Introduction

The

Use Case: Reduce Application Deployment Time

The Cisco UCS Blade Chassis system has a unique architecture that integrates compute resources, data network access, and storage network access into a common set of components under a single-pane-of-glass

Step 4: In the navigation pane, click the LAN tab, navigate to

In the navigation pane, on the Equipment tab, expand Equipment > Chassis > Chassis_Number > Servers, and then choose the server that you want to access through the KVM console.

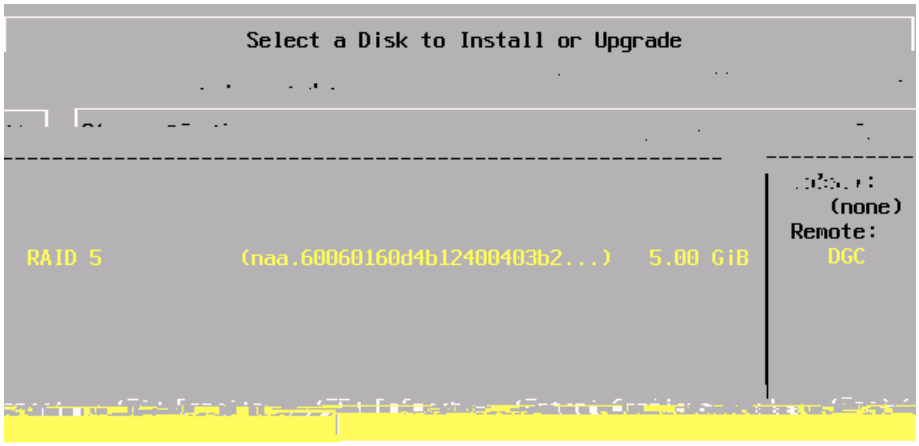
Step 3:

Step 8:

Step 11:

Procedure 2 Install vSphere Hypervisor (ESXi)

Figure 4 - Cisco UCS B-Series storage array–based LUN



If you are installing on a Cisco UCS C-Series server, you can install the ESXi on either a local disk, a USB thumb

Step 5: Enter a password for the root account, confirm the password by entering it again, and then press Enter.

Step 8: Enter the management VLAN number **163**, and then press Enter. This data center foundation design uses VLAN 163.

Step 9: On the Configuration Management Nete 0 Tw -1.1(r)-8(t6a 3.94.7(n 20 -6.8(9(c6.8(s)-13.64)3.8(t N)-864), c-0

Installing vSphere Client

1.

Step 7: Select the desired VMNIC physical interfaces to use on the new vSwitch, and then click Next. These

Step 9:

Step 4: In the Add Storage wizard, select

Step 9: On the Disk/LUN Formatting page, accept the defaults by clicking Next. This formats the maximum available space in the disk.

Step 10: Click Finish. The Add Storage wizard is completed.

Creating a Virtual Machine

1. Run the Create Virtual Machine wizard
2. Edit virtual machine settings
3.

Step 5: Select the guest operating system for the virtual machine, and then click Next.

Tech Tip

A Console tab appears in the work pane when the virtual machine is highlighted in the navigation pane. This is the same console, just in a smaller window.

Step 2: Press the Play button (green triangle).

Step 3: CliChe C Td(C)Texinhe Sct[S)(a)1.3(a).3(t d)21(o)-13.8sk 0 rg/GS0 gs/T1_0 1 Tf0.001 Tw -10.3l-2945 .042 c-

Procedure 4

Procedure 1 Install VMware vCenter Server

Step 1: Using operating-system administrative tools, add the user who will own the vCenter process. For this

Procedure 2 Create a data center

Now that vCenter is installed, you mustigs in7.5(s-0.8r)4

Step 3:

Step 2: In the Add Host Wizard, enter the name or IP address, username, and password you configured in

Step 3:

Step 3: Select

Step 7:

Step 9:

Step 13: From the computer where VUM was installed, run services.msc from a command prompt, and then click OK. This launches the Services console.

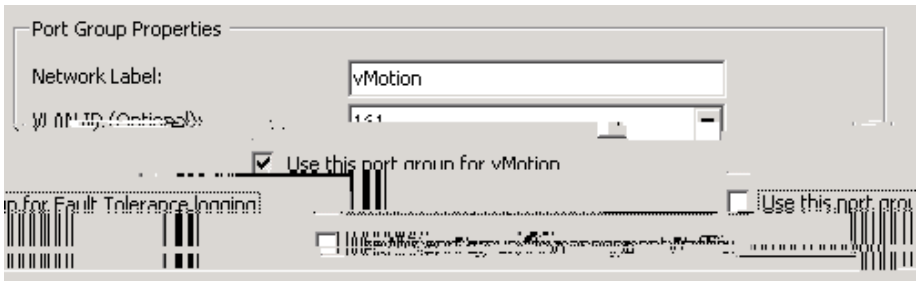
Step 14:

Step 7:

Step 2:

Procedure 2 Migrate VM to another ESXi host

Step 8: Ensure that Use this port group for vMotion is selected, and then click Next.



