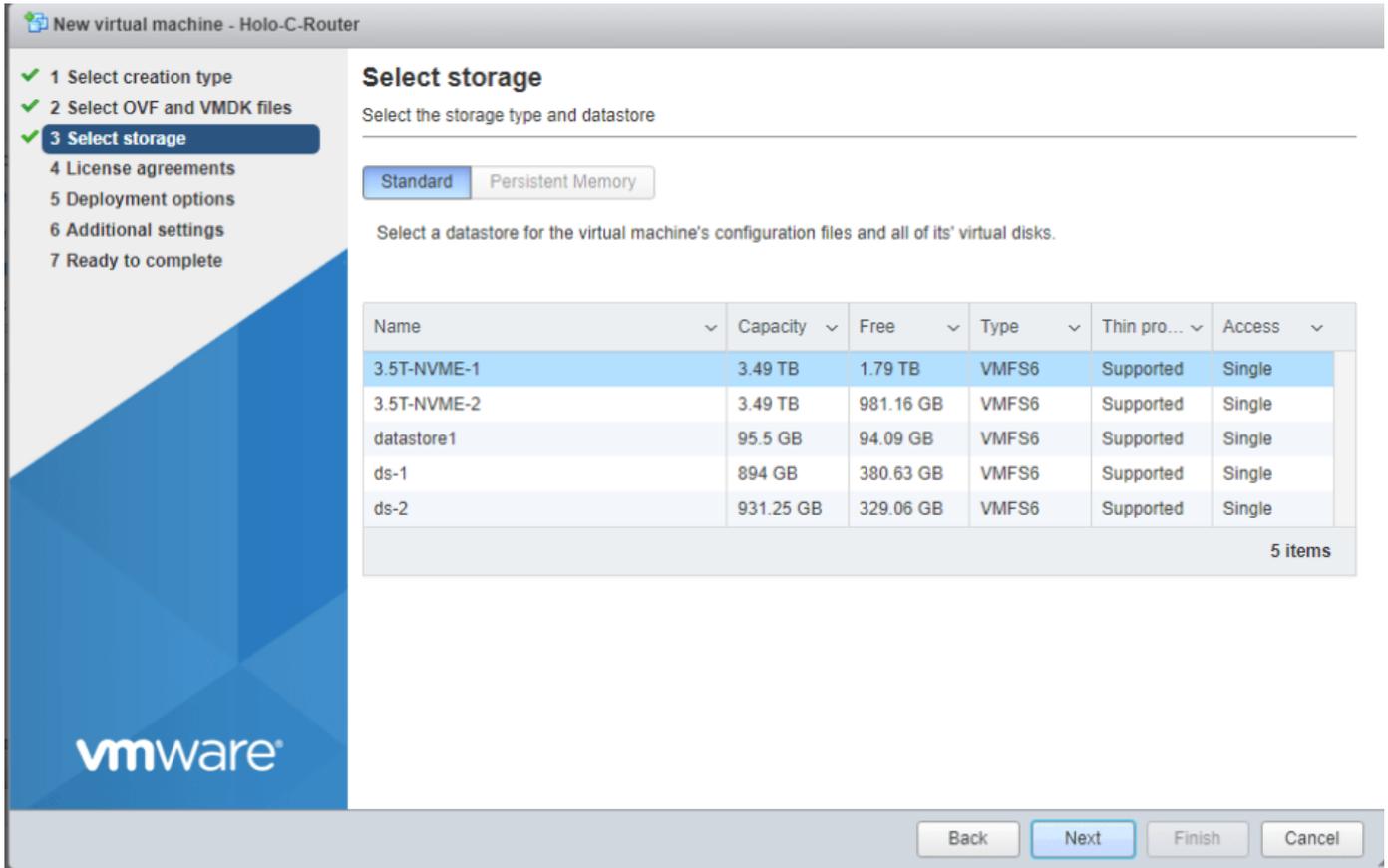
- D. Name the router **Holo-X-Router**. (This example uses *Holo-C-Router*)
- E. **Click to select files** and select the C:\Users\Administrator\Downloads\holodeck-standard-main1.3\holodeck-standard-main\Holo-Router\holorouter1.3.ovf file



