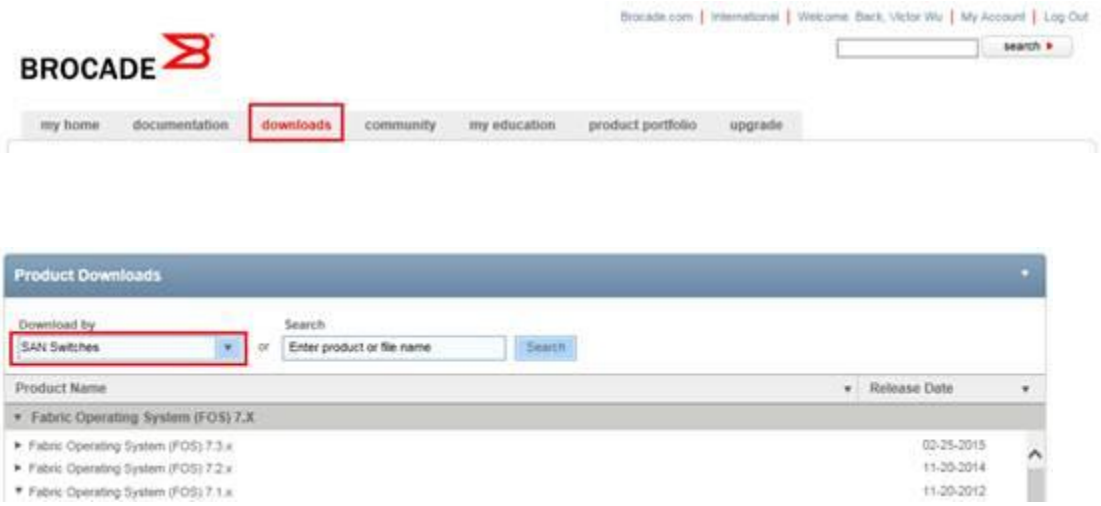
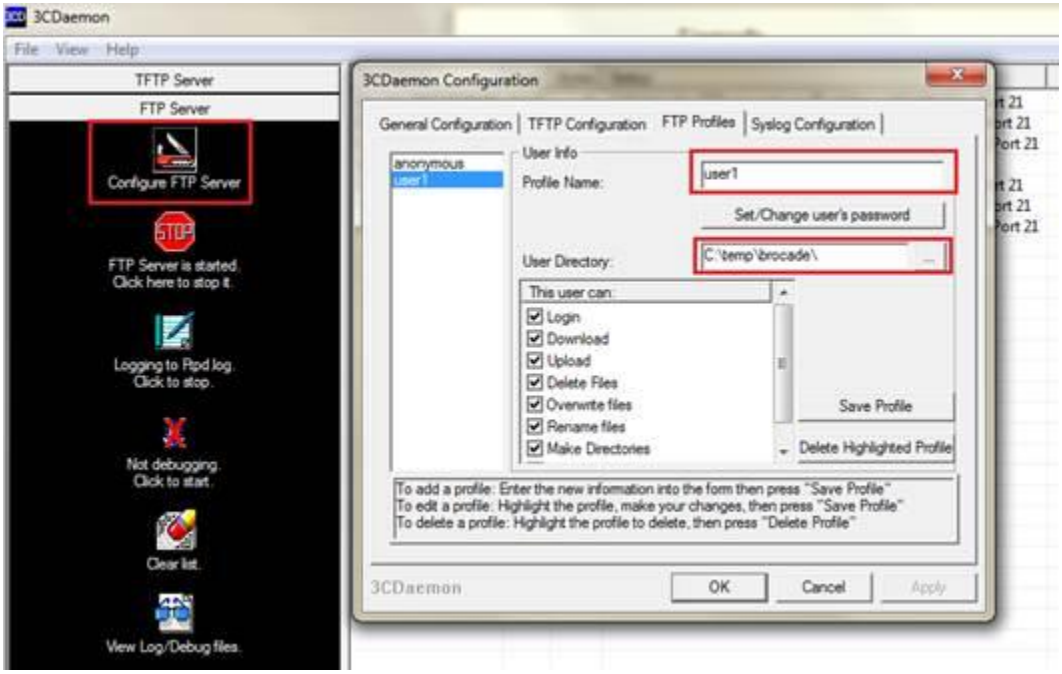
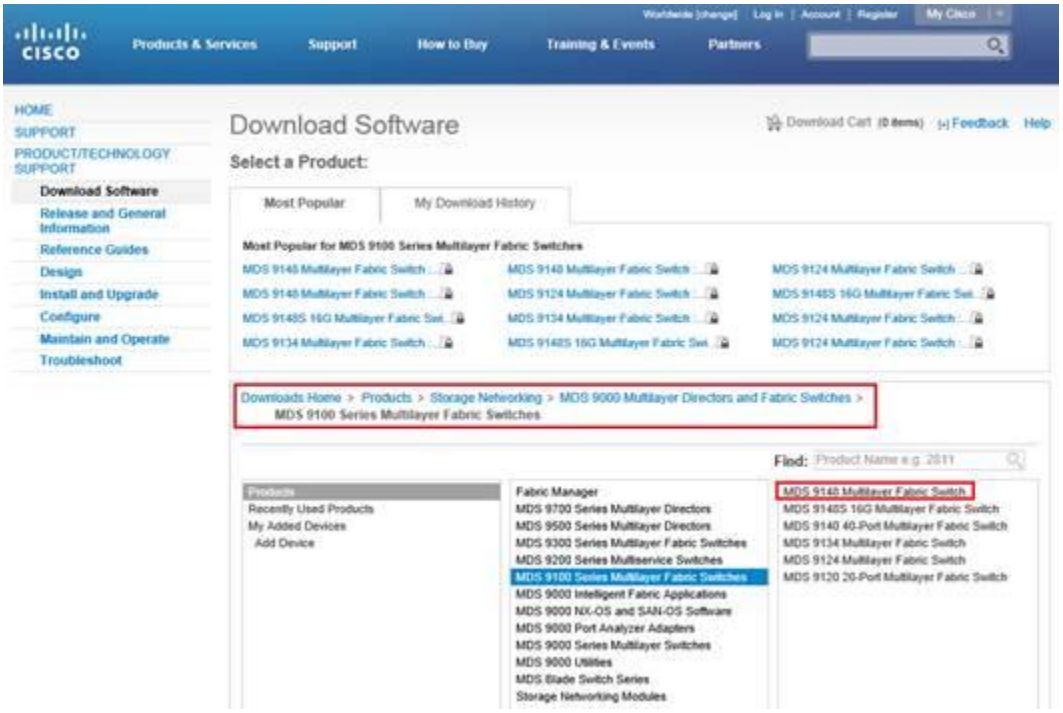
Chapter 1: Cisco UCS to SAN Connectivity

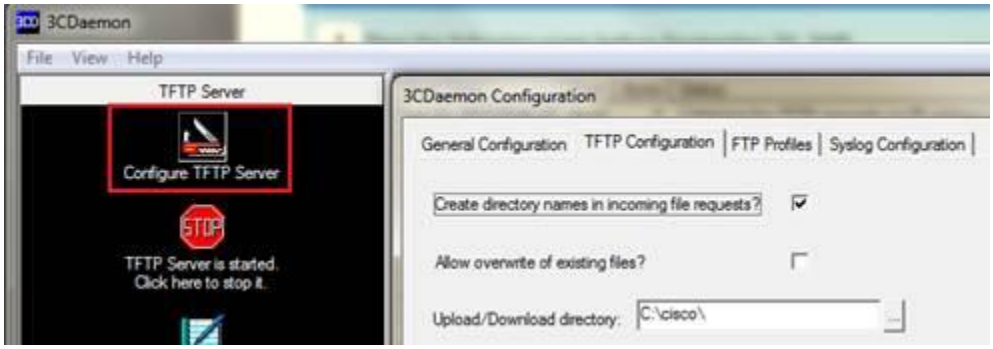


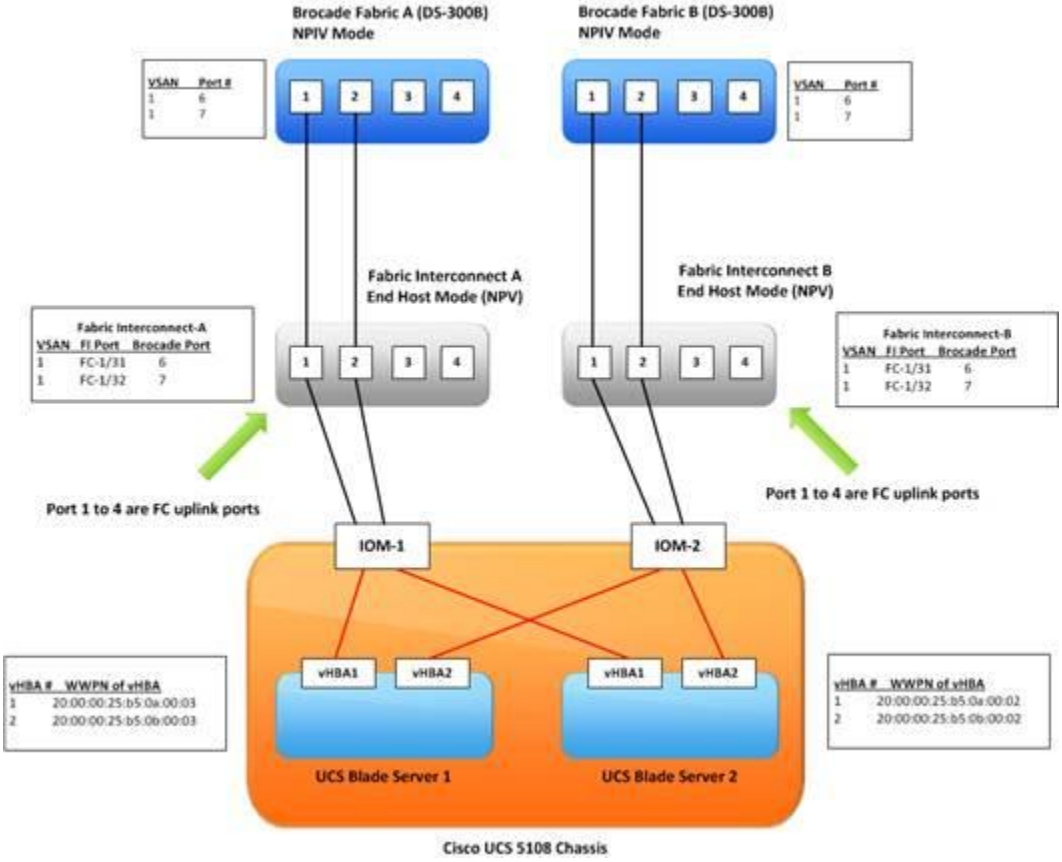



```
DS300B01:admin> firmwaredownloadstatus
[1]: Fri Jan 10 09:32:47 2014
Firmware is being downloaded to the switch. This step may take up to 30 minutes.

[2]: Fri Jan 10 09:36:51 2014
Firmware has been downloaded to the secondary partition of the switch.

[3]: Fri Jan 10 09:38:24 2014
The firmware commit operation has started. This may take up to 10 minutes.

[4]: Fri Jan 10 09:41:06 2014
The commit operation has completed successfully.

[5]: Fri Jan 10 09:41:06 2014
Firmwaredownload command has completed successfully. Use firmwareshow to verify
the firmware versions.
```


Products & Services
Support
How to Buy
Training & Events
Partners
HOME
SUPPORT
PRODUCT/TECHNOLOGY SUPPORT
Download Software
Release and General Information
Reference Guides
Design
Install and Upgrade
Configure
Maintain and Operate
Troubleshoot
Download Software
Download Cart (0 items)
Feedback
Help
Select a Product:
Most Popular
My Download History
Most Popular for MDS 9100 Series Multilayer Fabric Switches
MDS 9148 Multilayer Fabric Switch
MDS 9148 Multilayer Fabric Switch
MDS 9148S 16G Multilayer Fabric Swi
MDS 9134 Multilayer Fabric Switch
MDS 9148 Multilayer Fabric Switch
MDS 9124 Multilayer Fabric Switch
MDS 9148S 16G Multilayer Fabric Swi
MDS 9124 Multilayer Fabric Switch
MDS 9148S 16G Multilayer Fabric Swi
MDS 9124 Multilayer Fabric Switch
Downloads Home > Products > Storage Networking > MDS 9000 Multilayer Directors and Fabric Switches > MDS 9100 Series Multilayer Fabric Switches
Find: Product Name e.g. 2811
Products
Recently Used Products
My Added Devices
Add Device
Fabric Manager
MDS 9700 Series Multilayer Directors
MDS 9500 Series Multilayer Directors
MDS 9300 Series Multilayer Fabric Switches
MDS 9200 Series Multiservice Switches
MDS 9100 Series Multilayer Fabric Switches
MDS 9000 Intelligent Fabric Applications
MDS 9000 NX-OS and SAN-OS Software
MDS 9000 Port Analyzer Adapters
MDS 9000 Series Multilayer Switches
MDS 9000 Utilities
MDS Blade Switch Series
Storage Networking Modules
MDS 9148 Multilayer Fabric Switch
MDS 9148S 16G Multilayer Fabric Switch
MDS 9140 40-Port Multilayer Fabric Switch
MDS 9134 Multilayer Fabric Switch
MDS 9124 Multilayer Fabric Switch
MDS 9120 20-Port Multilayer Fabric Switch

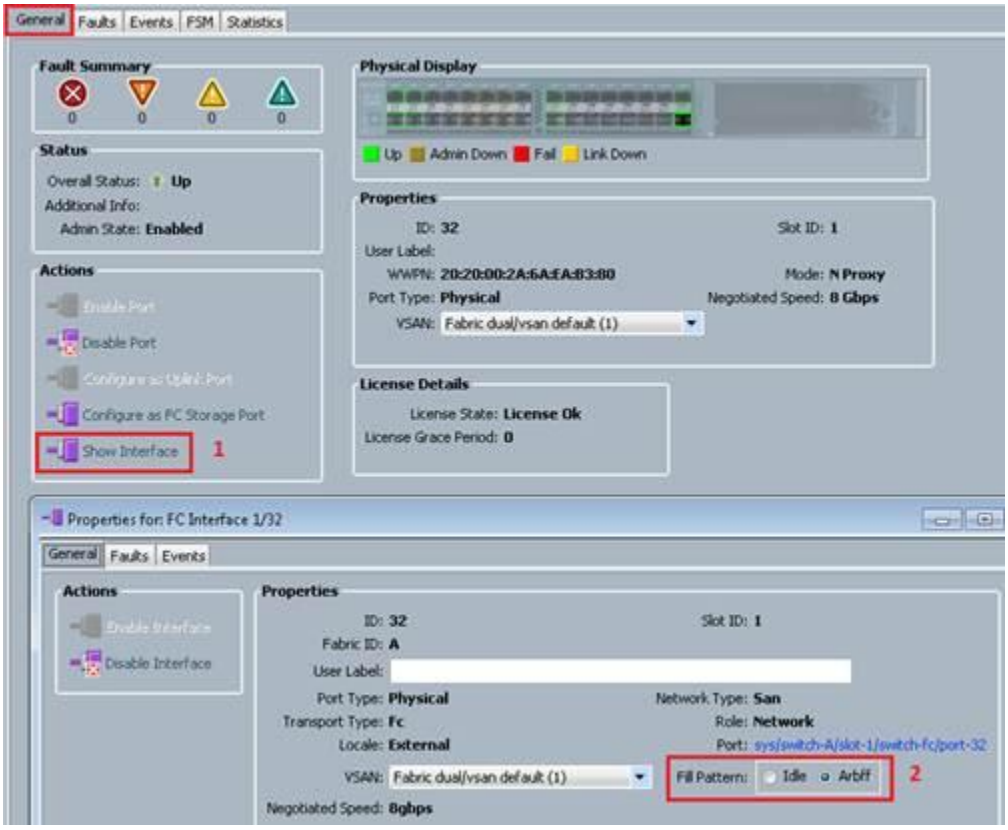
Select a Software Type:
Data Center Network Manager
NX-OS EPLD Updates
NX-OS Kick Start
NX-OS System Software
Payload Non-Crypto NX-OS Kick Start
Payload Non-Crypto NX-OS System Software


3CDaemon
File View Help
TFTP Server
Configure TFTP Server
STOP
TFTP Server is started.
Click here to stop it.
3CDaemon Configuration
General Configuration
TFTP Configuration
FTP Profiles
Syslog Configuration
Create directory names in incoming file requests?
Allow overwrite of existing files?
Upload/Download directory:
C:\cisco\

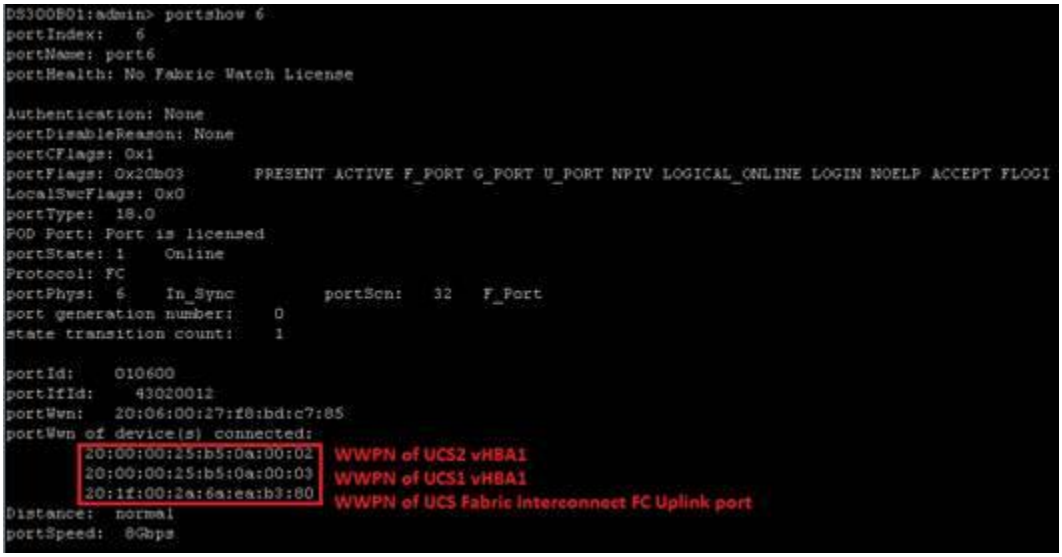

Brocade Fabric A (DS-300B)
NPIV Mode
Brocade Fabric B (DS-300B)
NPIV Mode
VSAN Port #
1 6
1 7
Fabric Interconnect A
End Host Mode (NPV)
Fabric Interconnect B
End Host Mode (NPV)
Fabric Interconnect-A
VSAN FI Port Brocade Port
1 FC-1/31 6
1 FC-1/32 7
Fabric Interconnect-B
VSAN FI Port Brocade Port
1 FC-1/31 6
1 FC-1/32 7
Port 1 to 4 are FC uplink ports
Port 1 to 4 are FC uplink ports
IOM-1
IOM-2
vHBA1
vHBA2
vHBA1
vHBA2
vHBA # WWPN of vHBA
1 20:00:00:25:b5:0a:00:03
2 20:00:00:25:b5:0b:00:03
vHBA # WWPN of vHBA
1 20:00:00:25:b5:0a:00:02
2 20:00:00:25:b5:0b:00:02
UCS Blade Server 1
UCS Blade Server 2
Cisco UCS 5108 Chassis

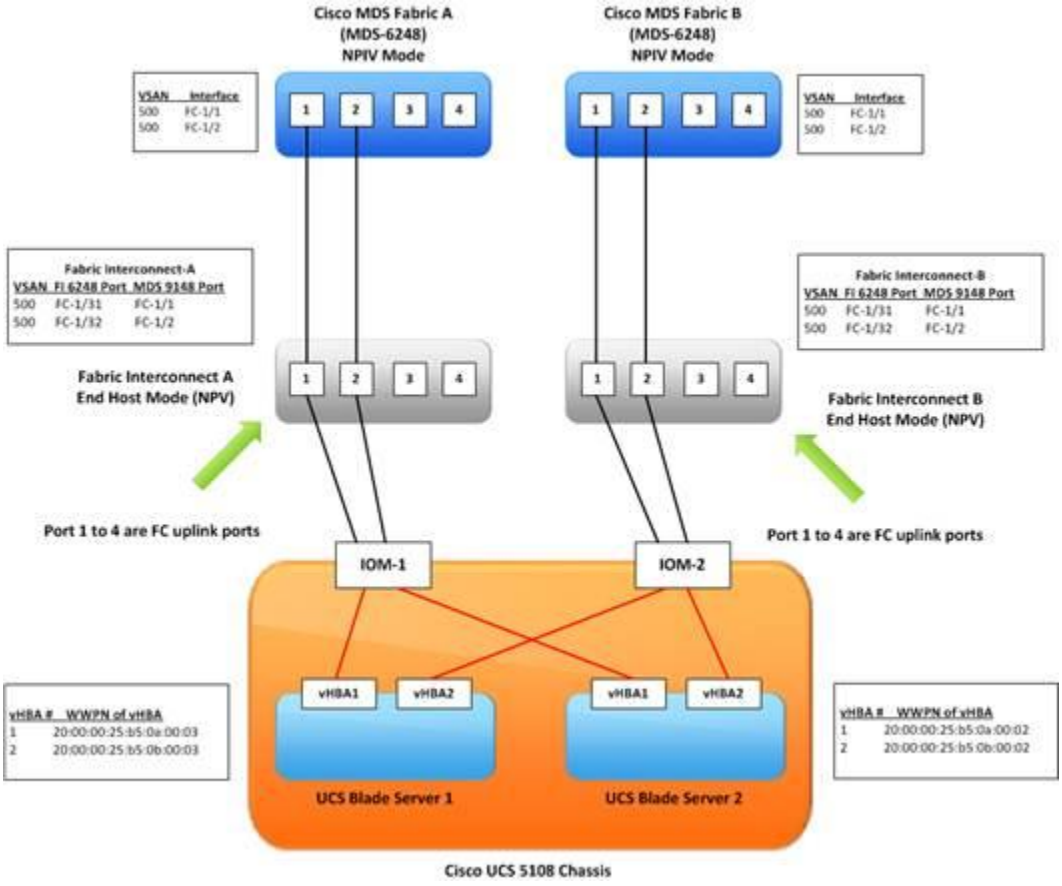
```
DS300B01:admin> portcfgshow

Ports of Slot 0         0   1   2   3     4   5   6   7     8   9  10  11    12  13  14  15
-----------------------+---+---+---+-----+---+---+---+-----+---+---+---+-----+---+---+---
Speed                  AN  AN  AN  4G    AN  AN  8G  8G    4G  AN  AN  AN    AN  AN  AN  AN
Fill Word(On Active)    3   3   3   3     3   3   3   3     3   3   3   3     3   3   3   3
Fill Word(Current)      3   3   3   3     3   3   3   3     3   3   3   3     3   3   3   3
AL_PA Offset 13         ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..
Trunk Port              ON  ON  ON  ON    ON  ON  ON  ON    ON  ON  ON  ON    ON  ON  ON  ON
Long Distance           ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..
VC Link Init            ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..
Locked L_Port           ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..
Locked G_Port           ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..
Disabled E_Port         ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..
Locked E_Port           ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..
ISL R_RDY Mode          ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..
RSCN Suppressed         ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..
Persistent Disable      ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..
LOS TOV enable          ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..    ..  ..  ..  ..
NPIV capability         ON  ON  ON  ON    ON  ON  ON  ON    ON  ON  ON  ON    ON  ON  ON  ON
NPIV PP Limit          255 255 255 255   255 255 255 255   255 255 255 255   255 255 255 255
QOS E_Port              AE  AE  AE  AE    AE  AE  AE  AE    AE  AE  AE  AE    AE  AE  AE  AE
```

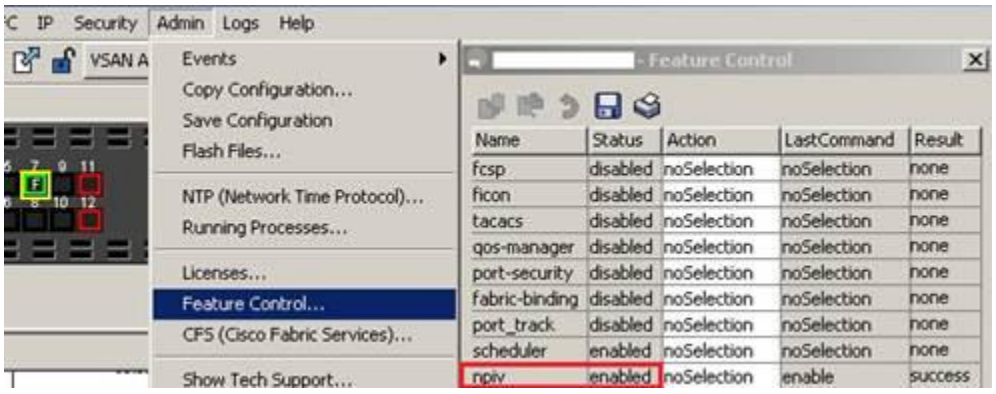
```
DS300B01:admin> portcfgshow 6
Area Number:                6
Speed Level:                AUTO(HW)
Fill Word(On Active)        2(SW Idle-Arbff)
Fill Word(Current)          2(SW Idle-Arbff)
AL_PA Offset 13:            OFF
```

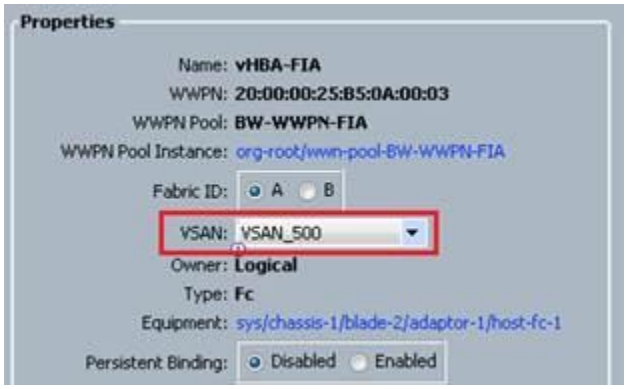



```
Index Port Address Media Speed State     Proto
==============================================
   0   0   010000   id     N4   Online      FC  F-Port  50:06:01:64:47:20:25:eb
   1   1   010100   id     N8   Online      FC  F-Port  20:11:00:02:ac:00:8e:5b
   2   2   010200   id     N8   No_Light    FC
   3   3   010300   id     4G   Online      FC  F-Port  50:06:01:6d:47:20:25:eb
   4   4   010400   id     N8   No_Light    FC
   5   5   010500   id     N8   Online      FC  F-Port  21:11:00:02:ac:00:8e:5b
   6   6   010600   id     8G   Online      FC  F-Port  1 N Port + 2 NPIV public

   7   7   010700   id     8G   Online      FC  F-Port  1 N Port + 2 NPIV public

   8   8   010800   --     4G   No_Module   FC  (No POD License) Disabled
   9   9   010900   --     N8   No_Module   FC  (No POD License) Disabled
```

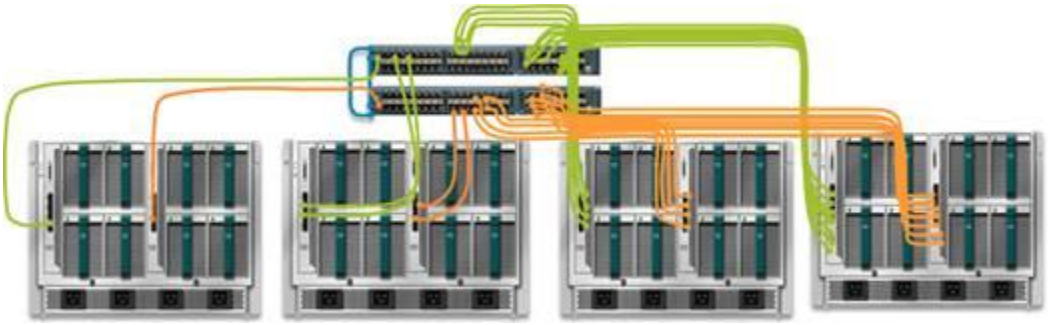

DS300B01:admin> portshow 6
portIndex: 6
portName: port6
portHealth: No Fabric Watch License
Authentication: None
portDisableReason: None
portCFlags: 0x1
portFlags: 0x20b03 PRESENT ACTIVE F_PORT G_PORT U_PORT NPIV LOGICAL_ONLINE LOGIN NOELP ACCEPT FLOGI
LocalSwcFlags: 0x0
portType: 18.0
POD Port: Port is licensed
portState: 1 Online
Protocol: FC
portPhys: 6 In_Sync portScn: 32 F_Port
port generation number: 0
state transition count: 1
portId: 010600
portIfId: 43020012
portWwn: 20:06:00:27:f8:bd:c7:85
portWwn of device(s) connected:
20:00:00:25:b5:0a:00:02
20:00:00:25:b5:0a:00:03
20:1f:00:2a:6a:ea:b3:80
WWPN of UCS2 vHBA1
WWPN of UCS1 vHBA1
WWPN of UCS Fabric Interconnect FC Uplink port
Distance: normal
portSpeed: 8Gbps


Cisco MDS Fabric A
(MDS-6248)
NPIV Mode
Cisco MDS Fabric B
(MDS-6248)
NPIV Mode
VSAN Interface
500 FC-1/1
500 FC-1/2
VSAN Interface
500 FC-1/1
500 FC-1/2
Fabric Interconnect-A
VSAN FI 6248 Port MDS 9148 Port
500 FC-1/31 FC-1/1
500 FC-1/32 FC-1/2
Fabric Interconnect-B
VSAN FI 6248 Port MDS 9148 Port
500 FC-1/31 FC-1/1
500 FC-1/32 FC-1/2
Fabric Interconnect A
End Host Mode (NPV)
Fabric Interconnect B
End Host Mode (NPV)
Port 1 to 4 are FC uplink ports
Port 1 to 4 are FC uplink ports
IOM-1
IOM-2
vHBA1
vHBA2
vHBA1
vHBA2
vHBA # WWPN of vHBA
1 20:00:00:25:b5:0a:00:03
2 20:00:00:25:b5:0b:00:03
vHBA # WWPN of vHBA
1 20:00:00:25:b5:0a:00:02
2 20:00:00:25:b5:0b:00:02
UCS Blade Server 1
UCS Blade Server 2
Cisco UCS 5108 Chassis

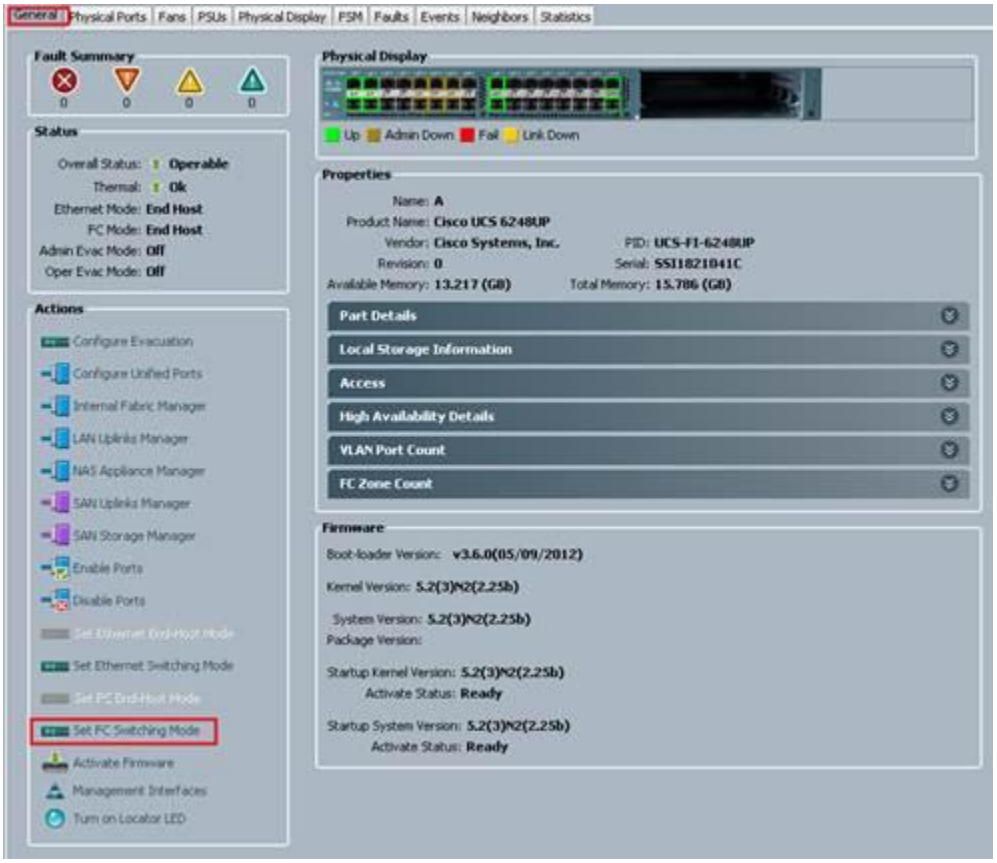

IP Security Admin Logs Help
VSAN A
Events
Copy Configuration...
Save Configuration
Flash Files...
NTP (Network Time Protocol)...
Running Processes...
Licenses...
Feature Control...
CFS (Cisco Fabric Services)...
Show Tech Support...
Feature Control
Name Status Action LastCommand Result
fcsp disabled noSelection noSelection none
ficon disabled noSelection noSelection none
tacacs disabled noSelection noSelection none
qos-manager disabled noSelection noSelection none
port-security disabled noSelection noSelection none
fabric-binding disabled noSelection noSelection none
port_track disabled noSelection noSelection none
scheduler enabled noSelection noSelection none
npiv enabled noSelection enable success

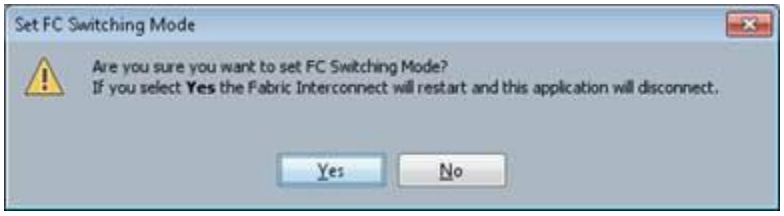


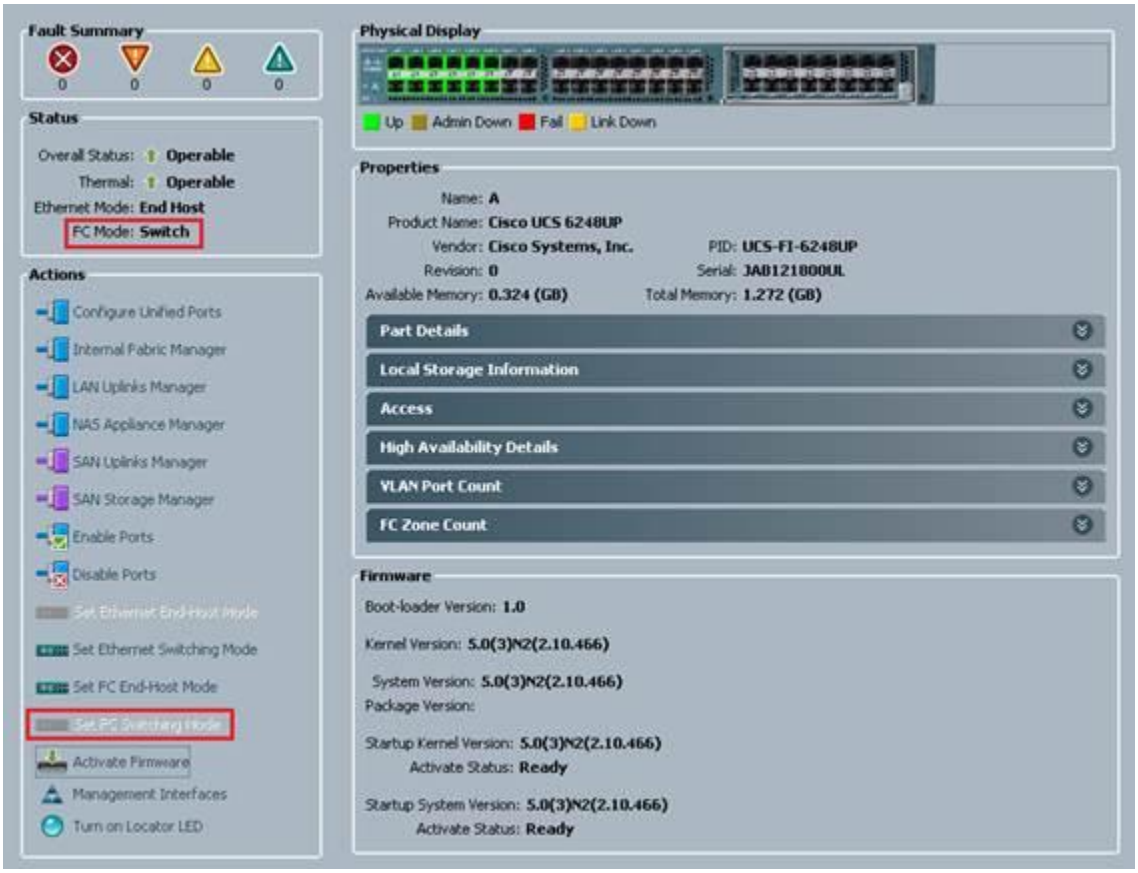

```
BW-UCS-A(nxos)# show npv flogi-table
--------------------------------------------------------------------------------
SERVER                                                                  EXTERNAL
INTERFACE VSAN FCID            PORT NAME               NODE NAME        INTERFAC
E
--------------------------------------------------------------------------------
vfc974    500  0x010601 20:00:00:25:b5:0a:00:03 20:00:00:25:b5:00:00:03 fc1/31 WWPN of UCS1 vHBA1
vfc990    500  0x010701 20:00:00:25:b5:0a:00:00 20:00:00:25:b5:00:00:00 fc1/32
vfc996    500  0x010707 20:00:00:25:b5:0a:00:01 20:00:00:25:b5:00:00:01 fc1/32
vfc1034   500  0x010607 20:00:00:25:b5:0a:00:02 20:00:00:25:b5:00:00:02 fc1/31 WWPN of UCS2 vHBA1

Total number of flogi = 4.

BW-UCS-A(nxos)#
```

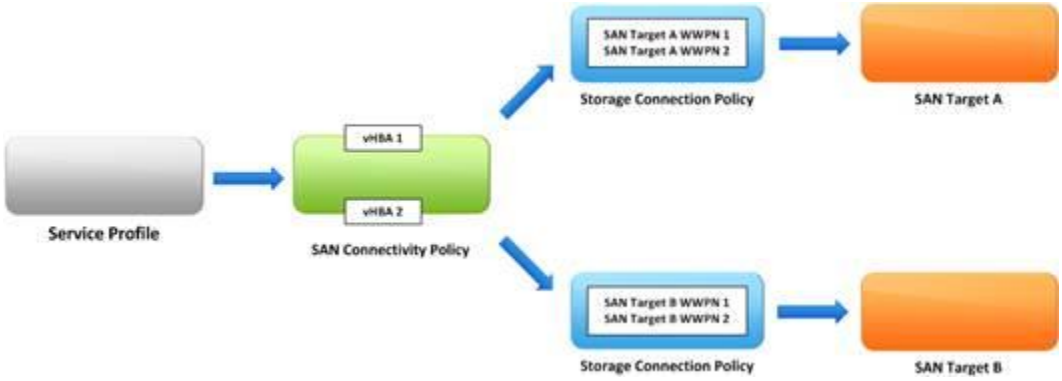


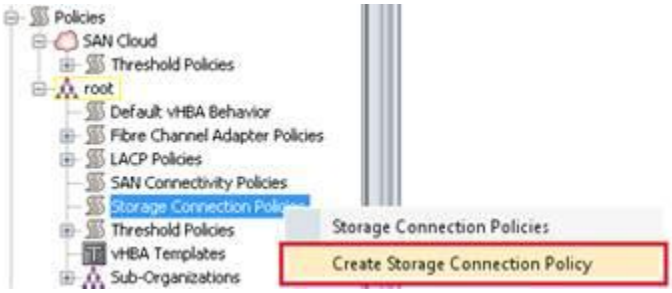
Cisco Unified Computing System Manager - BW-UCS
Fault Summary
Equipment
Servers
Filter: All
Equipment
Chassis
Rack-Mounts
FEX
Servers
Fabric Interconnects
Fabric Interconnect A (primary)
Fabric Interconnect B (subordinate)
New
Options
Exit
Equipment > Fabric Interconnects > Fabric Interconnect A (primary)
General
Physical Ports
Fans
PSUs
Physical Display
FSM
Faults
Events
Neighbors
Statistics
Fault Summary
Status
Overall Status: Operable
Thermal: Ok
Ethernet Mode: End Host
FC Mode: End Host
Admin Evac Mode: Off
Oper Evac Mode: Off
Physical Display
Up
Admin Down
Fail
Link Down
Properties
Name: A
Product Name: Cisco UCS 6248UP
Vendor: Cisco Systems, Inc.
PID: UCS-FI-6248UP
Revision: 0
Serial: SSI11821041C
Available Memory: 13.217 (GB)
Total Memory: 15.706 (GB)


General
Physical Ports
Fans
PSUs
Physical Display
FSM
Faults
Events
Neighbors
Statistics
Fault Summary
Status
Overall Status: Operable
Thermal: Ok
Ethernet Mode: End Host
FC Mode: End Host
Admin Evac Mode: Off
Oper Evac Mode: Off
Actions
Configure Evacuation
Configure Unified Ports
Internal Fabric Manager
LAN Uplinks Manager
NAS Appliance Manager
SAN Uplinks Manager
SAN Storage Manager
Enable Ports
Disable Ports
Set Ethernet Switching Mode
Set FC Switching Mode
Activate Firmware
Management Interfaces
Turn on Locator LED
Physical Display
Up
Admin Down
Fail
Link Down
Properties
Name: A
Product Name: Cisco UCS 6248UP
Vendor: Cisco Systems, Inc.
PID: UCS-FI-6248UP
Revision: 0
Serial: SSI11821041C
Available Memory: 13.217 (GB)
Total Memory: 15.706 (GB)
Part Details
Local Storage Information
Access
High Availability Details
VLAN Port Count
FC Zone Count
Firmware
Boot-loader Version: v3.6.0(05/09/2012)
Kernel Version: 5.2(3)N2(2.25b)
System Version: 5.2(3)N2(2.25b)
Package Version:
Startup Kernel Version: 5.2(3)N2(2.25b)
Activate Status: Ready
Startup System Version: 5.2(3)N2(2.25b)
Activate Status: Ready


Set FC Switching Mode
Are you sure you want to set FC Switching Mode?
If you select Yes the Fabric Interconnect will restart and this application will disconnect.
Yes
No

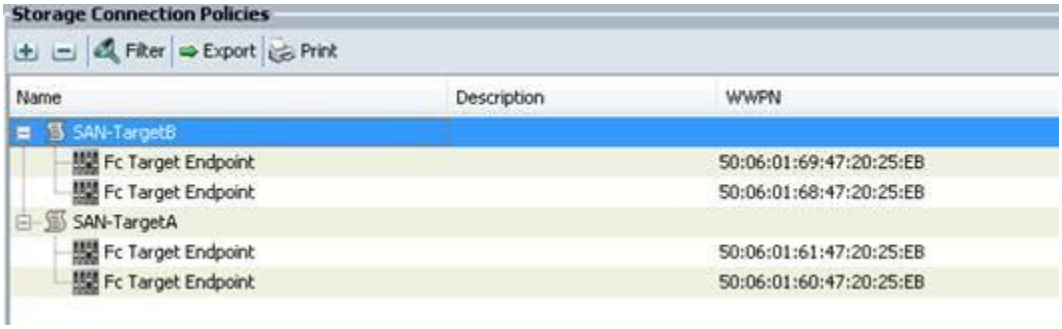

Fault Summary
0 0 0 0
Status
Overall Status: Operable
Thermal: Operable
Ethernet Mode: End Host
FC Mode: Switch
Actions
Configure Unified Ports
Internal Fabric Manager
LAN Uplinks Manager
NAS Appliance Manager
SAN Uplinks Manager
SAN Storage Manager
Enable Ports
Disable Ports
Set Ethernet End-Host Mode
Set Ethernet Switching Mode
Set FC End-Host Mode
Set FC Switching Mode
Activate Firmware
Management Interfaces
Turn on Locator LED
Physical Display
Up Admin Down Fail Link Down
Properties
Name: A
Product Name: Cisco UCS 6248UP
Vendor: Cisco Systems, Inc.
PID: UCS-FI-6248UP
Revision: 0
Serial: JAB1218000UL
Available Memory: 0.324 (GB)
Total Memory: 1.272 (GB)
Part Details
Local Storage Information
Access
High Availability Details
VLAN Port Count
FC Zone Count
Firmware
Boot-loader Version: 1.0
Kernel Version: 5.0(3)N2(2.10.466)
System Version: 5.0(3)N2(2.10.466)
Package Version:
Startup Kernel Version: 5.0(3)N2(2.10.466)
Activate Status: Ready
Startup System Version: 5.0(3)N2(2.10.466)
Activate Status: Ready

