Quick Start Guide



VMware vSphere / vSphere Hypervisor

· Server Mode · (Single-Interface Deployment)



Cisco UCS-E Blade

Before You Begin

- ☑ If your UCS-E blade does not have VMware ESXi preinstalled, please refer to Preparing a Cisco UCS-E Server with VMware vSphere for VXOA
- Download the virtual appliance OVF template file:
 - For a 30-day free trial, go to the Silver Peak Marketplace.
 - If you've purchased the product, then log in at the Silver Peak Support portal.
- Obtain a VX virtual appliance activation license key
- ☑ If not using DHCP, then get an IP address for the Silver Peak appliance.

This Quick Start Guide only covers the single-interface Server mode, which uses **mgmt0** for data traffic.

NOTE: When you download the OVF template file and save it, Internet Explorer may change the suffix from .ova to .tar. If it does, change the suffix back to .ova.

SUMMARY OF TASKS

- Configure the BIOS setting of the UCS-E blade
- **Z** Configure the virtual network
- **5** Deploy the VX virtual appliance's OVF template
- **4** Configure the Resource Allocation Reservation
- **5** Establish connectivity to the virtual appliance
- **6** Run the Appliance Manager initial configuration wizard



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Configure the BIOS setting of the UCS-E blade

a. Launch a browser and point to the Cisco Integrated Management Controller (CIMC) of the UCS-E blade.



b Under Actions, click Launch KVM Console.

Firefox Tisco Integrated	Management Controlle +	- Anno 1	Second - Second
(+) iii) 🔒 https://10.0.234.59/ind	ex.html		▼ C
Most Visited 🗍 Getting Started	Latest Headlines		
cisco Cisco Integ	rated Management Cor	ntroller	
Overall Server Status	C 🚺 🕹 🧱 🛛 😯 🖯		
Waiting BIOS POST	Server Summary		
Server Admin	Actions	Server Properties	
Summany	Power On Server	Product Name:	E140S
Inventory	Bower Off Server	Serial Number:	F0C17424VW4
RAID	S Power Off Server	PID:	UCS-E140S-M1/K9
Sensors	Shut Down Server	UUID:	E02F6DE0-DE86-0000-5C0A-9E2FDC411C
System Event Log	C Power Cycle Server	BIOS Version:	UCSES.1.5.0.2 (Build Date: 05/15/2013)
Remote Presence	也 Hard Reset Server	Description:	
BIOS	Launch KVM Console		
Power Policies	Lock Front Papel Power Button	Server Status	0.0
Fault Summary		Power State:	

The following screen appears.



c Press the **F12** key to restart the ESXi.

While the system boots up, press **F2** to enter the BIOS setup.

File View Macros Tools Help	
KVM Virtual Media	
Antio Setum Utility – Convright (C) 2011 American Megatrends. Inc	
Main Advanced Chipset Server Mgmt Boot Security Save & Exit	
BIOS Information Choose the system	
BIOS Vendor American Megatrends default language	
Core Version UCSES.1.5.0.2	
Compliancy UEFI 2.3; PI 1.2 Project Version OAPVIL 0.04 x64	
Build Date and Time 05/15/2013 17:58:23	
Memory Information	
Total Memory 8192 MB (DDR3 1333)	
System Language [English] ++: Select Screen	
↑↓: Select Item	
System Date [Sat 12/14/2013] Enter: Select	
System Time [00.55.55] +/ Change Opt.	
Access Level Administrator F9: Optimized Defaults	
F10: Save & Exit	
ESC: Exit	
Version 2.14.1219. Copyright (C) 2011 American Megatrends, Inc.	
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d On the **Advanced** tab, click **CPU Configuration**.



On the CPU Configuration screen, click CPU Power Management Configuration.

10.0.234.59 - KVM Console	5-5-8814 E	and a second second second	- 0 X
File View Macros Tools Help			
KVM Virtual Media			
Aptio Setup Utility	y − Copyright (C) 2011 Ame	erican Megatrends, Inc.	
Advanced			
CPU Power Management Co	onfiguration	Enable the power	
Power Technology EIST P-STATE Coordination CPU C3 Report CPU C6 report CPU C7 report Package C State limit	[Custom] [Enabled] [Hw_ALL] [Disabled] [Disabled] [Enabled] [No Limit]	management features.	
Long duration power 1 Factory long duration Long duration maintai Recommended short dur Short duration power	0 1000 ms 0 1.25 * Long Duration 0	<pre>++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F9: Optimized Defaults F10: Save & Exit ESC: Exit</pre>	
Version 2.14.1219.	. Copyright (C) 2011 Amer.	ican Megatrends, Inc. A	в

e Change the **Power Technology** setting from Custom to **Disable**.





f. Press **FIO** to save and exit. When asked to confirm your choice, click **Yes**. The system will continue to boot.