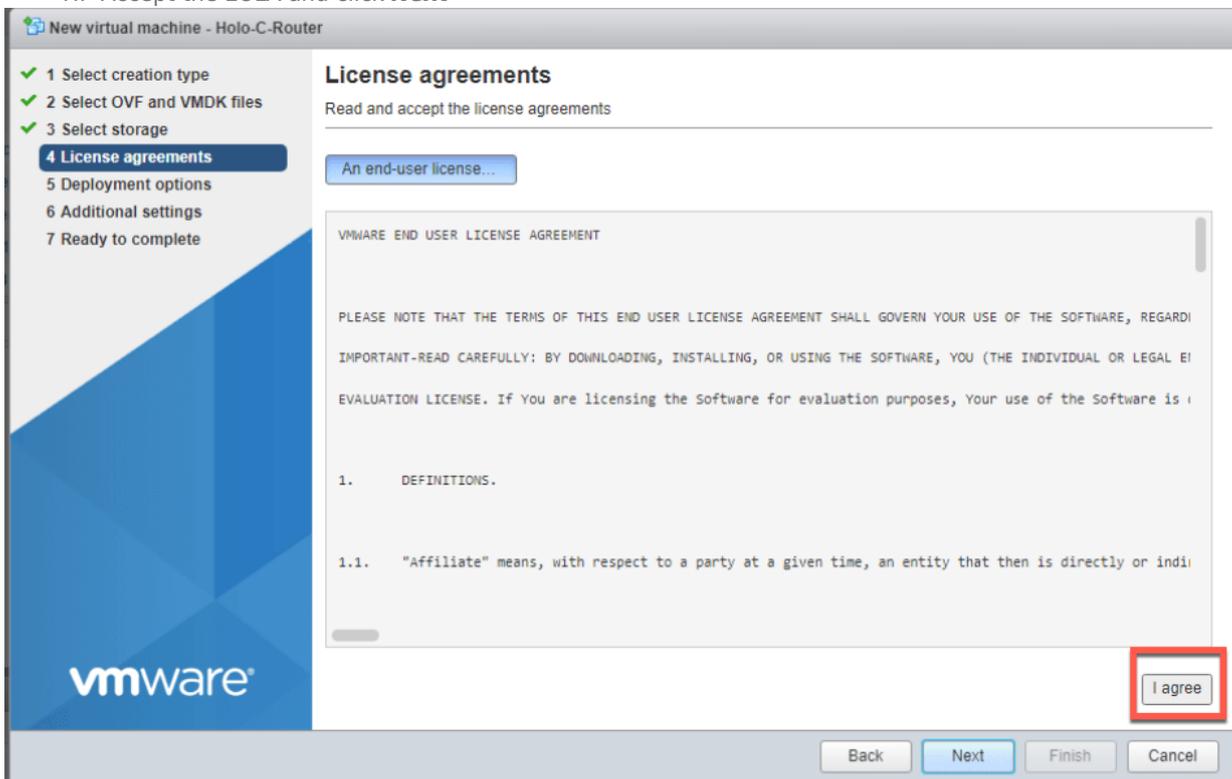
F. Click **Next**



G. The Holo-Router VM takes less than 2GB on disk. Select an appropriate storage with enough available capacity and click **Next**



H. Accept the EULA and click **Next**



I. Add network mappings appropriate for the environment. The example below illustrates using the *VMware Network* port group for the ExternalNet. This port group was created during the initial setup process for the physical ESXi host. In this example, the port group named VLC-C-PG is used for Site_1 and VLC-C2-PG is used for Site_2. NOTE: Even if you do not

intend to use the second site configuration, deploying the Holo-Router to connect to both port groups is recommended. After selecting the appropriate port groups, click **Next** to continue.

New virtual machine - Holo-C-Router

1 Select creation type
2 Select OVF and VMDK files
3 Select storage
4 License agreements
5 **Deployment options**
6 Additional settings
7 Ready to complete

Deployment options

Select deployment options

| | | |
|------------------------|---|----------------|
| Network mappings | ExternalNet | VMware Network |
| | Site_1_Net | VLC-C-PG |
| | Site_2_Net | VLC-C2-PG |
| Disk provisioning | <input checked="" type="radio"/> Thin <input type="radio"/> Thick | |
| Power on automatically | <input checked="" type="checkbox"/> | |

Back Next Finish Cancel

J. Click the drop-down box to access the Options attributes
Provide the appropriate values for the following attributes:

- External IP
- External Subnet Mask
- External gateway

Note that the screenshot below has been edited to obscure the network information of the environment used. **Do not change any fields other than the three External fields**