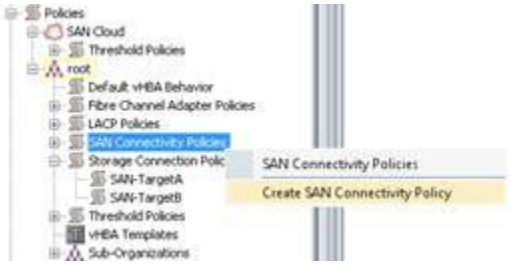

SAN Target A WWPN 1
SAN Target A WWPN 2
Storage Connection Policy
SAN Target A
vHBA 1
vHBA 2
Service Profile
SAN Connectivity Policy
SAN Target B WWPN 1
SAN Target B WWPN 2
Storage Connection Policy
SAN Target B

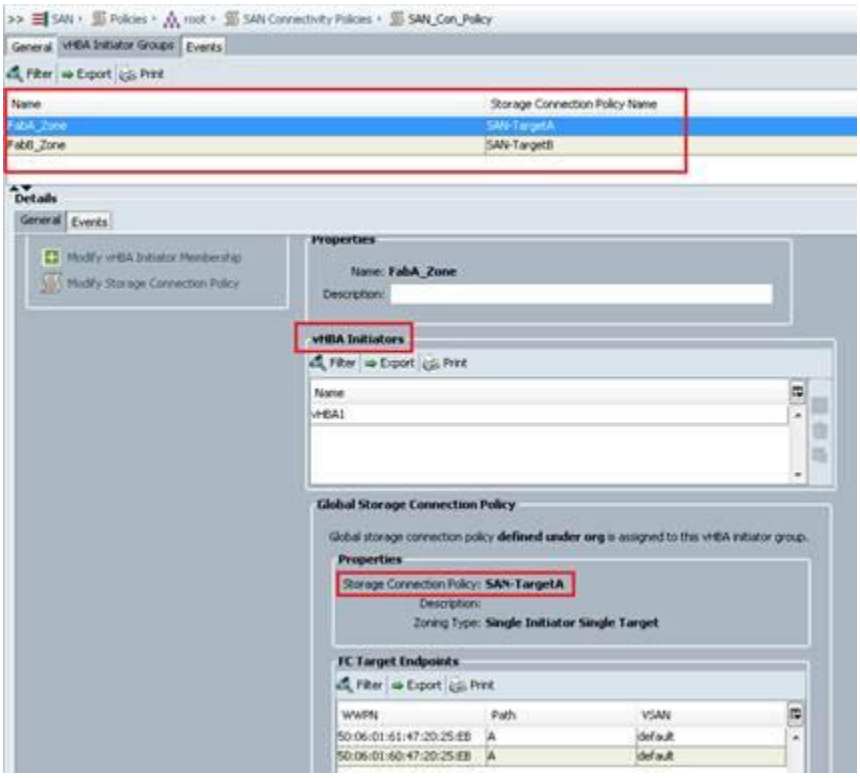

Policies
SAN Cloud
Threshold Policies
root
Default vHBA Behavior
Fibre Channel Adapter Policies
LACP Policies
SAN Connectivity Policies
Storage Connection Policies
Threshold Policies
vHBA Templates
Sub-Organizations
Storage Connection Policies
Create Storage Connection Policy

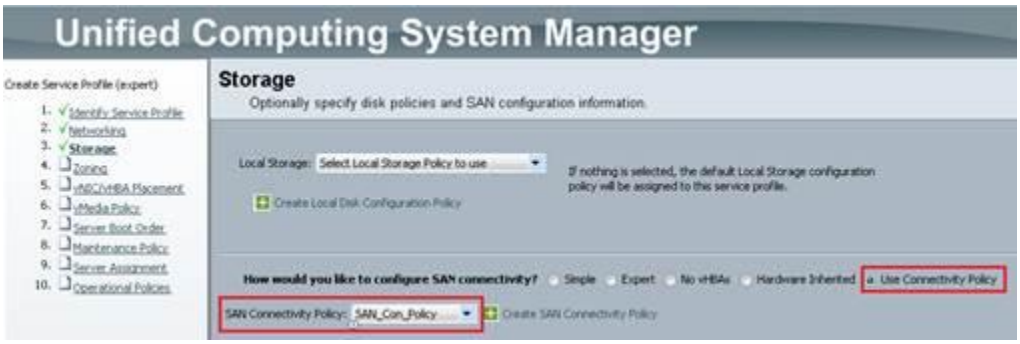
Create Storage Connection Policy
Name:
Description:
Zoning Type:
None
Single Initiator Single Target
Single Initiator Multiple Targets
FC Target Endpoints
Filter
Export
Print
WWPN
Path
VSAN
00:00:00:00:00:00:00:00
A
default
OK
Cancel

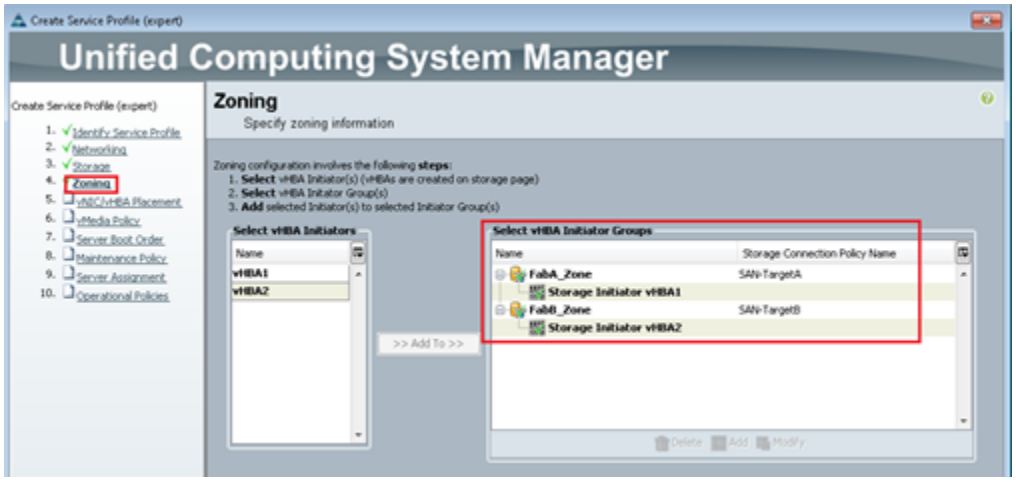
Create FC Target Endpoint
WWPN
00:00:00:00:00:00:00:00
Description:
Path:
A
B
Select VSAN:
VSAN default (1)
Create VSAN
OK
Cancel

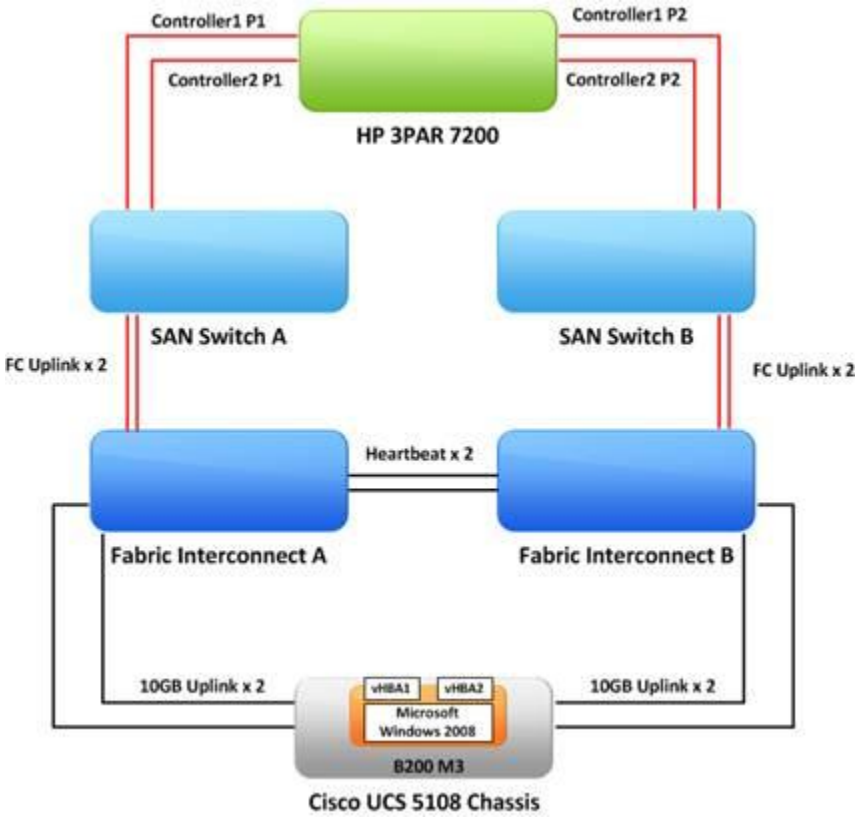

Storage Connection Policies
Filter
Export
Print
Name
Description
WWPN
SAN-TargetB
Fc Target Endpoint
50:06:01:69:47:20:25:EB
Fc Target Endpoint
50:06:01:68:47:20:25:EB
SAN-TargetA
Fc Target Endpoint
50:06:01:61:47:20:25:EB
Fc Target Endpoint
50:06:01:60:47:20:25:EB


Policies
SAN Cloud
Threshold Policies
root
Default vHBA Behavior
Fibre Channel Adapter Policies
LACP Policies
SAN Connectivity Policies
Storage Connection Polic
SAN-TargetA
SAN-TargetB
Threshold Policies
vHBA Templates
Sub-Organizations
SAN Connectivity Policies
Create SAN Connectivity Policy

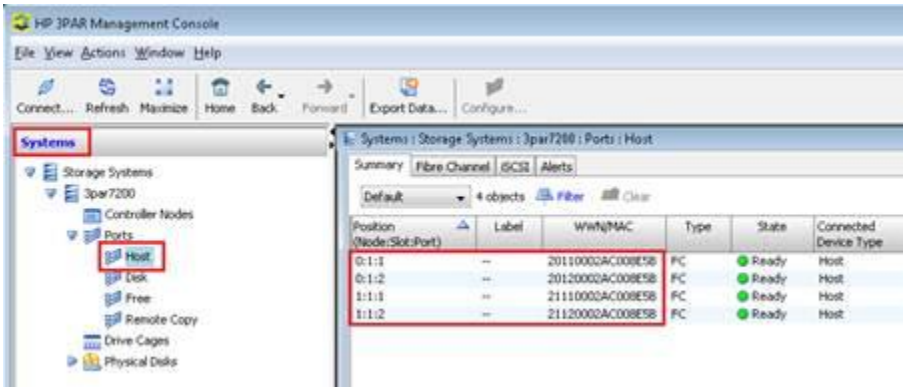

SAN
Policies
root
SAN Connectivity Policies
SAN_Con_Policy
General
vHBA Initiator Groups
Events
Filter
Export
Print
Name
Storage Connection Policy Name
FabA_Zone
SAN-TargetA
FabB_Zone
SAN-TargetB
Details
General
Events
Modify vHBA Initiator Membership
Modify Storage Connection Policy
Properties
Name: FabA_Zone
Description:
vHBA Initiators
Filter
Export
Print
Name
vHBA1
Global Storage Connection Policy
Global storage connection policy defined under org is assigned to this vHBA initiator group.
Properties
Storage Connection Policy: SAN-TargetA
Description:
Zoning Type: Single Initiator Single Target
FC Target Endpoints
Filter
Export
Print
WWPN
Path
VSAN
50:06:01:61:47:20:25:EB
A
default
50:06:01:60:47:20:25:EB
A
default

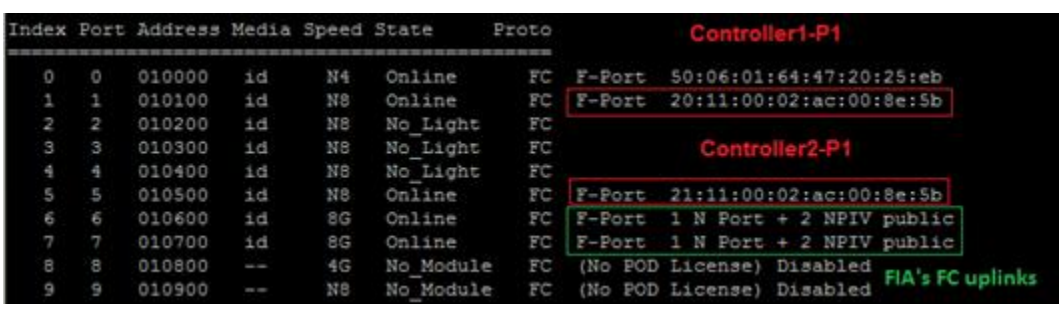

Unified Computing System Manager
Create Service Profile (expert)
1. Identify Service Profile
2. Networking
3. Storage
4. Zoning
5. vNIC/vHBA Placement
6. vMedia Policy
7. Server Boot Order
8. Maintenance Policy
9. Server Assignment
10. Operational Policies
Storage
Optionally specify disk policies and SAN configuration information.
Local Storage: Select Local Storage Policy to use
Create Local Disk Configuration Policy
If nothing is selected, the default Local Storage configuration policy will be assigned to this service profile.
How would you like to configure SAN connectivity? Simple Expert No vHBAs Hardware Inherited Use Connectivity Policy
SAN Connectivity Policy: SAN_Con_Policy
Create SAN Connectivity Policy


Create Service Profile (expert)
Unified Computing System Manager
Create Service Profile (expert)
1. Identify Service Profile
2. Networking
3. Storage
4. Zoning
5. vNIC/vHBA Placement
6. vMedia Policy
7. Server Boot Order
8. Maintenance Policy
9. Server Assignment
10. Operational Policies
Zoning
Specify zoning information
Zoning configuration involves the following steps:
1. Select vHBA Initiator(s) (vHBAs are created on storage page)
2. Select vHBA Initator Group(s)
3. Add selected Initiator(s) to selected Initiator Group(s)
Select vHBA Initiators
Name
vHBA1
vHBA2
>> Add To >>
Select vHBA Initiator Groups
Name
Storage Connection Policy Name
FabA_Zone
SAN-TargetA
Storage Initiator vHBA1
FabB_Zone
SAN-TargetB
Storage Initiator vHBA2
Delete
Add
Modify


Controller1 P1
Controller1 P2
Controller2 P1
Controller2 P2
HP 3PAR 7200
SAN Switch A
SAN Switch B
FC Uplink x 2
FC Uplink x 2
Heartbeat x 2
Fabric Interconnect A
Fabric Interconnect B
10GB Uplink x 2
10GB Uplink x 2
vHBA1
vHBA2
Microsoft Windows 2008
B200 M3
Cisco UCS 5108 Chassis

General
Storage
Network
iSCSI vNICs
Boot Order
Virtual Machines
FC Zones
Policies
Server Details
CIMC Sessions
FSM
VIF Paths
Faults
Events
vMedia Policy
vHBAs
vHBA Initiator Groups
LUN Configuration
Actions
Change World Wide Node Name
Change Local Disk Configuration Policy
Modify vNIC/vHBA Placement
Reset WWNN Address
World Wide Node Name
World Wide Node Name: 20:00:00:25:B5:00:00:00
WWNN Pool: BW-WWNN-Pools
WWNN Pool Instance: org-root/wwn-pool-BW-WWNN-Pools
Local Disk Configuration Policy
Local Disk Policy: default
Local Disk Policy Instance: org-root/local-disk-config-default
SAN Connectivity Policy
SAN Connectivity Policy: <not set>
SAN Connectivity Policy Instance:
Create SAN Connectivity Policy
vHBAs
Filter
Export
Print
Name
WWPN
Desired Order
Actual Order
Fabric ID
Desired Placement
Actual Placement
vHBA vHBA-FIA
20:00:00:25:B5:0A:00:00
1
7
A
1
1
vHBA vHBA-FIB
20:00:00:25:B5:0B:00:01
1
8
B
3
3


HP 3PAR Management Console
File View Actions Window Help
Connect...
Refresh
Maximize
Home
Back
Forward
Export Data...
Configure...
Systems
Storage Systems
3par7200
Controller Nodes
Ports
Host
Disk
Free
Remote Copy
Drive Cages
Physical Disks
Systems : Storage Systems : 3par7200 : Ports : Host
Summary
Fibre Channel
iSCSI
Alerts
Default
4 objects
Filter
Clear
Position (Node:Slot:Port)
Label
WWN/MAC
Type
State
Connected Device Type
0:1:1
20110002AC008E5B
FC
Ready
Host
0:1:2
20120002AC008E5B
FC
Ready
Host
1:1:1
21110002AC008E5B
FC
Ready
Host
1:1:2
21120002AC008E5B
FC
Ready
Host


Index Port Address Media Speed State Proto
0 0 010000 id N4 Online FC F-Port 50:06:01:64:47:20:25:eb
1 1 010100 id N8 Online FC F-Port 20:11:00:02:ac:00:8e:5b
2 2 010200 id N8 No_Light FC
3 3 010300 id N8 No_Light FC
4 4 010400 id N8 No_Light FC
5 5 010500 id N8 Online FC F-Port 21:11:00:02:ac:00:8e:5b
6 6 010600 id 8G Online FC F-Port 1 N Port + 2 NPIV public
7 7 010700 id 8G Online FC F-Port 1 N Port + 2 NPIV public
8 8 010800 -- 4G No_Module FC (No POD License) Disabled
9 9 010900 -- N8 No_Module FC (No POD License) Disabled
Controller1-P1
Controller2-P1
FIA's FC uplinks

```
DS300B01:admin> portloginshow 7
Type  PID     World Wide Name         credit df_sz cos
=========================================================
  fe  010707 20:00:00:25:b5:0a:00:01    16  2112   8  scr=0x3
  fe  010701 20:00:00:25:b5:0a:00:00    16  2112   8  scr=0x3
  fe  010700 20:20:00:2a:6a:ea:b3:80    16  2112   8  scr=0x0
  ff  010707  20:00:00:25:b5:0a:00:01     0     0   8  d_id=FFFFFC
  ff  010701  20:00:00:25:b5:0a:00:00     0     0   8  d_id=FFFFFC
  ff  010700  20:20:00:2a:6a:ea:b3:80     8  2112   c  d_id=FFFFFA
  ff  010700  20:20:00:2a:6a:ea:b3:80     8  2112   c  d_id=FFFFFC
DS300B01:admin>
```

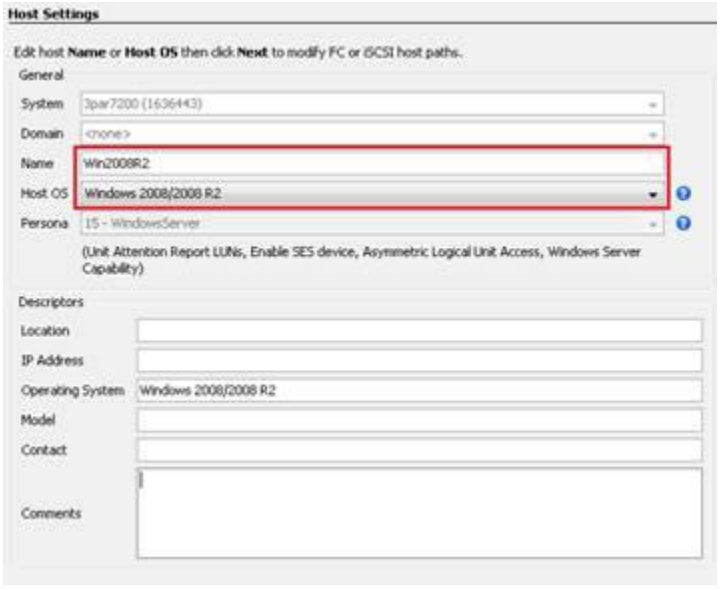
vHBA-FIA

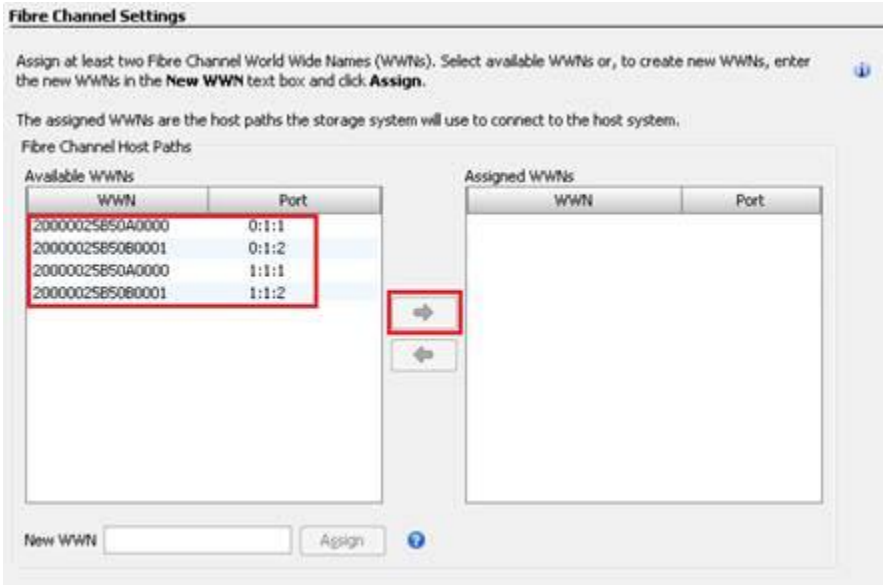
```
Index Port Address Media Speed State     Proto
==========================================
   0   0   010000   id    N4   Online      FC  F-Port  50:06:01:6c:47:20:25:eb
   1   1   010100   id    N8   Online      FC  F-Port  21:12:00:02:ac:00:8e:5b
   2   2   010200   id    8G   No_Light    FC
   3   3   010300   id    8G   No_Light    FC
   4   4   010400   id    N8   No_Light    FC
   5   5   010500   id    N8   Online      FC  F-Port  20:12:00:02:ac:00:8e:5b
   6   6   010600   id    N8   Online      FC  F-Port  1 N Port + 2 NPIV public

   7   7   010700   id    8G   Online      FC  F-Port  1 N Port + 2 NPIV public
```

Controller2-P2

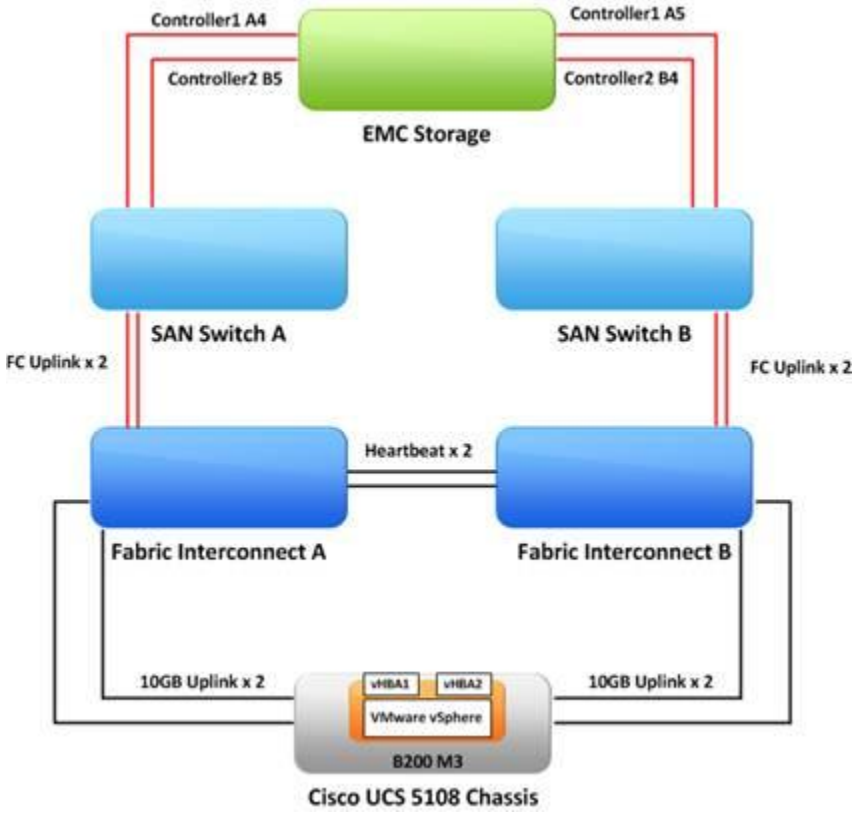
Controller1-P2

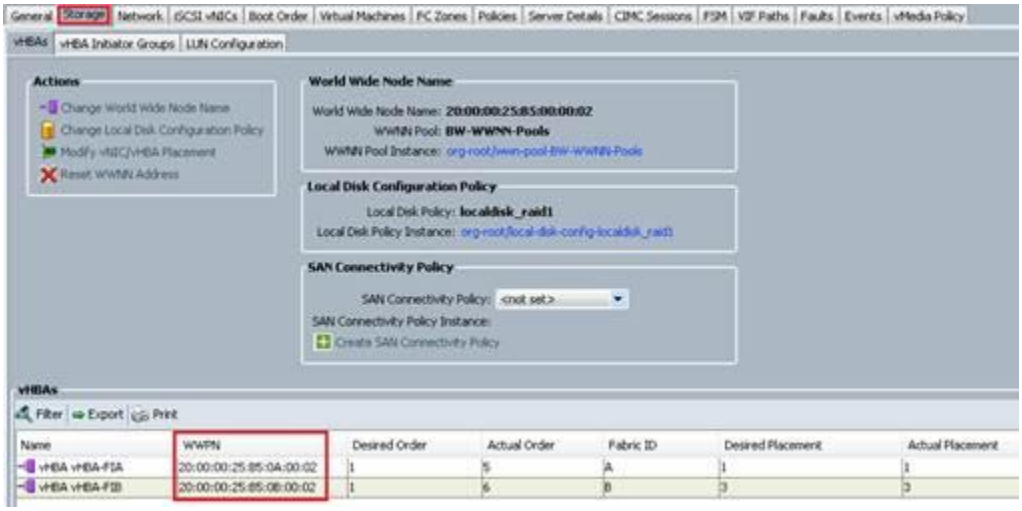
FIB's FC uplinks

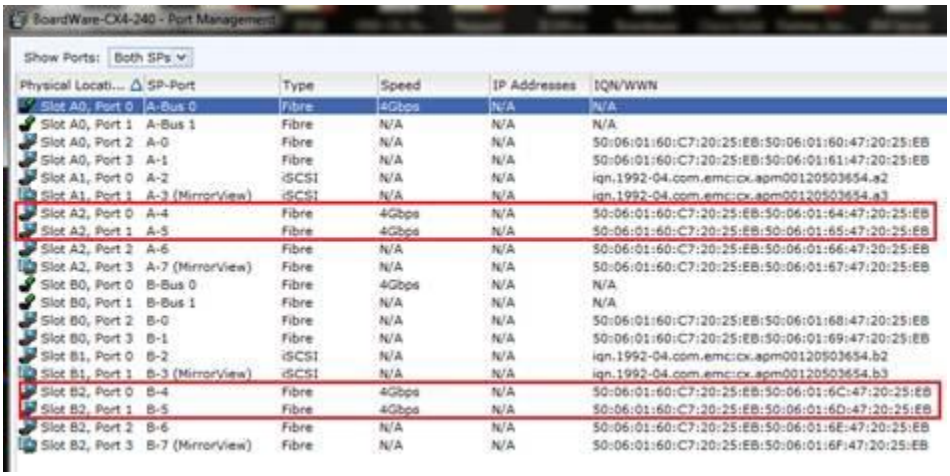

Host Settings
Edit host Name or Host OS then click Next to modify FC or iSCSI host paths.
General
System
3par7200 (1636443)
Domain
<none>
Name
Win2008R2
Host OS
Windows 2008/2008 R2
Persona
15 - WindowsServer
(Unit Attention Report LUNs, Enable SES device, Asymmetric Logical Unit Access, Windows Server Capability)
Descriptors
Location
IP Address
Operating System
Windows 2008/2008 R2
Model
Contact
Comments


Fibre Channel Settings
Assign at least two Fibre Channel World Wide Names (WWNs). Select available WWNs or, to create new WWNs, enter the new WWNs in the New WWN text box and click Assign.
The assigned WWNs are the host paths the storage system will use to connect to the host system.
Fibre Channel Host Paths
Available WWNs
WWN
Port
20000025B50A0000
0:1:1
20000025B50B0001
0:1:2
20000025B50A0000
1:1:1
20000025B50B0001
1:1:2
Assigned WWNs
WWN
Port
New WWN
Assign

Create Host...
Edit Host...
Remove Host...
Export Volume...
Move to Domain...
Create Host Set...
Add to Host Set...


Controller1 A4
Controller1 A5
Controller2 B5
Controller2 B4
EMC Storage
SAN Switch A
SAN Switch B
FC Uplink x 2
FC Uplink x 2
Heartbeat x 2
Fabric Interconnect A
Fabric Interconnect B
10GB Uplink x 2
10GB Uplink x 2
vHBA1
vHBA2
VMware vSphere
B200 M3
Cisco UCS 5108 Chassis


General
Storage
Network
iSCSI vNICs
Boot Order
Virtual Machines
FC Zones
Policies
Server Details
CIMC Sessions
FSM
VIF Paths
Faults
Events
vMedia Policy
vHBAs
vHBA Initiator Groups
LUN Configuration
Actions
Change World Wide Node Name
Change Local Disk Configuration Policy
Modify vNIC/vHBA Placement
Reset WWNN Address
World Wide Node Name
World Wide Node Name: 20:00:00:25:B5:00:00:02
WWNN Pool: BW-WWNN-Pools
WWNN Pool Instance: org-root/wwn-pool-BW-WWNN-Pools
Local Disk Configuration Policy
Local Disk Policy: localdisk_raid1
Local Disk Policy Instance: org-root/local-disk-config-localdisk_raid1
SAN Connectivity Policy
SAN Connectivity Policy: <not set>
SAN Connectivity Policy Instance:
Create SAN Connectivity Policy
vHBAs
Filter
Export
Print
Name
WWPN
Desired Order
Actual Order
Fabric ID
Desired Placement
Actual Placement
vHBA vHBA-FIA
20:00:00:25:B5:0A:00:02
1
5
A
1
1
vHBA vHBA-FIB
20:00:00:25:B5:0B:00:02
1
6
B
3
3


BoardWare-CX4-240 - Port Management
Show Ports: Both SPs
Physical Locati...
SP-Port
Type
Speed
IP Addresses
IQN/WWN
Slot A0, Port 0 A-Bus 0 Fibre 4Gbps N/A N/A
Slot A0, Port 1 A-Bus 1 Fibre N/A N/A N/A
Slot A0, Port 2 A-0 Fibre N/A N/A 50:06:01:60:C7:20:25:EB:50:06:01:60:47:20:25:EB
Slot A0, Port 3 A-1 Fibre N/A N/A 50:06:01:60:C7:20:25:EB:50:06:01:61:47:20:25:EB
Slot A1, Port 0 A-2 iSCSI N/A N/A iqn.1992-04.com.emc:cx.apm00120503654.a2
Slot A1, Port 1 A-3 (MirrorView) iSCSI N/A N/A iqn.1992-04.com.emc:cx.apm00120503654.a3
Slot A2, Port 0 A-4 Fibre 4Gbps N/A 50:06:01:60:C7:20:25:EB:50:06:01:64:47:20:25:EB
Slot A2, Port 1 A-5 Fibre 4Gbps N/A 50:06:01:60:C7:20:25:EB:50:06:01:65:47:20:25:EB
Slot A2, Port 2 A-6 Fibre N/A N/A 50:06:01:60:C7:20:25:EB:50:06:01:66:47:20:25:EB
Slot A2, Port 3 A-7 (MirrorView) Fibre N/A N/A 50:06:01:60:C7:20:25:EB:50:06:01:67:47:20:25:EB
Slot B0, Port 0 B-Bus 0 Fibre 4Gbps N/A N/A
Slot B0, Port 1 B-Bus 1 Fibre N/A N/A N/A
Slot B0, Port 2 B-0 Fibre N/A N/A 50:06:01:60:C7:20:25:EB:50:06:01:68:47:20:25:EB
Slot B0, Port 3 B-1 Fibre N/A N/A 50:06:01:60:C7:20:25:EB:50:06:01:69:47:20:25:EB
Slot B1, Port 0 B-2 iSCSI N/A N/A iqn.1992-04.com.emc:cx.apm00120503654.b2
Slot B1, Port 1 B-3 (MirrorView) iSCSI N/A N/A iqn.1992-04.com.emc:cx.apm00120503654.b3
Slot B2, Port 0 B-4 Fibre 4Gbps N/A 50:06:01:60:C7:20:25:EB:50:06:01:6C:47:20:25:EB
Slot B2, Port 1 B-5 Fibre 4Gbps N/A 50:06:01:60:C7:20:25:EB:50:06:01:6D:47:20:25:EB
Slot B2, Port 2 B-6 Fibre N/A N/A 50:06:01:60:C7:20:25:EB:50:06:01:6E:47:20:25:EB
Slot B2, Port 3 B-7 (MirrorView) Fibre N/A N/A 50:06:01:60:C7:20:25:EB:50:06:01:6F:47:20:25:EB

```
Index Port Address Media Speed State     Proto
=============================================
  0   0   010000   id     N4   Online      FC  F-Port  50:06:01:64:47:20:25:eb
  1   1   010100   id     N8   Online      FC  F-Port  20:11:00:02:ac:00:8e:5b
  2   2   010200   id     N8   No_Light    FC
  3   3   010300   id     4G   Online      FC  F-Port  50:06:01:6d:47:20:25:eb
  4   4   010400   id     N8   No_Light    FC
  5   5   010500   id     N8   Online      FC  F-Port  21:11:00:02:ac:00:8e:5b
  6   6   010600   id     8G   Online      FC  F-Port  1 N Port + 2 NPIV public
  7   7   010700   id     8G   Online      FC  F-Port  1 N Port + 2 NPIV public
  8   8   010800   --     4G   No_Module   FC  (No POD License) Disabled
  9   9   010900   --     N8   No_Module   FC  (No POD License) Disabled
```

SPA-4

SPB-5

FI-A FC uplinks

```
Type  PID     World Wide Name          credit df_sz cos
=========================================================
  fe  010607 20:00:00:25:b5:0a:00:02     16  2112   8  scr=0x3
  fe  010601 20:00:00:25:b5:0a:00:03     16  2112   8  scr=0x3
  fe  010600 20:1f:00:2a:6a:ea:b3:80     16  2112   8  scr=0x0
  ff  010607  20:00:00:25:b5:0a:00:02     0     0   8  d_id=FFFFFC
  ff  010601  20:00:00:25:b5:0a:00:03     0     0   8  d_id=FFFFFC
  ff  010600  20:1f:00:2a:6a:ea:b3:80     8  2112   c  d_id=FFFFFA
  ff  010600  20:1f:00:2a:6a:ea:b3:80     8  2112   c  d_id=FFFFFC
```

vHBA-FIA

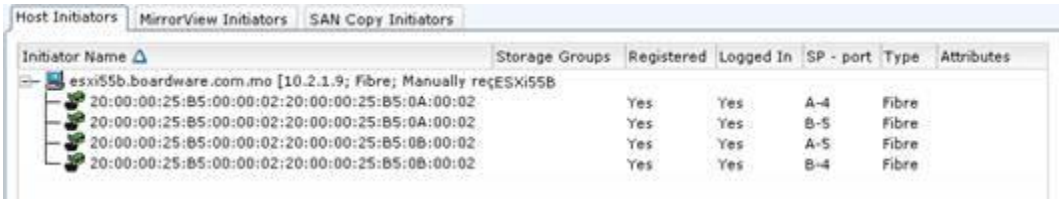
```
Index Port Address Media Speed State     Proto
=============================================
  0   0   010000   id     N4   Online      FC  F-Port  50:06:01:6c:47:20:25:eb
  1   1   010100   id     N8   Online      FC  F-Port  21:12:00:02:ac:00:8e:5b
  2   2   010200   id     8G   No_Light    FC
  3   3   010300   id     4G   Online      FC  F-Port  50:06:01:65:47:20:25:eb
  4   4   010400   id     N8   No_Light    FC
  5   5   010500   id     N8   Online      FC  F-Port  20:12:00:02:ac:00:8e:5b
  6   6   010600   id     N8   Online      FC  F-Port  1 N Port + 2 NPIV public
  7   7   010700   id     8G   Online      FC  F-Port  1 N Port + 2 NPIV public
  8   8   010800   --     N8   No_Module   FC  (No POD License) Disabled
```

SPB-4

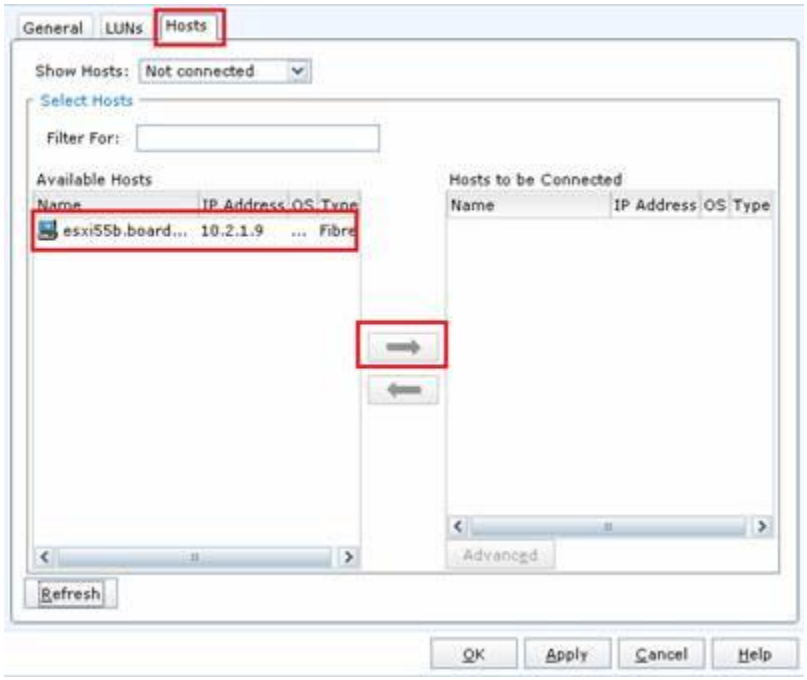
SPA-5

FI-B FC uplinks

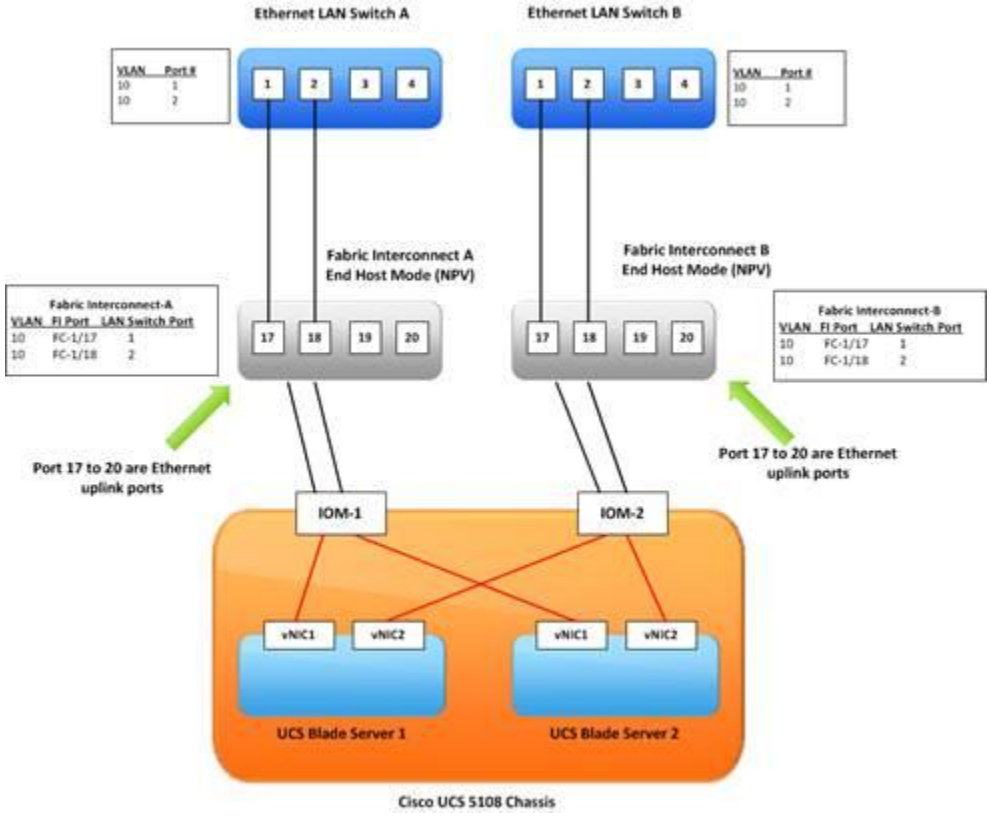
Systems by Severity
System
Domain
BoardWare-CX4-240
Local
Storage Pool Operations
Create Storage Group
Faults
Connectivity Status
Import Virtual Server Information
Engineering Mode
Update All Hosts
Port Management
iSCSI

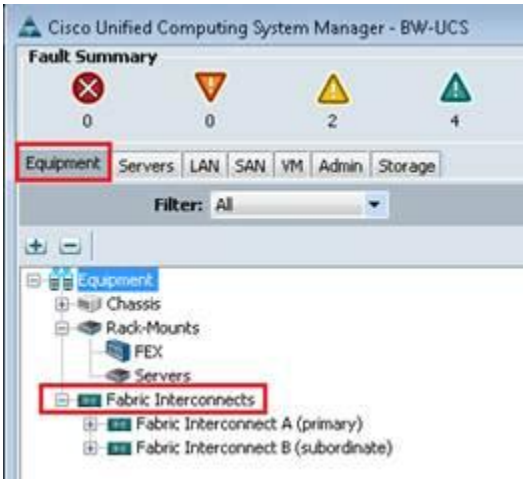

Host Initiators
MirrorView Initiators
SAN Copy Initiators
Initiator Name
Storage Groups
Registered
Logged In
SP - port
Type
Attributes
esxi55b.boardware.com.mo [10.2.1.9; Fibre; Manually reg
ESXi55B
20:00:00:25:B5:00:00:02:20:00:00:25:B5:0A:00:02
Yes
Yes
A-4
Fibre
20:00:00:25:B5:00:00:02:20:00:00:25:B5:0A:00:02
Yes
Yes
B-5
Fibre
20:00:00:25:B5:00:00:02:20:00:00:25:B5:0B:00:02
Yes
Yes
A-5
Fibre
20:00:00:25:B5:00:00:02:20:00:00:25:B5:0B:00:02
Yes
Yes
B-4
Fibre

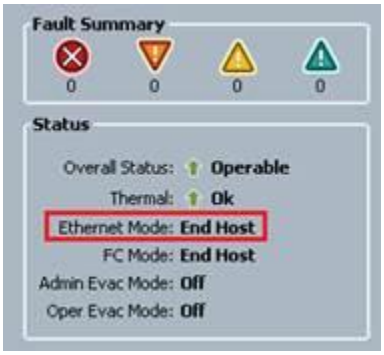
EMC Unisphere
BoardWare-CX4-240
System
Storage
Hosts
Replicas
BoardWare-CX4-240 > System > System Information
Summary
Disks
Pools/RAID Groups
LUNs
Storage Groups
Folders
System Management
Manage Data Ports
Show System Alerts
Manage Cache
Create Hot Spare
Backend Bus Speed Reset Wizard