2 Configure the virtual network

Now you'll create a new virtual network called **mgmt0**, and use **vmnic1** as the network adapter.

a In the vSphere client navigation pane, select the host, and then go to the **Configuration** tab, and click **Add Networking**.

🕝 10.0.234.60 - vSphere Client		
File Edit View Inventory Administration Plug-ins Help		
🕞 🔂 inventory 🕨 🛐 Inventory		
at et		
10.0.234.60 localhost.localdomain VMware ESXi. 5	5.0.0. 623860 Evaluation (53 davs remaining)	
Getting Started Summary Virtual Ma	achines Resource Allocation Performance Configuration Local Users & Groups Events Permissions	
Hardware	View: vSphere Standard Switch	
Health Status	Networking Refresh Ald Networking Pr	rorerties
Processors		
Storage	Standard Switch: vSwitch0 Remove Properties	
Networking	VM Network 👱 📲 vmnic0 1000 Full 🖓	
Storage Adapters Network Adapters	Wikemel Port	
Advanced Settings	vmk0 : 10.0.234.60	
Power Management		
Software		
Licensed Features		
	Vine and the second sec	

The Connection Type screen appears. Make sure that **Virtual Machine** is selected.

Add Network Wizard	
Networking hardware o	an be partitioned to accommodate each service that requires connectivity.
Connection Type Network Access Connection Settings Summary	Connection Types
	The VMkernel TCP/IP stack handles traffic for the following ESXi services: vSphere vMotion, iSCSI, NFS, and host management.

b Click **Next**. The Virtual Machines - Network Access page appears.

Virtual Machines - Net Virtual machines read	work Access th networks through uplink adapters attached to vSph	ere standard sv	vitches.	
Connection Type Network Access	Select which vSphere standard switch will hand vSphere standard switch using the unclaimed ne	e the network t etwork adapters	raffic for this connection. You m s listed below.	ay also create a new
Connection Settings Summary	• Create a vSphere standard switch	Speed	Networks	
ourinter y	Broadcom Corporation NetXtreme	BCM5719 Gig	abit Ethernet	
	vmnic1	1000 Full	None	
	vmnic2	Down	None	
	O Use vSwitch0	Speed	Networks	
	Broadcom Corporation NetXtreme	BCM5719 Gig	abit Ethernet	
	vmnic0	1000 Full	None	
	Densieur			
	-Virtual Machine Port Group	- Physical Adapters		
	VM Network 2	😨 vmnic	1	

You can choose among 3 network adapters:

vmnic0	Router's PCIe console interface
vmnic l	Router's MGF VLAN interface
vmnic2	UCS-E GE2 external interface

Best practice, however, is to use **vmnic I**.

In this example, we select **vmnic I**, and click **Next**. The Connection Settings page appears.

🗿 Add Network Wizard			
Virtual Machines - Conne Use network labels to ic	ection Settings lentify migration compatible connectio	ans cammon to two or more hosts.	
Connection Type Network Access Connection Settings Summary	Port Group Properties Network Label: VLAN ID (Optional):	VM Network 2 None (0)	
	Preview:	Physical Adapters	
	VM Network 2		
	and a second second second	and the second	

- c. Make the following changes:
 - In the Network Label field, enter mgmt0.
 - Because **vmnicl** is mapped to the router's internal MGF VLAN interface on the UCS-E blade, you must enter that same VLAN value in this **VLAN ID** field, In our example, this value is **100**.

However, if you used vmnic0 or vmnic2 as the network adapter, then leave the VLAN ID field set to None (0).

Use network labels to id	lentify migration compatible conne	ctions common to two or more hosts.	
Connection Type Network Access Connection Settings Summary	Port Group Properties	mgmt0 100 💌	
	Preview: Virtual Machine Port Group mgmt0 VLAN ID: 100	Physical Adapters	
Contraction and			

Click Next.