New virtual machine - Holo-C-Router

- ✓ 1 Select creation type
- ✓ 2 Select OVF and VMDK files
- ✓ 3 Select storage
- ✓ 4 License agreements
- ✓ 5 Deployment options
- 6 Additional settings**
- 7 Ready to complete

Additional settings

Additional properties for the VM

| Options | |
|-------------------|-----------------|
| External IP | 10.203.45.67 |
| Site 1 VLAN | 10 |
| Site_2_VLAN | 20 |
| Site 1 IP | 10.0.0.1 |
| Site 1 Subnet | 255.255.255.0 |
| Site 2 IP | 10.0.20.1 |
| Site 2 Subnet | 255.255.255.0 |
| Internal FWD IP | 10.0.0.201 |
| Internal FWD PORT | 3389 |
| External Subnet | 255.255.255.240 |
| External_Gateway | 10.203.45.78 |

Back **Next** Finish Cancel

K. Click **Next**

L. Review the settings and click **Finish**

New virtual machine - Holo-C-Router

- ✓ 1 Select creation type
- ✓ 2 Select OVF and VMDK files
- ✓ 3 Select storage
- ✓ 4 License agreements
- ✓ 5 Deployment options
- ✓ 6 Additional settings
- 7 Ready to complete**

Ready to complete

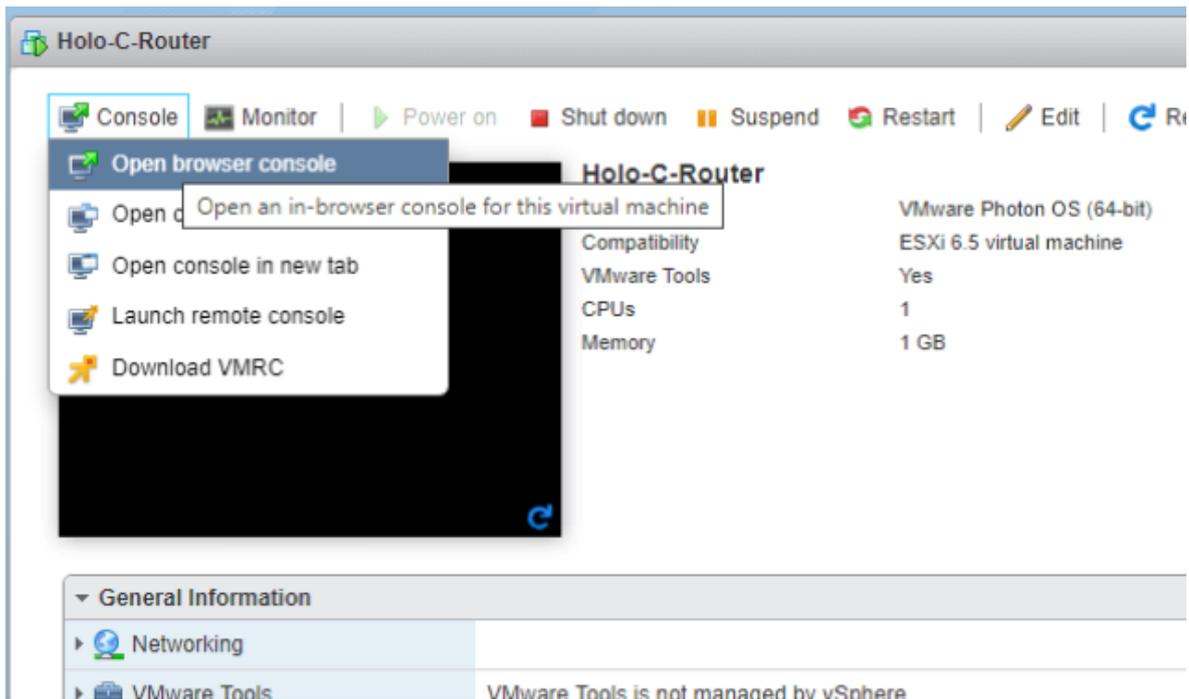
Review your settings selection before finishing the wizard

| | |
|-------------------|--|
| Product | Photon OS |
| VM Name | Holo-C-Router |
| Files | HOLORouter1.2-disk1.vmdk |
| Datastore | 3.5T-NVME-1 |
| Provisioning type | Thin |
| Network mappings | ExternalNet: VMware Network,Site_1_Net: VLC-C-PG,Site_2_Net: VLC-C2-PG |
| Guest OS Name | VMware Photon OS (64-bit) |
| Properties | Click to expand |