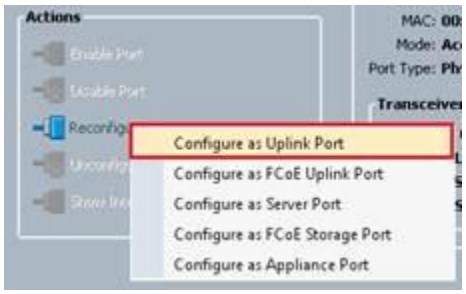


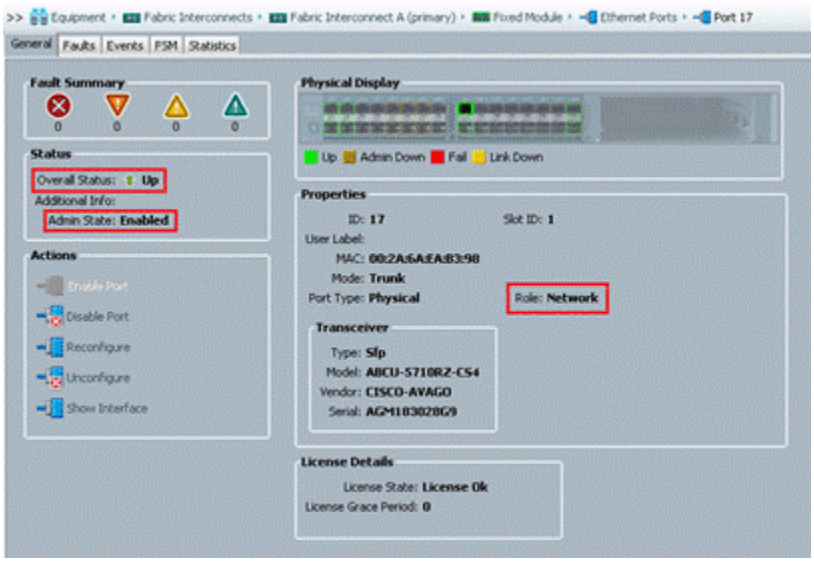
Chapter 2: Cisco UCS to LAN Connectivity

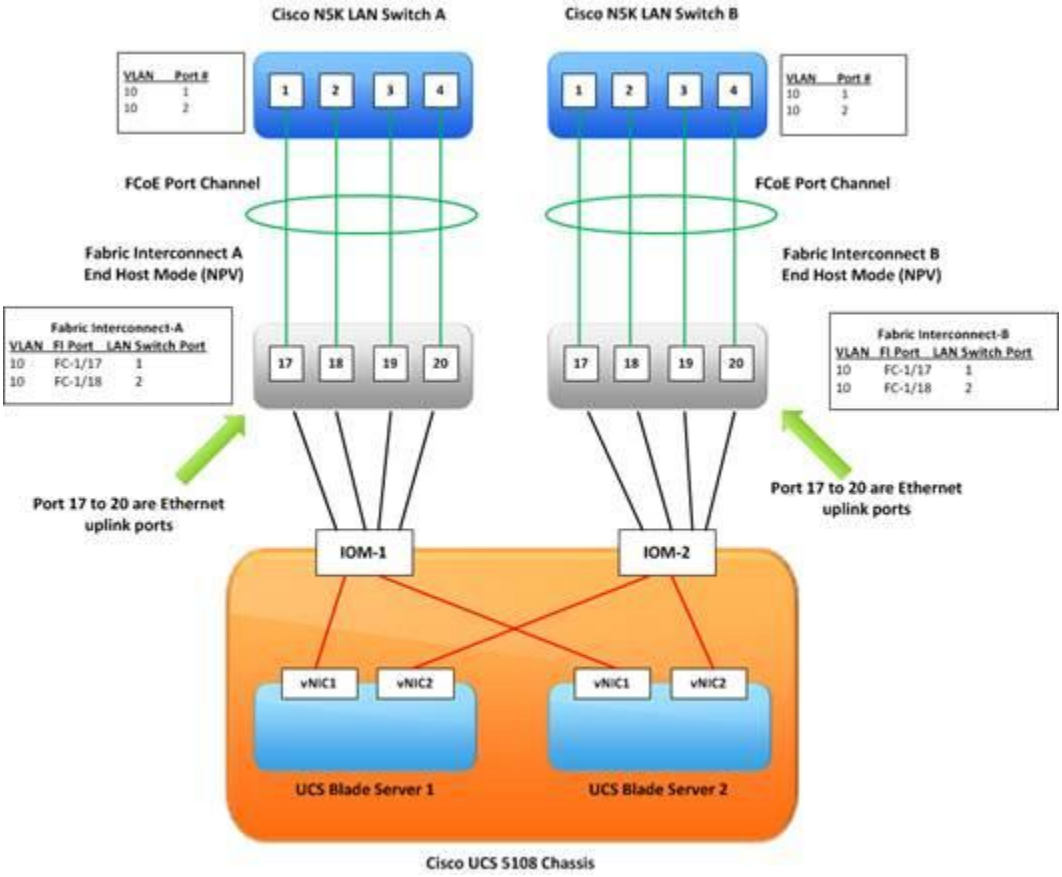

Ethernet LAN Switch A
Ethernet LAN Switch B
VLAN Port #
10 1
10 2
1 2 3 4
Fabric Interconnect A
End Host Mode (NPV)
Fabric Interconnect B
End Host Mode (NPV)
Fabric Interconnect-A
VLAN FI Port LAN Switch Port
10 FC-1/17 1
10 FC-1/18 2
Fabric Interconnect-B
VLAN FI Port LAN Switch Port
10 FC-1/17 1
10 FC-1/18 2
17 18 19 20
Port 17 to 20 are Ethernet uplink ports
IOM-1
IOM-2
vNIC1
vNIC2
UCS Blade Server 1
UCS Blade Server 2
Cisco UCS 5108 Chassis

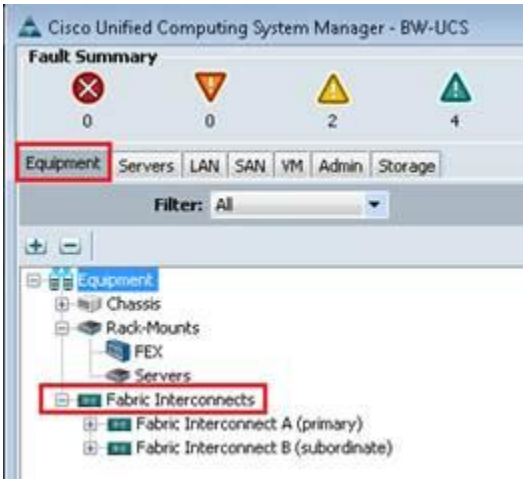

Cisco Unified Computing System Manager - BW-UCS
Fault Summary
0 0 2 4
Equipment Servers LAN SAN VM Admin Storage
Filter: All
Equipment
Chassis
Rack-Mounts
FEX
Servers
Fabric Interconnects
Fabric Interconnect A (primary)
Fabric Interconnect B (subordinate)

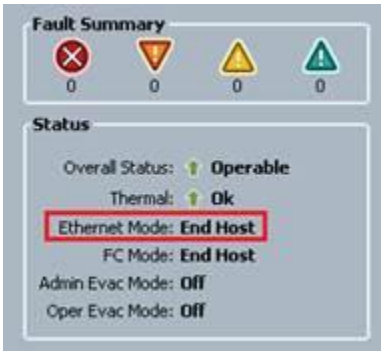

Fault Summary
0
0
0
0
Status
Overall Status: Operable
Thermal: Ok
Ethernet Mode: End Host
FC Mode: End Host
Admin Evac Mode: Off
Oper Evac Mode: Off

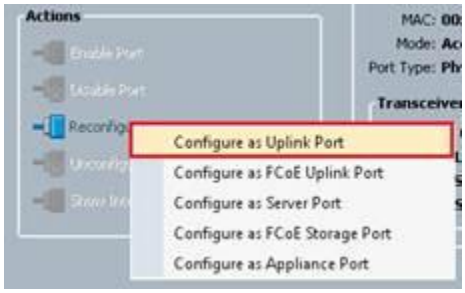

Actions
Configure as Uplink Port
Configure as FCoE Uplink Port
Configure as Server Port
Configure as FCoE Storage Port
Configure as Appliance Port

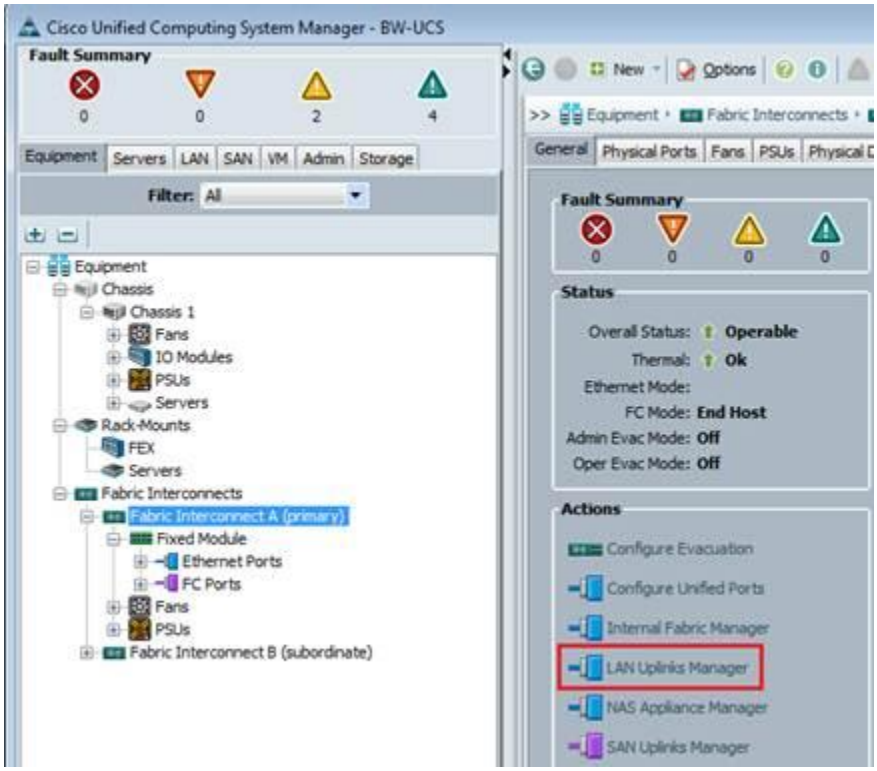

Equipment
Fabric Interconnects
Fabric Interconnect A (primary)
Fixed Module
Ethernet Ports
Port 17
General
Faults
Events
FSM
Statistics
Fault Summary
Status
Overall Status: Up
Additional Info:
Admin State: Enabled
Actions
Enable Port
Disable Port
Reconfigure
Unconfigure
Show Interface
Physical Display
Up
Admin Down
Fail
Link Down
Properties
ID: 17
Slot ID: 1
User Label:
MAC: 00:2A:6A:EA:B3:98
Mode: Trunk
Port Type: Physical
Role: Network
Transceiver
Type: Sfp
Model: ABCU-5710RZ-CS4
Vendor: CISCO-AVAGO
Serial: AGM183028G9
License Details
License State: License Ok
License Grace Period: 0

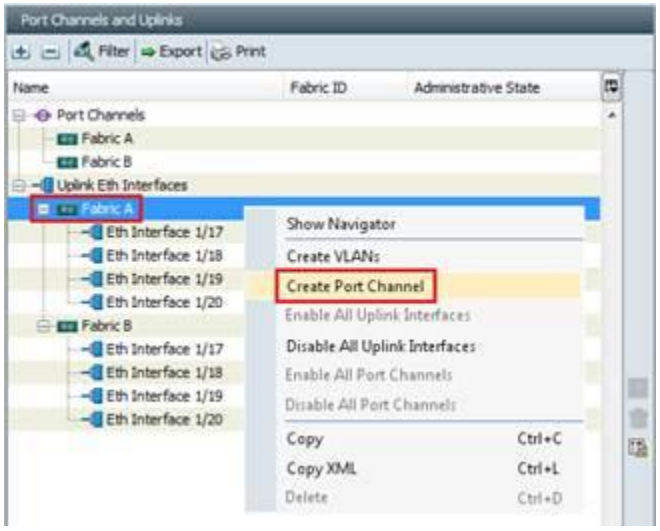

Cisco N5K LAN Switch A
Cisco N5K LAN Switch B
VLAN Port #
10 1
10 2
1 2 3 4
FCoE Port Channel
Fabric Interconnect A
End Host Mode (NPV)
Fabric Interconnect-A
VLAN FI Port LAN Switch Port
10 FC-1/17 1
10 FC-1/18 2
17 18 19 20
Port 17 to 20 are Ethernet uplink ports
IOM-1
IOM-2
vNIC1
vNIC2
UCS Blade Server 1
UCS Blade Server 2
Cisco UCS 5108 Chassis

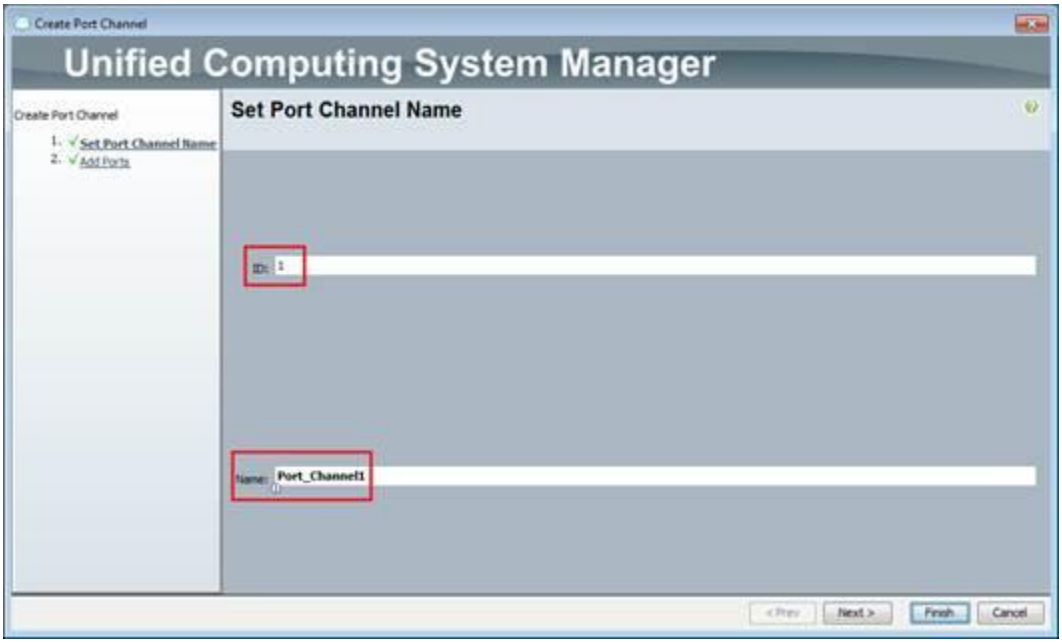

Cisco Unified Computing System Manager - BW-UCS
Fault Summary
0
0
2
4
Equipment
Servers
LAN
SAN
VM
Admin
Storage
Filter: All
Equipment
Chassis
Rack-Mounts
FEX
Servers
Fabric Interconnects
Fabric Interconnect A (primary)
Fabric Interconnect B (subordinate)


Fault Summary
0
0
0
0
Status
Overall Status: Operable
Thermal: Ok
Ethernet Mode: End Host
FC Mode: End Host
Admin Evac Mode: Off
Oper Evac Mode: Off

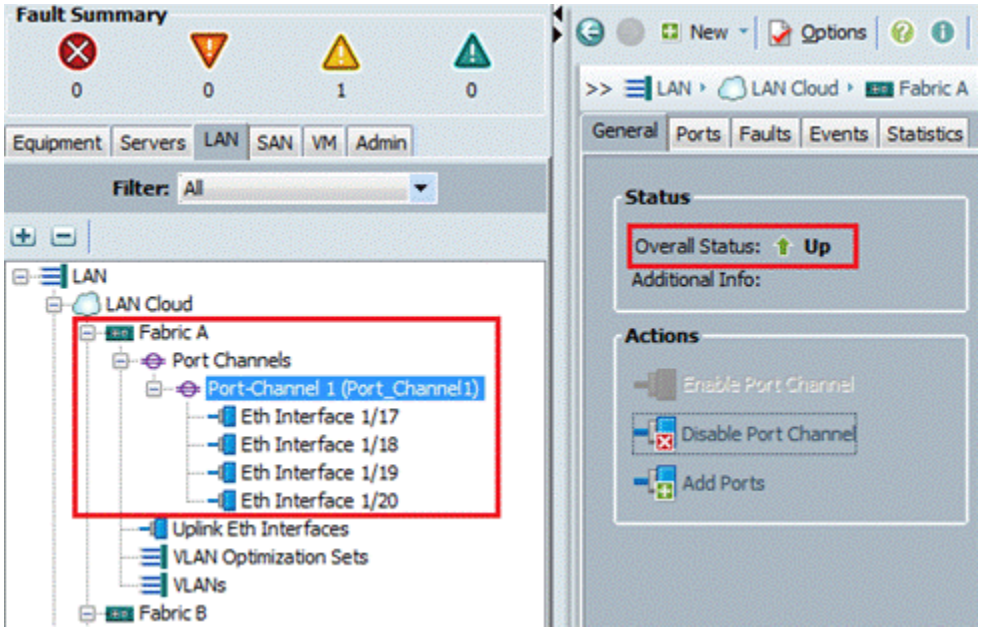

Actions
Configure as Uplink Port
Configure as FCoE Uplink Port
Configure as Server Port
Configure as FCoE Storage Port
Configure as Appliance Port

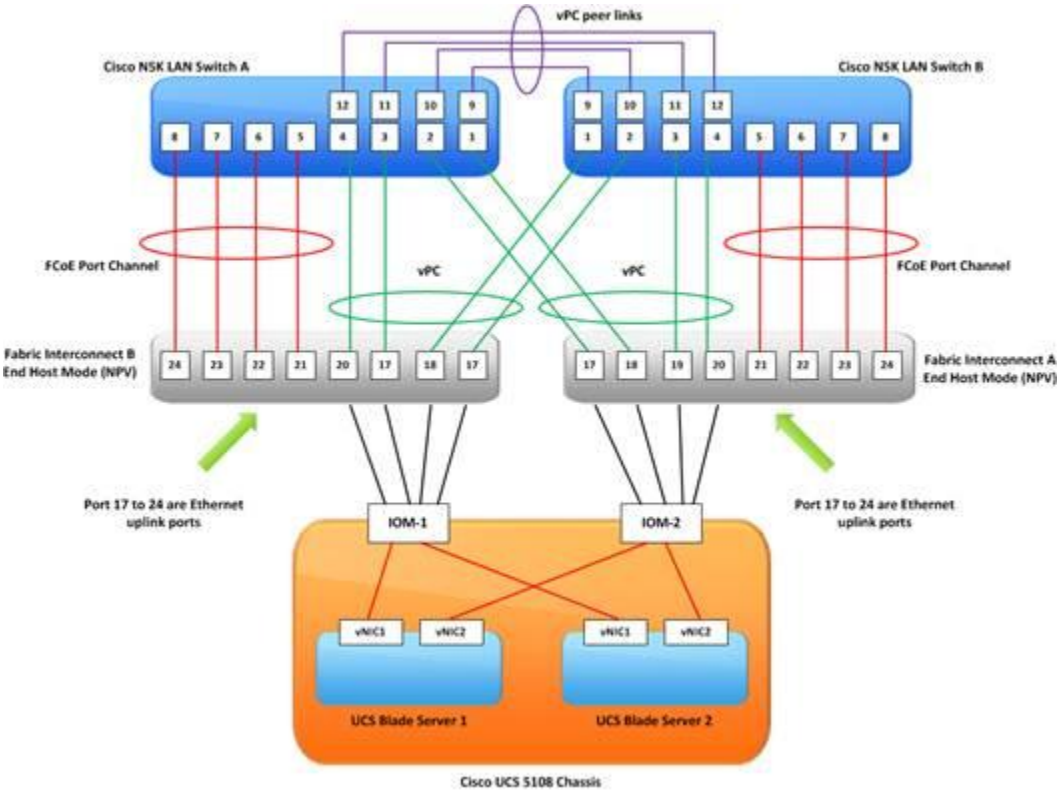

Cisco Unified Computing System Manager - BW-UCS
Fault Summary
0
0
2
4
Equipment
Servers
LAN
SAN
VM
Admin
Storage
Filter: All
Equipment
Chassis
Chassis 1
Fans
IO Modules
PSUs
Servers
Rack-Mounts
FEX
Servers
Fabric Interconnects
Fabric Interconnect A (primary)
Fixed Module
Ethernet Ports
FC Ports
Fans
PSUs
Fabric Interconnect B (subordinate)
New
Options
>> Equipment
Fabric Interconnects
General
Physical Ports
Fans
PSUs
Fault Summary
0
0
0
0
Status
Overall Status: Operable
Thermal: Ok
Ethernet Mode:
FC Mode: End Host
Admin Evac Mode: Off
Oper Evac Mode: Off
Actions
Configure Evacuation
Configure Unified Ports
Internal Fabric Manager
LAN Uplinks Manager
NAS Appliance Manager
SAN Uplinks Manager

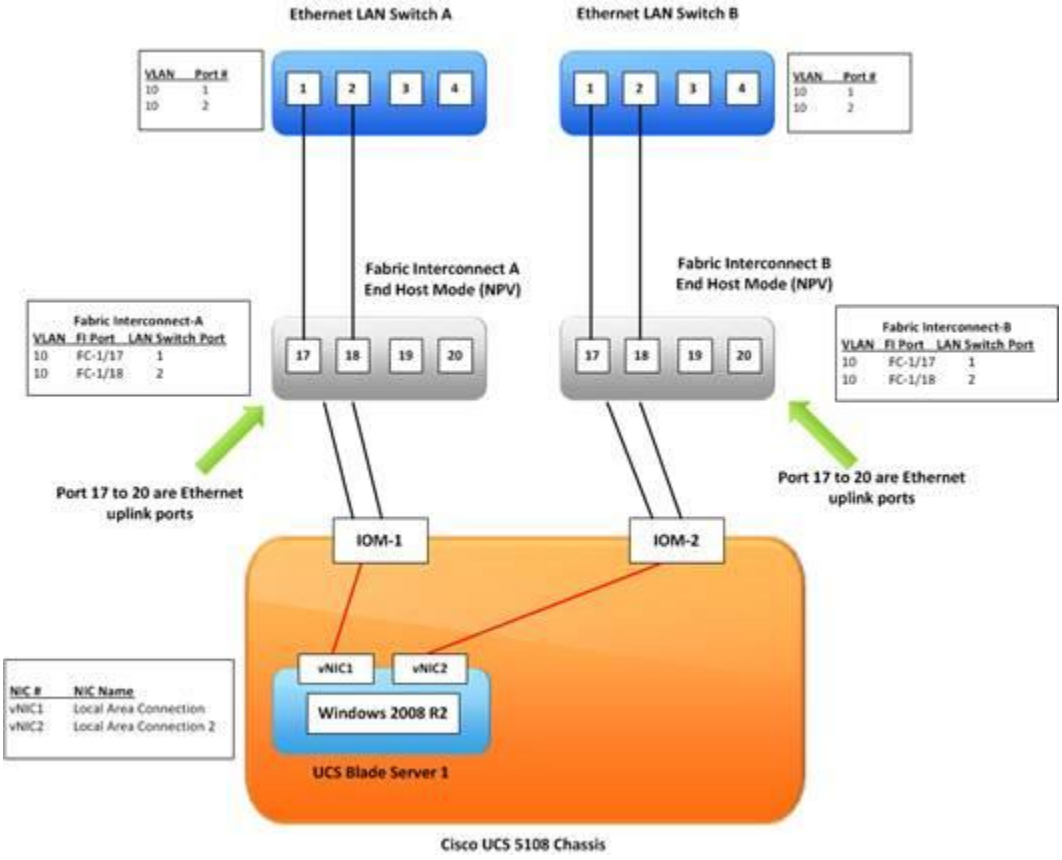

Port Channels and Uplinks
Filter
Export
Print
Name
Fabric ID
Administrative State
Port Channels
Fabric A
Fabric B
Uplink Eth Interfaces
Fabric A
Eth Interface 1/17
Eth Interface 1/18
Eth Interface 1/19
Eth Interface 1/20
Fabric B
Eth Interface 1/17
Eth Interface 1/18
Eth Interface 1/19
Eth Interface 1/20
Show Navigator
Create VLANs
Create Port Channel
Enable All Uplink Interfaces
Disable All Uplink Interfaces
Enable All Port Channels
Disable All Port Channels
Copy Ctrl+C
Copy XML Ctrl+L
Delete Ctrl+D

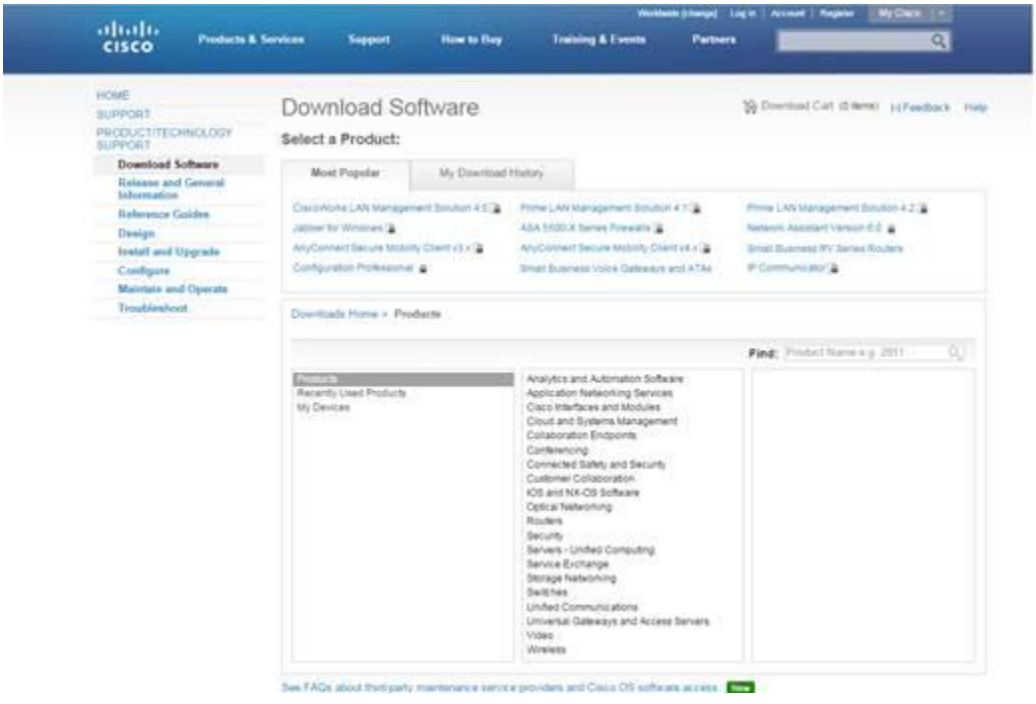

Create Port Channel
Unified Computing System Manager
Create Port Channel
1. Set Port Channel Name
2. Add Ports
Set Port Channel Name
ID: 1
Name: Port_Channel1
< Prev
Next >
Finish
Cancel

Create Port Channel
Unified Computing System Manager
Create Port Channel
1. Set Port Channel Name
2. Add Ports
Add Ports
Ports
Slot ID
Port
MAC
Ports in the port channel
Slot ID
Port
MAC
>>
<<
< Prev
Next >
Finish
Cancel


Fault Summary
0
0
1
0
Equipment
Servers
LAN
SAN
VM
Admin
Filter: All
LAN
LAN Cloud
Fabric A
Port Channels
Port-Channel 1 (Port_Channel1)
Eth Interface 1/17
Eth Interface 1/18
Eth Interface 1/19
Eth Interface 1/20
Uplink Eth Interfaces
VLAN Optimization Sets
VLANs
Fabric B
New
Options
>> LAN › LAN Cloud › Fabric A
General
Ports
Faults
Events
Statistics
Status
Overall Status: Up
Additional Info:
Actions
Enable Port Channel
Disable Port Channel
Add Ports


vPC peer links
Cisco NSK LAN Switch A
Cisco NSK LAN Switch B
12 11 10 9
8 7 6 5 4 3 2 1
9 10 11 12
1 2 3 4 5 6 7 8
FCoE Port Channel
vPC
vPC
FCoE Port Channel
Fabric Interconnect B
End Host Mode (NPV)
24 23 22 21 20 17 18 17
17 18 19 20 21 22 23 24
Fabric Interconnect A
End Host Mode (NPV)
Port 17 to 24 are Ethernet
uplink ports
Port 17 to 24 are Ethernet
uplink ports
IOM-1
IOM-2
vNIC1
vNIC2
vNIC1
vNIC2
UCS Blade Server 1
UCS Blade Server 2
Cisco UCS 5108 Chassis


Ethernet LAN Switch A
Ethernet LAN Switch B
VLAN Port #
10 1
10 2
1 2 3 4
Fabric Interconnect A
End Host Mode (NPV)
Fabric Interconnect B
End Host Mode (NPV)
Fabric Interconnect-A
VLAN FI Port LAN Switch Port
10 FC-1/17 1
10 FC-1/18 2
Fabric Interconnect-B
VLAN FI Port LAN Switch Port
10 FC-1/17 1
10 FC-1/18 2
17 18 19 20
Port 17 to 20 are Ethernet uplink ports
IOM-1
IOM-2
vNIC1
vNIC2
Windows 2008 R2
UCS Blade Server 1
NIC # NIC Name
vNIC1 Local Area Connection
vNIC2 Local Area Connection 2
Cisco UCS 5108 Chassis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Install and Upgrade
Configure
Maintain and Operate
Troubleshoot
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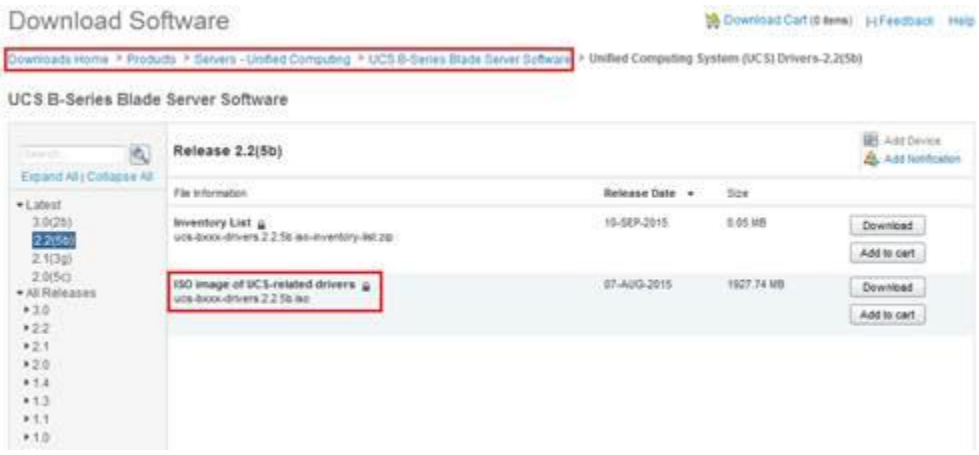
Products
Recently Used Products
My Devices
Analytics and Automation Software
Application Networking Services
Cisco Interfaces and Modules
Cloud and Systems Management
Collaboration Endpoints
Conferencing
Connected Safety and Security
Customer Collaboration
IOS and NX-OS Software
Optical Networking
Routers
Security
Servers - Unified Computing
Service Exchange
Storage Networking
Switches
Unified Communications
Universal Gateways and Access Servers
Video
Wireless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Latest
3.0(2b)
2.2(5b)
2.1(3g)
2.0(5c)
All Releases
3.0
2.2
2.1
2.0
1.4
1.3
1.1
1.0
Release 2.2(5b)
Add Device
Add Notification
File Information
Release Date
Size
Inventory List
ucs-bxxx-drivers.2.2.5b.as-inventory-lst.zip
10-SEP-2015
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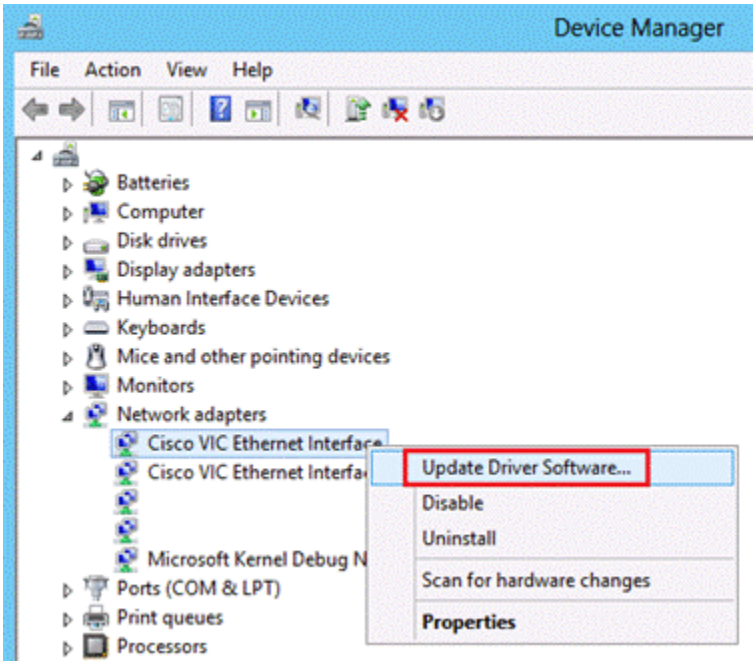
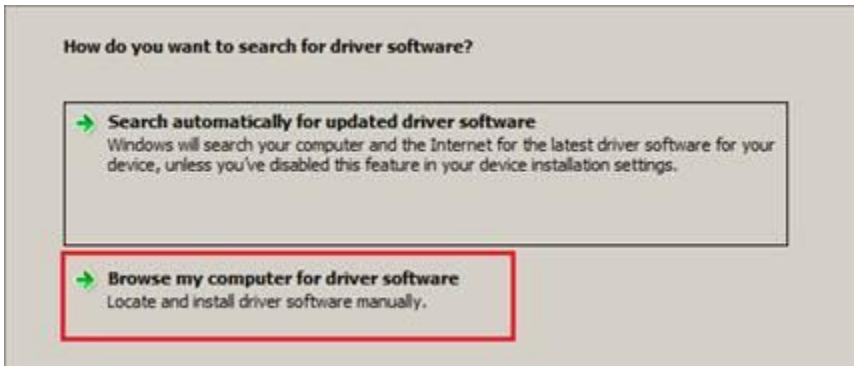
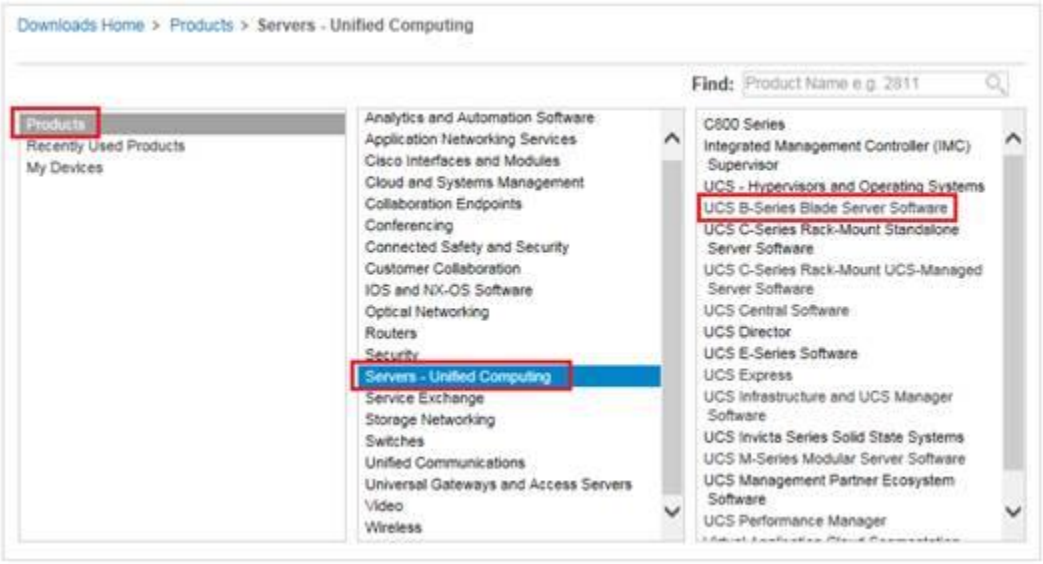

Device Manager
File
Action
View
Help
Batteries
Computer
Disk drives
Display adapters
Human Interface Devices
Keyboards
Mice and other pointing devices
Monitors
Network adapters
Cisco VIC Ethernet Interface
Cisco VIC Ethernet Interfa
Microsoft Kernel Debug N
Ports (COM & LPT)
Print queues
Processors
Update Driver Software...
Disable
Uninstall
Scan for hardware changes
Properties


How do you want to search for driver software?
Search automatically for updated driver software
Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.
Browse my computer for driver software
Locate and install driver software manually.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Conferencing
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Customer Collaboration
IOS and NX-OS Software
Optical Networking
Routers
Security
Servers - Unified Computing
Service Exchange
Storage Networking
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Universal Gateways and Access Servers
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Integrated Management Controller (IMC) Supervisor
UCS - Hypervisors and Operating Systems
UCS B-Series Blade Server Software
UCS C-Series Rack-Mount Standalone Server Software
UCS C-Series Rack-Mount UCS-Managed Server Software
UCS Central Software
UCS Director
UCS E-Series Software
UCS Express
UCS Infrastructure and UCS Manager Software
UCS Invicta Series Solid State Systems
UCS M-Series Modular Server Software
UCS Management Partner Ecosystem Software
UCS Performance Manager

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Windows

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UCS B-Series Blade Server Software
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Latest
2.2(5)
3.0(2)
2.1(3)
2.0(5)
All Releases
Release 2.2(5)
Add Device
Add Notification
File Information
Release Date
Size
ISO image of UCS-related Windows utilities
ucs-bxxx-utils-windows.2.2.5.iso
19-JUN-2015
1505.66 MB
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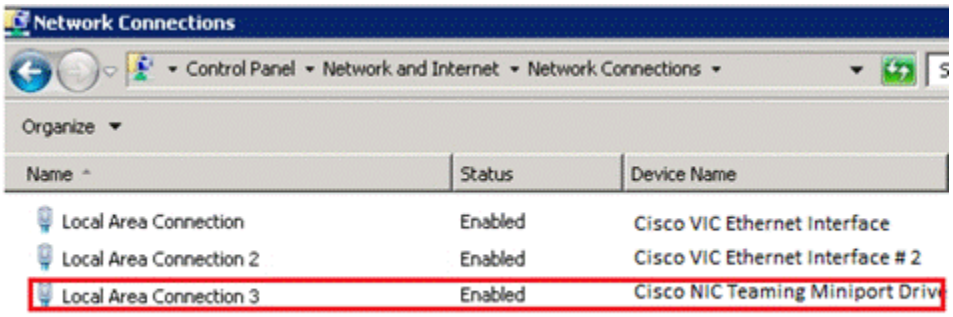
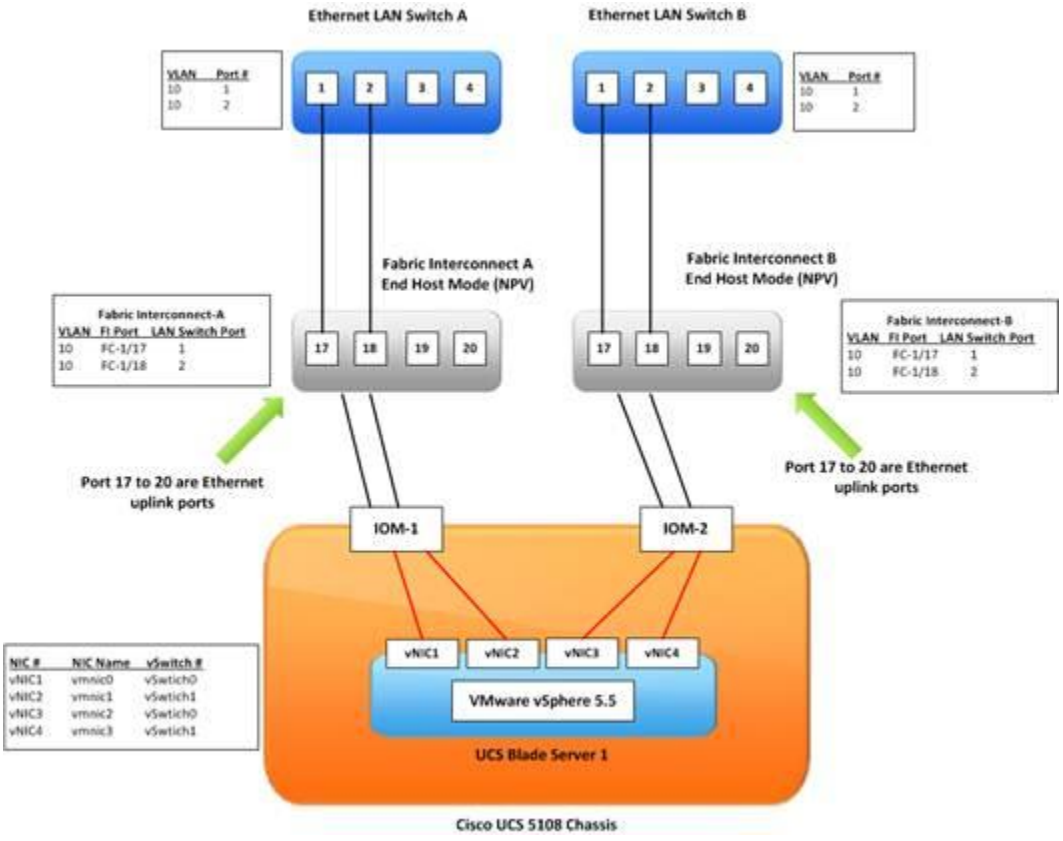
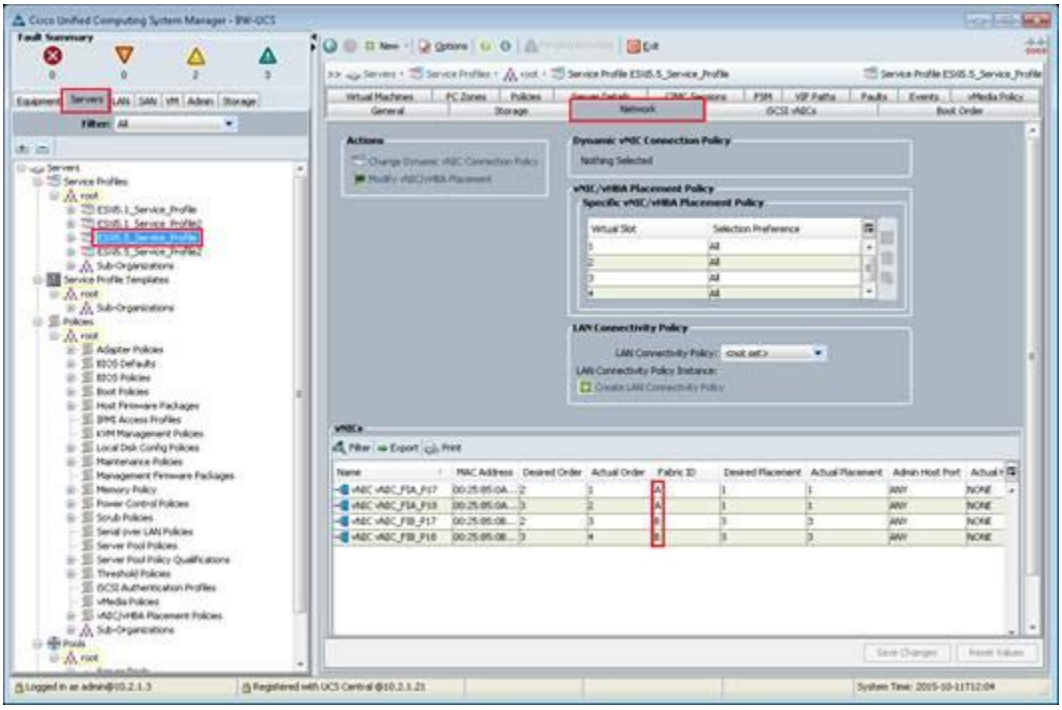
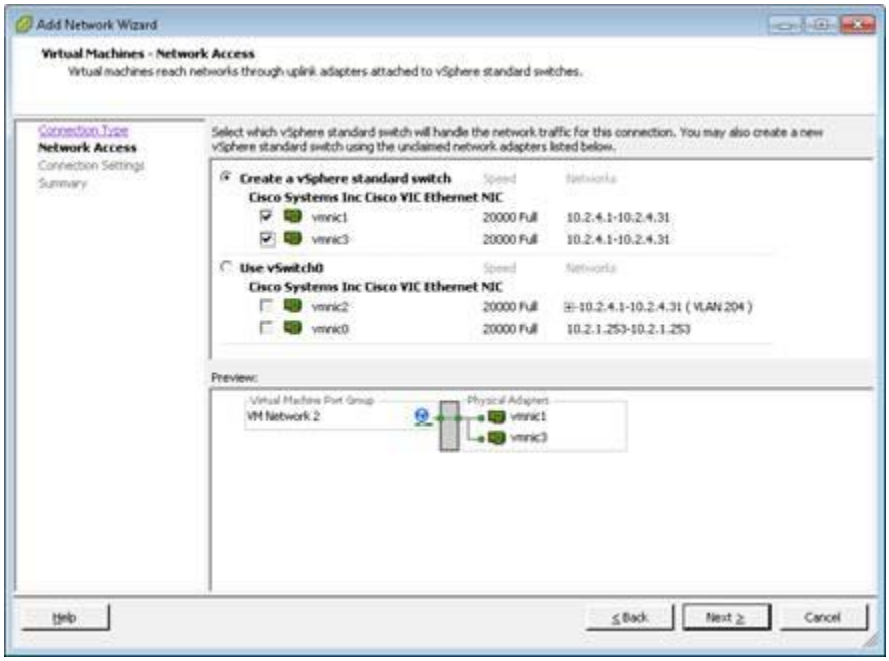
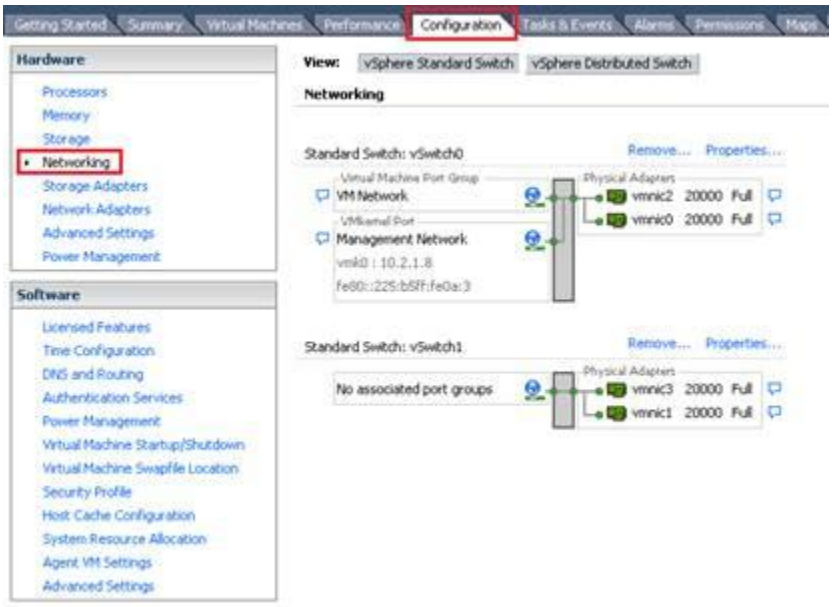
.			File folder	
cscteam_mp6x64.cat	7,837	7,837	Security Catalog	5/9/2014 8:45 ...
cscteam_mp6x64.inf	1,417	1,417	Setup Information	2/15/2014 1:04 ...
cscteam6x64.sys	105,160	105,160	System file	2/15/2014 1:04 ...
cscteamp6x64.cat	8,224	8,224	Security Catalog	5/9/2014 8:45 ...
cscteamp6x64.inf	2,343	2,343	Setup Information	2/15/2014 1:04 ...
enictool.exe	328,192	328,192	Application	12/6/2013 1:01 ...
README_TEAM.TXT	3,792	3,792	Text Document	10/5/2013 5:21 ...
README_TOOL.TXT	2,340	2,340	Text Document	10/5/2013 5:21 ...