The Ready to Complete page appears.

🛃 Add Network Wizard		
Ready to Complete Verify that all new and mod	ified vSphere standard switches are configured appropriately.	
Connection Type Network Access	Host networking will include the following new and modified standard switches: Preview:	
<u>Connection Settings</u> Summary	Virtual Machine Port Group mgmt0 VLAN ID: 100	
	have been and the second	

d Click **Finish**.

The vSphere client's **Configuration** tab now reflects the addition of **mgmt0**.



3 Deploy the VX virtual appliance's OVF template

a Launch the vSphere client, enter the IP address for the VMware vSphere host.

The host interface appears.

e Edit View Invento	y Administration	Plug-ins Help								
Home	Inventory	Inventory								
10.0.234.60	I ocalho Getting Wha A ho as E: CPU give conn You (One The virtue mach insta syste	stocaldomain VMW Started Summary is a Abost? is a computer th XX or ESX, to run or and memory resou- virtual machines a activity. an add a virtual m activity. an add a virtual m a by deploying a v easiest way to add al appliance. A virtu ine with an operat ded. A new virtual m installed on it, s	are ESX, 5.0.0, Virtual Machines virtual machini urces that virtu ccess to stora hachine to a h rirtual appliance ing system an machine wito a system an machine wito a system an machine wito a system an	223860 Evalue Resource Allo ization softwases. Hosts pro- jaal machines ge and network ost by creatin- ce. hine is to dep is a pre-built id software al eed an operar ws or Linux.	ation (53 days rema cation Performance re, such vide the use and rfk g a new g a new loy a virtual ready ting	oning) Configuration Lu Virtual Machin	coal Users & Group	eventa Perr close tab X	missions	
	Basi P	: Tasks Change the defa	ult password	1		vSphere Client				
	B	Deploy from VA N	larketplace		Ex	plore Further				
	8 (Create a new vir	tual machine			Learn about v Manage multiple h balance your datac Evaluate vSph	Sphere osts, eliminate de center with vMotio ere	owntime, load n, and more		
ent Tasks							Name, Targe	et or Status contain	ns: •	Clear
me	Target	Status	Details	Initiated by	Requested Start Ti.	🗢 Start Time	Comple	eted Time		

b From the **File** menu, select **Deploy OVF Template**, and follow the steps in the wizard.

NOTE: On the Name and Location page, we changed the virtual appliance's default name to **MySilverPeak**, to make this example more generic.

c On the Disk Format page, make sure to select Thick Provision Lazy Zeroed.

🕢 Deploy OVF Template		
Disk Format In which format do you	want to store the virtual disks?	
Source OVF Template Details	Datastore: datastore	
Name and Location Disk Format Network Mapping	Available space (GB): 450.7	
Ready to Complete	Thick Provision Lazy Zeroed	
	C Thick Provision Eager Zeroed C Thin Provision	
and the second	and a second a second a second a	man man

Click **Next**. The Network Mappin g page appears.

d From the Destination Networks list, select **mgmt0**.

Deploy OVF Template Network Mapping What networks should th	ne deployed template use?						
Source OVF Template Details Name and Location	Map the networks used in this OVF	template to networks in your inventory					
Disk Format	Source Networks	DestinationNetworks					
Network Mapping	VM Network	mgmt0 🗸					
	Description:						
	The VM Network network						
	and a subscription	and a second and a second a se					

Click **Next**.

e When the Ready to Complete page appears, go to the bottom of the page and click **Finish**.

Deploy OVF Template		
Ready to Complete Are these the options you	i want to use?	
Source OVF Template Details Name and Location Disk Format Network Mapping Ready to Complete	When you click Finish, the deployment settings: OVF file: Download size: Size on disk: Name: Host/Cluster: Datastore: Disk provisioning: Network Mapping:	ent task will be started. C:\Users\tammer\Desktop\VX-5000-6.0.3.0_44579.ova 309.6 MB 100.0 GB MSSIIverPeak localhost. datastore Thick Provision Lazy Zeroed "VM Network" to "mgmt0"
Help		<back cancel<="" finish="" th=""></back>

The Silver Peak appliance deploys.