Step 9: Specify an IP address and subnet mask for this VMkernel interface, and then click Next

Step 15:

Step 1:

Step 7:

Step 17:

Deploymeng 0 ietails

A local AAA user database was defined during the setup of the Cisco Nexus 1000V switch in order to provide a fallback authent

Step 3:

Step 5:

Step 2: In the work pane, click the General tab, and then in the Actions pane, click Configure VMware Integration.

Step 3: In the Configure VMware Integration wizard, on the Install Plug-in on vCenter Server page, click Export. Do not click Next until you complete Step 4 through Step 11.

Caution

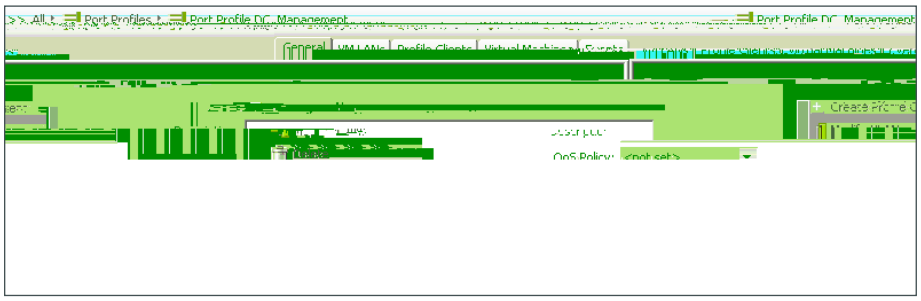
If you click Next on the Install Plug-in on vCenter Server page before completing Step 4 through Step 11, the vCenter server will be unable to establish communications with Cisco UCS Manager.

Step 11: On the message confirming that the plug-in has registered successfully with the vCenter server, click OK.

Step 12:

Step 15: In the VLANs list, for the VLAN that you want to associate to your first port profile (Example: DC_Management), select Select, and then select Native VLAN.

High-performance mode allows traffic to and from a VM to bypass the software DVS and hypervisor.

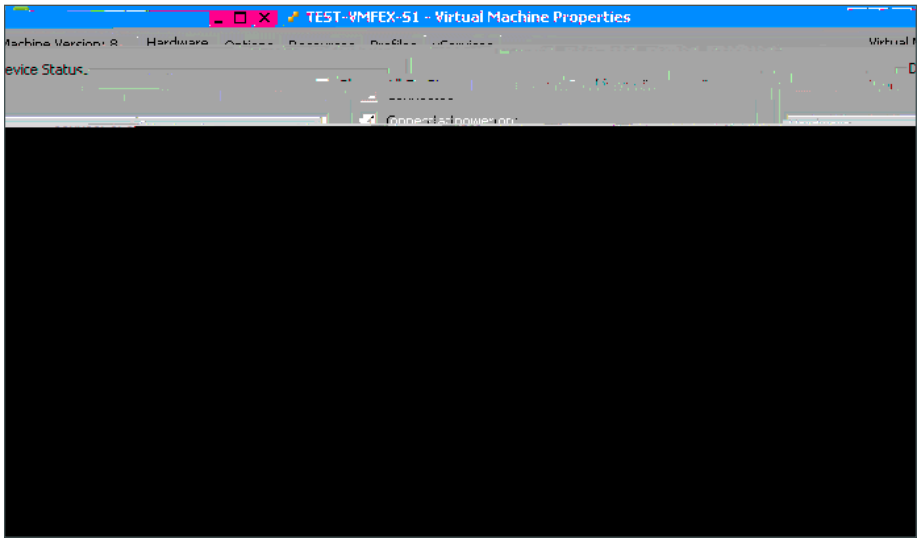


Step 20:

If you do not currently have VMs running on this host, once you have created VMs on the host you can begin at this step to assign the Cisco VM-FEX DVS for the new

Step 3: When the host has completed the Update Network Configuration task, navigate to Inventory > Hosts

Step 3:



This concludes the “Cisco Virtual Machine Fabric Extender (VM-FEX) Configuration and Deployment” section.

Summary

Appendix A: Product List

```
  vmware vm mac C464.1339.22B0

interface Ethernet3/1
  inherit port-profile ESXi-Mgmnt-Uplink

interface Ethernet3/3
  inherit port-profile 10G_CSeries

interface Ethernet3/4
  inherit port-profile 10G_CSeries

interface Ethernet4/1
  inherit port-profile System-Uplink

interface Ethernet4/2
  inherit port-profile System-Uplink

interface control0
clock timezone PST -8 0
```

Appendix C: Changes

This appendix summarizes the changes Cisco made to this guide since its last edition.

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Please use the