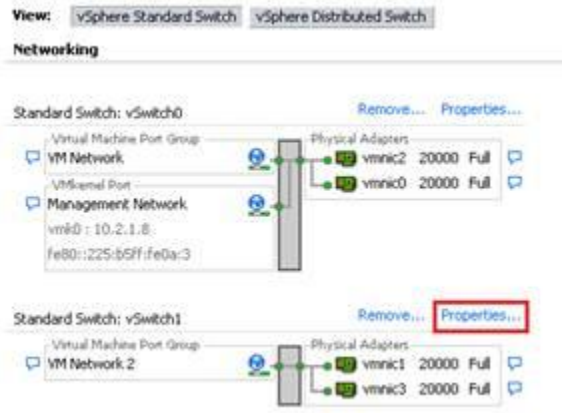


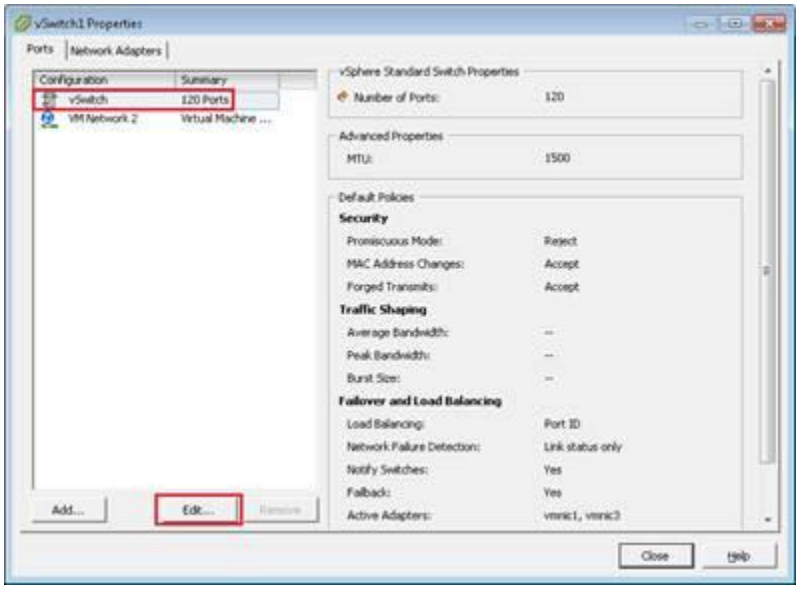

Ethernet LAN Switch A
Ethernet LAN Switch B
VLAN Port #
10 1
10 2
1 2 3 4
Fabric Interconnect A
End Host Mode (NPV)
Fabric Interconnect B
End Host Mode (NPV)
Fabric Interconnect-A
VLAN FI Port LAN Switch Port
10 FC-1/17 1
10 FC-1/18 2
17 18 19 20
Fabric Interconnect-B
VLAN FI Port LAN Switch Port
10 FC-1/17 1
10 FC-1/18 2
Port 17 to 20 are Ethernet uplink ports
Port 17 to 20 are Ethernet uplink ports
IOM-1
IOM-2
NIC # NIC Name vSwitch #
vNIC1 vmnic0 vSwtich0
vNIC2 vmnic1 vSwtich1
vNIC3 vmnic2 vSwtich0
vNIC4 vmnic3 vSwtich1
vNIC1 vNIC2 vNIC3 vNIC4
VMware vSphere 5.5
UCS Blade Server 1
Cisco UCS 5108 Chassis

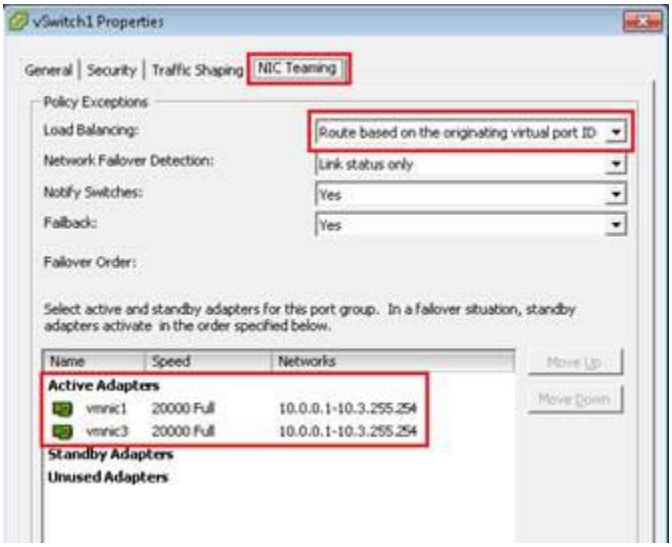

Cisco Unified Computing System Manager - BW-UCS
Fault Summary
Servers
Service Profiles
root
ESXi5.5_Service_Profile
Sub-Organizations
Service Profile Templates
Policies
Pools
Network
Actions
Dynamic vNIC Connection Policy
Nothing Selected
vNIC/vHBA Placement Policy
Specific vNIC/vHBA Placement Policy
Virtual Slot
Selection Preference
LAN Connectivity Policy
LAN Connectivity Policy:
LAN Connectivity Policy Instance:
vNICs
Name
MAC Address
Desired Order
Actual Order
Fabric ID
Desired Placement
Actual Placement
Admin Host Port
vNIC vNIC_FIA_P17
vNIC vNIC_FIA_P18
vNIC vNIC_FIB_P17
vNIC vNIC_FIB_P18


Add Network Wizard
Virtual Machines - Network Access
Virtual machines reach networks through uplink adapters attached to vSphere standard switches.
Connection Type
Network Access
Connection Settings
Summary
Select which vSphere standard switch will handle the network traffic for this connection. You may also create a new vSphere standard switch using the unclaimed network adapters listed below.
Create a vSphere standard switch
Speed
Networks
Cisco Systems Inc Cisco VIC Ethernet NIC
vmnic1 20000 Full 10.2.4.1-10.2.4.31
vmnic3 20000 Full 10.2.4.1-10.2.4.31
Use vSwitch0
Speed
Networks
Cisco Systems Inc Cisco VIC Ethernet NIC
vmnic2 20000 Full 10.2.4.1-10.2.4.31 (VLAN 204)
vmnic0 20000 Full 10.2.1.253-10.2.1.253
Preview:
Virtual Machine Port Group
Physical Adapters
VM Network 2
vmnic1
vmnic3
Help
< Back
Next >
Cancel

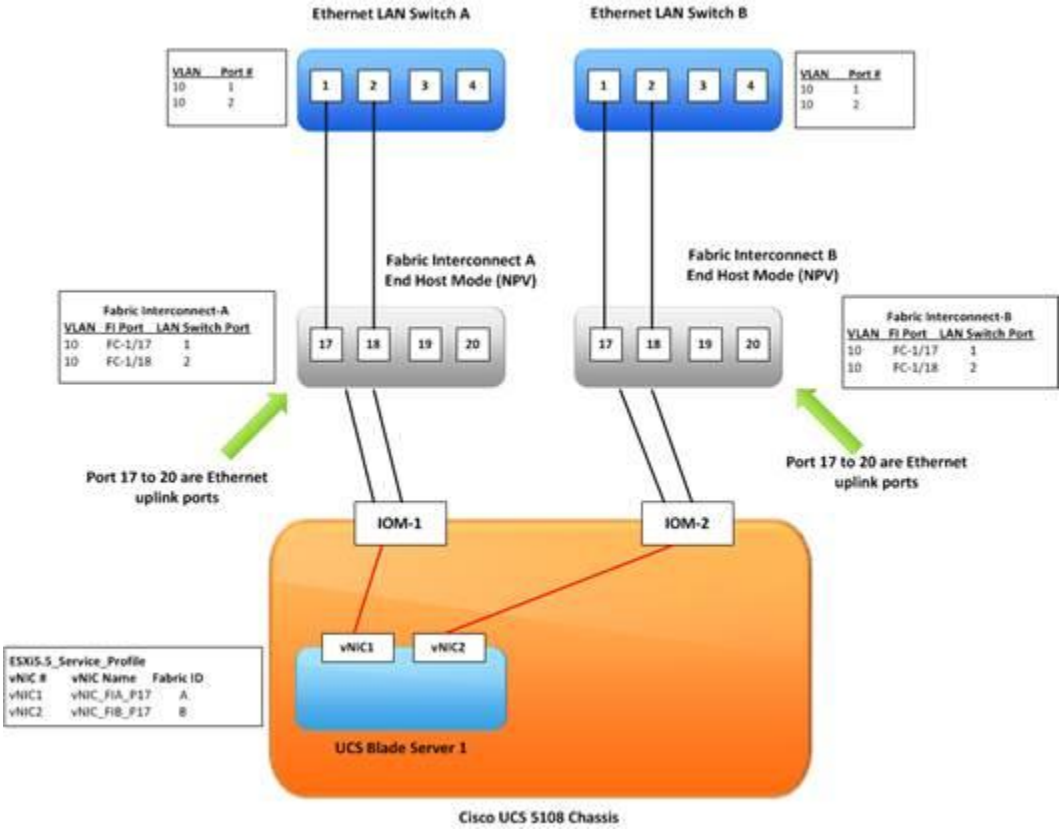

Getting Started
Summary
Virtual Machines
Performance
Configuration
Tasks & Events
Alarms
Permissions
Maps
Hardware
Processors
Memory
Storage
Networking
Storage Adapters
Network Adapters
Advanced Settings
Power Management
Software
Licensed Features
Time Configuration
DNS and Routing
Authentication Services
Power Management
Virtual Machine Startup/Shutdown
Virtual Machine Swapfile Location
Security Profile
Host Cache Configuration
System Resource Allocation
Agent VM Settings
Advanced Settings
View:
vSphere Standard Switch
vSphere Distributed Switch
Networking
Standard Switch: vSwitch0
Remove...
Properties...
Virtual Machine Port Group
Physical Adapters
VM Network
vmnic2 20000 Full
vmnic0 20000 Full
VMkernel Port
Management Network
vmk0 : 10.2.1.8
fe80::225:b5ff:fe0a:3
Standard Switch: vSwitch1
Remove...
Properties...
Physical Adapters
No associated port groups
vmnic3 20000 Full
vmnic1 20000 Full


View:
vSphere Standard Switch
vSphere Distributed Switch
Networking
Standard Switch: vSwitch0
Remove...
Properties...
Virtual Machine Port Group
VM Network
VMkernel Port
Management Network
vmk0 : 10.2.1.8
fe80::225:b5ff:fe0a:3
Physical Adapters
vmnic2 20000 Full
vmnic0 20000 Full
Standard Switch: vSwitch1
Remove...
Properties...
Virtual Machine Port Group
VM Network 2
Physical Adapters
vmnic1 20000 Full
vmnic3 20000 Full


vSwitch1 Properties
Ports
Network Adapters
Configuration
Summary
vSwitch
120 Ports
VM Network 2
Virtual Machine ...
Add...
Edit...
Remove
vSphere Standard Switch Properties
Number of Ports:
120
Advanced Properties
MTU:
1500
Default Policies
Security
Promiscuous Mode:
Reject
MAC Address Changes:
Accept
Forged Transmits:
Accept
Traffic Shaping
Average Bandwidth:
--
Peak Bandwidth:
--
Burst Size:
--
Failover and Load Balancing
Load Balancing:
Port ID
Network Failure Detection:
Link status only
Notify Switches:
Yes
Failback:
Yes
Active Adapters:
vmnic1, vmnic3
Close
Help

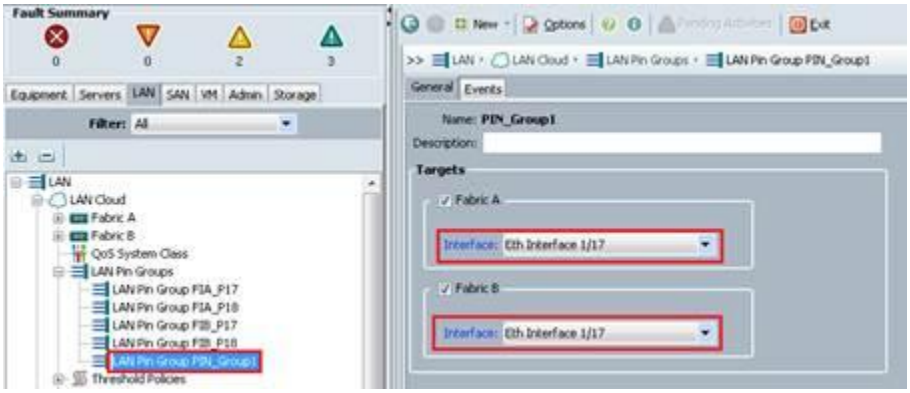

vSwitch1 Properties
General
Security
Traffic Shaping
NIC Teaming
Policy Exceptions
Load Balancing:
Route based on the originating virtual port ID
Network Failover Detection:
Link status only
Notify Switches:
Yes
Failback:
Yes
Failover Order:
Select active and standby adapters for this port group. In a failover situation, standby adapters activate in the order specified below.
Name
Speed
Networks
Move Up
Move Down
Active Adapters
vmnic1
20000 Full
10.0.0.1-10.3.255.254
vmnic3
20000 Full
10.0.0.1-10.3.255.254
Standby Adapters
Unused Adapters

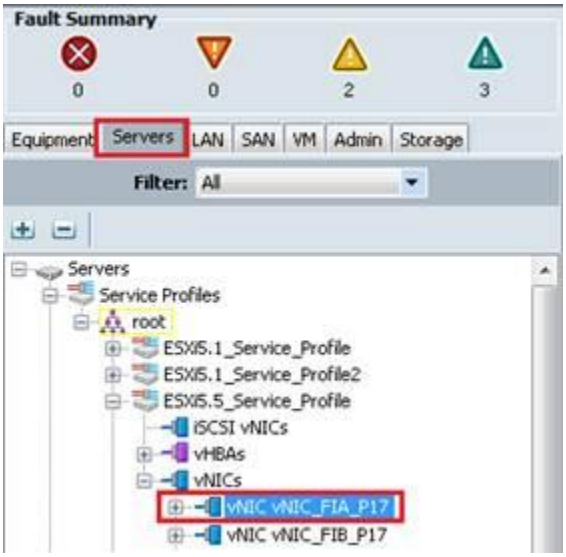
dvPortGroup Settings
General
Policies
Security
Traffic Shaping
VLAN
Teaming and Failover
Resource Allocation
Monitoring
Miscellaneous
Advanced
Policies
Teaming and Failover
Load Balancing:
Route based on originating virtual port
Network Failover Detection:
Notify Switches:
Failback:
Route based on originating virtual port
Route based on IP hash
Route based on source MAC hash
Route based on physical NIC load
Use explicit failover order
Failover Order

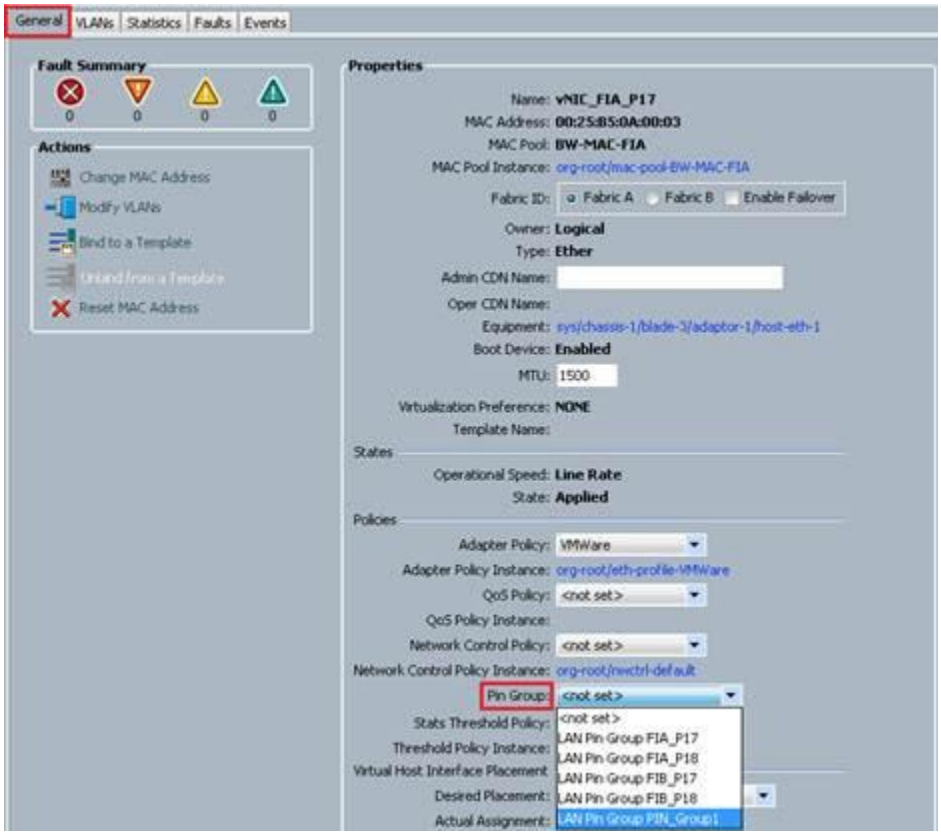

Ethernet LAN Switch A
Ethernet LAN Switch B
VLAN Port #
10 1
10 2
1 2 3 4
Fabric Interconnect A
End Host Mode (NPV)
Fabric Interconnect B
End Host Mode (NPV)
Fabric Interconnect-A
VLAN FI Port LAN Switch Port
10 FC-1/17 1
10 FC-1/18 2
Fabric Interconnect-B
VLAN FI Port LAN Switch Port
10 FC-1/17 1
10 FC-1/18 2
17 18 19 20
Port 17 to 20 are Ethernet uplink ports
IOM-1
IOM-2
vNIC1
vNIC2
ESXi5.5_Service_Profile
vNIC # vNIC Name Fabric ID
vNIC1 vNIC_FIA_P17 A
vNIC2 vNIC_FIB_P17 B
UCS Blade Server 1
Cisco UCS 5108 Chassis

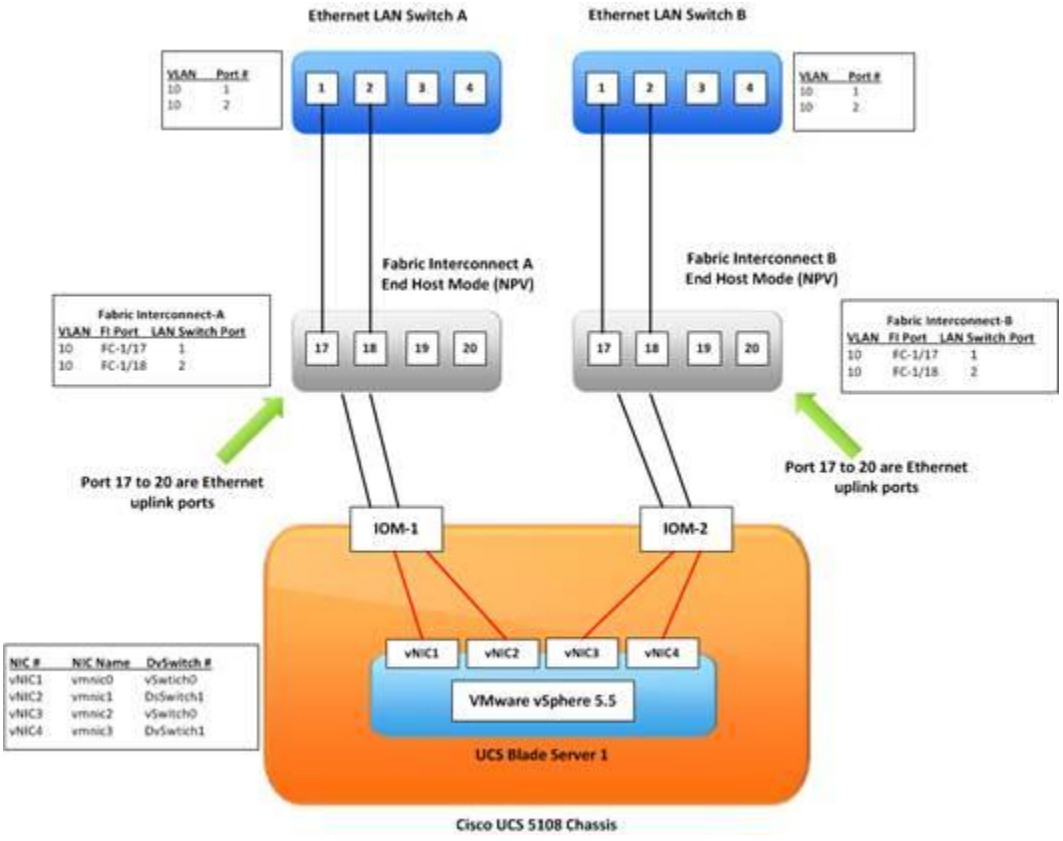
Fault Summary
0 0 2 3
Equipment Servers LAN SAN VM Admin Storage
Filter: All
LAN
LAN Cloud
Fabric A
Fabric B
QoS System Class
LAN Pin Groups
Threshold Policies
VLAN Groups

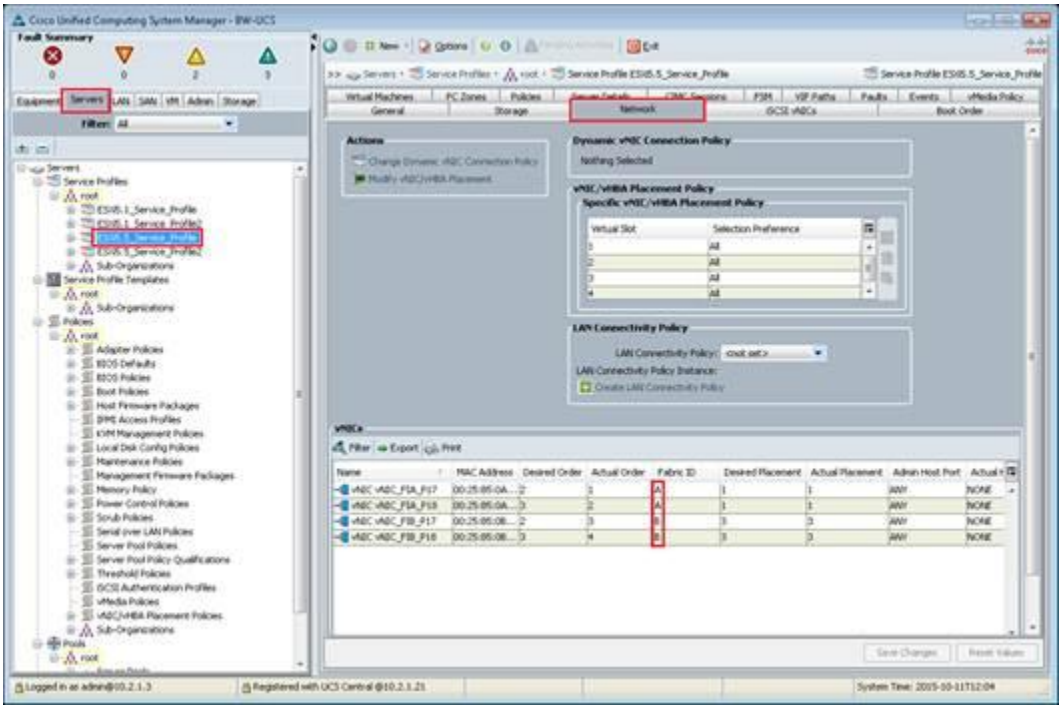
Create LAN Pin Group
Create LAN Pin Group
Name: Pin_Group1
Description:
Targets
Fabric A
Interface: Eth Interface 1/17
Fabric B
Interface: Eth Interface 1/17
OK
Cancel

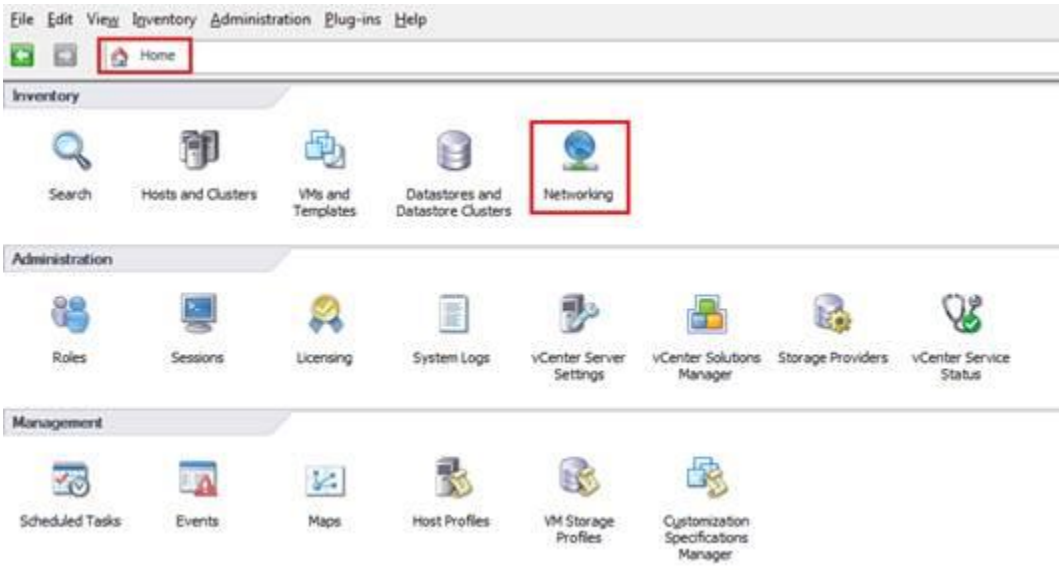

Fault Summary
0
0
2
3
Equipment
Servers
LAN
SAN
VM
Admin
Storage
Filter: All
LAN
LAN Cloud
Fabric A
Fabric B
QoS System Class
LAN Pin Groups
LAN Pin Group FIA_P17
LAN Pin Group FIA_P18
LAN Pin Group FIB_P17
LAN Pin Group FIB_P18
LAN Pin Group PIN_Group1
Threshold Policies
New
Options
Exit
>> LAN > LAN Cloud > LAN Pin Groups > LAN Pin Group PIN_Group1
General
Events
Name: PIN_Group1
Description:
Targets
Fabric A
Interface: Eth Interface 1/17
Fabric B
Interface: Eth Interface 1/17

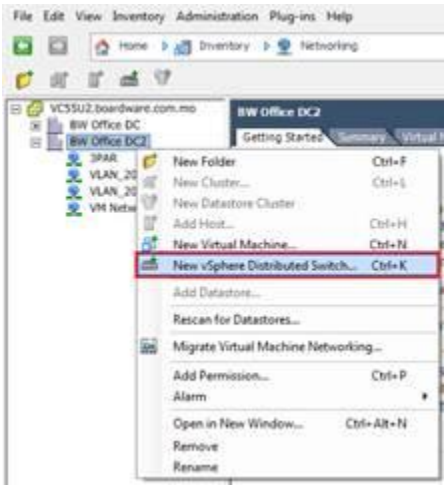

Fault Summary
0
0
2
3
Equipment
Servers
LAN
SAN
VM
Admin
Storage
Filter: All
Servers
Service Profiles
root
ESXi5.1_Service_Profile
ESXi5.1_Service_Profile2
ESXi5.5_Service_Profile
iSCSI vNICs
vHBAs
vNICs
vNIC vNIC_FIA_P17
vNIC vNIC_FIB_P17

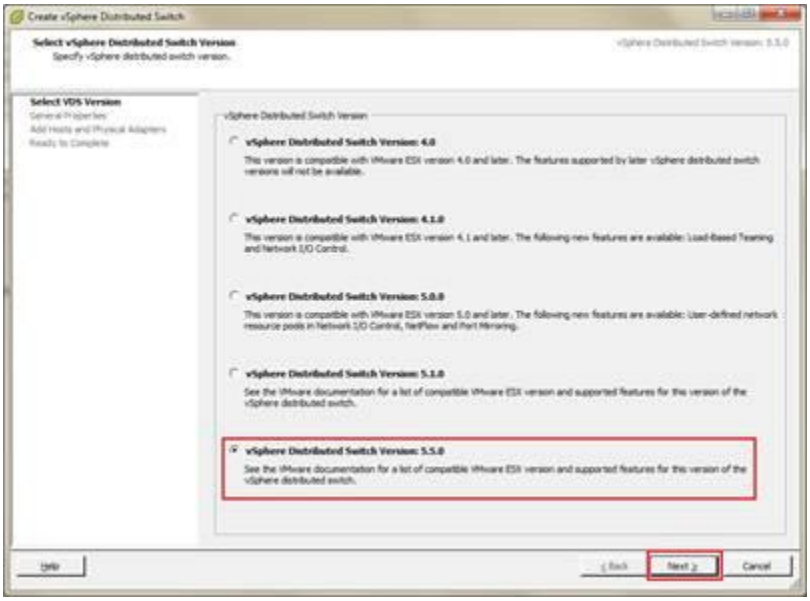

General
VLANs
Statistics
Faults
Events
Fault Summary
0
0
0
0
Actions
Change MAC Address
Modify VLANs
Bind to a Template
Unbind from a Template
Reset MAC Address
Properties
Name: vNIC_FIA_P17
MAC Address: 00:25:B5:0A:00:03
MAC Pool: BW-MAC-FIA
MAC Pool Instance: org-root/mac-pool-BW-MAC-FIA
Fabric ID: Fabric A Fabric B Enable Failover
Owner: Logical
Type: Ether
Admin CDN Name:
Oper CDN Name:
Equipment: sys/chassis-1/blade-3/adaptor-1/host-eth-1
Boot Device: Enabled
MTU: 1500
Virtualization Preference: NONE
Template Name:
States
Operational Speed: Line Rate
State: Applied
Policies
Adapter Policy: VMWare
Adapter Policy Instance: org-root/eth-profile-VMWare
QoS Policy: <not set>
QoS Policy Instance:
Network Control Policy: <not set>
Network Control Policy Instance: org-root/nwctrl-default
Pin Group: <not set>
Stats Threshold Policy:
Threshold Policy Instance:
Virtual Host Interface Placement
Desired Placement:
Actual Assignment:
<not set>
LAN Pin Group FIA_P17
LAN Pin Group FIA_P18
LAN Pin Group FIB_P17
LAN Pin Group FIB_P18
LAN Pin Group PIN_Group1

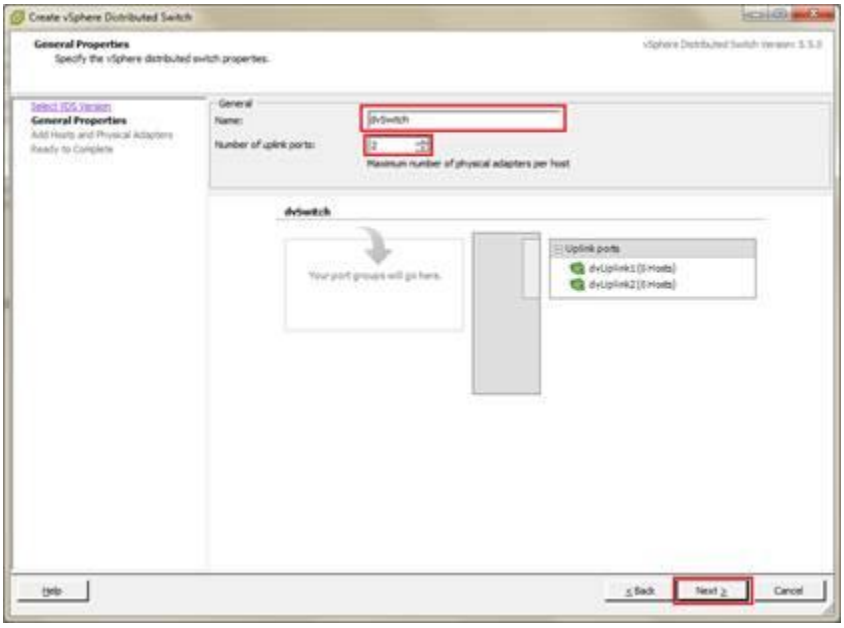

Ethernet LAN Switch A
Ethernet LAN Switch B
VLAN Port #
10 1
10 2
1 2 3 4
Fabric Interconnect A
End Host Mode (NPV)
Fabric Interconnect B
End Host Mode (NPV)
Fabric Interconnect-A
VLAN FI Port LAN Switch Port
10 FC-1/17 1
10 FC-1/18 2
17 18 19 20
Fabric Interconnect-B
VLAN FI Port LAN Switch Port
10 FC-1/17 1
10 FC-1/18 2
Port 17 to 20 are Ethernet uplink ports
Port 17 to 20 are Ethernet uplink ports
IOM-1
IOM-2
NIC # NIC Name DvSwitch #
vNIC1 vmnic0 vSwtich0
vNIC2 vmnic1 DsSwitch1
vNIC3 vmnic2 vSwitch0
vNIC4 vmnic3 DvSwtich1
vNIC1 vNIC2 vNIC3 vNIC4
VMware vSphere 5.5
UCS Blade Server 1
Cisco UCS 5108 Chassis

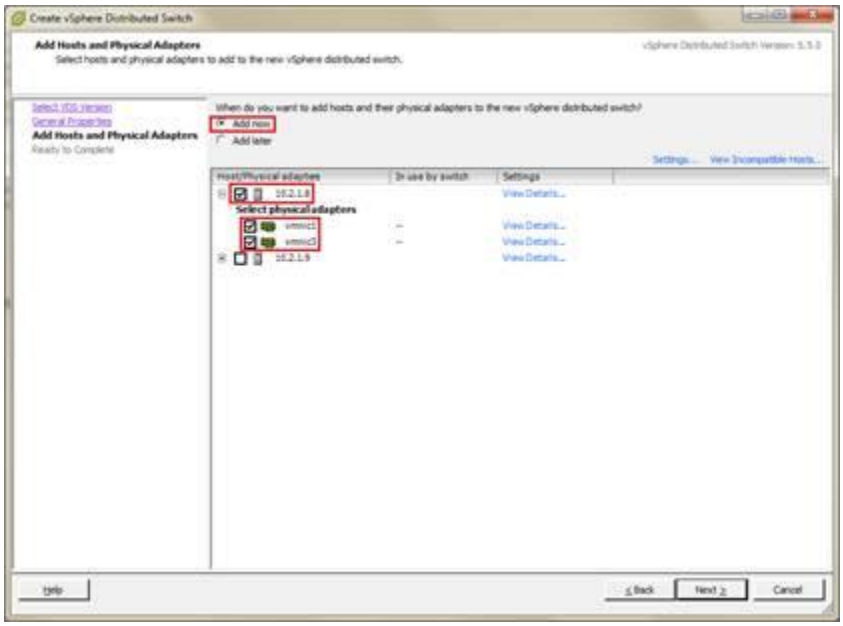

Cisco Unified Computing System Manager - BW-UCS
Fault Summary
Equipment
Servers
LAN
SAN
VM
Admin
Storage
Service Profiles
root
Sub-Organizations
Service Profile Templates
Policies
Pools
Actions
Dynamic vNIC Connection Policy
Nothing Selected
vNIC/vHBA Placement Policy
Specific vNIC/vHBA Placement Policy
Virtual Slot
Selection Preference
LAN Connectivity Policy
LAN Connectivity Policy:
LAN Connectivity Policy Instance:
vNICs
Name
MAC Address
Desired Order
Actual Order
Fabric ID
Desired Placement
Actual Placement
Admin Host Port
Actual
Save Changes
Reset Values

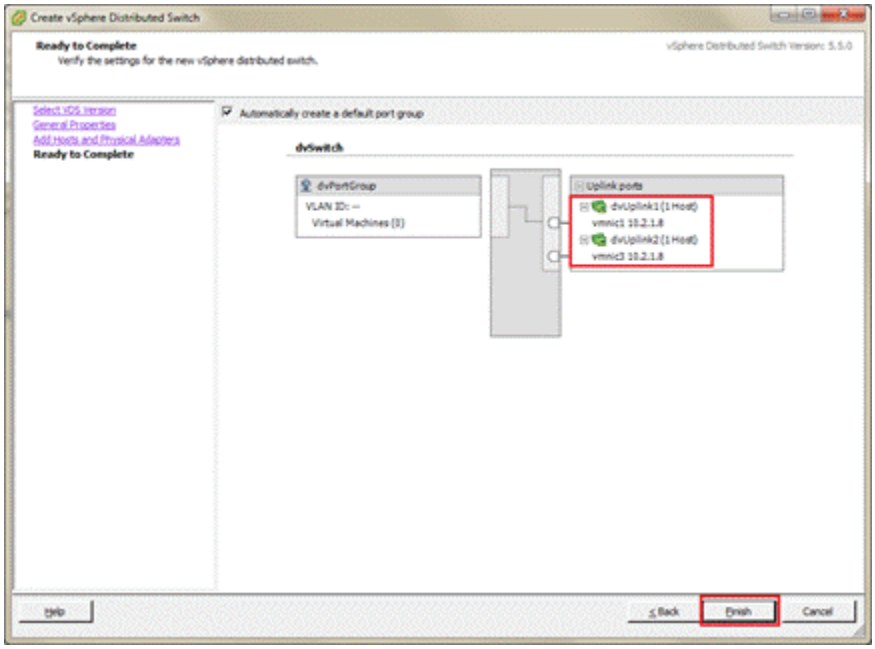

File Edit View Inventory Administration Plug-ins Help
Home
Inventory
Search
Hosts and Clusters
VMs and Templates
Datastores and Datastore Clusters
Networking
Administration
Roles
Sessions
Licensing
System Logs
vCenter Server Settings
vCenter Solutions Manager
Storage Providers
vCenter Service Status
Management
Scheduled Tasks
Events
Maps
Host Profiles
VM Storage Profiles
Customization Specifications Manager

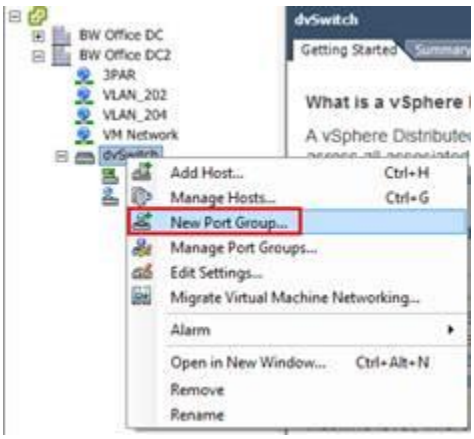

File Edit View Inventory Administration Plug-ins Help
Home
Inventory
Networking
VCSSU2.boardware.com.mo
BW Office DC
BW Office DC2
3PAR
VLAN_20
VLAN_20
VM Netw
BW Office DC2
Getting Started
New Folder Ctrl+F
New Cluster... Ctrl+L
New Datastore Cluster
Add Host... Ctrl+H
New Virtual Machine... Ctrl+N
New vSphere Distributed Switch... Ctrl+K
Add Datastore...
Rescan for Datastores...
Migrate Virtual Machine Networking...
Add Permission... Ctrl+P
Alarm
Open in New Window... Ctrl+Alt+N
Remove
Rename

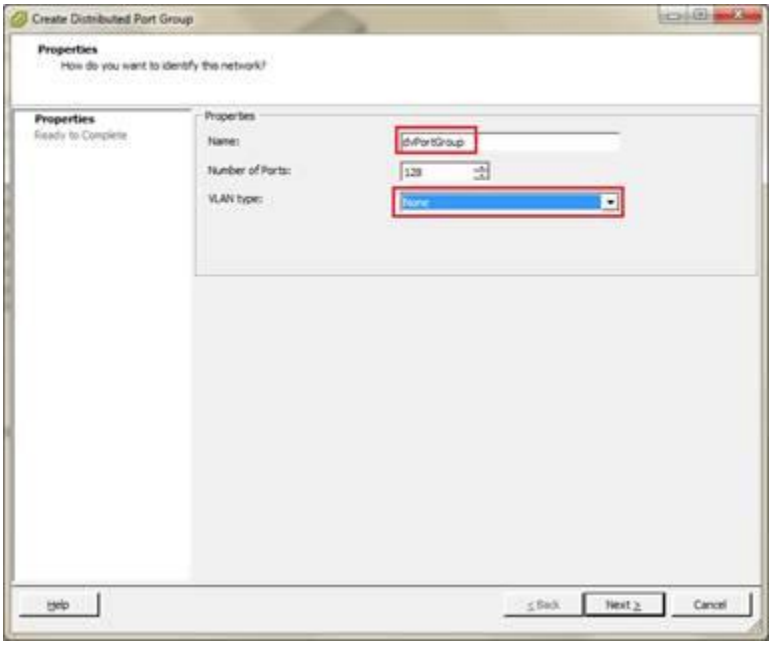

Create vSphere Distributed Switch
Select vSphere Distributed Switch Version
Specify vSphere distributed switch version.
Select VDS Version
General Properties
Add Hosts and Physical Adapters
Ready to Complete
vSphere Distributed Switch Version
vSphere Distributed Switch Version: 4.0
This version is compatible with VMware ESX version 4.0 and later. The features supported by later vSphere distributed switch versions will not be available.
vSphere Distributed Switch Version: 4.1.0
This version is compatible with VMware ESX version 4.1 and later. The following new features are available: Load-Based Teaming and Network I/O Control.
vSphere Distributed Switch Version: 5.0.0
This version is compatible with VMware ESX version 5.0 and later. The following new features are available: User-defined network resource pools in Network I/O Control, NetFlow and Port Mirroring.
vSphere Distributed Switch Version: 5.1.0
See the VMware documentation for a list of compatible VMware ESX version and supported features for this version of the vSphere distributed switch.
vSphere Distributed Switch Version: 5.5.0
See the VMware documentation for a list of compatible VMware ESX version and supported features for this version of the vSphere distributed switch.
Help
< Back
Next >
Cancel

