

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**

🔁 New virtual n	nach	ine
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1 Select creation type	Select creation type					
2 Select OVF and VMDK files	How would you like to create a Virtual Machine?					
3 Select storage						
4 License agreements		This	ontion quides	you through the	ne process of cr	e patina a
5 Deployment options	Create a new virtual machine	virtua	al machine fro	m an OVF and	VMDK files.	caulty a
6 Additional settings	Deploy a virtual machine from an OVF or OVA file					
7 Ready to complete	Register an existing virtual machine					
			Back	Next	Finish	Cancel

- 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-main1



Open					
← → ~ ↑ 🔄 > This PC > Downle	oads > holodeck-standard-main	1.3 → holodeck-standa	ard-main > Hold	p-Router	✓ Č
Organize 👻 New folder					
✓ Quick access Name Desktop Image: Construction of the sector of the secto	vter1.3.ova	Date modified 3/18/2023 3:53 PM	Type OVA File	Size 245,263 KB	
Desktop Documents Downloads F. Click Next					
1 New virtual machine - Holo-C-Route	er				
 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 	Select OVF and VM Select the OVF and VMDK file Enter a name for the virtual m Holo-C-Router	IDK files as or OVA for the VM achine.	you would like to	o deploy ust be unique within each ESXi insta	nce.
	× 페 HOLORoute	er1.3.ova			
vm ware [®]					
				Back Next	Finish Cancel

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**

🔁 New virtual machine - Holo-C-Router 1 Select creation type License agreements 2 Select OVF and VMDK files Read and accept the license agreements 3 Select storage 4 License agreements An end-user license. 5 Deployment options 6 Additional settings VMWARE END USER LICENSE AGREEMENT 7 Ready to complete PLEASE NOTE THAT THE TERMS OF THIS END USER LICENSE AGREEMENT SHALL GOVERN YOUR USE OF THE SOFTWARE, REGARDI IMPORTANT-READ CAREFULLY: BY DOWNLOADING, INSTALLING, OR USING THE SOFTWARE, YOU (THE INDIVIDUAL OR LEGAL E! EVALUATION LICENSE. If You are licensing the Software for evaluation purposes, Your use of the Software is (DEFINITIONS. 1. "Affiliate" means, with respect to a party at a given time, an entity that then is directly or indi 1.1. **vm**ware[®] l agree Back Next Finish Cancel

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.



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**

M. Open a console for the new VM

 Holo-C-Router Image: Console Image: Monitor Image: Power on Image: Support of Comparison of Compariso
Console Monitor Power on Shut down Suspend Restart Petit C I Comparison Open an in-browser console for this virtual machine Open console in new tab Launch remote console Download VMRC Ceneral Information Ceneral Information Memory Comparison Memory Comparison Ceneral Information Memory Ceneral Information
Copen browser console Holo-C-Router Image: Open console in new tab Compatibility Image: Comparise in new tab Compatibility Image: Comparise in new tab VMware Tools Imag
Image: Open of Open an in-browser console for this virtual machine VMware Photon OS (64-bit) Image: Open console in new tab Compatibility Image: Launch remote console VMware Tools Image: VMware Tools Yes CPUs 1 Memory 1 GB Image: Open console in new tab Image: Compatibility Image: Compatibility <
© Open console in new tab Compatibility ESXi 6.5 virtual machine VMware Tools Yes CPUs 1 Memory 1 GB ✓ General Information ► Several Information ► Several Information
I Launch remote console Image: Launch remote console CPUs 1 Image: Download VMRC Memory 1 GB
■ Eduler relified consol Memory 1 GB C ✓ General Information ✓ Queverking
Download VMRC General Information Set Networking
C C General Information Solution
✓ General Information ▶ Setworking
General Information Section 2
General Information Solution Solution Solution
General Information
Networking
VMware Tools VMware Tools is not managed by vSphere
N. The VM will display a login screen when initialization is complete
Holo-C-Router
HALABouter customized by UCFTMM
Current IPs:
eth0 Link encap:Ethernet HWaddr 00:0c:29:f7:dc:35 inet addr:10 203 45 62 Breast:0 0 0 0 Mask:255 255 255 240
eth1 Link encap:Ethernet HWaddr 00:0c:29:f7:dc:3f
eth2 Link encap:Ethernet HWaddr 00:0c:29:f7:dc:49
inet6 addr: fe80::20c:29ff:fef7:dc49/64 Scope:Link
ulan10-if Link encap:Ethernet HWaddr 00:0c:29:f7:dc:3f
inet addr:10.0.0.1 Bcast:0.0.0.0 Mask:255.255.255.0
ulan20-if Link encap:Ethernet HWaddr 00:0c:29:f7:dc:49
inot addm:10 0 20 1 Popot:0 0 0 0 Mack:2EE 2EE 0
nhoton_machine_login' most
photon-machine login: root Password:

[Step 2] Validate Router

- A. Login as the user **root** with the password of **VMware123!**
- B. 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.
- C. Use the ping command to verify network connectivity from the Holo-Router.
 - $\bullet~$ 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: ot@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/aug/max/mdeu = 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.