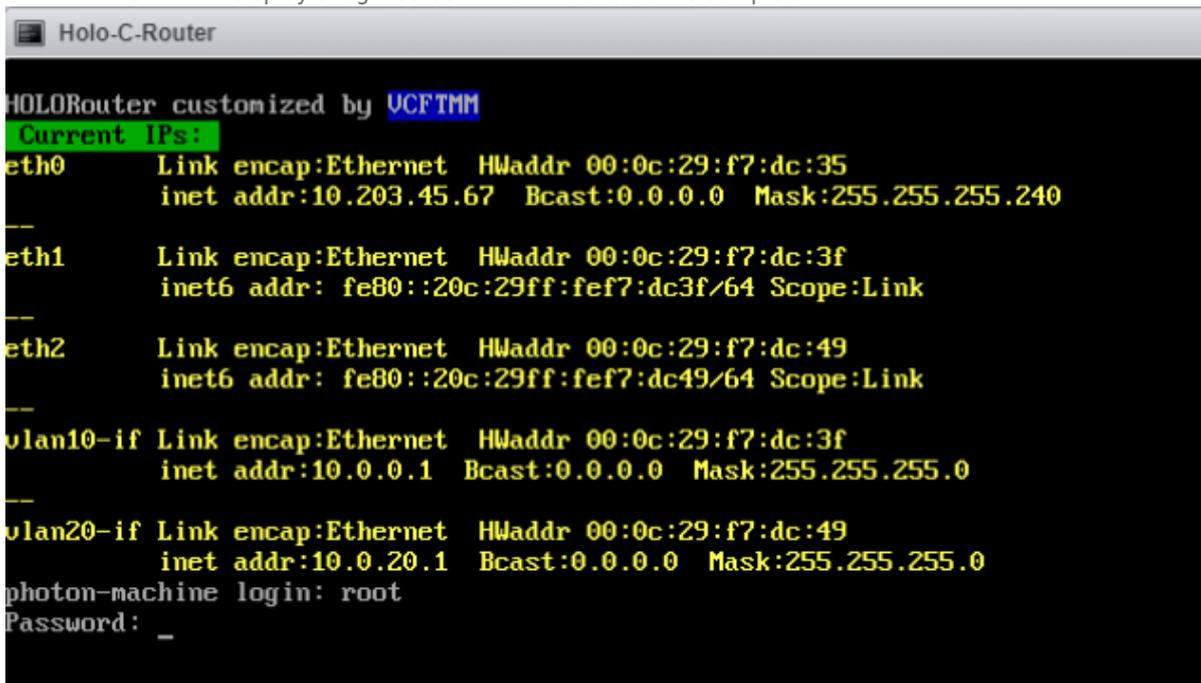
 Do not refresh your browser while this VM is being deployed.

Back Next **Finish** Cancel

M. Open a console for the new VM



N. The VM will display a login screen when initialization is complete



[Step 2] Validate Router

- Login as the user **root** with the password of **VMware123!**
- You will be required to change the password immediately. As the Holo-Router is the external network connection to the Holodeck Environment, it is highly recommended that you change the password to a strong password that conforms to your company policy.
- Use the ping command to verify network connectivity from the Holo-Router.
 - Ping Holo-Console at 10.0.0.201 to test connectivity inside the pod.
 - Ping your gateway address to verify external networking

```
photon-machine login: root
Password:
You are required to change your password immediately (administrator enforced).
Changing password for root.
Current password:
New password:
Retype new password:
root@photon-machine [ ~ ]# ping 10.0.0.201
PING 10.0.0.201 (10.0.0.201) 56(84) bytes of data.
64 bytes from 10.0.0.201: icmp_seq=1 ttl=128 time=0.606 ms
64 bytes from 10.0.0.201: icmp_seq=2 ttl=128 time=0.411 ms
^C
--- 10.0.0.201 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1022ms
rtt min/avg/max/mdev = 0.411/0.508/0.606/0.097 ms
root@photon-machine [ ~ ]# ping 10.203.45.78
PING 10.203.45.78 (10.203.45.78) 56(84) bytes of data.
64 bytes from 10.203.45.78: icmp_seq=1 ttl=255 time=0.330 ms
64 bytes from 10.203.45.78: icmp_seq=2 ttl=255 time=0.433 ms
```

- D. Close the console window
- E. **NOTE:** At this point, following successful test of Holo-Router and Holo-Console, access to Holo-Console inside the pod via Microsoft RDP to the Holo-Router external address is enabled.