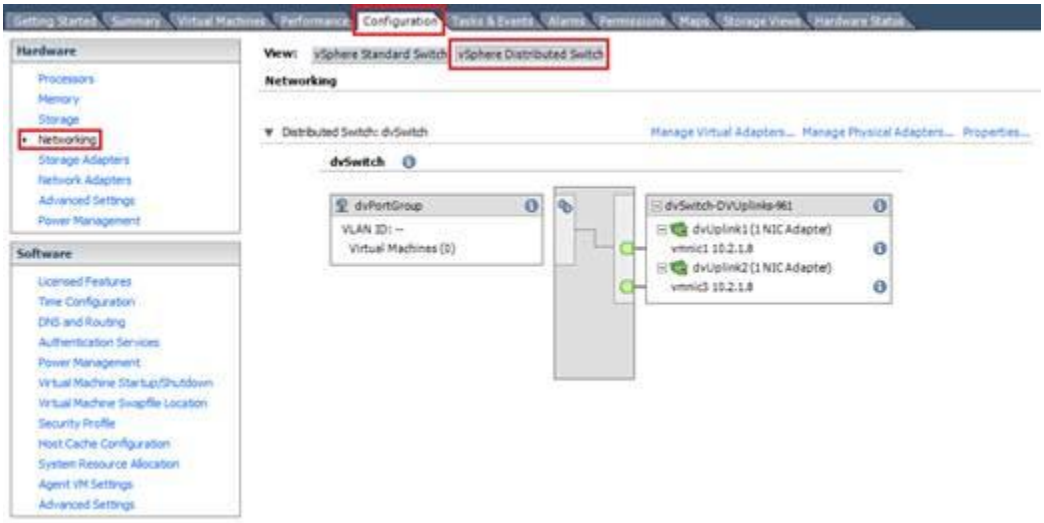

Create vSphere Distributed Switch
General Properties
Specify the vSphere distributed switch properties.
General
Name:
dvSwitch
Number of uplink ports:
Maximum number of physical adapters per host
dvSwitch
Your port groups will go here.
Uplink ports
Help
< Back
Next >
Cancel

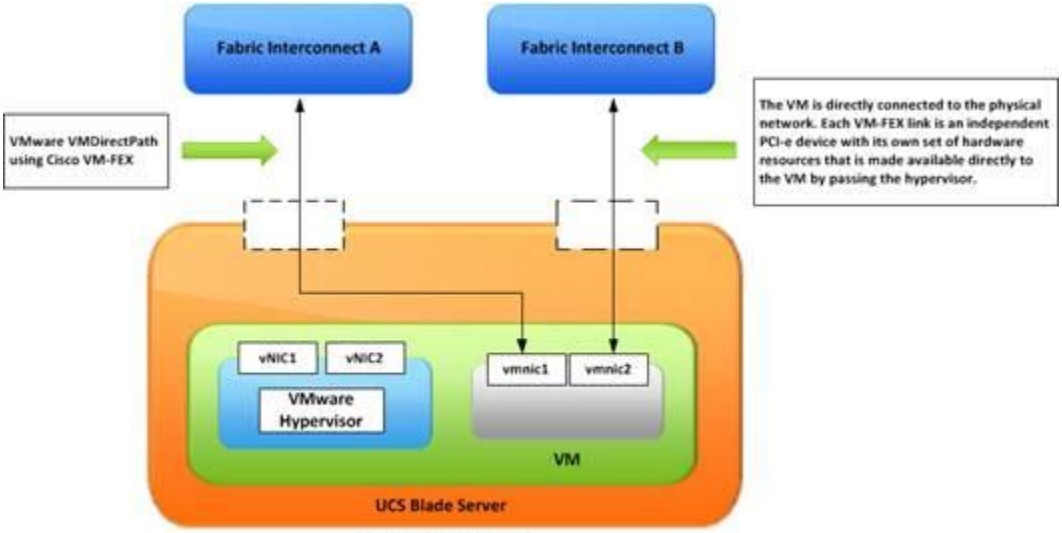

Create vSphere Distributed Switch
Add Hosts and Physical Adapters
Select hosts and physical adapters to add to the new vSphere distributed switch.
When do you want to add hosts and their physical adapters to the new vSphere distributed switch?
Add now
Add later
Host/Physical adapters
In use by switch
Settings
Select physical adapters
Help
< Back
Next >
Cancel


Create vSphere Distributed Switch
Ready to Complete
Verify the settings for the new vSphere distributed switch.
vSphere Distributed Switch Version: 5.5.0
Select VDS Version
General Properties
Add Hosts and Physical Adapters
Ready to Complete
Automatically create a default port group
dvSwitch
dvPortGroup
VLAN ID: --
Virtual Machines (0)
Uplink ports
dvUplink1 (1 Host)
vmnic1 10.2.1.8
dvUplink2 (1 Host)
vmnic3 10.2.1.8
Help
< Back
Finish
Cancel

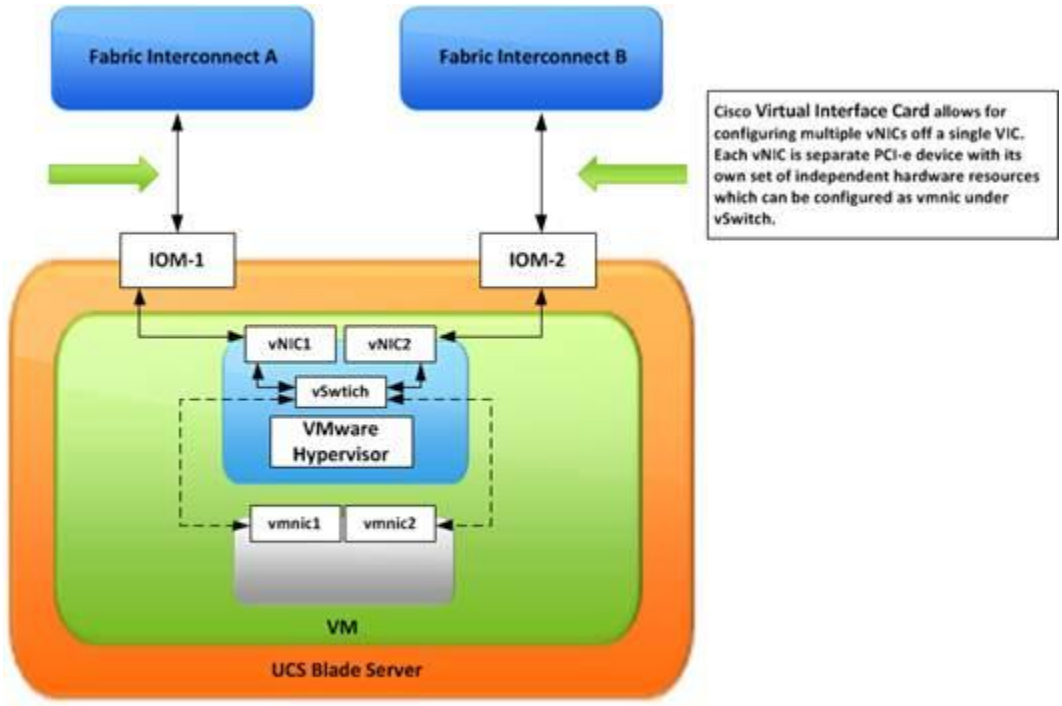

BW Office DC
BW Office DC2
3PAR
VLAN_202
VLAN_204
VM Network
dvSwitch
dvSwitch
Getting Started
Summary
What is a vSphere
A vSphere Distribute
Add Host... Ctrl+H
Manage Hosts... Ctrl+G
New Port Group...
Manage Port Groups...
Edit Settings...
Migrate Virtual Machine Networking...
Alarm
Open in New Window... Ctrl+Alt+N
Remove
Rename


Create Distributed Port Group
Properties
How do you want to identify this network?
Properties
Ready to Complete
Properties
Name:
dvPortGroup
Number of Ports:
128
VLAN type:
None
Help
< Back
Next >
Cancel


Getting Started
Summary
Virtual Machines
Performance
Configuration
Tasks & Events
Alarms
Permissions
Maps
Storage Views
Hardware Status
Hardware
Processors
Memory
Storage
Networking
Storage Adapters
Network Adapters
Advanced Settings
Power Management
Software
Licensed Features
Time Configuration
DNS and Routing
Authentication Services
Power Management
Virtual Machine Startup/Shutdown
Virtual Machine Swapfile Location
Security Profile
Host Cache Configuration
System Resource Allocation
Agent VM Settings
Advanced Settings
View:
vSphere Standard Switch
vSphere Distributed Switch
Networking
Distributed Switch: dvSwitch
Manage Virtual Adapters...
Manage Physical Adapters...
Properties...
dvSwitch
dvPortGroup
VLAN ID: --
Virtual Machines (0)
dvSwitch-DVUplinks-961
dvUplink1 (1 NIC Adapter)
vmnic1 10.2.1.8
dvUplink2 (1 NIC Adapter)
vmnic3 10.2.1.8

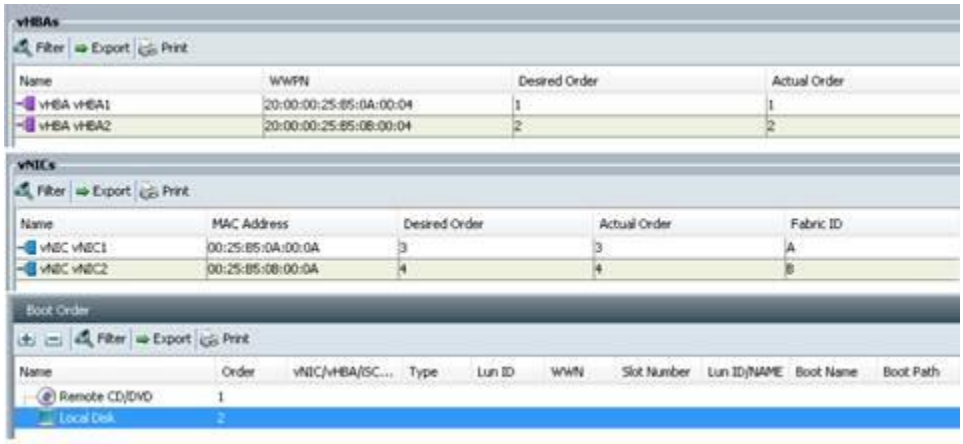


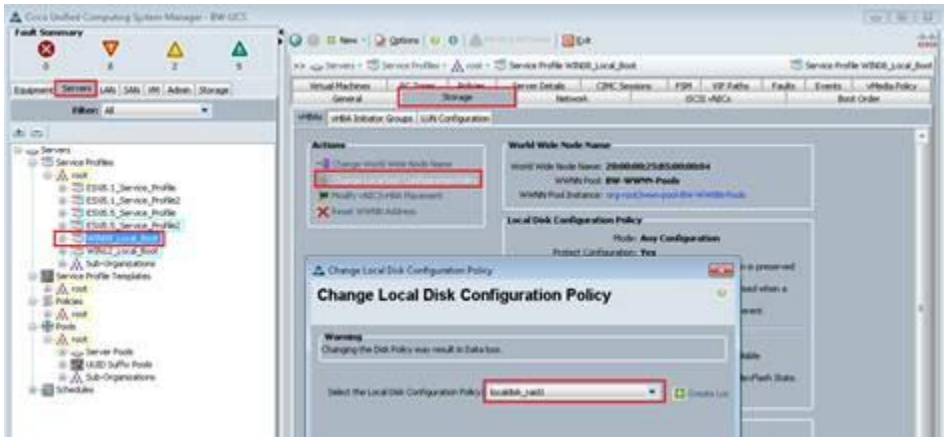
Cisco UCS 5108 Chassis

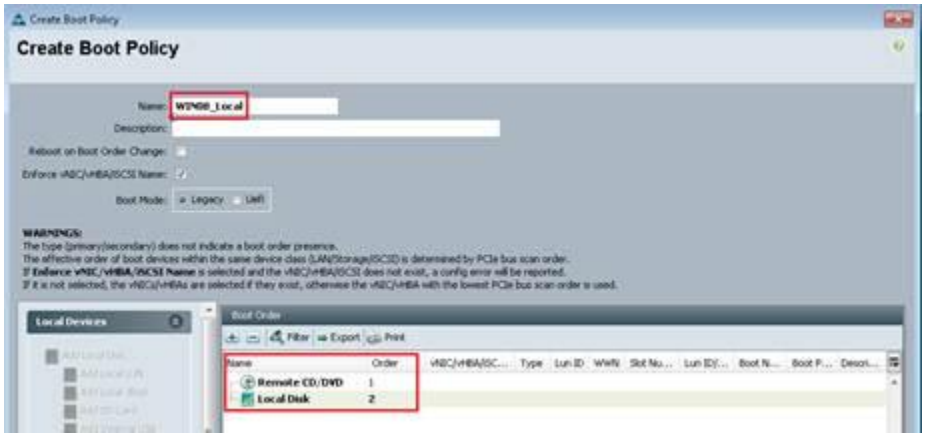


Cisco UCS 5108 Chassis

Chapter 3: Installing an Operating System on Cisco UCS






Create Boot Policy
Create Boot Policy
Name: WIN08_Local
Description:
Reboot on Boot Order Change:
Enforce vNIC/vHBA/iSCSI Name:
Boot Mode: Legacy UEFI
WARNINGS:
The type (primary/secondary) does not indicate a boot order presence.
The effective order of boot devices within the same device class (LAN/Storage/iSCSI) is determined by PCIe bus scan order.
If Enforce vNIC/vHBA/iSCSI Name is selected and the vNIC/vHBA/iSCSI does not exist, a config error will be reported.
If it is not selected, the vNICs/vHBAs are selected if they exist, otherwise the vNIC/vHBA with the lowest PCIe bus scan order is used.
Local Devices
Boot Order
Filter
Export
Print
Name
Order
Remote CD/DVD 1
Local Disk 2

Download Software
Download Cart (0 items)
Feedback
Help
Downloads Home > Products > Servers - Unified Computing > UCS B-Series Blade Server Software
Select a Software Type:
Unified Computing System (UCS) Diagnostics
Unified Computing System (UCS) Documentation Roadmap Bundle
Unified Computing System (UCS) Drivers
Unified Computing System (UCS) Server Software Bundle
Unified Computing System (UCS) Utilities

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UCS B-Series Blade Server Software
Expand All | Collapse All
Latest
3.0(2b)
2.2(5b)
2.1(3g)
2.0(5c)
All Releases
3.0
2.2
Release 2.2(5b)
Add Device
Add Notification
File Information
Release Date
Size
Inventory List
ucs-bxxx-drivers.2.2.5b.iso-inventory-list.zip
10-SEP-2015
0.05 MB
Download
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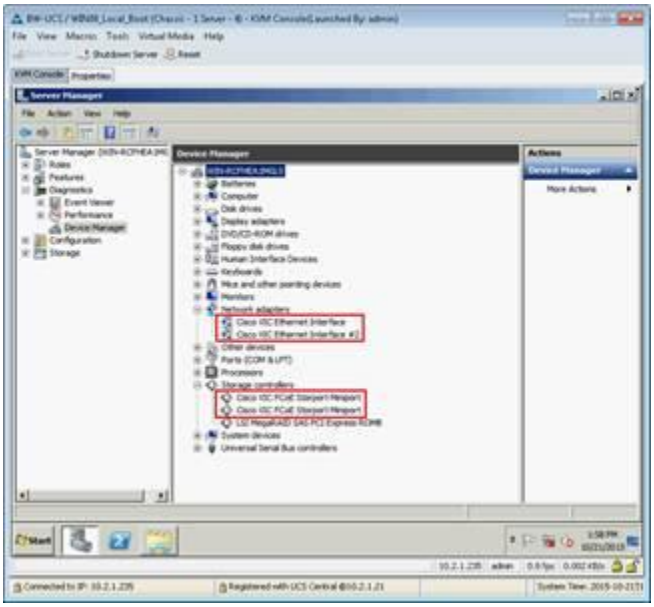
ISO image of UCS-related drivers
ucs-bxxx-drivers.2.2.5b.iso
07-AUG-2015
1927.74 MB
Download
Add to cart



vHBAs

Filter | Export | Print

Name	WWPN	Desired Order	Actual Order	Fabric ID	Desired Placement	Actual Placement
vHBA vHBA1	20:00:00:25:B5:0A:00:05	1	1	A	Any	Any
vHBA vHBA2	20:00:00:25:B5:0B:00:05	2	2	A	Any	Any

vNICs

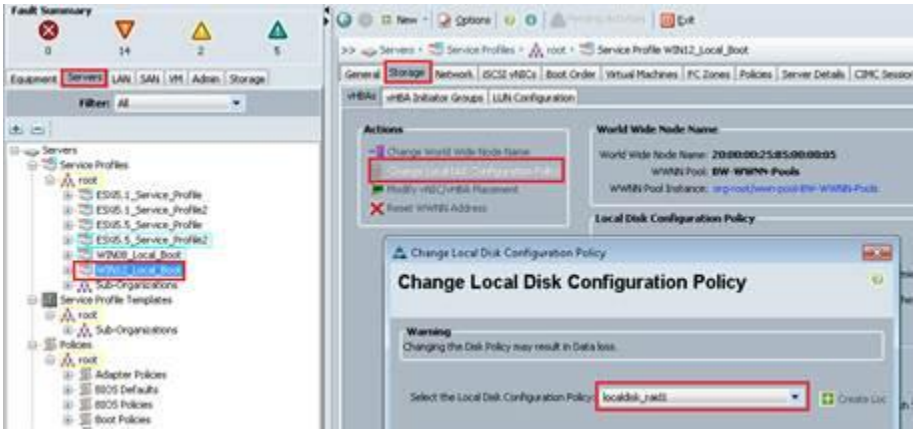
Filter | Export | Print

Name	MAC Address	Desired Order	Actual Order	Fabric ID	Desired Placement	Actual Placement	Admin Host Port	Actual H
vNIC vNIC1	00:25:B5:0A:00:0B	3	3	A	Any	Any	ANY	NONE
vNIC vNIC2	00:25:B5:0B:00:0B	4	4	B	Any	Any	ANY	NONE

Boot Order

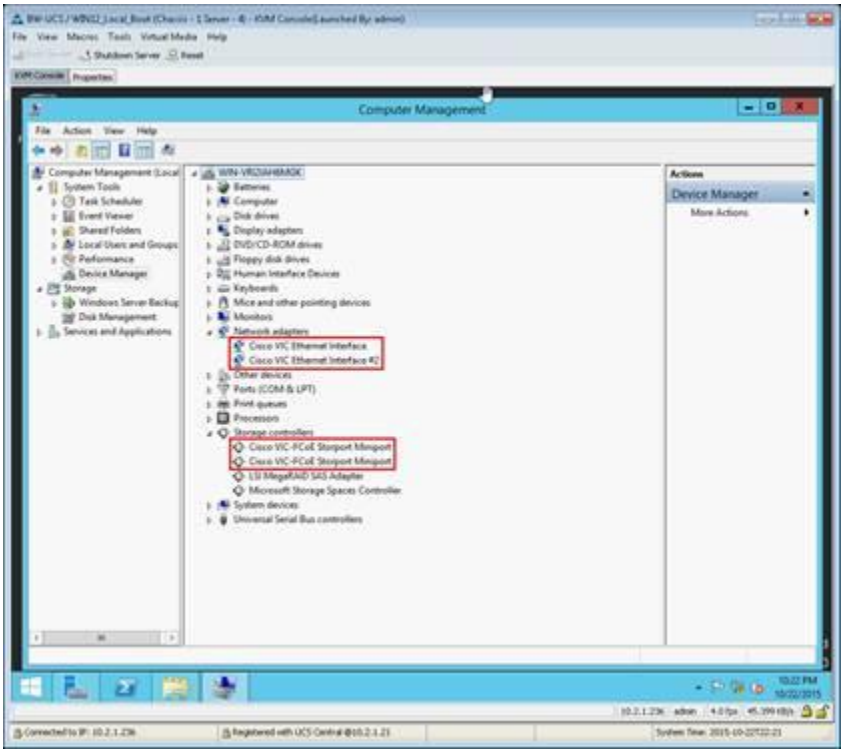
Filter | Export | Print

Name	Order	vNIC/vHBA/iSCSI vNIC	Type	Lun ID	WWN	Slot Number	Lun ID/NAME	Boot Name	Boot Path
Remote Virtual Drive	1								
Remote CD/DVD	2								
Local Disk	3								


Change Local Disk Configuration Policy
Change Local Disk Configuration Policy
Warning
Changing the Disk Policy may result in Data loss.

Create Boot Policy
Create Boot Policy
Name: WIN12_Local
Description:
Reboot on Boot Order Change:
Enforce vNIC/vHBA/iSCSI Name:
Boot Mode: Legacy UEFI
WARNINGS:
Local Devices
Boot Order
Remote CD/DVD 1
Local Disk 2

Download Software
Download Cart (0 items)
Feedback
Help
Downloads Home > Products > Servers - Unified Computing > UCS B-Series Blade Server Software
Select a Software Type:
Unified Computing System (UCS) Diagnostics
Unified Computing System (UCS) Documentation Roadmap Bundle
Unified Computing System (UCS) Drivers
Unified Computing System (UCS) Server Software Bundle
Unified Computing System (UCS) Utilities



vHBAs

Filter | Export | Print

Name	WWPN	Desired Order	Actual Order	Fabric ID	Desired Placement	Actual Placement
vHBA vHBA1	20:00:00:25:B5:0A:00:06	1	1	A	Any	Any
vHBA vHBA2	20:00:00:25:B5:0B:00:06	2	2	B	Any	Any

vNICs

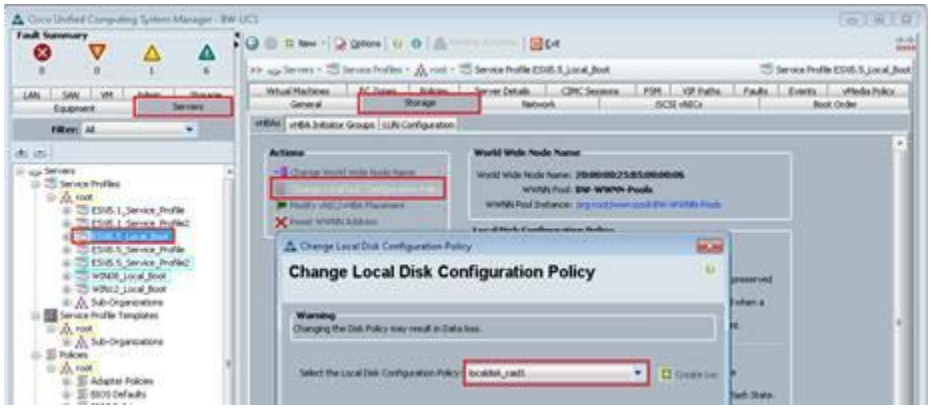
Filter | Export | Print

Name	MAC Address	Desired Order	Actual Order	Fabric ID	Desired Placement	Actual Placement	Admin Host Port	Actual Host Por
vNIC vNIC1	00:25:B5:0A:00:0C	3	3	A	Any	Any	ANY	NONE
vNIC vNIC2	00:25:B5:0B:00:0C	4	4	B	Any	Any	ANY	NONE

Boot Order

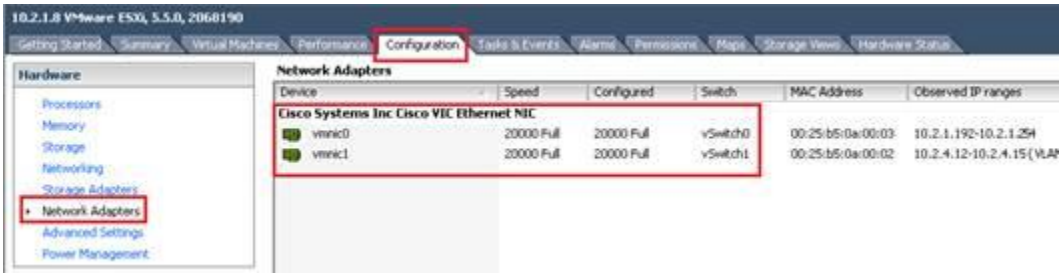
Filter | Export | Print

Name	Order	vNIC/vHBA/iSCSI vNIC	Type	Lun ID	WWN	Slot Number	Lun ID/NAME	Boot Name	Boot Path
Remote CD/DVD	1								
Local Disk	2								


Change Local Disk Configuration Policy
Change Local Disk Configuration Policy
Warning

Create Boot Policy
Create Boot Policy
Name: ESXi5.5_Local
Description:
Reboot on Boot Order Change:
Enforce vNIC/vHBA/iSCSI Name:
Boot Mode: Legacy UEFI
WARNINGS:
Local Devices
Boot Order
Remote CD/DVD 1
Local Disk 2

10.2.1.8 VMware ESXi, 5.5.0, 2068190
Getting Started
Summary
Virtual Machines
Performance
Configuration
Tasks & Events
Alarms
Permissions
Maps
Storage Views
Hardware Status
Hardware
Processors
Memory
Storage
Networking
Storage Adapters
Network Adapters
Advanced Settings
Power Management
Storage Adapters
Add...
Remove
Refresh
Rescan All...
Device
Type
WWN
iSCSI Software Adapter
vmhba32
iSCSI
iqn.1998-01.com.vmware:esxi55a-2f3c74ad:
Cisco VIC FCoE HBA Driver
vmhba1
Fibre Channel
20:00:00:25:b5:00:00:01 20:00:00:25:b5:0a:00:01
vmhba2
Fibre Channel
20:00:00:25:b5:00:00:01 20:00:00:25:b5:0b:00:00
MegaRAID SAS SKINNY Controller
vmhba0
SCSI


10.2.1.8 VMware ESXi, 5.5.0, 2068190
Getting Started
Summary
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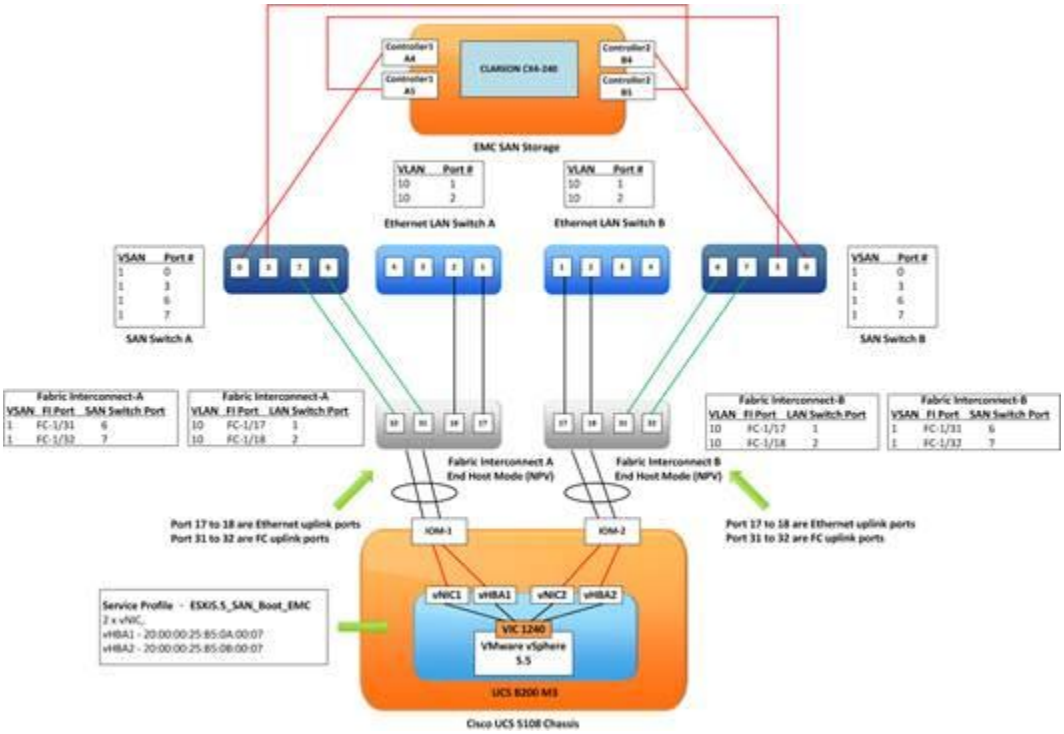
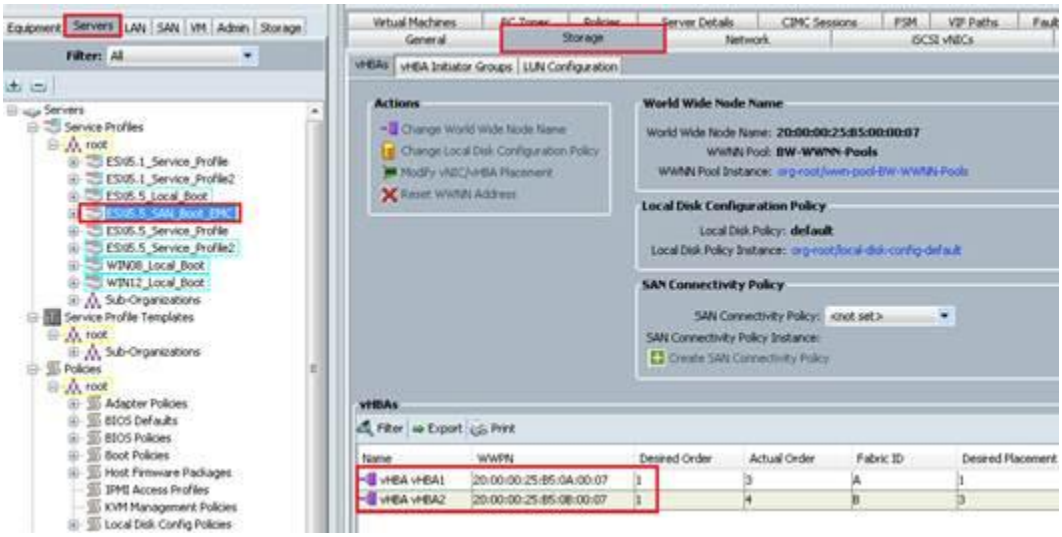
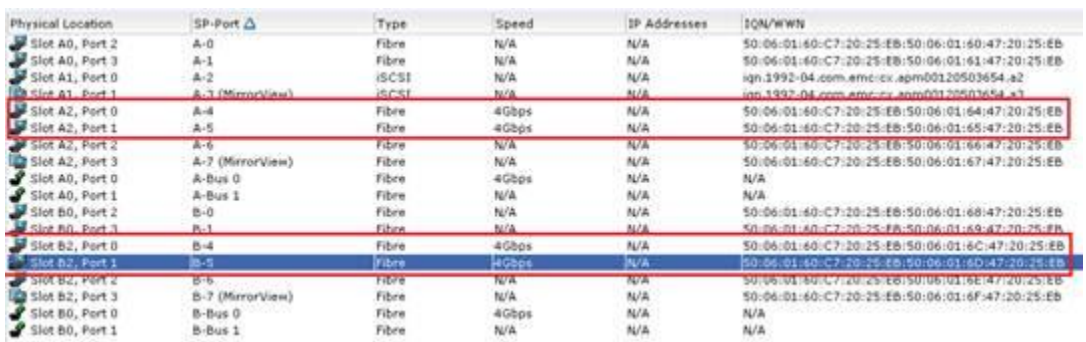
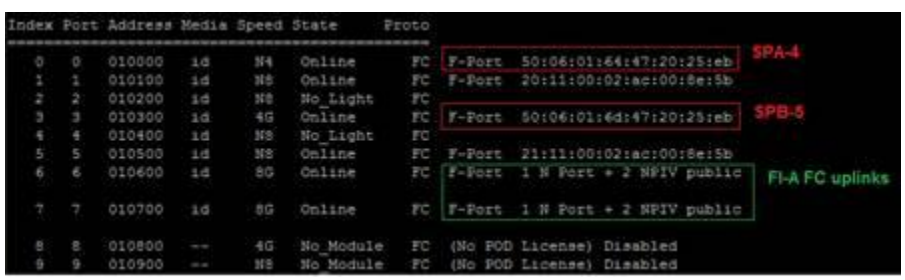
Tasks & Events
Alarms
Permissions
Maps
Storage Views
Hardware Status
Hardware
Processors
Memory
Storage
Networking
Storage Adapters
Network Adapters
Advanced Settings
Power Management
Network Adapters
Device
Speed
Configured
Switch
MAC Address
Observed IP ranges
Cisco Systems Inc Cisco VIC Ethernet NIC
vmnic0
20000 Full
20000 Full
vSwitch0
00:25:b5:0a:00:03
10.2.1.192-10.2.1.254
vmnic1
20000 Full
20000 Full
vSwitch1
00:25:b5:0a:00:02
10.2.4.12-10.2.4.15(VLAN


CLARIION CX4-240
EMC SAN Storage
VLAN Port #
10 1
10 2
Ethernet LAN Switch A
Ethernet LAN Switch B
VSAN Port #
1 0
1 3
1 6
1 7
SAN Switch A
SAN Switch B
Fabric Interconnect-A
VSAN FI Port SAN Switch Port
1 FC-1/31 6
1 FC-1/32 7
Fabric Interconnect-A
VLAN FI Port LAN Switch Port
10 FC-1/17 1
10 FC-1/18 2
Fabric Interconnect-B
VLAN FI Port LAN Switch Port
10 FC-1/17 1
10 FC-1/18 2
Fabric Interconnect-B
VSAN FI Port SAN Switch Port
1 FC-1/31 6
1 FC-1/32 7
Fabric Interconnect A
End Host Mode (NPV)
Fabric Interconnect B
End Host Mode (NPV)
Port 17 to 18 are Ethernet uplink ports
Port 31 to 32 are FC uplink ports
Port 17 to 18 are Ethernet uplink ports
Port 31 to 32 are FC uplink ports
IOM-1
IOM-2
Service Profile - ESXi5.5_SAN_Boot_EMC
2 x vNIC,
vHBA1 - 20:00:00:25:B5:0A:00:07
vHBA2 - 20:00:00:25:B5:0B:00:07
vNIC1
vHBA1
vNIC2
vHBA2
VIC 1240
VMware vSphere 5.5
UCS B200 M3
Cisco UCS 5108 Chassis

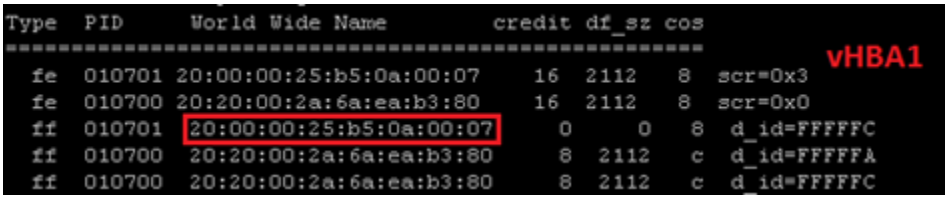


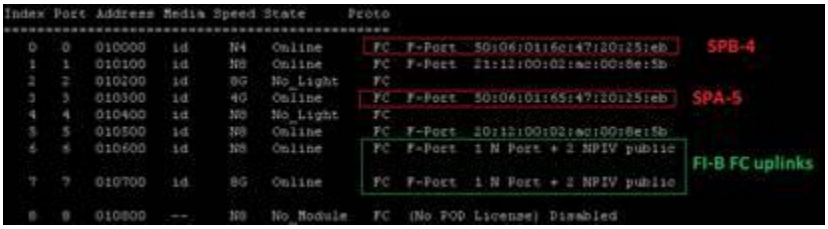


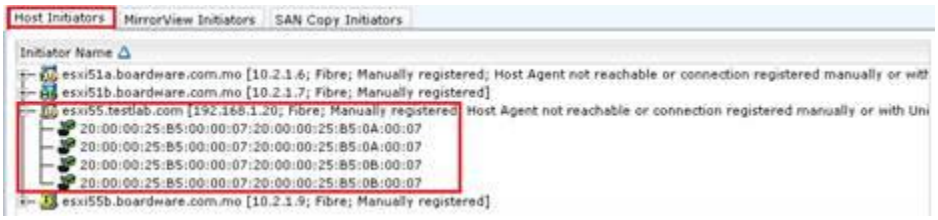
Physical Location	SP-Port	Type	Speed	IP Addresses	IQN/WWN
Slot A0, Port 2	A-0	Fibre	N/A	N/A	50:06:01:60:C7:20:25:EB:50:06:01:60:47:20:25:EB
Slot A0, Port 3	A-1	Fibre	N/A	N/A	50:06:01:60:C7:20:25:EB:50:06:01:61:47:20:25:EB
Slot A1, Port 0	A-2	iSCSI	N/A	N/A	iqn.1992-04.com.emc:cx.apm00120503654.a2
Slot A1, Port 1	A-3 (MirrorView)	iSCSI	N/A	N/A	iqn.1992-04.com.emc:cx.apm00120503654.a3
Slot A2, Port 0	A-4	Fibre	4Gbps	N/A	50:06:01:60:C7:20:25:EB:50:06:01:64:47:20:25:EB
Slot A2, Port 1	A-5	Fibre	4Gbps	N/A	50:06:01:60:C7:20:25:EB:50:06:01:65:47:20:25:EB
Slot A2, Port 2	A-6	Fibre	N/A	N/A	50:06:01:60:C7:20:25:EB:50:06:01:66:47:20:25:EB
Slot A2, Port 3	A-7 (MirrorView)	Fibre	N/A	N/A	50:06:01:60:C7:20:25:EB:50:06:01:67:47:20:25:EB
Slot A0, Port 0	A-Bus 0	Fibre	4Gbps	N/A	N/A
Slot A0, Port 1	A-Bus 1	Fibre	N/A	N/A	N/A
Slot B0, Port 2	B-0	Fibre	N/A	N/A	50:06:01:60:C7:20:25:EB:50:06:01:68:47:20:25:EB
Slot B0, Port 3	B-1	Fibre	N/A	N/A	50:06:01:60:C7:20:25:EB:50:06:01:69:47:20:25:EB
Slot B2, Port 0	B-4	Fibre	4Gbps	N/A	50:06:01:60:C7:20:25:EB:50:06:01:6C:47:20:25:EB
Slot B2, Port 1	B-5	Fibre	4Gbps	N/A	50:06:01:60:C7:20:25:EB:50:06:01:6D:47:20:25:EB
Slot B2, Port 2	B-6	Fibre	N/A	N/A	50:06:01:60:C7:20:25:EB:50:06:01:6E:47:20:25:EB
Slot B2, Port 3	B-7 (MirrorView)	Fibre	N/A	N/A	50:06:01:60:C7:20:25:EB:50:06:01:6F:47:20:25:EB
Slot B0, Port 0	B-Bus 0	Fibre	4Gbps	N/A	N/A
Slot B0, Port 1	B-Bus 1	Fibre	N/A	N/A	N/A

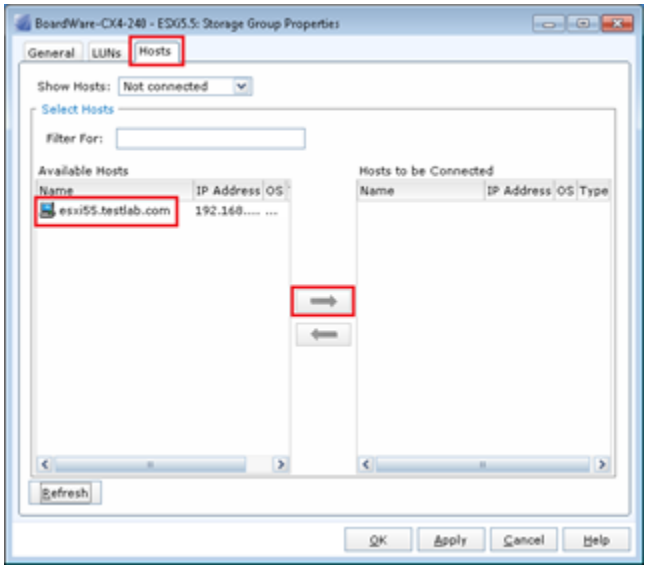


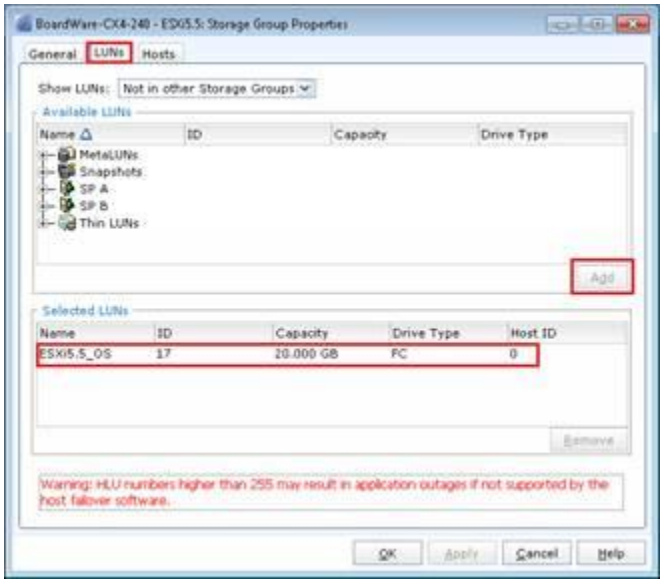
Index	Port	Address	Media	Speed	State	Proto		
0	0	010000	id	N4	Online	FC	F-Port 50:06:01:64:47:20:25:eb	SPA-4
1	1	010100	id	N8	Online	FC	F-Port 20:11:00:02:ac:00:8e:5b	
2	2	010200	id	N8	No_Light	FC		
3	3	010300	id	4G	Online	FC	F-Port 50:06:01:6d:47:20:25:eb	SPB-5
4	4	010400	id	N8	No_Light	FC		
5	5	010500	id	N8	Online	FC	F-Port 21:11:00:02:ac:00:8e:5b	
6	6	010600	id	8G	Online	FC	F-Port 1 N Port + 2 NPIV public	FI-A FC uplinks
7	7	010700	id	8G	Online	FC	F-Port 1 N Port + 2 NPIV public	
8	8	010800	--	4G	No_Module	FC	(No POD License) Disabled	
9	9	010900	--	N8	No_Module	FC	(No POD License) Disabled	


Type PID World Wide Name credit df_sz cos
fe 010701 20:00:00:25:b5:0a:00:07 16 2112 8 scr=0x3
fe 010700 20:20:00:2a:6a:ea:b3:80 16 2112 8 scr=0x0
ff 010701 20:00:00:25:b5:0a:00:07 0 0 8 d_id=FFFFFC
ff 010700 20:20:00:2a:6a:ea:b3:80 8 2112 c d_id=FFFFFA
ff 010700 20:20:00:2a:6a:ea:b3:80 8 2112 c d_id=FFFFFC
vHBA1

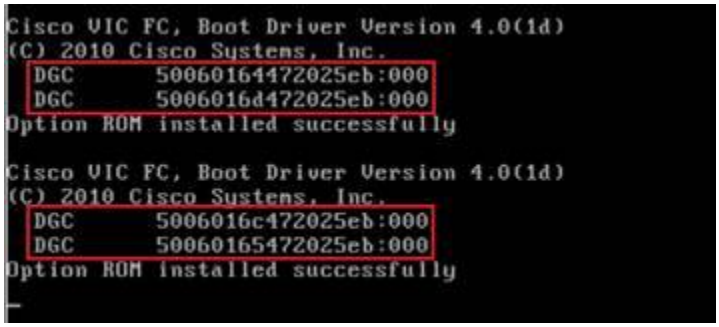

Index Port Address Media Speed State Proto
0 0 010000 id N4 Online FC F-Port 50:06:01:6c:47:20:25:eb
1 1 010100 id N8 Online FC F-Port 21:12:00:02:ac:00:8e:5b
2 2 010200 id 8G No_Light FC
3 3 010300 id 4G Online FC F-Port 50:06:01:65:47:20:25:eb
4 4 010400 id N8 No_Light FC
5 5 010500 id N8 Online FC F-Port 20:12:00:02:ac:00:8e:5b
6 6 010600 id N8 Online FC F-Port 1 N Port + 2 NPIV public
7 7 010700 id 8G Online FC F-Port 1 N Port + 2 NPIV public
8 8 010800 -- N8 No_Module FC (No POD License) Disabled
SPB-4
SPA-5
FI-B FC uplinks