4 Configure the Resource Allocation Reservation

If you're deploying on a UCS-E 140S (single-wide blade), then you must change the CPU reservation of the Silver Peak virtual appliance to 0 (zero).

a In the vSphere Client, select the newly deployed virtual appliance and right-click to select **Edit Settings**.



b When the Virtual Machine Properties window appears, select the **Resources** tab and set **Reservation** to 0 MHz.

1	MySilverPeak - Virtual Machine P	roperties	-			
	Hardware Options Resources				Virtua	I Machine Version: 8
	Settings	Summary		Resource Allocation	n	
	CPU	3350 MHz		Channer	Nama	4000
	Memory	5000 MB		Shares:	INOrmal	4000
	Disk	Normal		Reservation:	[0 ÷ MHz
	Advanced CPU	HT Sharing: Any			A	
				Limit:	J [3996 <u>-</u> MHz
					Unlimited	
		And the second second		Limit based on p	arent resource pool or curren	thost

Click OK. The window closes.

5 Establish connectivity to the virtual appliance

a In the vSphere Client, select the newly deployed virtual appliance and click the green arrow 👂 to power on.

🕝 10.0.234.60 - vSphere Client						
File Edit View Inventory Administration Plug-ins Help						
🖸 🔯 home 🕨 👸 Inventory 🕨 🎁 Inventory						
Image: Started Summary Resource Allocation Performance Events Console Permissions						
General	Resources					
Guest OS: Other 2.6 x Linux (64-bit) VM Version: vmx-09 CPU: vCPU Vmount 7155 MB	Consumed Host CPU: Consumed Host Memory: Active Guest Memory: Provigioned Sta					

b Click the **Console** tab. The Silver Peak Console User Interface appears.



- c The next task is to determine the virtual appliance's IP address:
 - If you're using DHCP, the virtual appliance IP address displays in Silver Peak's Console User Interface.

	Silver Peak
The	Appliance Manager is at http://10.0.238.77.

If you're <u>not</u> using DHCP, then you must configure the static IP address and default gateway.

The Appliance Manager is not accessible on the network. (To change settings, press F4 key.)

In the virtual appliance console, press function key, **F4**, and complete the remaining steps.

When prompted to choose the type of management interface, select **Static** (as opposed to **DHCP**).

After selecting **Apply**, you can review the settings by selecting function key, **F2**.

d. To verify connectivity, press function key, FI, and enter the following command sequence:
[vx-appliance] > enable
[vx-appliance] # show ip default-gateway
[ENTER]
[vx-appliance] # ping <default-gateway>
[ENTER]
To stop the pinging, enter CTRL-C.
You are now ready to complete the Silver Peak virtual appliance initial configuration wizard.

6 Run the Appliance Manager initial configuration wizard

a In a browser, enter the IP address that you just discovered or configured. The Silver Peak Appliance Management Console login page appears.

← → C 🗅 10.0.238.71/7.2.1.0_55514/php/user_login.php 🎲 🚍
🛗 Apps 🛦 DM-GXV - Login 🛦 dmerwin-vx1000a 🛦 dmerwin-vx1000b 🧿 Tallinn - Login 🛦 laine-gxv - Login 👗 laine-yxa - Login 🔹 Cher bookmarks
A silver peak - silver peak Appliance Management Console
laine-vxa
User Name Password
Login
Login Message Check for updates every Tuesday morning.
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b For both the **User Name** and **Password**, enter **admin**. The initial configuration wizard appears.

Configuration Wizard ×								
Welcome Interfaces	License & Hos Registration DH	Stname, CP, DNS Mode	ment Tunnels to Peers	Date & Time	Change Password	Finish		
Welcome to the Silver Pea	ak Configuration Wiz	ard!						
Configuration will take ab	out 5 minutes							
 Have the following infi Hostname you wa License Password for Adm IP Address/Netma NTP addresses (if 	ormation handy: In to give the appliance in account sk and next-hop setting: applicable)	5						
2. Each step is applied b	efore moving forward	, but you can always	s reset a step, or move	e back to a previ	ous step without	applying changes.		
3. Consult the Quick Sta	rt Guide and User Ma	nual, or Contact Su	oport if you have any o	questions.				
Reset Step				<< Prev	Next >>	Done		

- c. Complete the remaining wizard screens.
- d On the last wizard screen, click **Apply**. When the virtual appliance asks permission to reboot, allow it. The Appliance Manager takes a few minutes to reboot and return to the login page.

You are now ready to start using the appliance.