Host Initiators
MirrorView Initiators
SAN Copy Initiators
Initiator Name
esxi51a.boardware.com.mo [10.2.1.6; Fibre; Manually registered; Host Agent not reachable or connection registered manually or wit
esxi51b.boardware.com.mo [10.2.1.7; Fibre; Manually registered]
esxi55.testlab.com [192.168.1.20; Fibre; Manually registered; Host Agent not reachable or connection registered manually or with Uni
20:00:00:25:B5:00:00:07:20:00:00:25:B5:0A:00:07
20:00:00:25:B5:00:00:07:20:00:00:25:B5:0A:00:07
20:00:00:25:B5:00:00:07:20:00:00:25:B5:0B:00:07
20:00:00:25:B5:00:00:07:20:00:00:25:B5:0B:00:07
esxi55b.boardware.com.mo [10.2.1.9; Fibre; Manually registered]


BoardWare-CX4-240 - ESXi5.5: Storage Group Properties
General
LUNs
Hosts
Show Hosts:
Not connected
Select Hosts
Filter For:
Available Hosts
Name
IP Address
OS
esxi55.testlab.com
192.168.....
Hosts to be Connected
Name
IP Address
OS
Type
Refresh
OK
Apply
Cancel
Help


BoardWare-CX4-240 - ESXi5.5: Storage Group Properties
General
LUNs
Hosts
Show LUNs:
Not in other Storage Groups
Available LUNs
Name
ID
Capacity
Drive Type
MetaLUNs
Snapshots
SP A
SP B
Thin LUNs
Add
Selected LUNs
Name
ID
Capacity
Drive Type
Host ID
ESXi5.5_OS
17
20.000 GB
FC
0
Remove
Warning: HLU numbers higher than 255 may result in application outages if not supported by the host failover software.
OK
Apply
Cancel
Help

Name: ESXi5.5_EMC
Description:
Reboot on Boot Order Change:
Enforce vNIC/vHBA/iSCSI Name:
Boot Mode: Legacy Uefi
WARNINGS:
The type (primary/secondary) does not indicate a boot order presence.
The effective order of boot devices within the same device class (LAN/Storage/iSCSI) is determined by PCIe bus scan order.
If Enforce vNIC/vHBA/iSCSI Name is selected and the vNIC/vHBA/iSCSI does not exist, a config error will be reported.
If it is not selected, the vNICs/vHBAs are selected if they exist, otherwise the vNIC/vHBA with the lowest PCIe bus scan order is used.
Local Devices
vNICs
vHBAs
iSCSI vNICs
CIMC Mounted vMedia
Boot Order
Filter
Export
Print
Name
Order
vNIC/vHB...
Type
Lun ID
WWN
Remote CD/DVD 1
San 2
SAN primary vHBA1 Primary
SAN Target primary Primary 0 50:06:01:64:47:20:25:EB
SAN Target secondary Secondary 0 50:06:01:6D:47:20:25:EB
SAN secondary vHBA2 Secondary
SAN Target primary Primary 0 50:06:01:6C:47:20:25:EB
SAN Target secondary Secondary 0 50:06:01:65:47:20:25:EB


Cisco VIC FC, Boot Driver Version 4.0(1d)
(C) 2010 Cisco Systems, Inc.
DGC 50060164472025eb:000
DGC 5006016d472025eb:000
Option ROM installed successfully
Cisco VIC FC, Boot Driver Version 4.0(1d)
(C) 2010 Cisco Systems, Inc.
DGC 5006016c472025eb:000
DGC 50060165472025eb:000
Option ROM installed successfully

10.2.1.10 VMware ESXi, 5.5.0, 2068190
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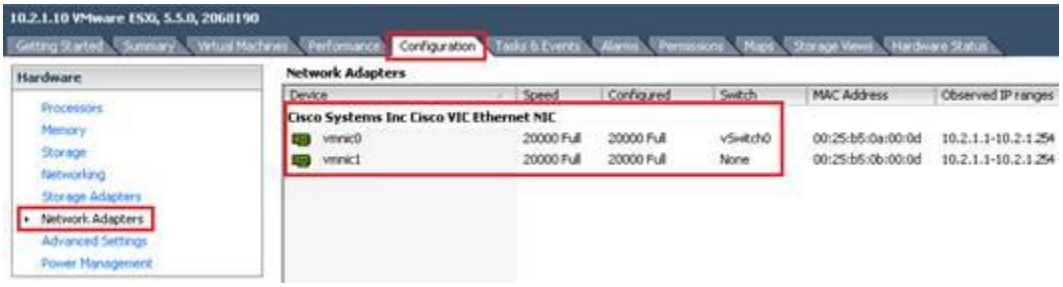
Storage Adapters
Network Adapters
Advanced Settings
Power Management
Storage Adapters
Add...
Remove
Refresh
Rescan All...
Device
Type
WWN
Cisco VIC FCoE HBA Driver
vmhba1 Fibre Channel 20:00:00:25:b5:00:00:07 20:00:00:25:b5:0a:00:07
vmhba2 Fibre Channel 20:00:00:25:b5:00:00:07 20:00:00:25:b5:0b:00:07
MegaRAID SAS SKINNY Controller
vmhba0 SCSI


10.2.1.10 VMware ESXi, 5.5.0, 2068190
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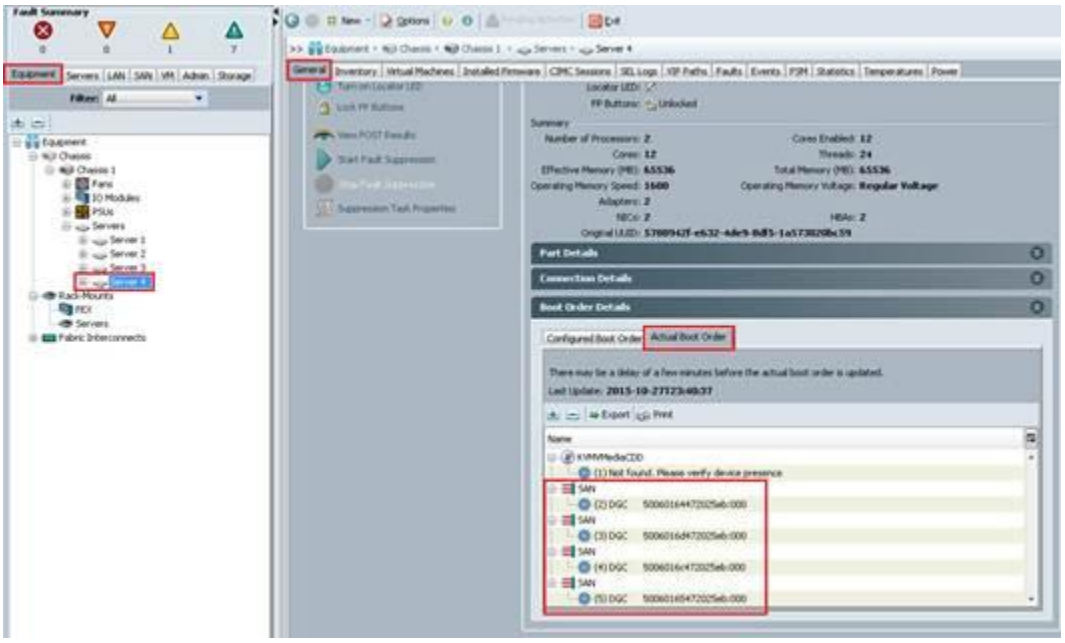
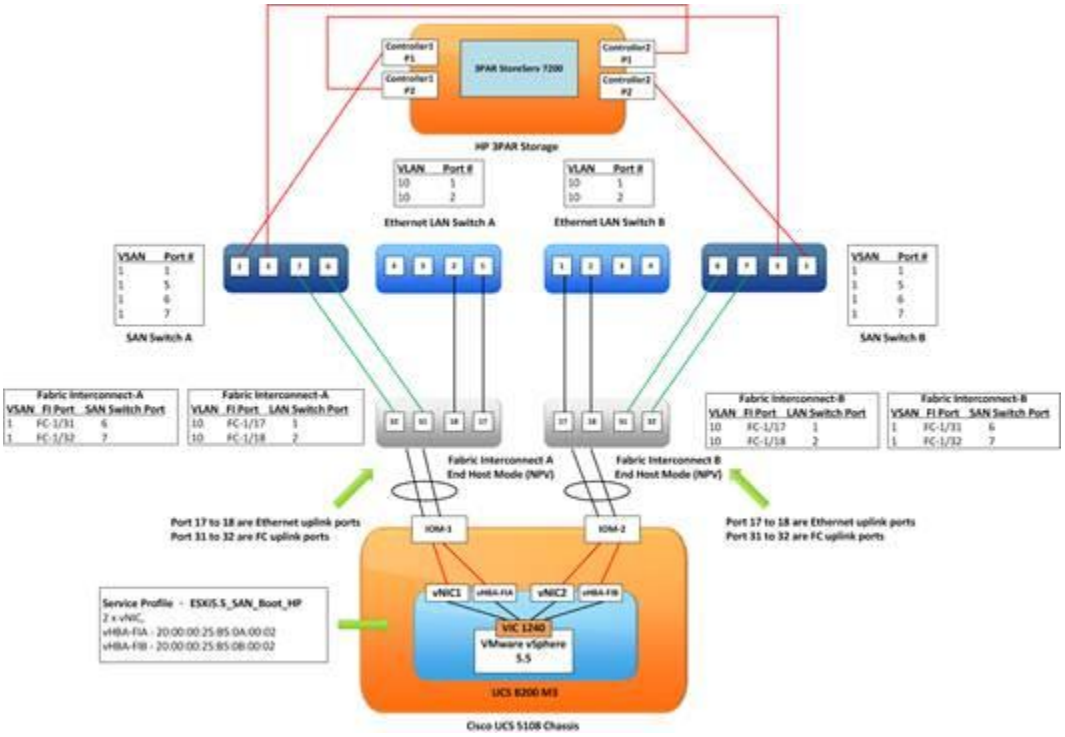
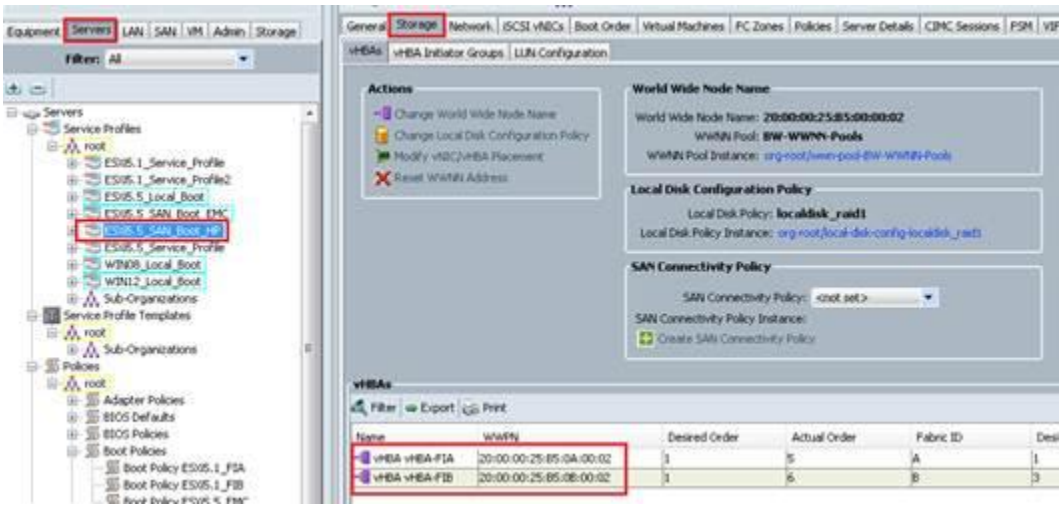
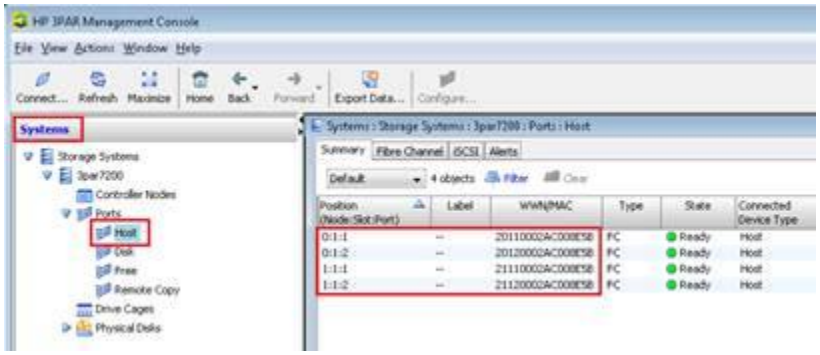
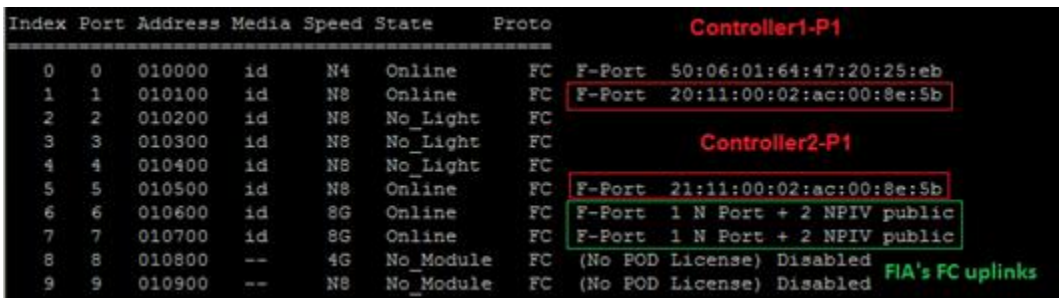
Storage Adapters
Network Adapters
Advanced Settings
Power Management
Network Adapters
Device
Speed
Configured
Switch
MAC Address
Observed IP ranges
Cisco Systems Inc Cisco VIC Ethernet NIC
vmnic0
20000 Full
20000 Full
vSwitch0
00:25:b5:0a:00:0d
10.2.1.1-10.2.1.254
vmnic1
20000 Full
20000 Full
None
00:25:b5:0b:00:0d
10.2.1.1-10.2.1.254


Fault Summary
Equipment
Servers
LAN
SAN
VM
Admin
Storage
Filter: All
Equipment
Chassis
Chassis 1
Fans
IO Modules
PSUs
Servers
Server 1
Server 2
Server 3
Server 4
Rack-Mounts
FEX
Servers
Fabric Interconnects
General
Inventory
Virtual Machines
Installed Firmware
CIMC Sessions
SEL Logs
VIF Paths
Faults
Events
FSM
Statistics
Temperatures
Power
Locator LED:
FP Buttons: Unlocked
Summary
Number of Processors: 2
Cores: 12
Effective Memory (MB): 65536
Operating Memory Speed: 1600
Adapters: 2
NICs: 2
Original UUID:
Cores Enabled: 12
Threads: 24
Total Memory (MB): 65536
Operating Memory Voltage: Regular Voltage
HBAs: 2
Part Details
Connection Details
Boot Order Details
Configured Boot Order
Actual Boot Order
There may be a delay of a few minutes before the actual boot order is updated.
Last Update: 2015-10-27T23:40:37
Export
Print
Name
KVMMediaCDD
(1) Not found. Please verify device presence
SAN
(2) DGC
SAN
(3) DGC
SAN
(4) DGC
SAN
(5) DGC

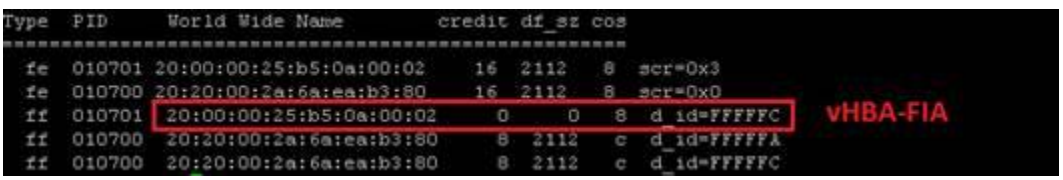

HP 3PAR Storage
Ethernet LAN Switch A
Ethernet LAN Switch B
SAN Switch A
SAN Switch B
Fabric Interconnect A
End Host Mode (NPV)
Fabric Interconnect B
End Host Mode (NPV)
Port 17 to 18 are Ethernet uplink ports
Port 31 to 32 are FC uplink ports
Port 17 to 18 are Ethernet uplink ports
Port 31 to 32 are FC uplink ports
IOM-1
IOM-2
vNIC1
vHBA-FIA
vNIC2
vHBA-FIB
VIC 1240
VMware vSphere 5.5
UCS B200 M3
Cisco UCS 5108 Chassis


Equipment
Servers
LAN
SAN
VM
Admin
Storage
Filter: All
Service Profiles
root
ESXi5.1_Service_Profile
ESXi5.1_Service_Profile2
ESXi5.5_Local_Boot
ESXi5.5_SAN_Boot_EMC
ESXi5.5_SAN_Boot_HP
ESXi5.5_Service_Profile
WIN08_Local_Boot
WIN12_Local_Boot
Sub-Organizations
Service Profile Templates
Policies
Adapter Policies
BIOS Defaults
BIOS Policies
Boot Policies
Boot Policy ESXi5.1_FIA
Boot Policy ESXi5.1_FIB
General
Storage
Network
iSCSI vNICs
Boot Order
Virtual Machines
FC Zones
Policies
Server Details
CIMC Sessions
PSM
vHBAs
vHBA Initiator Groups
LUN Configuration
Actions
Change World Wide Node Name
Change Local Disk Configuration Policy
Modify vNIC/vHBA Placement
Reset WWNN Address
World Wide Node Name
World Wide Node Name: 20:00:00:25:B5:00:00:02
WWNN Pool: BW-WWNN-Pools
WWNN Pool Instance: org-root/wwn-pool-BW-WWNN-Pools
Local Disk Configuration Policy
Local Disk Policy: localdisk_raid1
Local Disk Policy Instance: org-root/local-disk-config-localdisk_raid1
SAN Connectivity Policy
SAN Connectivity Policy: <not set>
SAN Connectivity Policy Instance:
Create SAN Connectivity Policy
vHBAs
Filter
Export
Print
Name
WWPN
Desired Order
Actual Order
Fabric ID
vHBA vHBA-FIA
20:00:00:25:B5:0A:00:02
vHBA vHBA-FIB
20:00:00:25:B5:0B:00:02

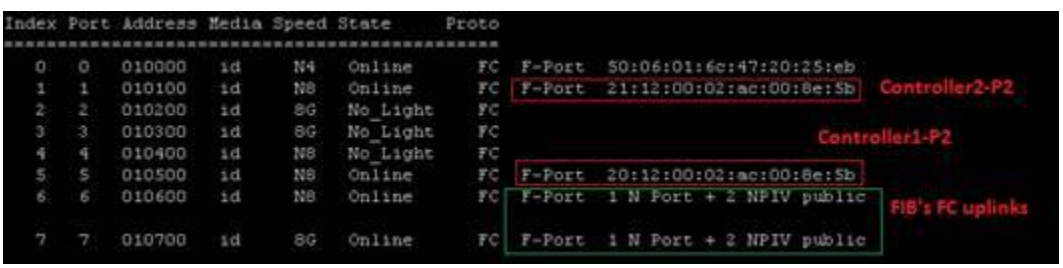




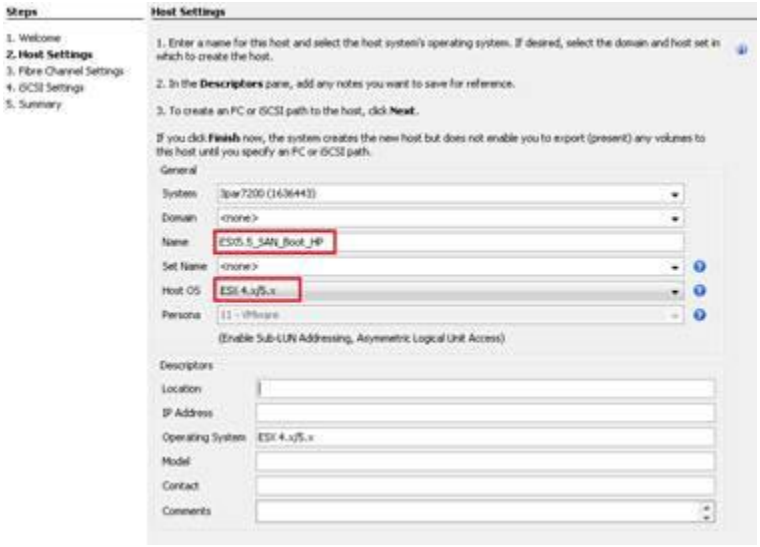

```
Index Port Address Media Speed State     Proto
=================================================
   0   0   010000   id     N4   Online      FC  F-Port  50:06:01:64:47:20:25:eb
   1   1   010100   id     N8   Online      FC  F-Port  20:11:00:02:ac:00:8e:5b
   2   2   010200   id     N8   No_Light    FC
   3   3   010300   id     N8   No_Light    FC
   4   4   010400   id     N8   No_Light    FC
   5   5   010500   id     N8   Online      FC  F-Port  21:11:00:02:ac:00:8e:5b
   6   6   010600   id     8G   Online      FC  F-Port  1 N Port + 2 NPIV public
   7   7   010700   id     8G   Online      FC  F-Port  1 N Port + 2 NPIV public
   8   8   010800   --     4G   No_Module   FC  (No POD License) Disabled
   9   9   010900   --     N8   No_Module   FC  (No POD License) Disabled
```

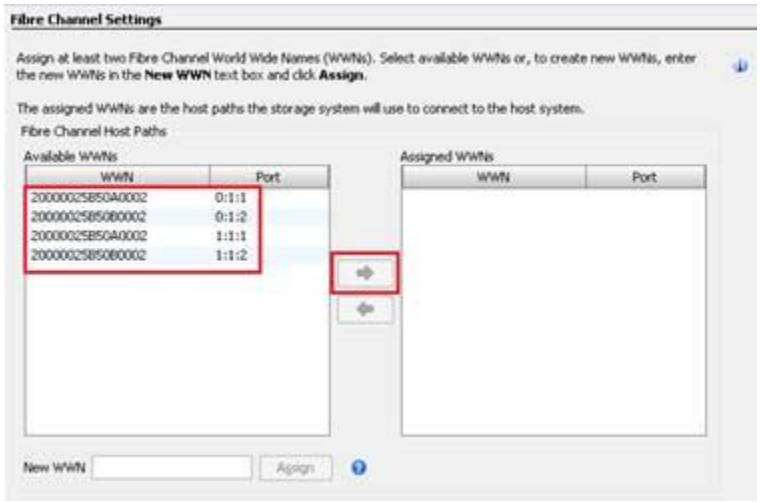



```
Type  PID     World Wide Name        credit df_sz cos
=======================================================
  fe  010701 20:00:00:25:b5:0a:00:02    16  2112   8  scr=0x3
  fe  010700 20:20:00:2a:6a:ea:b3:80    16  2112   8  scr=0x0
  ff  010701  20:00:00:25:b5:0a:00:02    0     0   8  d_id=FFFFFC
  ff  010700  20:20:00:2a:6a:ea:b3:80    8  2112   c  d_id=FFFFFA
  ff  010700  20:20:00:2a:6a:ea:b3:80    8  2112   c  d_id=FFFFFC
```

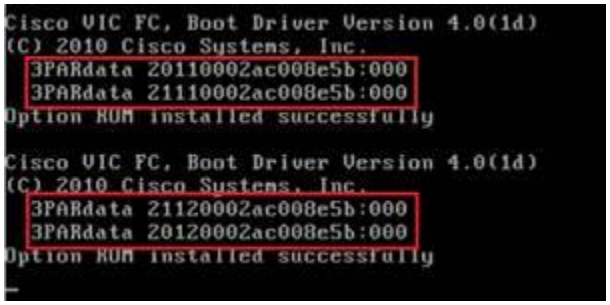



```
Index Port Address Media Speed State     Proto
=================================================
   0   0   010000   id     N4   Online      FC  F-Port  50:06:01:6c:47:20:25:eb
   1   1   010100   id     N8   Online      FC  F-Port  21:12:00:02:ac:00:8e:5b
   2   2   010200   id     8G   No_Light    FC
   3   3   010300   id     8G   No_Light    FC
   4   4   010400   id     N8   No_Light    FC
   5   5   010500   id     N8   Online      FC  F-Port  20:12:00:02:ac:00:8e:5b
   6   6   010600   id     N8   Online      FC  F-Port  1 N Port + 2 NPIV public

   7   7   010700   id     8G   Online      FC  F-Port  1 N Port + 2 NPIV public
```

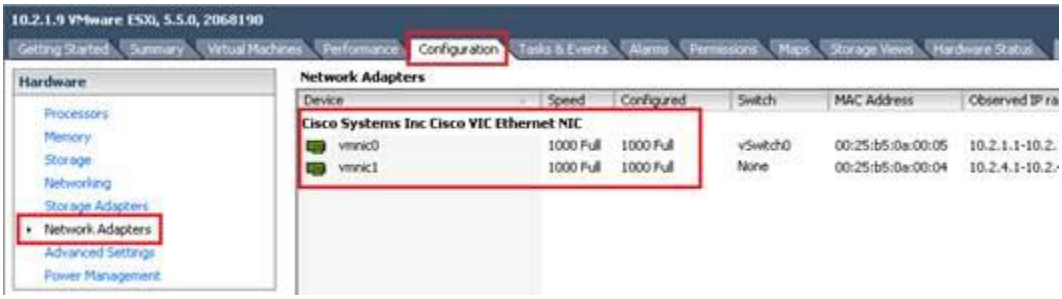

Steps
1. Welcome
2. Host Settings
3. Fibre Channel Settings
4. iSCSI Settings
5. Summary
Host Settings
1. Enter a name for this host and select the host system's operating system. If desired, select the domain and host set in which to create the host.
2. In the Descriptors pane, add any notes you want to save for reference.
3. To create an FC or iSCSI path to the host, click Next.
If you click Finish now, the system creates the new host but does not enable you to export (present) any volumes to this host until you specify an FC or iSCSI path.
General
System
3par7200 (1636443)
Domain
<none>
Name
ESX5.5_SAN_Boot_HP
Set Name
<none>
Host OS
ESX 4.x/5.x
Persona
11 - VMware
(Enable Sub-LUN Addressing, Asymmetric Logical Unit Access)
Descriptors
Location
IP Address
Operating System
ESX 4.x/5.x
Model
Contact
Comments

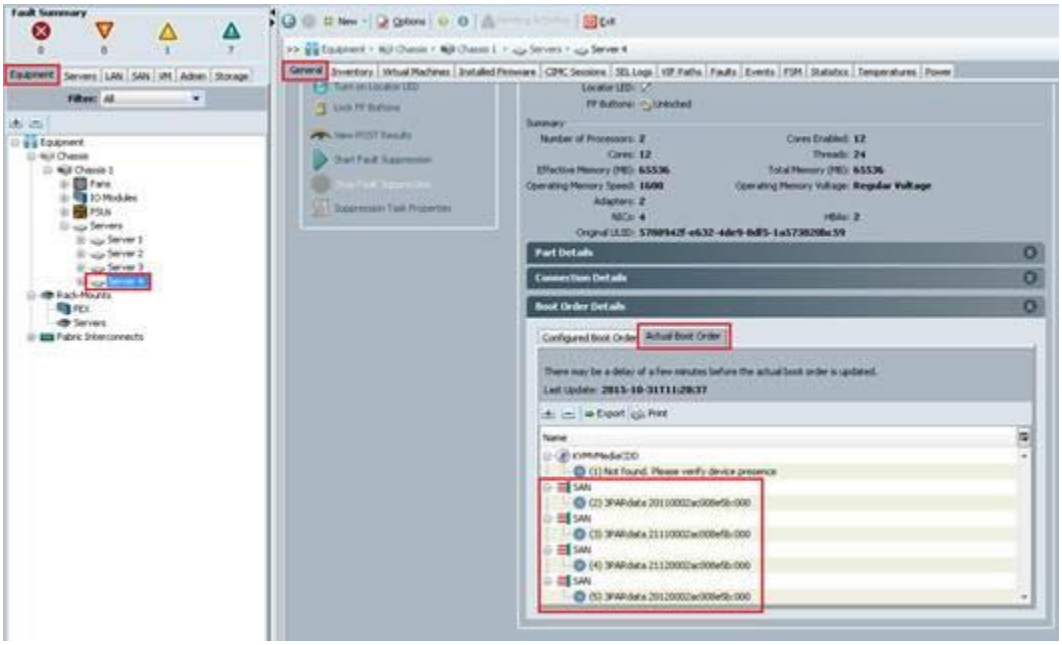

Fibre Channel Settings
Assign at least two Fibre Channel World Wide Names (WWNs). Select available WWNs or, to create new WWNs, enter the new WWNs in the New WWN text box and click Assign.
The assigned WWNs are the host paths the storage system will use to connect to the host system.
Fibre Channel Host Paths
Available WWNs
WWN
Port
20000025B50A0002
0:1:1
20000025B50B0002
0:1:2
20000025B50A0002
1:1:1
20000025B50B0002
1:1:2
Assigned WWNs
WWN
Port
New WWN
Assign

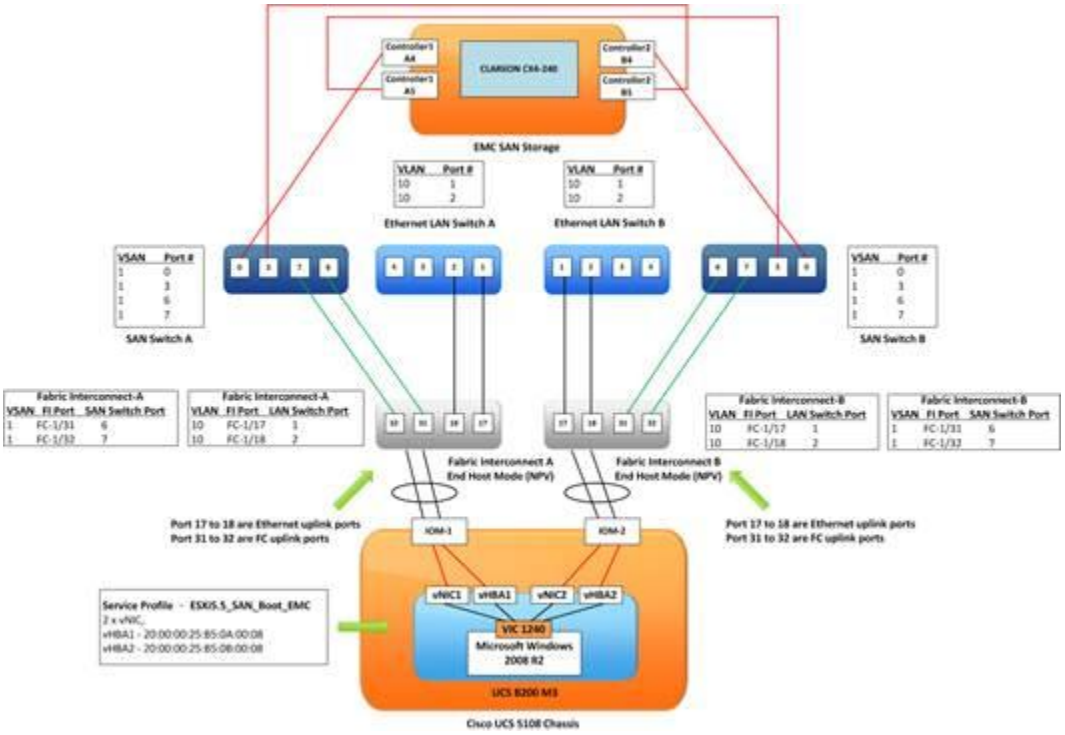
Name: ESXi5.5_HP
Description:
Reboot on Boot Order Change:
Enforce vNIC/vHBA/iSCSI Name:
Boot Mode: Legacy UefI
WARNINGS:
The type (primary/secondary) does not indicate a boot order presence.
The effective order of boot devices within the same device class (LAN/Storage/iSCSI) is determined by PCIe bus scan order.
If Enforce vNIC/vHBA/iSCSI Name is selected and the vNIC/vHBA/iSCSI does not exist, a config error will be reported.
If it is not selected, the vNICs/vHBAs are selected if they exist, otherwise the vNIC/vHBA with the lowest PCIe bus scan order is used.
Local Devices
vNICs
vHBAs
iSCSI vNICs
CIMC Mounted vMedia
Boot Order
Filter
Export
Print
Name
Order
vNIC/vHBA/iSC...
Type
Lu...
WWN
Sl...
Remote CD/DVD 1
San 2
SAN primary vHBA-F1A Primary
SAN Target primary Primary 0 20:11:00:02:AC:00:8E:5B
SAN Target secondary Secondary 0 21:11:00:02:AC:00:8E:5B
SAN secondary vHBA-F1B Secondary
SAN Target primary Primary 0 21:12:00:02:AC:00:8E:5B
SAN Target secondary Secondary 0 20:12:00:02:AC:00:8E:5B

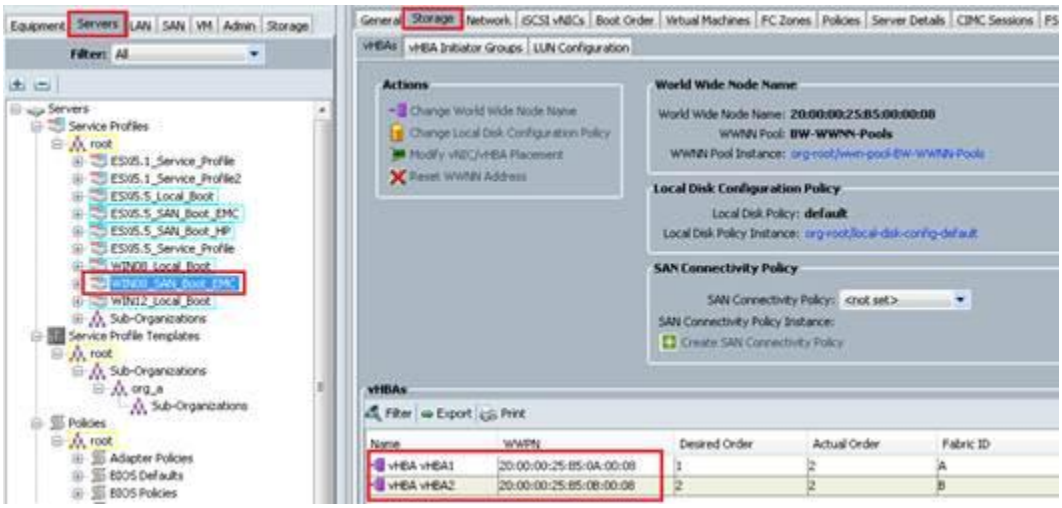

Cisco VIC FC, Boot Driver Version 4.0(1d)
(C) 2010 Cisco Systems, Inc.
3PARdata 20110002ac008e5b:000
3PARdata 21110002ac008e5b:000
Option ROM installed successfully
Cisco VIC FC, Boot Driver Version 4.0(1d)
(C) 2010 Cisco Systems, Inc.
3PARdata 21120002ac008e5b:000
3PARdata 20120002ac008e5b:000
Option ROM installed successfully

10.2.1.9 VMware ESXi, 5.5.0, 2068190
Getting Started
Summary
Virtual Machines
Performance
Configuration
Tasks & Events
Alarms
Permissions
Maps
Storage Views
Hardware Status
Hardware
Processors
Memory
Storage
Networking
Storage Adapters
Network Adapters
Advanced Settings
Power Management
Storage Adapters
Add...
Remove
Refresh
Rescan All...
Device
Type
WWN
Cisco VIC FCoE HBA Driver
vmhba1 Fibre Channel 20:00:00:25:b5:00:00:02 20:00:00:25:b5:0a:00:02
vmhba2 Fibre Channel 20:00:00:25:b5:00:00:02 20:00:00:25:b5:0b:00:02
MegaRAID SAS SKINNY Controller
vmhba0 SCSI


10.2.1.9 VMware ESXi, 5.5.0, 2068190
Getting Started
Summary
Virtual Machines
Performance
Configuration
Tasks & Events
Alarms
Permissions
Maps
Storage Views
Hardware Status
Hardware
Processors
Memory
Storage
Networking
Storage Adapters
Network Adapters
Advanced Settings
Power Management
Network Adapters
Device
Speed
Configured
Switch
MAC Address
Cisco Systems Inc Cisco VIC Ethernet NIC
vmnic0
1000 Full
1000 Full
vSwitch0
00:25:b5:0a:00:05
vmnic1
1000 Full
1000 Full
None
00:25:b5:0a:00:04


Fault Summary
Equipment
Servers
LAN
SAN
VM
Admin
Storage
Filter: All
Equipment
Chassis
Chassis 1
Fans
IO Modules
PSUs
Servers
Server 1
Server 2
Server 3
Server 4
Rack-Mounts
FEX
Servers
Fabric Interconnects
General
Inventory
Virtual Machines
Installed Firmware
CIMC Sessions
SEL Logs
VIF Paths
Faults
Events
FSM
Statistics
Temperatures
Power
Part Details
Connection Details
Boot Order Details
Configured Boot Order
Actual Boot Order
Name
SAN


EMC SAN Storage
Ethernet LAN Switch A
Ethernet LAN Switch B
SAN Switch A
SAN Switch B
Fabric Interconnect A
End Host Mode (NPV)
Fabric Interconnect B
End Host Mode (NPV)
Port 17 to 18 are Ethernet uplink ports
Port 31 to 32 are FC uplink ports
Port 17 to 18 are Ethernet uplink ports
Port 31 to 32 are FC uplink ports
IOM-1
IOM-2
vNIC1
vHBA1
vNIC2
vHBA2
VIC 1240
Microsoft Windows 2008 R2
UCS B200 M3
Cisco UCS 5108 Chassis


Equipment
Servers
LAN
SAN
VM
Admin
Storage
Filter: All
Service Profiles
root
ESXi5.1_Service_Profile
ESXi5.1_Service_Profile2
ESXi5.5_Local_Boot
ESXi5.5_SAN_Boot_EMC
ESXi5.5_SAN_Boot_HP
ESXi5.5_Service_Profile
WIN08_Local_Boot
WIN08_SAN_Boot_EMC
WIN12_Local_Boot
Sub-Organizations
Service Profile Templates
Policies
Adapter Policies
BIOS Defaults
BIOS Policies
General
Storage
Network
iSCSI vNICs
Boot Order
Virtual Machines
FC Zones
Policies
Server Details
CIMC Sessions
vHBAs
vHBA Initiator Groups
LUN Configuration
Actions
Change World Wide Node Name
Change Local Disk Configuration Policy
Modify vNIC/vHBA Placement
Reset WWNN Address
World Wide Node Name
World Wide Node Name: 20:00:00:25:B5:00:00:08
WWNN Pool: BW-WWNN-Pools
WWNN Pool Instance: org-root/wwn-pool-BW-WWNN-Pools
Local Disk Configuration Policy
Local Disk Policy: default
Local Disk Policy Instance: org-root/local-disk-config-default
SAN Connectivity Policy
SAN Connectivity Policy: <not set>
SAN Connectivity Policy Instance:
Create SAN Connectivity Policy
vHBAs
Filter
Export
Print
Name
WWPN
Desired Order
Actual Order
Fabric ID
vHBA vHBA1
20:00:00:25:B5:0A:00:08
1
2
A
vHBA vHBA2
20:00:00:25:B5:0B:00:08
2
2
B

Physical Location	SP-Port	Type	Speed	IP Addresses	IQN/WWN
Slot A0, Port 2	A-0	Fibre	N/A	N/A	50:06:01:60:C7:20:25:EB:50:06:01:60:47:20:25:EB
Slot A0, Port 3	A-1	Fibre	N/A	N/A	50:06:01:60:C7:20:25:EB:50:06:01:61:47:20:25:EB
Slot A1, Port 0	A-2	iSCSI	N/A	N/A	iqn.1992-04.com.emc:cx.apm00120503654.a2
Slot A1, Port 1	A-3 (MirrorView)	iSCSI	N/A	N/A	iqn.1992-04.com.emc:cx.apm00120503654.a3
Slot A2, Port 0	A-4	Fibre	4Gbps	N/A	50:06:01:60:C7:20:25:EB:50:06:01:64:47:20:25:EB
Slot A2, Port 1	A-5	Fibre	4Gbps	N/A	50:06:01:60:C7:20:25:EB:50:06:01:65:47:20:25:EB
Slot A2, Port 2	A-6	Fibre	N/A	N/A	50:06:01:60:C7:20:25:EB:50:06:01:66:47:20:25:EB
Slot A2, Port 3	A-7 (MirrorView)	Fibre	N/A	N/A	50:06:01:60:C7:20:25:EB:50:06:01:67:47:20:25:EB
Slot A0, Port 0	A-Bus 0	Fibre	4Gbps	N/A	N/A
Slot A0, Port 1	A-Bus 1	Fibre	N/A	N/A	N/A
Slot B0, Port 2	B-0	Fibre	N/A	N/A	50:06:01:60:C7:20:25:EB:50:06:01:68:47:20:25:EB
Slot B0, Port 3	B-1	Fibre	N/A	N/A	50:06:01:60:C7:20:25:EB:50:06:01:69:47:20:25:EB
Slot B2, Port 0	B-4	Fibre	4Gbps	N/A	50:06:01:60:C7:20:25:EB:50:06:01:6C:47:20:25:EB
Slot B2, Port 1	B-5	Fibre	4Gbps	N/A	50:06:01:60:C7:20:25:EB:50:06:01:6D:47:20:25:EB
Slot B2, Port 2	B-6	Fibre	N/A	N/A	50:06:01:60:C7:20:25:EB:50:06:01:6E:47:20:25:EB
Slot B2, Port 3	B-7 (MirrorView)	Fibre	N/A	N/A	50:06:01:60:C7:20:25:EB:50:06:01:6F:47:20:25:EB
Slot B0, Port 0	B-Bus 0	Fibre	4Gbps	N/A	N/A
Slot B0, Port 1	B-Bus 1	Fibre	N/A	N/A	N/A

```
Index Port Address Media Speed State     Proto
=================================================
   0   0   010000   id     N4   Online      FC  F-Port  50:06:01:64:47:20:25:eb
   1   1   010100   id     N8   Online      FC  F-Port  20:11:00:02:ac:00:8e:5b
   2   2   010200   id     N8   No_Light    FC
   3   3   010300   id     4G   Online      FC  F-Port  50:06:01:6d:47:20:25:eb
   4   4   010400   id     N8   No_Light    FC
   5   5   010500   id     N8   Online      FC  F-Port  21:11:00:02:ac:00:8e:5b
   6   6   010600   id     8G   Online      FC  F-Port  1 N Port + 2 NPIV public

   7   7   010700   id     8G   Online      FC  F-Port  1 N Port + 2 NPIV public

   8   8   010800   --     4G   No_Module   FC  (No POD License) Disabled
   9   9   010900   --     N8   No_Module   FC  (No POD License) Disabled
```

SPA-4

SPB-5

FI-A FC uplinks

```
Type  PID     World Wide Name         credit df_sz cos
=================================================
  fe  010701 20:00:00:25:b5:0a:00:08    16  2112   8  scr=0x3
  fe  010700 20:20:00:2a:6a:ea:b3:80    16  2112   8  scr=0x0
  ff  010701  20:00:00:25:b5:0a:00:08     0     0   8  d_id=FFFFFA
  ff  010701  20:00:00:25:b5:0a:00:08     0     0   8  d_id=FFFFFC
  ff  010700  20:20:00:2a:6a:ea:b3:80     8  2112   c  d_id=FFFFFA
  ff  010700  20:20:00:2a:6a:ea:b3:80     8  2112   c  d_id=FFFFFC
```

vHBA1

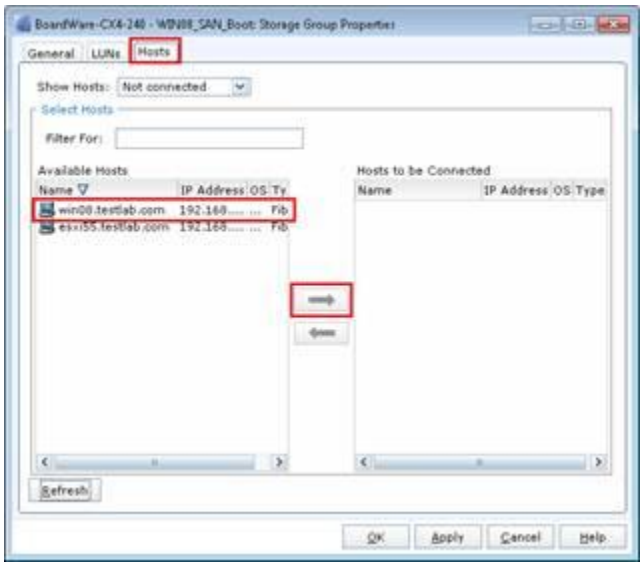
```
Index Port Address Media Speed State     Proto
=================================================
   0   0   010000   id     N4   Online      FC  F-Port  50:06:01:6c:47:20:25:eb
   1   1   010100   id     N8   Online      FC  F-Port  21:12:00:02:ac:00:8e:5b
   2   2   010200   id     8G   No_Light    FC
   3   3   010300   id     4G   Online      FC  F-Port  50:06:01:65:47:20:25:eb
   4   4   010400   id     N8   No_Light    FC
   5   5   010500   id     N8   Online      FC  F-Port  20:12:00:02:ac:00:8e:5b
   6   6   010600   id     N8   Online      FC  F-Port  1 N Port + 2 NPIV public

   7   7   010700   id     8G   Online      FC  F-Port  1 N Port + 2 NPIV public

   8   8   010800   --     N8   No_Module   FC  (No POD License) Disabled
```

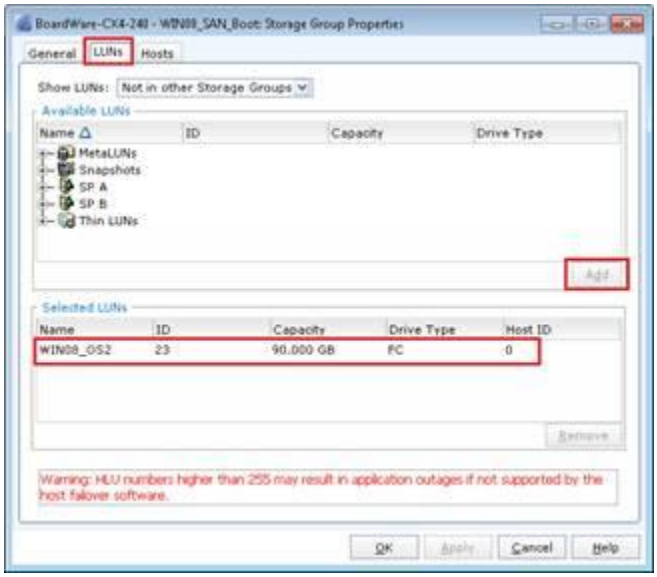
SPB-4

SPA-5

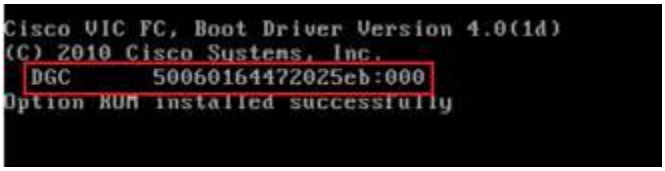
FI-B FC uplinks

Host Initiators
MirrorView Initiators
SAN Copy Initiators
Initiator Name
esxi51a.boardware.com.mo [10.2.1.6; Fibre; Manually registered; Host Agent not reachable or connection registered manually or with
esxi51b.boardware.com.mo [10.2.1.7; Fibre; Manually registered]
esxi55.testlab.com [192.168.1.20; Fibre; Manually registered; Host Agent not reachable or connection registered manually or with Uni
esxi55b.boardware.com.mo [10.2.1.9; Fibre; Manually registered]
win08.testlab.com [192.168.1.30; Fibre; Manually registered; Host Agent not reachable or connection registered manually or with Uni
20:00:00:25:B5:00:00:08:20:00:00:25:B5:0A:00:08


BoardWare-CX4-240 - WIN08_SAN_Boot: Storage Group Properties
General
LUNs
Hosts
Show Hosts:
Not connected
Select Hosts
Filter For:
Available Hosts
Name
IP Address
OS Ty
win08.testlab.com
esxi55.testlab.com
Hosts to be Connected
Name
IP Address
OS Type
Refresh
OK
Apply
Cancel
Help


BoardWare-CX4-240 - WIN08_SAN_Boot: Storage Group Properties
General
LUNs
Hosts
Show LUNs:
Not in other Storage Groups
Available LUNs
Name
ID
Capacity
Drive Type
MetaLUNs
Snapshots
SP A
SP B
Thin LUNs
Add
Selected LUNs
Name
ID
Capacity
Drive Type
Host ID
WIN08_OS2
23
90.000 GB
FC
0
Remove
Warning: HLU numbers higher than 255 may result in application outages if not supported by the host failover software.
OK
Apply
Cancel
Help

Name:
WIN08_EMC
Description:
Reboot on Boot Order Change:
Enforce vNIC/vHBA/iSCSI Name:
Boot Mode:
Legacy
Uefi
WARNINGS:
The type (primary/secondary) does not indicate a boot order presence.
The effective order of boot devices within the same device class (LAN/Storage/iSCSI) is determined by PCIe bus scan order.
If Enforce vNIC/vHBA/iSCSI Name is selected and the vNIC/vHBA/iSCSI does not exist, a config error will be reported.
If it is not selected, the vNICs/vHBAs are selected if they exist, otherwise the vNIC/vHBA with the lowest PCIe bus scan order is used.
Local Devices
vNICs
Add LAN Boot
vHBAs
Add SAN Boot
Add SAN Boot Target
Boot Order
Filter
Export
Print
Name
Or...
vNIC/vHBA/IS...
Type
Lu...
WWN
Slot
Remote CD/DVD
1
San
2
SAN primary
vHBA1
Primary
SAN Target
Primary
0
50:06:01:64:47:20:25:EB


Cisco VIC FC, Boot Driver Version 4.0(1d)
(C) 2010 Cisco Systems, Inc.
DGC 50060164472025eb:000
Option ROM installed successfully

Download Software
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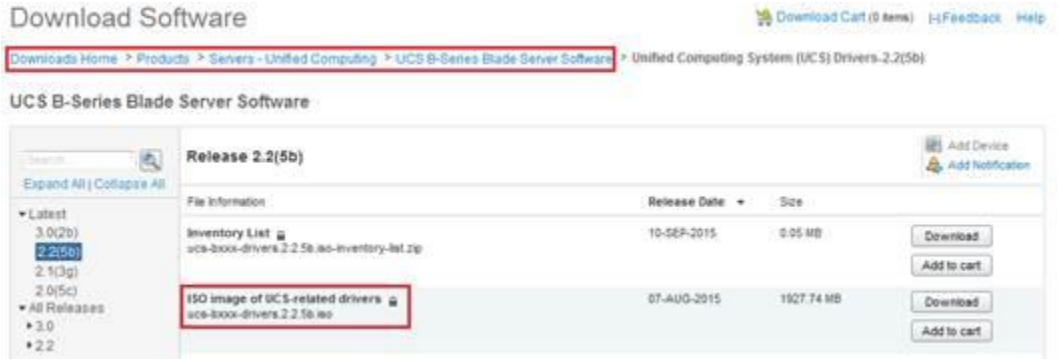
Unified Computing System (UCS) Documentation Roadmap Bundle
Unified Computing System (UCS) Drivers
Unified Computing System (UCS) Server Software Bundle
Unified Computing System (UCS) Utilities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UCS B-Series Blade Server Software
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Latest
3.0(2b)
2.2(5b)
2.1(3g)
2.0(5c)
All Releases
3.0
2.2
Release 2.2(5b)
Add Device
Add Notification
File Information
Release Date
Size
Inventory List
ucs-bxxx-drivers.2.2.5b.iso-inventory-list.zip
10-SEP-2015
0.05 MB
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ISO image of UCS-related drivers
ucs-bxxx-drivers.2.2.5b.iso
07-AUG-2015
1927.74 MB
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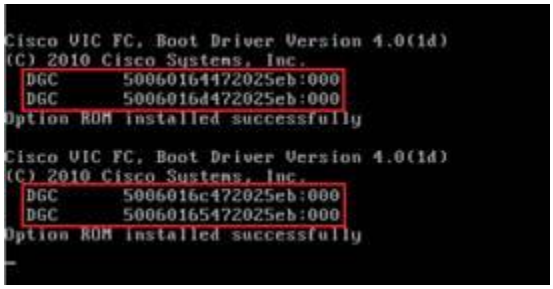
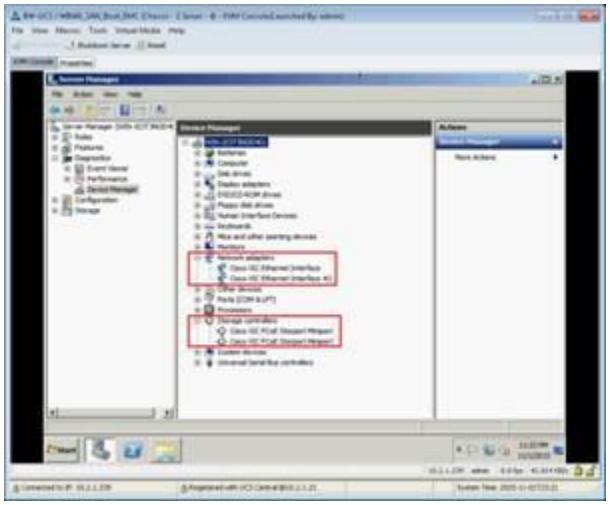
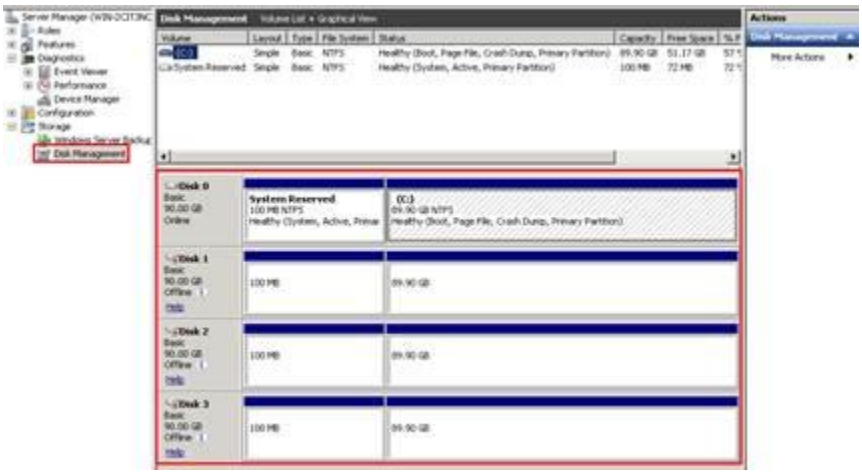
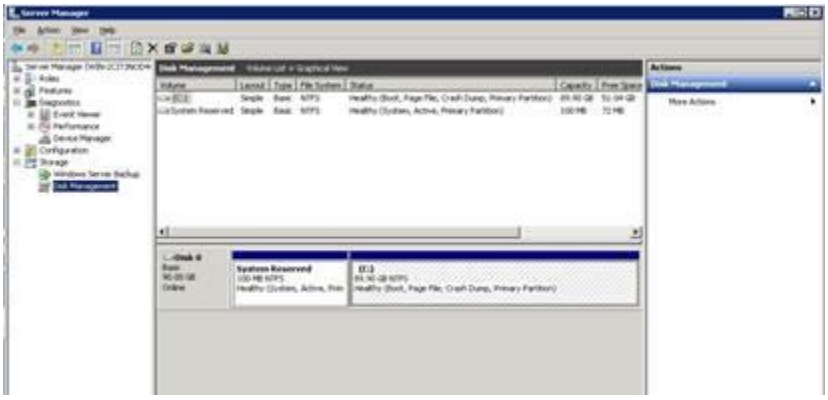
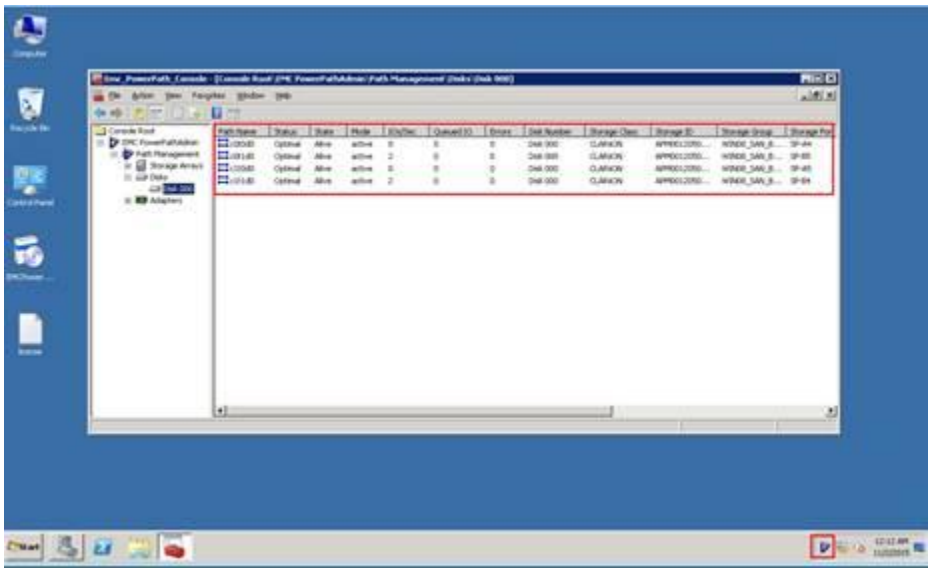
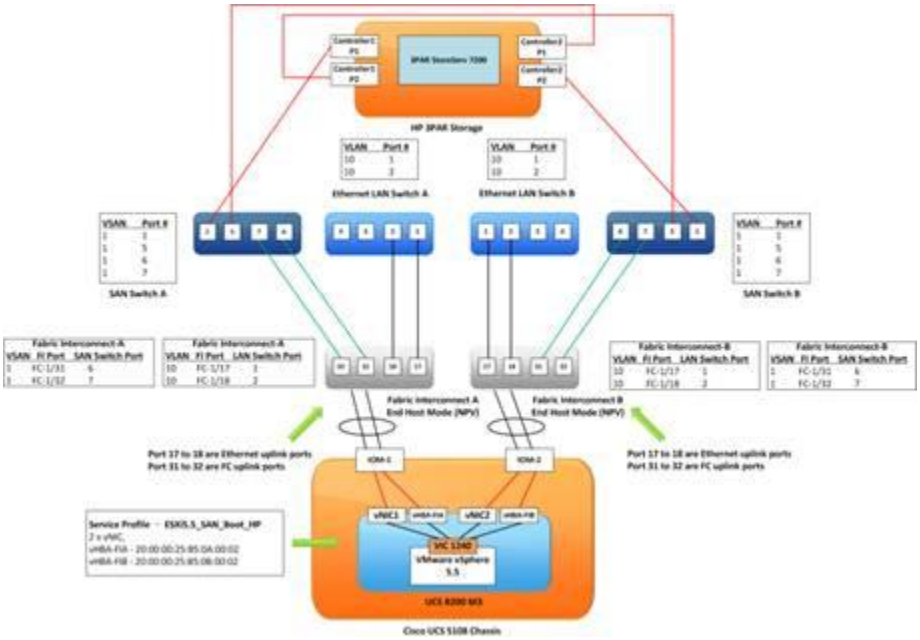

Cisco VIC FC, Boot Driver Version 4.0(1d)
(C) 2010 Cisco Systems, Inc.
DGC 50060164472025eb:000
DGC 50060164472025eb:000
Option ROM installed successfully
Cisco VIC FC, Boot Driver Version 4.0(1d)
(C) 2010 Cisco Systems, Inc.
DGC 5006016c472025eb:000
DGC 50060165472025eb:000
Option ROM installed successfully

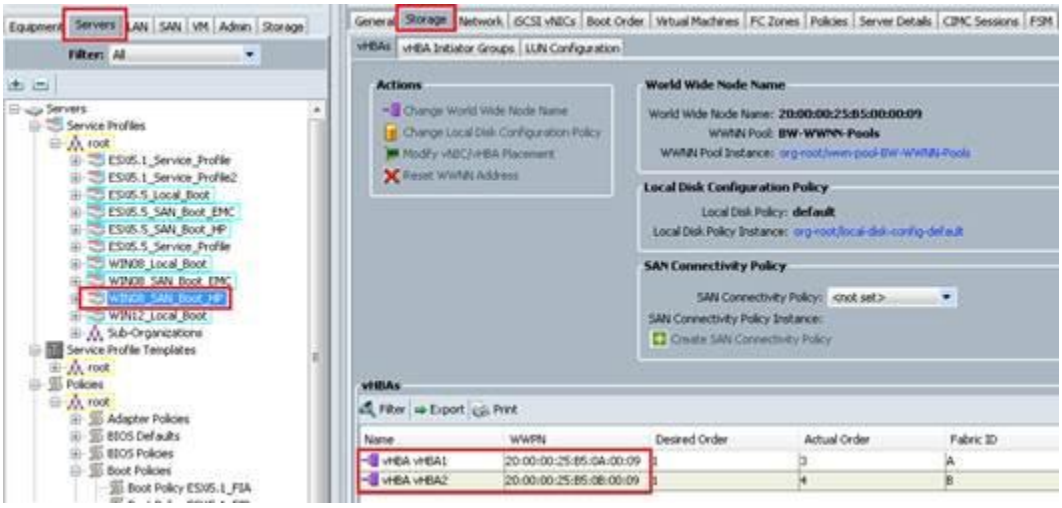


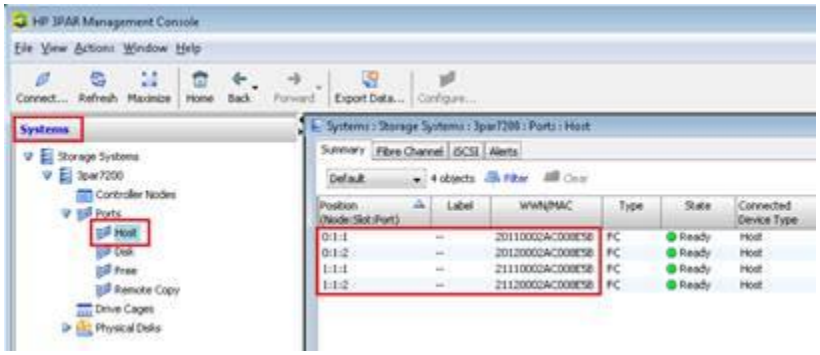

Server Manager (WIN-DCIT3NC
Roles
Features
Diagnostics
Event Viewer
Performance
Device Manager
Configuration
Storage
Windows Server Backup
Disk Management
Disk Management Volume List + Graphical View
Volume Layout Type File System Status Capacity Free Space %F
(C:) Simple Basic NTFS Healthy (Boot, Page File, Crash Dump, Primary Partition) 89.90 GB 51.17 GB 57 %
System Reserved Simple Basic NTFS Healthy (System, Active, Primary Partition) 100 MB 72 MB 72 %
Disk 0
Basic
90.00 GB
Online
System Reserved
100 MB NTFS
Healthy (System, Active, Prima
(C:)
89.90 GB NTFS
Healthy (Boot, Page File, Crash Dump, Primary Partition)
Disk 1
Basic
90.00 GB
Offline
Help
100 MB
89.90 GB
Disk 2
Basic
90.00 GB
Offline
Help
100 MB
89.90 GB
Disk 3
Basic
90.00 GB
Offline
Help
100 MB
89.90 GB
Actions
Disk Management
More Actions

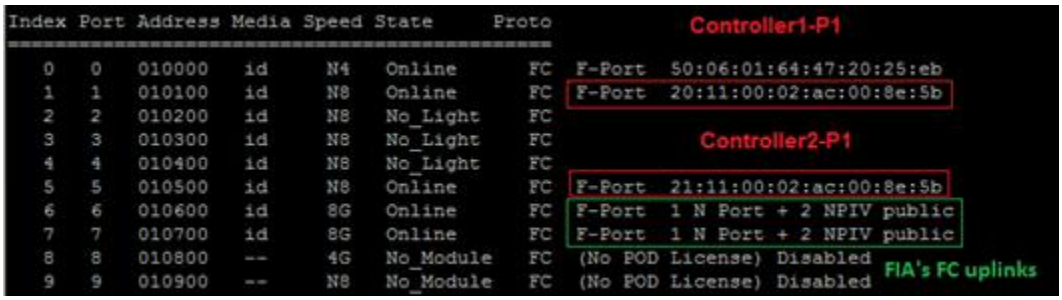




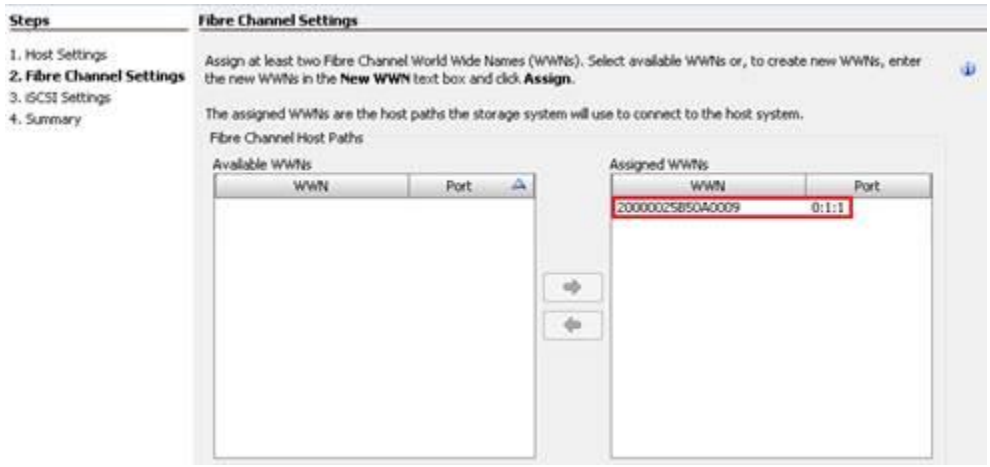

HP 3PAR Storage
Ethernet LAN Switch A
Ethernet LAN Switch B
SAN Switch A
SAN Switch B
Fabric Interconnect A
End Host Mode (NPV)
Fabric Interconnect B
End Host Mode (NPV)
Port 17 to 18 are Ethernet uplink ports
Port 31 to 32 are FC uplink ports
Port 17 to 18 are Ethernet uplink ports
Port 31 to 32 are FC uplink ports
vNIC1
vNIC2
VIC 1240
vMware vSphere 5.5
UCS B200 M3
Cisco UCS 5108 Chassis


Equipment
Servers
LAN
SAN
VM
Admin
Storage
Filter: All
Servers
Service Profiles
root
ESXi5.1_Service_Profile
ESXi5.1_Service_Profile2
ESXi5.5_Local_Boot
ESXi5.5_SAN_Boot_EMC
ESXi5.5_SAN_Boot_HP
ESXi5.5_Service_Profile
WIN08_Local_Boot
WIN08_SAN_Boot_EMC
WIN08_SAN_Boot_HP
WIN12_Local_Boot
Sub-Organizations
Service Profile Templates
root
Policies
root
Adapter Policies
BIOS Defaults
BIOS Policies
Boot Policies
Boot Policy ESXi5.1_FIA
General
Storage
Network
iSCSI vNICs
Boot Order
Virtual Machines
FC Zones
Policies
Server Details
CIMC Sessions
FSM
vHBAs
vHBA Initiator Groups
LUN Configuration
Actions
Change World Wide Node Name
Change Local Disk Configuration Policy
Modify vNIC/vHBA Placement
Reset WWNN Address
World Wide Node Name
World Wide Node Name: 20:00:00:25:B5:00:00:09
WWNN Pool: BW-WWNN-Pools
WWNN Pool Instance: org-root/wwn-pool-BW-WWNN-Pools
Local Disk Configuration Policy
Local Disk Policy: default
Local Disk Policy Instance: org-root/local-disk-config-default
SAN Connectivity Policy
SAN Connectivity Policy: <not set>
SAN Connectivity Policy Instance:
Create SAN Connectivity Policy
vHBAs
Filter
Export
Print
Name
WWPN
Desired Order
Actual Order
Fabric ID
vHBA vHBA1
20:00:00:25:B5:0A:00:09
3
A
vHBA vHBA2
20:00:00:25:B5:0B:00:09
4
B


HP 3PAR Management Console
File View Actions Window Help
Connect... Refresh Maximize Home Back Forward Export Data... Configure...
Systems
Storage Systems
3par7200
Controller Nodes
Ports
Host
Disk
Free
Remote Copy
Drive Cages
Physical Disks
Systems : Storage Systems : 3par7200 : Ports : Host
Summary Fibre Channel iSCSI Alerts
Default 4 objects Filter Clear
Position (Node:Slot:Port) Label WWN/MAC Type State Connected Device Type
0:1:1 -- 20110002AC008E5B FC Ready Host
0:1:2 -- 20120002AC008E5B FC Ready Host
1:1:1 -- 21110002AC008E5B FC Ready Host
1:1:2 -- 21120002AC008E5B FC Ready Host


Index Port Address Media Speed State Proto
Controller1-P1
0 0 010000 id N4 Online FC F-Port 50:06:01:64:47:20:25:eb
1 1 010100 id N8 Online FC F-Port 20:11:00:02:ac:00:8e:5b
2 2 010200 id N8 No_Light FC
3 3 010300 id N8 No_Light FC
Controller2-P1
4 4 010400 id N8 No_Light FC
5 5 010500 id N8 Online FC F-Port 21:11:00:02:ac:00:8e:5b
6 6 010600 id 8G Online FC F-Port 1 N Port + 2 NPIV public
7 7 010700 id 8G Online FC F-Port 1 N Port + 2 NPIV public
8 8 010800 -- 4G No_Module FC (No POD License) Disabled
9 9 010900 -- N8 No_Module FC (No POD License) Disabled
FIA's FC uplinks

Type PID World Wide Name credit df_sz cos
fe 010701 20:00:00:25:b5:0a:00:09 16 2112 8 scr=0x3
vHBA1
fe 010700 20:20:00:2a:6a:ea:b3:80 16 2112 8 scr=0x0
ff 010701 20:00:00:25:b5:0a:00:09 0 0 8 d_id=FFFFFA
ff 010701 20:00:00:25:b5:0a:00:09 0 0 8 d_id=FFFFFC
ff 010700 20:20:00:2a:6a:ea:b3:80 8 2112 c d_id=FFFFFA
ff 010700 20:20:00:2a:6a:ea:b3:80 8 2112 c d_id=FFFFFC


Steps
1. Host Settings
2. Fibre Channel Settings
3. iSCSI Settings
4. Summary
Fibre Channel Settings
Assign at least two Fibre Channel World Wide Names (WWNs). Select available WWNs or, to create new WWNs, enter the new WWNs in the New WWN text box and click Assign.
The assigned WWNs are the host paths the storage system will use to connect to the host system.
Fibre Channel Host Paths
Available WWNs
WWN
Port
Assigned WWNs
WWN
Port
20000025B50A0009
0:1:1

Name:
Description:
Reboot on Boot Order Change:
Boot Mode:
Legacy
UefI
WARNING!:
Local Devices
vNICs
Add LAN Boot
vHBAs
Add SAN Boot
Add SAN Boot Target
Boot Order
Remote CD/DVD
San
SAN primary
vHBA1
Primary
SAN Target
Primary

Cisco VIC FC, Boot Driver Version 4.0(1d)
(C) 2010 Cisco Systems, Inc.
3PARdata 20110002ac008e5b:000
Option ROM installed successfully

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Unified Computing System (UCS) Documentation Roadmap Bundle
Unified Computing System (UCS) Drivers
Unified Computing System (UCS) Server Software Bundle
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UCS B-Series Blade Server Software
Release 2.2(5b)
Expand All | Collapse All
Latest
3.0(2b)
2.2(5b)
2.1(3g)
2.0(5c)
All Releases
3.0
2.2
File Information
Release Date
Size
Inventory List
ucs-boxx-drivers.2.2.5b.iso-inventory-list.zip
10-SEP-2015
0.05 MB
Download
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ISO image of UCS-related drivers
ucs-boxx-drivers.2.2.5b.iso
07-AUG-2015
1627.74 MB
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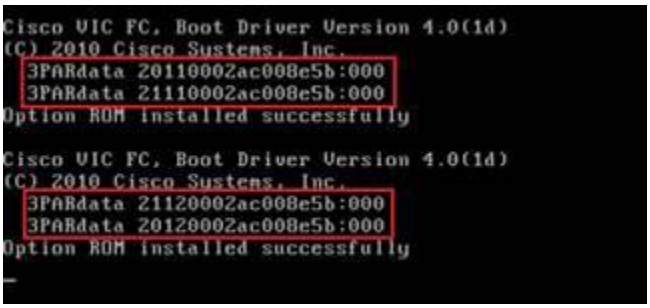
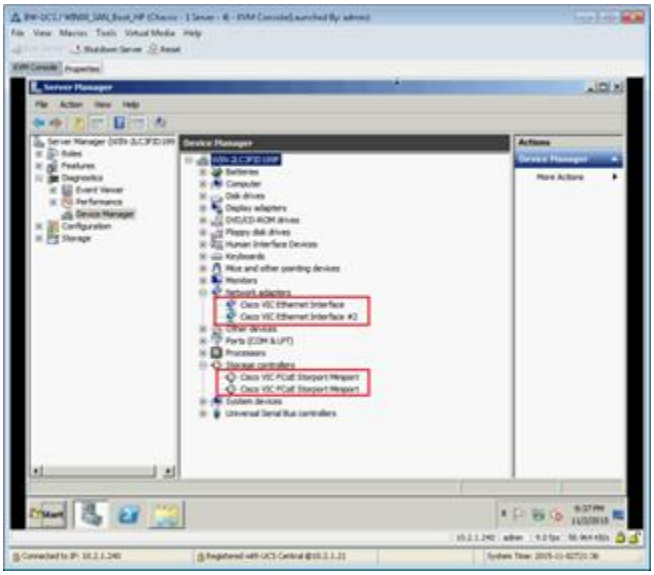
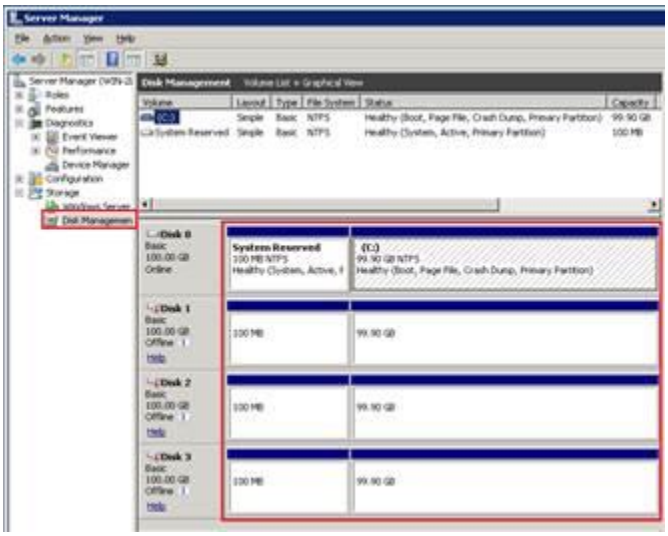
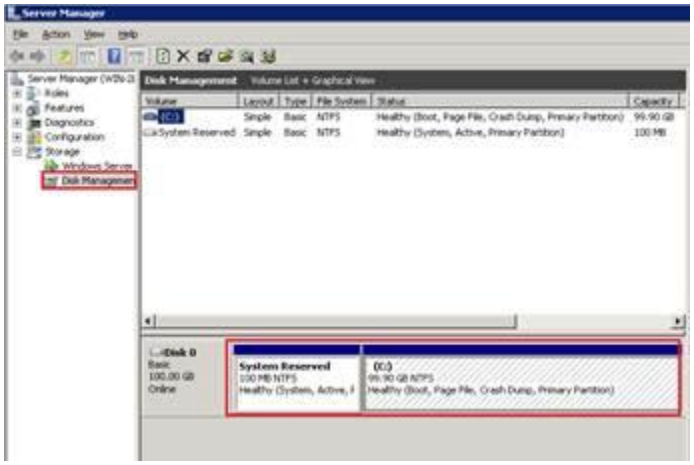
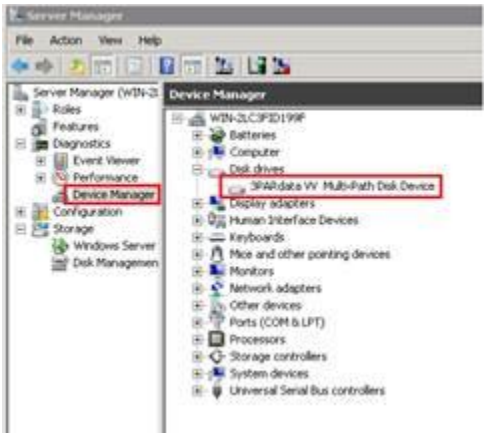

Cisco VIC FC, Boot Driver Version 4.0(1d)
(C) 2010 Cisco Systems, Inc.
3PARdata Z0110002ac008e5b:000
3PARdata Z1110002ac008e5b:000
Option ROM installed successfully
Cisco VIC FC, Boot Driver Version 4.0(1d)
(C) 2010 Cisco Systems, Inc.
3PARdata Z1120002ac008e5b:000
3PARdata Z0120002ac008e5b:000
Option ROM installed successfully

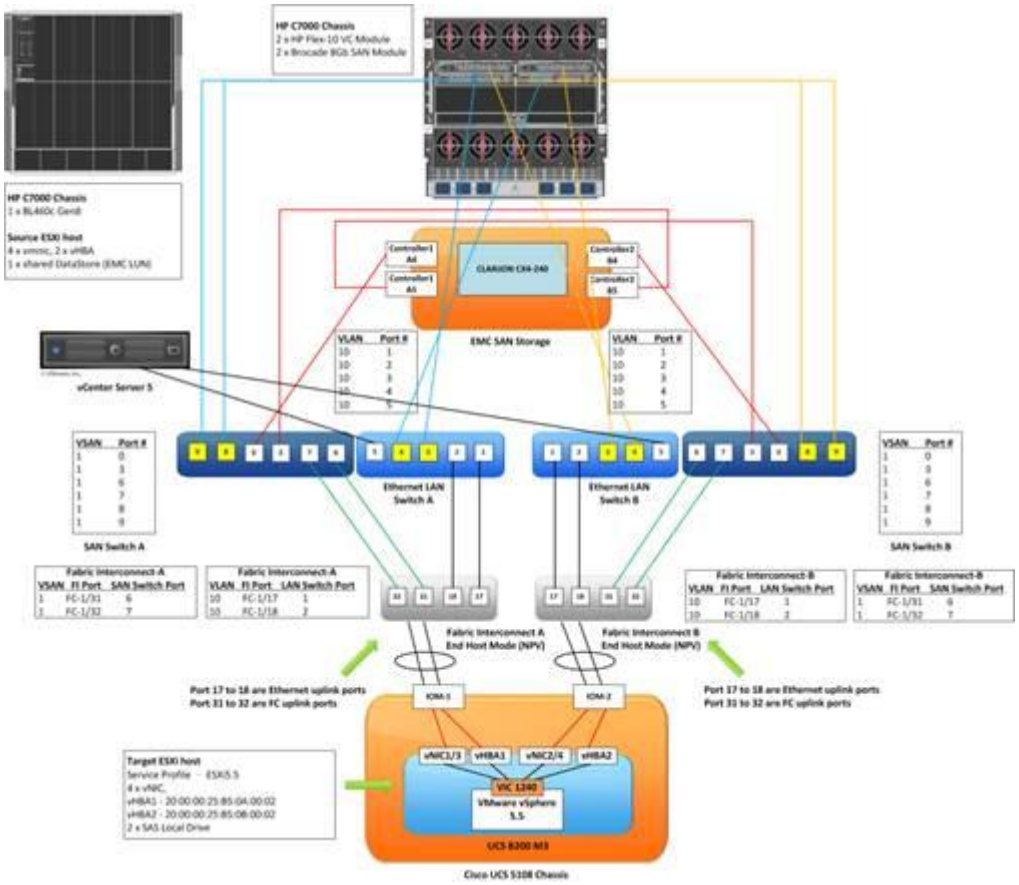




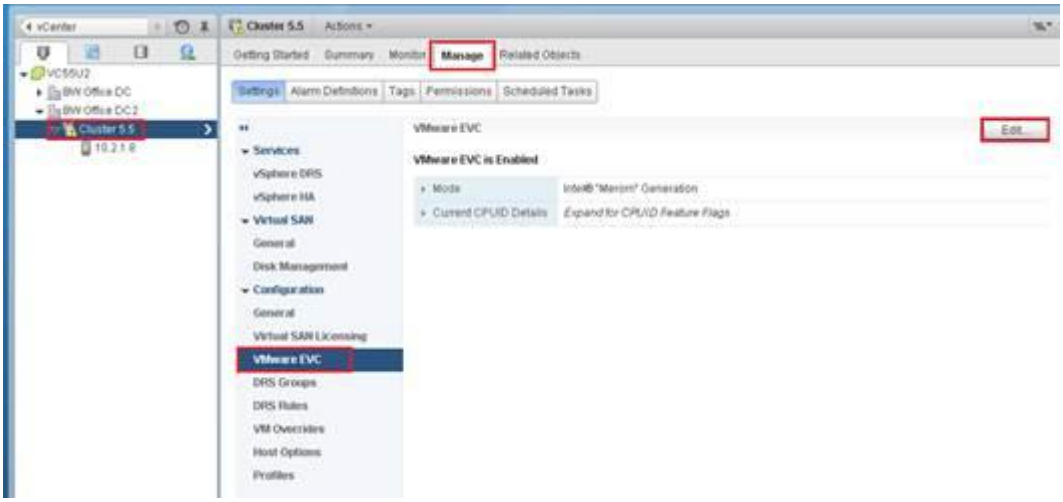

Server Manager
File Action View Help
Server Manager (WIN-2
Roles
Features
Diagnostics
Configuration
Storage
Windows Server
Disk Management
Disk Management Volume List + Graphical View
Volume Layout Type File System Status Capacity
(C:) Simple Basic NTFS Healthy (Boot, Page File, Crash Dump, Primary Partition) 99.90 GB
System Reserved Simple Basic NTFS Healthy (System, Active, Primary Partition) 100 MB
Disk 0
Basic
100.00 GB
Online
System Reserved
100 MB NTFS
Healthy (System, Active, I
(C:)
99.90 GB NTFS
Healthy (Boot, Page File, Crash Dump, Primary Partition)

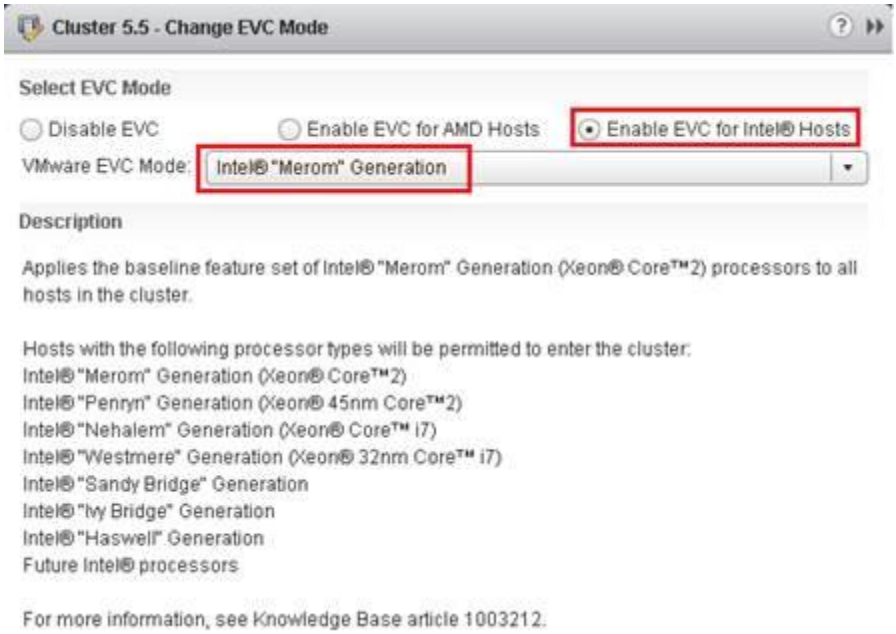

Server Manager
File Action View Help
Server Manager (WIN-2
Roles
Features
Diagnostics
Event Viewer
Performance
Device Manager
Configuration
Storage
Windows Server
Disk Management
Device Manager
WIN-2LC3F3D199F
Batteries
Computer
Disk drives
3PARdata VV Multi-Path Disk Device
Display adapters
Human Interface Devices
Keyboards
Mice and other pointing devices
Monitors
Network adapters
Other devices
Ports (COM & LPT)
Processors
Storage controllers
System devices
Universal Serial Bus controllers

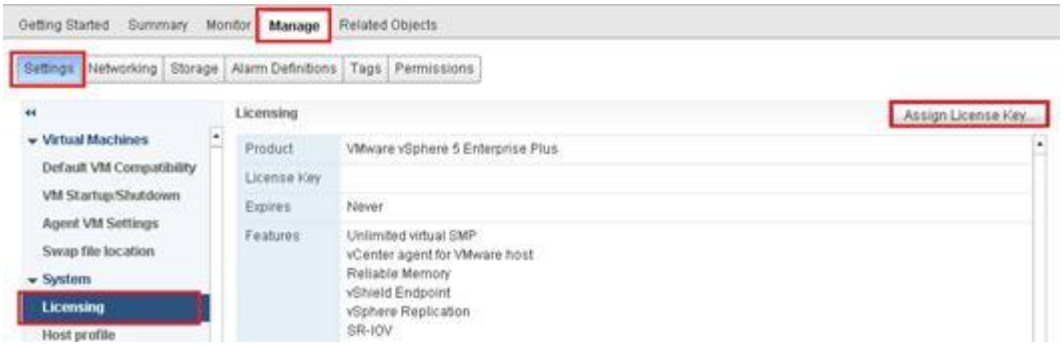
Chapter 4: Data Migration to Cisco UCS

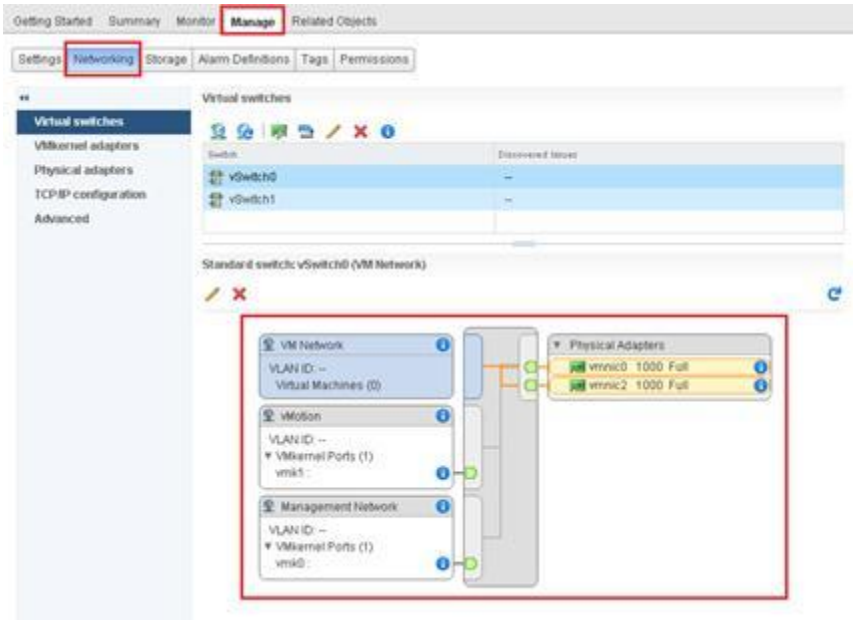

HP C7000 Chassis
2 x HP Flex-10 VC Module
2 x Brocade 8Gb SAN Module
HP C7000 Chassis
1 x BL460c Gen8
Source ESXi host
4 x vmnic, 2 x vHBA
1 x shared DataStore (EMC LUN)
CLARiiON CX4-240
EMC SAN Storage
vCenter Server 5
VLAN Port #
10 1
10 2
10 3
10 4
10 5
VSAN Port #
1 0
1 5
1 6
1 7
1 8
1 9
Ethernet LAN Switch A
Ethernet LAN Switch B
SAN Switch A
SAN Switch B
Fabric Interconnect-A
VSAN FI Port SAN Switch Port
1 FC-1/31 6
1 FC-1/32 7
Fabric Interconnect-A
VLAN FI Port LAN Switch Port
10 FC-1/17 1
10 FC-1/18 2
Fabric Interconnect-B
VLAN FI Port LAN Switch Port
10 FC-1/17 1
10 FC-1/18 2
Fabric Interconnect-B
VSAN FI Port SAN Switch Port
1 FC-1/31 6
1 FC-1/32 7
Fabric Interconnect A
End Host Mode (NPV)
Fabric Interconnect B
End Host Mode (NPV)
Port 17 to 18 are Ethernet uplink ports
Port 31 to 32 are FC uplink ports
Port 17 to 18 are Ethernet uplink ports
Port 31 to 32 are FC uplink ports
IOM-1
IOM-2
Target ESXi host
Service Profile - ESXi5.5
4 x vNIC,
vHBA1 - 20:00:00:25:B5:0A:00:02
vHBA2 - 20:00:00:25:B5:0B:00:02
2 x SAS Local Drive
vNIC1/3
vHBA1
vNIC2/4
vHBA2
VIC 1240
VMware vSphere 5.5
UCS B200 M3
Cisco UCS 5108 Chassis

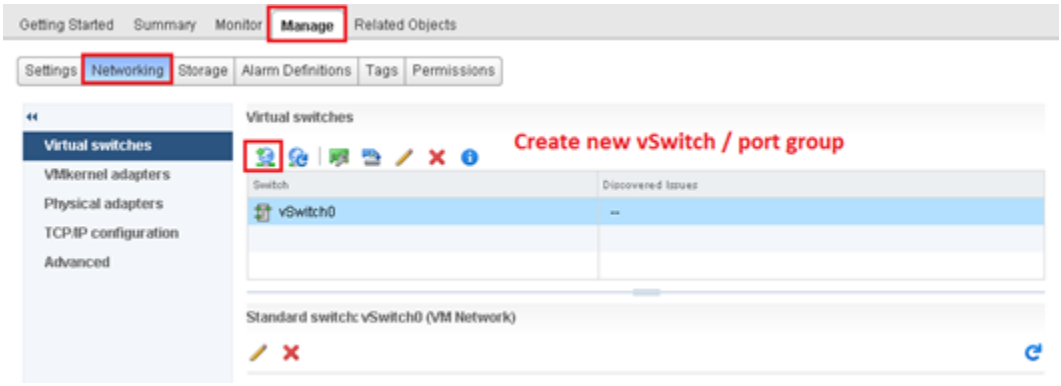
vmware
User name:
Password:
Use Windows session authentication
Login
VMware vSphere Web Client


vCenter
Cluster 5.5
Actions
Getting Started
Summary
Monitor
Manage
Related Objects
VC55U2
BW Office DC
BW Office DC2
Cluster 5.5
10.2.1.0
Settings
Alarm Definitions
Tags
Permissions
Scheduled Tasks
Services
vSphere DRS
vSphere HA
Virtual SAN
General
Disk Management
Configuration
General
Virtual SAN Licensing
VMware EVC
DRS Groups
DRS Rules
VM Overrides
Host Options
Profiles
VMware EVC
Edit...
VMware EVC is Enabled
Mode
Intel® "Merom" Generation
Current CPUID Details
Expand for CPUID Feature Flags

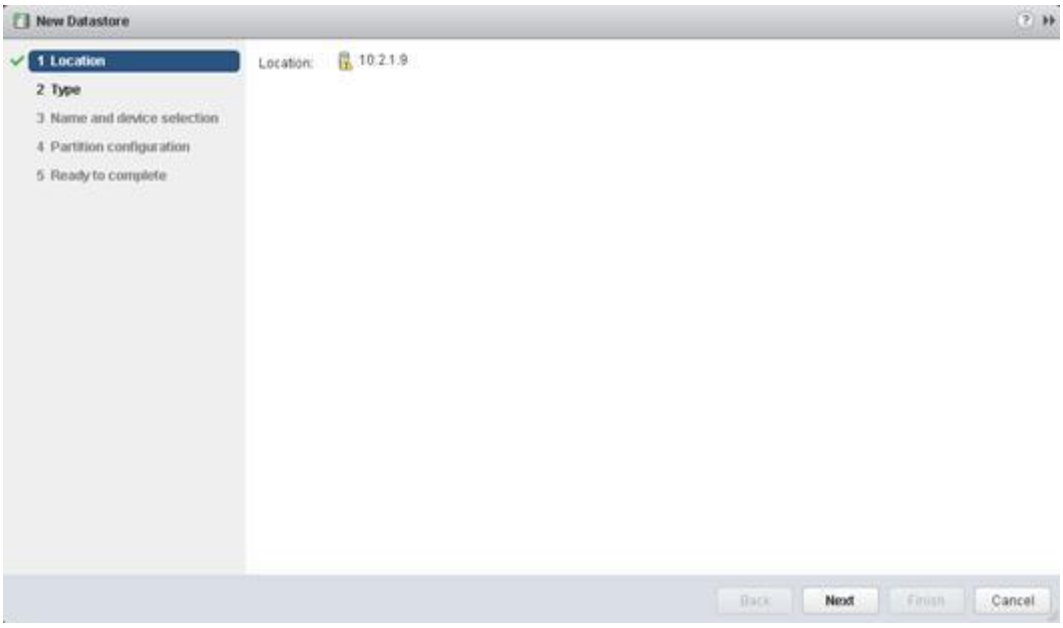

Cluster 5.5 - Change EVC Mode
Select EVC Mode
Disable EVC
Enable EVC for AMD Hosts
Enable EVC for Intel® Hosts
VMware EVC Mode:
Intel® "Merom" Generation
Description
Applies the baseline feature set of Intel® "Merom" Generation (Xeon® Core™2) processors to all hosts in the cluster.
Hosts with the following processor types will be permitted to enter the cluster:
Intel® "Merom" Generation (Xeon® Core™2)
Intel® "Penryn" Generation (Xeon® 45nm Core™2)
Intel® "Nehalem" Generation (Xeon® Core™ i7)
Intel® "Westmere" Generation (Xeon® 32nm Core™ i7)
Intel® "Sandy Bridge" Generation
Intel® "Ivy Bridge" Generation
Intel® "Haswell" Generation
Future Intel® processors
For more information, see Knowledge Base article 1003212.

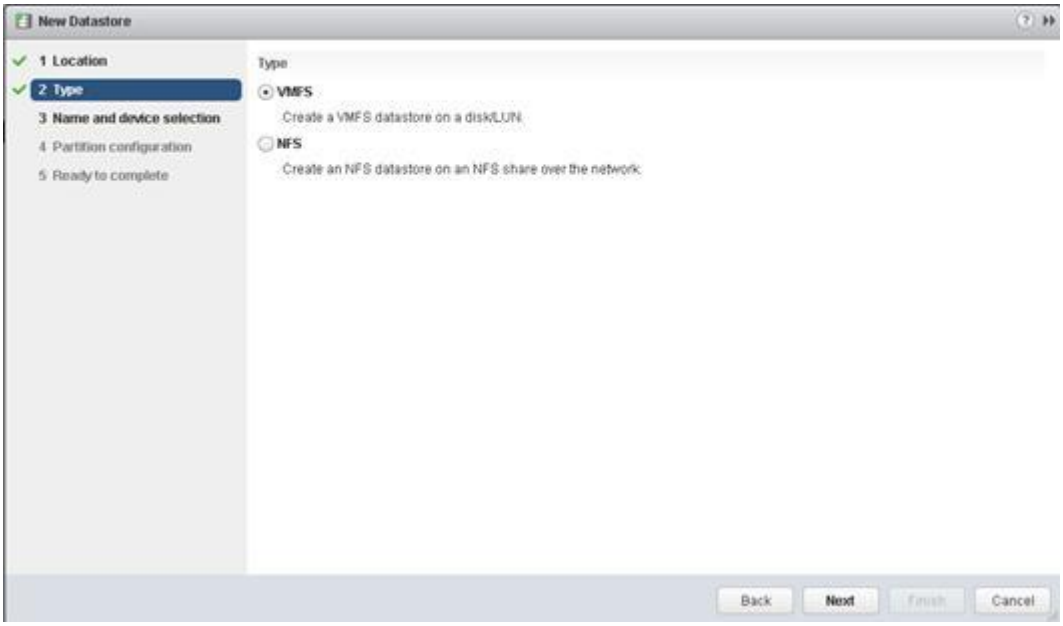

Getting Started
Summary
Monitor
Manage
Related Objects
Settings
Networking
Storage
Alarm Definitions
Tags
Permissions
Virtual Machines
Default VM Compatibility
VM Startup/Shutdown
Agent VM Settings
Swap file location
System
Licensing
Host profile
Licensing
Assign License Key...
Product
VMware vSphere 5 Enterprise Plus
License Key
Expires
Never
Features
Unlimited virtual SMP
vCenter agent for VMware host
Reliable Memory
vShield Endpoint
vSphere Replication
SR-IOV

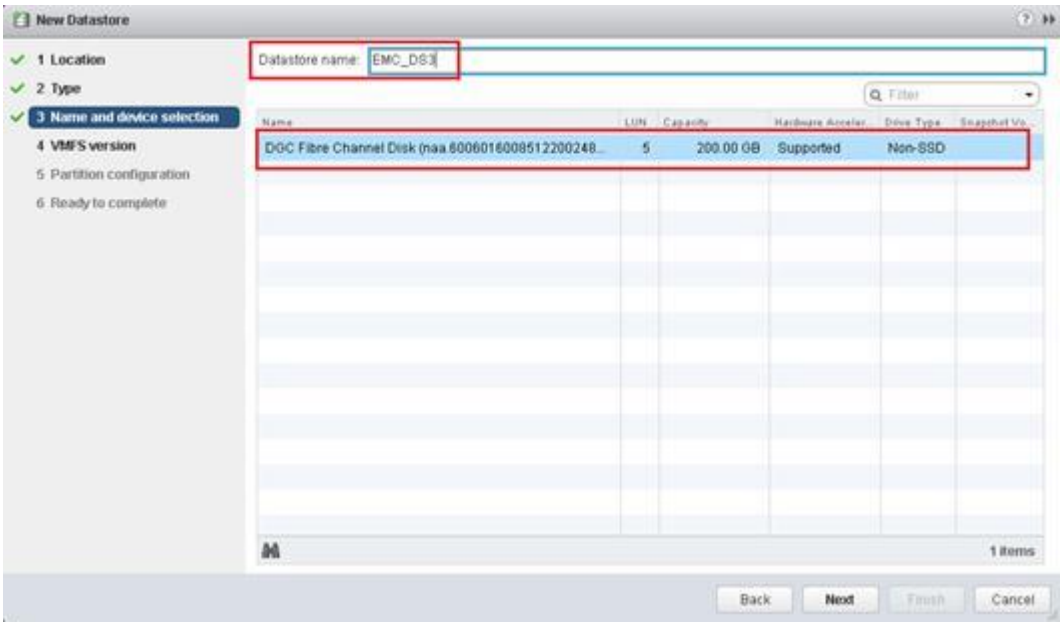

Getting Started
Summary
Monitor
Manage
Related Objects
Settings
Networking
Storage
Alarm Definitions
Tags
Permissions
Virtual switches
VMkernel adapters
Physical adapters
TCP/IP configuration
Advanced
Virtual switches
vSwitch0
vSwitch1
Standard switch: vSwitch0 (VM Network)
VM Network
VLAN ID: --
Virtual Machines (0)
vMotion
VLAN ID: --
VMkernel Ports (1)
Management Network
VLAN ID: --
VMkernel Ports (1)
Physical Adapters
vmnic0 1000 Full
vmnic2 1000 Full

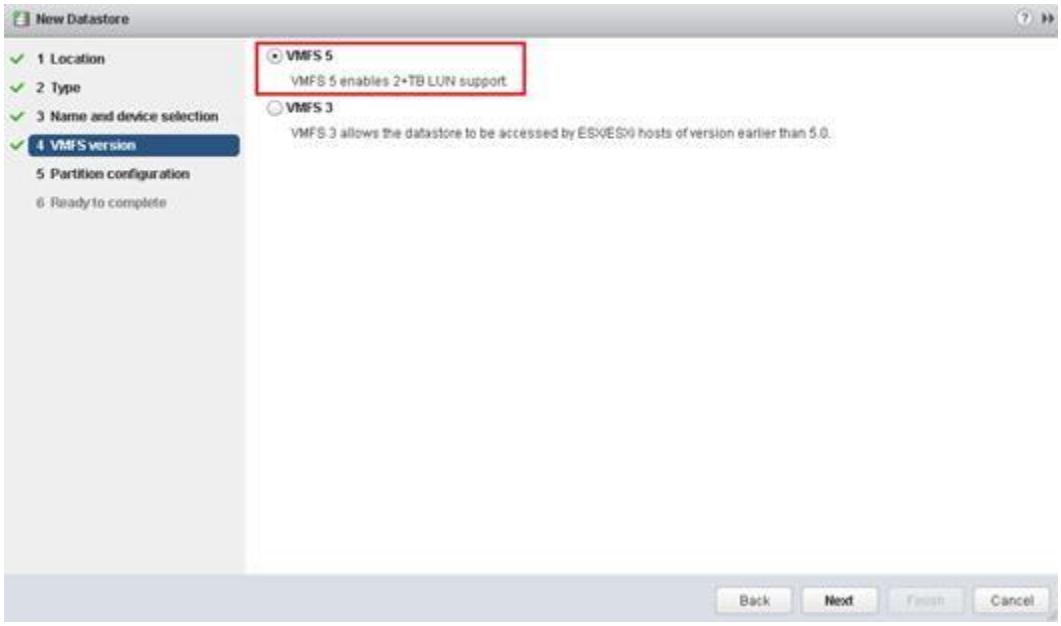

Getting Started
Summary
Monitor
Manage
Related Objects
Settings
Networking
Storage
Alarm Definitions
Tags
Permissions
Virtual switches
VMkernel adapters
Physical adapters
TCP/IP configuration
Advanced
Virtual switches
Create new vSwitch / port group
vSwitch0
Standard switch: vSwitch0 (VM Network)

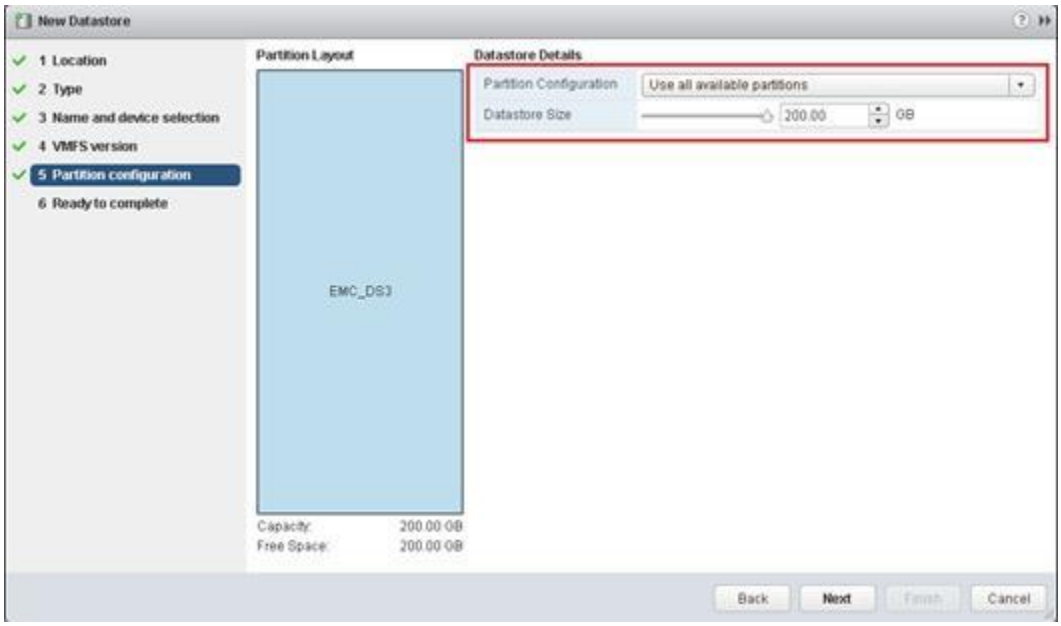
Actions - 10.2.1.9
Enter Maintenance Mode
Exit Maintenance Mode
Connect
Power On
Reboot
Shut Down
Disconnect
New Virtual Machine...
Deploy OVF Template...
New Datastore...
Settings

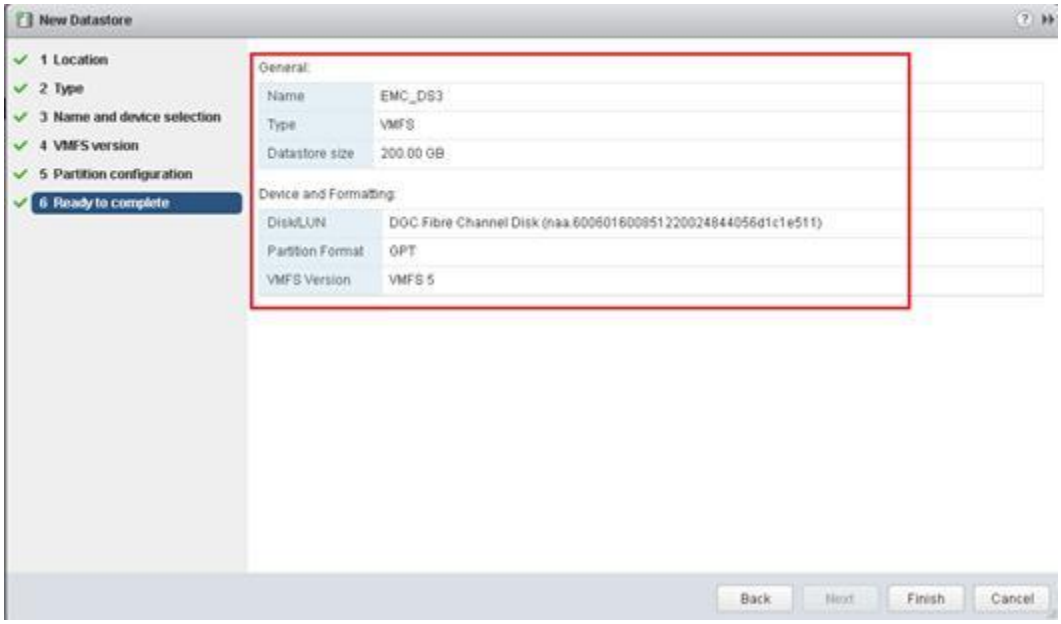

New Datastore
1 Location
2 Type
3 Name and device selection
4 Partition configuration
5 Ready to complete
Location:
10.2.1.9
Back
Next
Finish
Cancel

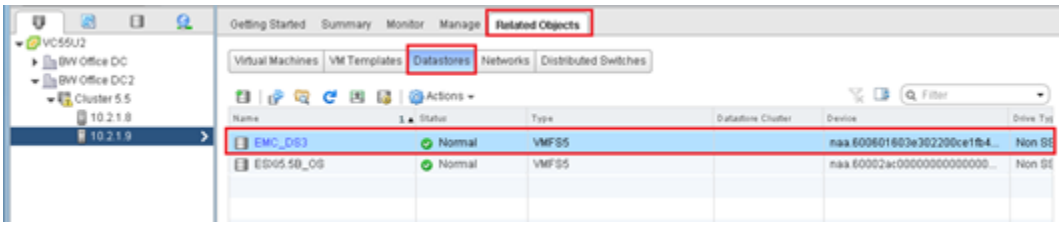

New Datastore
1 Location
2 Type
3 Name and device selection
4 Partition configuration
5 Ready to complete
Type
VMFS
Create a VMFS datastore on a disk/LUN.
NFS
Create an NFS datastore on an NFS share over the network.
Back
Next
Finish
Cancel

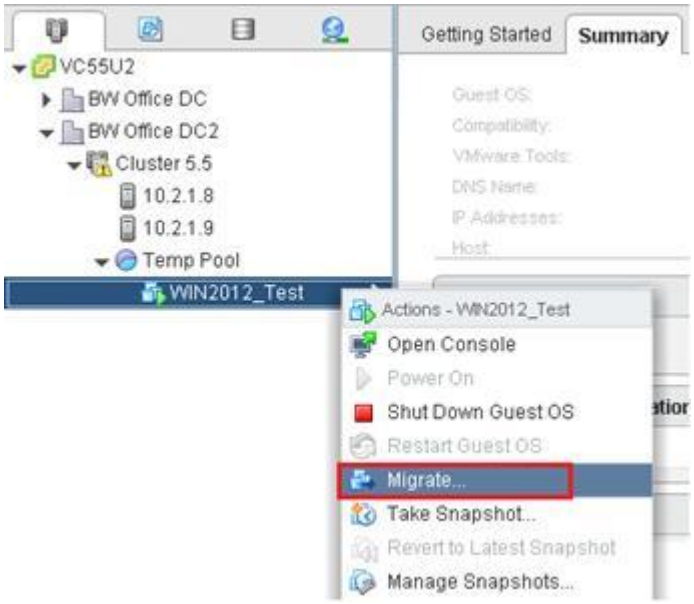

New Datastore
1 Location
2 Type
3 Name and device selection
4 VMFS version
5 Partition configuration
6 Ready to complete
Datastore name: EMC_DS3
Filter
Name
LUN
Capacity
Hardware Acceler...
Drive Type
Snapshot Vo...
DGC Fibre Channel Disk (naa.6006016008512200248...
5
200.00 GB
Supported
Non-SSD
1 items
Back
Next
Finish
Cancel


New Datastore
1 Location
2 Type
3 Name and device selection
4 VMFS version
5 Partition configuration
6 Ready to complete
VMFS 5
VMFS 5 enables 2+TB LUN support
VMFS 3
VMFS 3 allows the datastore to be accessed by ESX/ESXi hosts of version earlier than 5.0.
Back
Next
Finish
Cancel

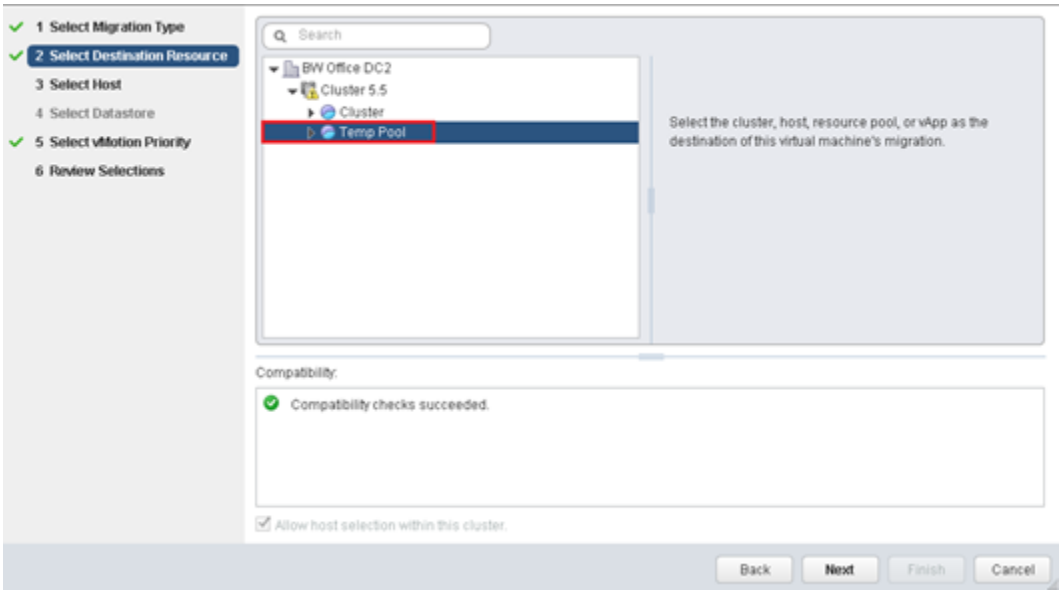

New Datastore
1 Location
2 Type
3 Name and device selection
4 VMFS version
5 Partition configuration
6 Ready to complete
Partition Layout
EMC_DS3
Capacity: 200.00 GB
Free Space: 200.00 GB
Datastore Details
Partition Configuration
Use all available partitions
Datastore Size
200.00
GB
Back
Next
Finish
Cancel

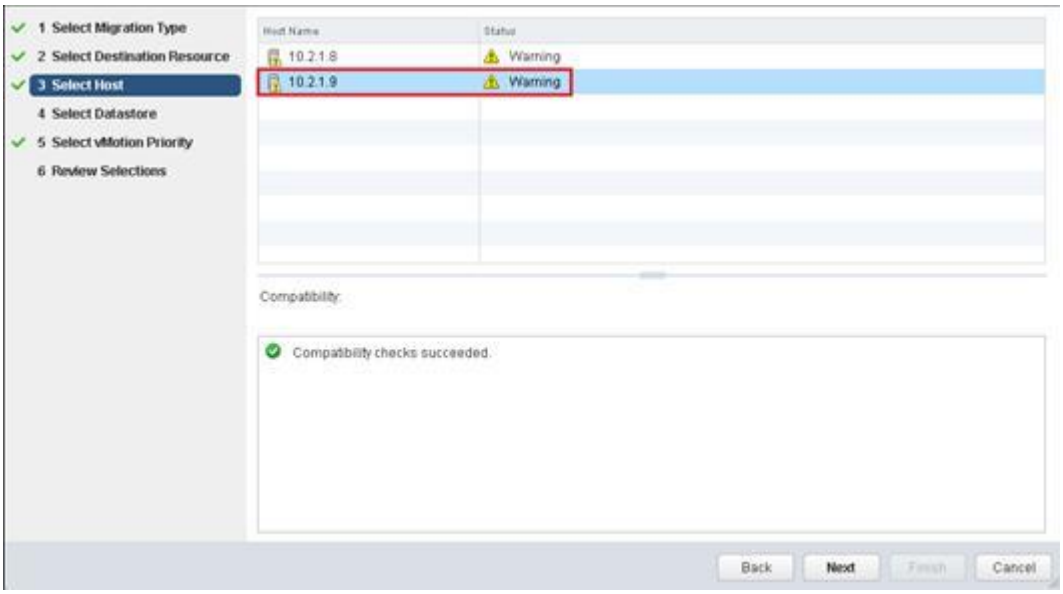

New Datastore
1 Location
2 Type
3 Name and device selection
4 VMFS version
5 Partition configuration
6 Ready to complete
General:
Name
EMC_DS3
Type
VMFS
Datastore size
200.00 GB
Device and Formatting:
Disk/LUN
DGC Fibre Channel Disk (naa.600601600851220024844056d1c1e511)
Partition Format
GPT
VMFS Version
VMFS 5
Back
Next
Finish
Cancel

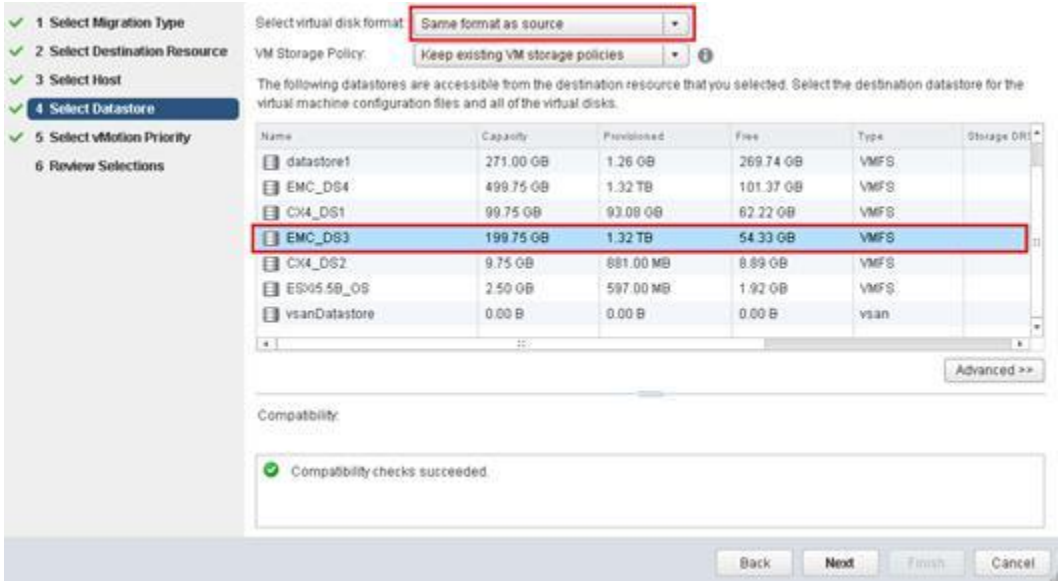

VC55U2
BW Office DC
BW Office DC2
Cluster 5.5
10.2.1.8
10.2.1.9
Getting Started
Summary
Monitor
Manage
Related Objects
Virtual Machines
VM Templates
Datastores
Networks
Distributed Switches
Actions
Filter
Name
Status
Type
Datastore Cluster
Device
EMC_DS3
Normal
VMFS5
naa.600601603e302200ce1fb4...
Non SS
ESX65.5B_OS
Normal
VMFS5
naa.60002ac0000000000000...
Non SS

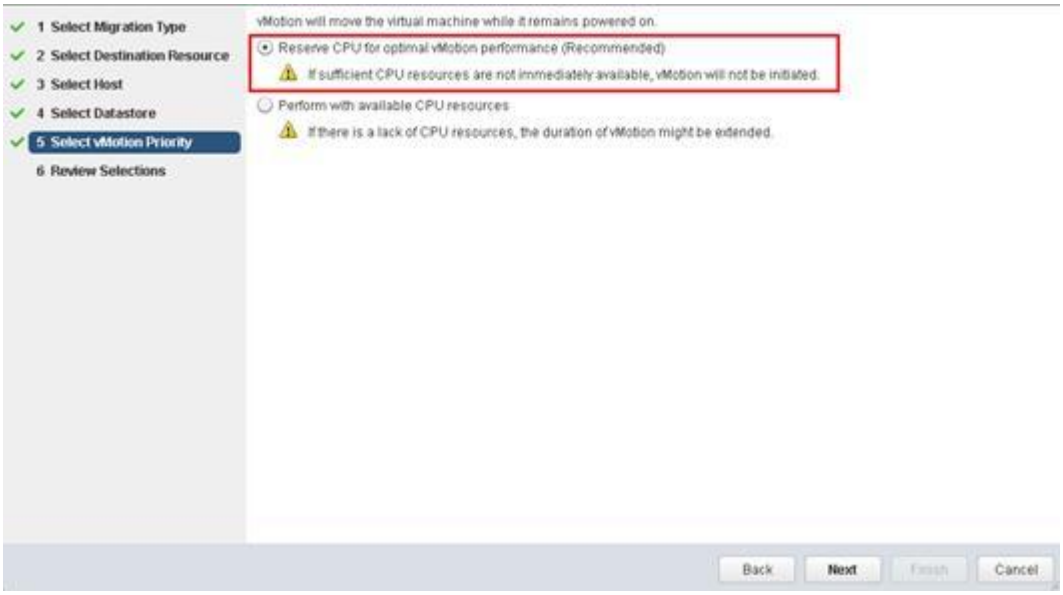

Getting Started
Summary
VC55U2
BW Office DC
BW Office DC2
Cluster 5.5
10.2.1.8
10.2.1.9
Temp Pool
WIN2012_Test
Guest OS:
Compatibility:
VMware Tools:
DNS Name:
IP Addresses:
Host:
Actions - WIN2012_Test
Open Console
Power On
Shut Down Guest OS
Restart Guest OS
Migrate...
Take Snapshot...
Revert to Latest Snapshot
Manage Snapshots...

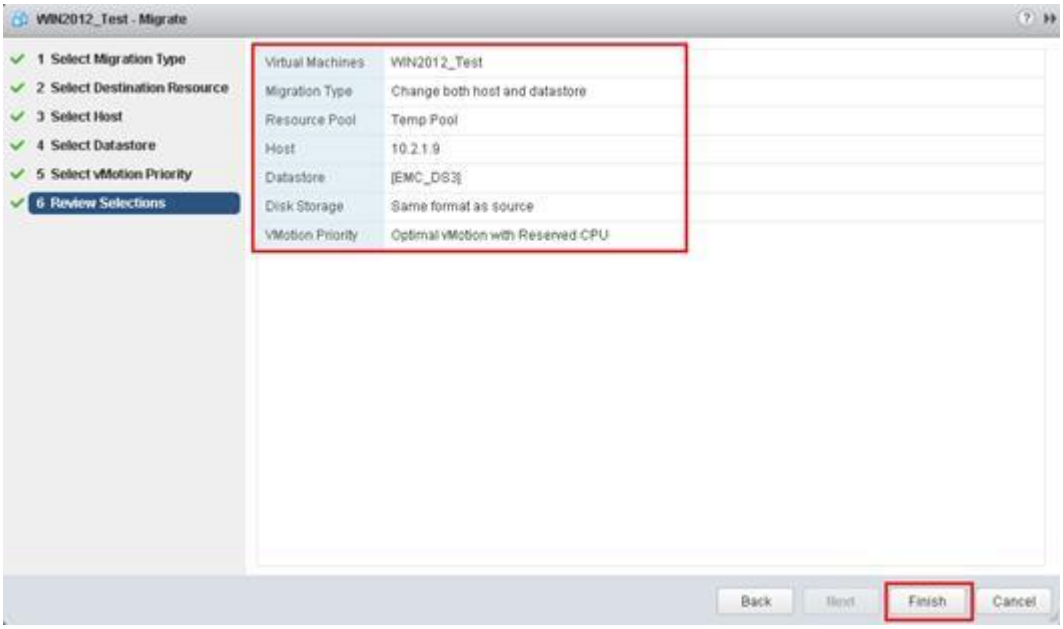
WIN2012_Test - Migrate
1 Select Migration Type
2 Select Destination Resource
3 Select Datastore
4 Select vMotion Priority
5 Review Selections
Change host
Move the virtual machine to another host
Change datastore
Move the virtual machine's storage to another datastore
Change both host and datastore
Move the virtual machine to another host and move its storage to another datastore

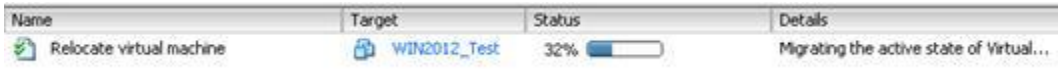

1 Select Migration Type
2 Select Destination Resource
3 Select Host
4 Select Datastore
5 Select vMotion Priority
6 Review Selections
Search
BW Office DC2
Cluster 5.5
Cluster
Temp Pool
Select the cluster, host, resource pool, or vApp as the destination of this virtual machine's migration.
Compatibility:
Compatibility checks succeeded.
Allow host selection within this cluster.
Back
Next
Finish
Cancel

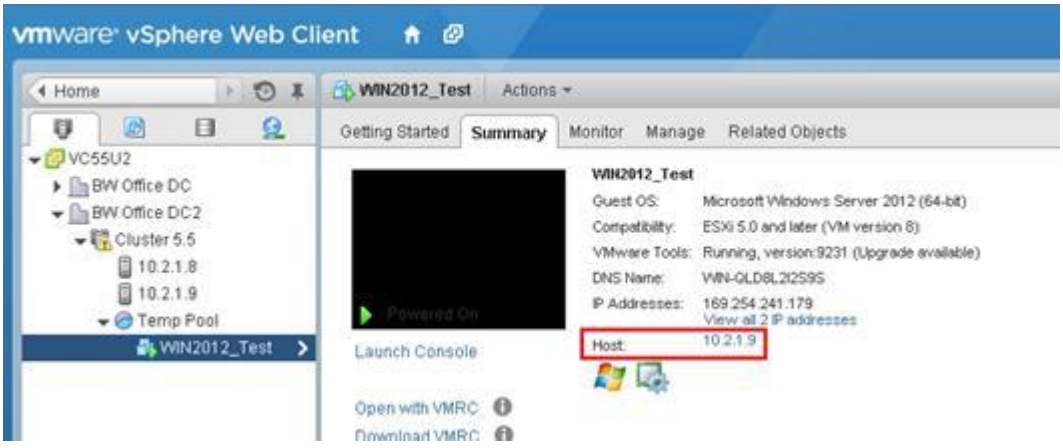

1 Select Migration Type
2 Select Destination Resource
3 Select Host
4 Select Datastore
5 Select vMotion Priority
6 Review Selections
Host Name
Status
10.2.1.8
Warning
10.2.1.9
Warning
Compatibility:
Compatibility checks succeeded.
Back
Next
Finish
Cancel

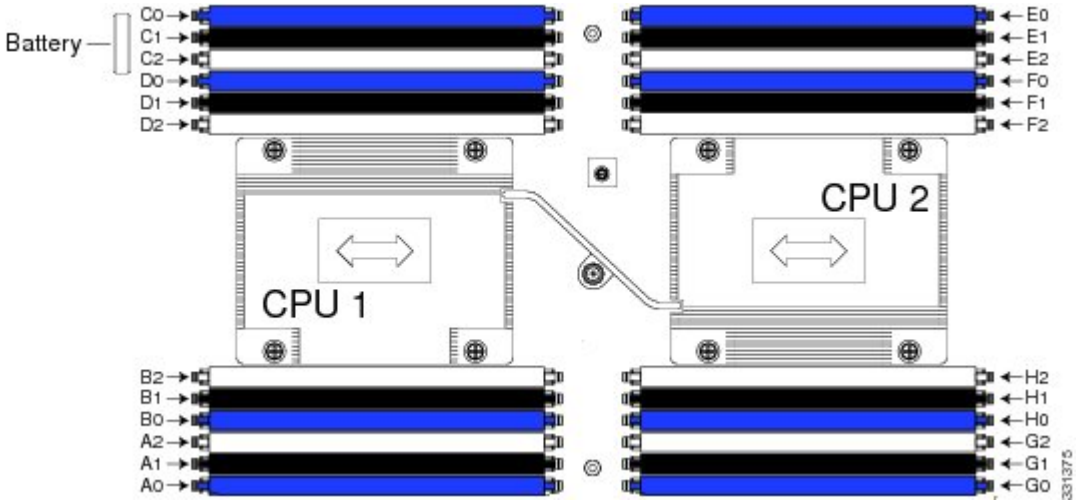

1 Select Migration Type
2 Select Destination Resource
3 Select Host
4 Select Datastore
5 Select vMotion Priority
6 Review Selections
Select virtual disk format:
Same format as source
VM Storage Policy:
Keep existing VM storage policies
The following datastores are accessible from the destination resource that you selected. Select the destination datastore for the virtual machine configuration files and all of the virtual disks.
Name
Capacity
Provisioned
Free
Type
Storage DRS
datastore1
271.00 GB
1.26 GB
269.74 GB
VMFS
EMC_DS4
499.75 GB
1.32 TB
101.37 GB
VMFS
CX4_DS1
99.75 GB
93.08 GB
62.22 GB
VMFS
EMC_DS3
199.75 GB
1.32 TB
54.33 GB
VMFS
CX4_DS2
9.75 GB
681.00 MB
8.89 GB
VMFS
ESX05.5B_OS
2.50 GB
597.00 MB
1.92 GB
VMFS
vsanDatastore
0.00 B
0.00 B
0.00 B
vsan
Advanced >>
Compatibility:
Compatibility checks succeeded.
Back
Next
Finish
Cancel

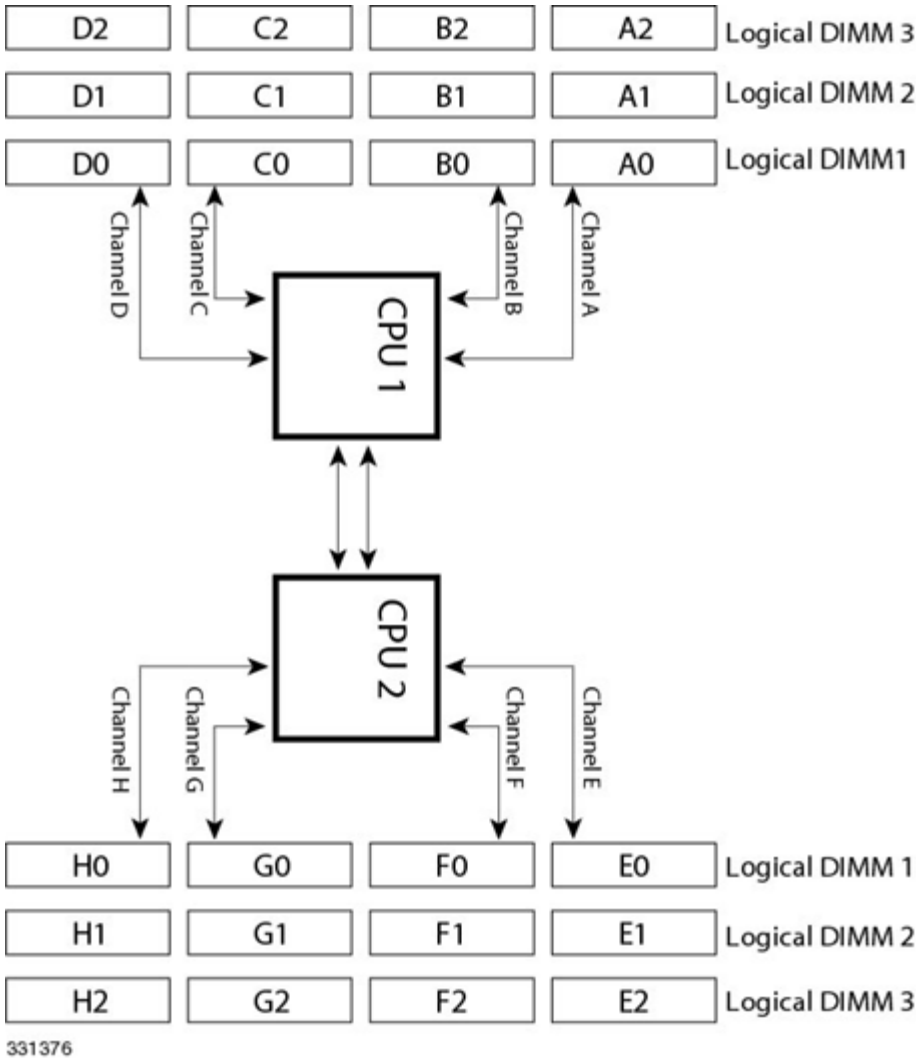

1 Select Migration Type
2 Select Destination Resource
3 Select Host
4 Select Datastore
5 Select vMotion Priority
6 Review Selections
vMotion will move the virtual machine while it remains powered on.
Reserve CPU for optimal vMotion performance (Recommended)
If sufficient CPU resources are not immediately available, vMotion will not be initiated.
Perform with available CPU resources
If there is a lack of CPU resources, the duration of vMotion might be extended.
Back
Next
Finish
Cancel

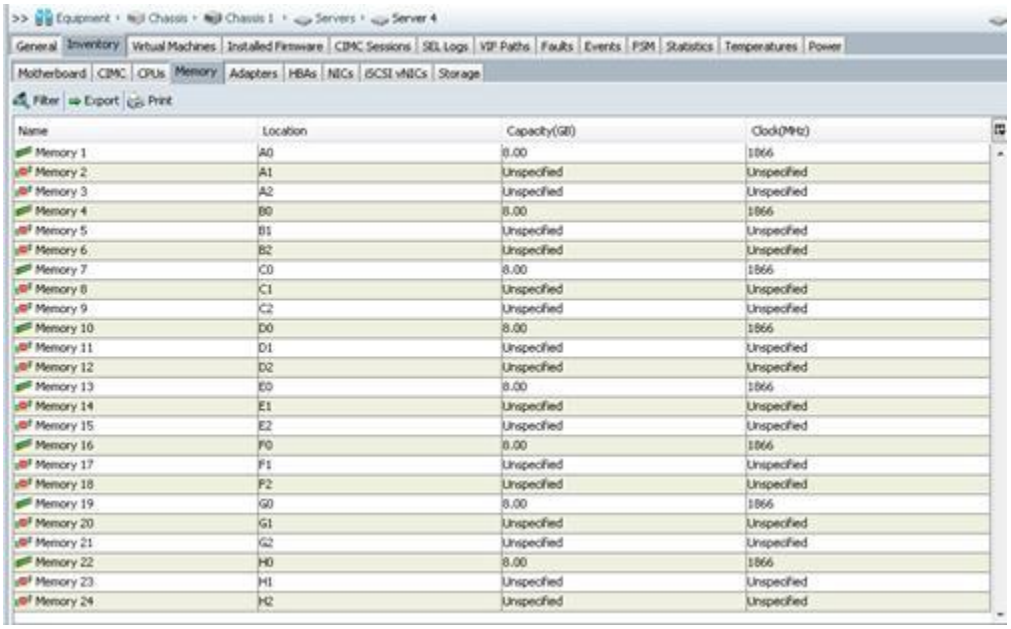

WIN2012_Test - Migrate
1 Select Migration Type
2 Select Destination Resource
3 Select Host
4 Select Datastore
5 Select vMotion Priority
6 Review Selections
Virtual Machines
WIN2012_Test
Migration Type
Change both host and datastore
Resource Pool
Temp Pool
Host
10.2.1.9
Datastore
[EMC_DS3]
Disk Storage
Same format as source
VMotion Priority
Optimal vMotion with Reserved CPU
Back
Next
Finish
Cancel


Name
Target
Status
Details
Relocate virtual machine
WIN2012_Test
32%
Migrating the active state of Virtual...

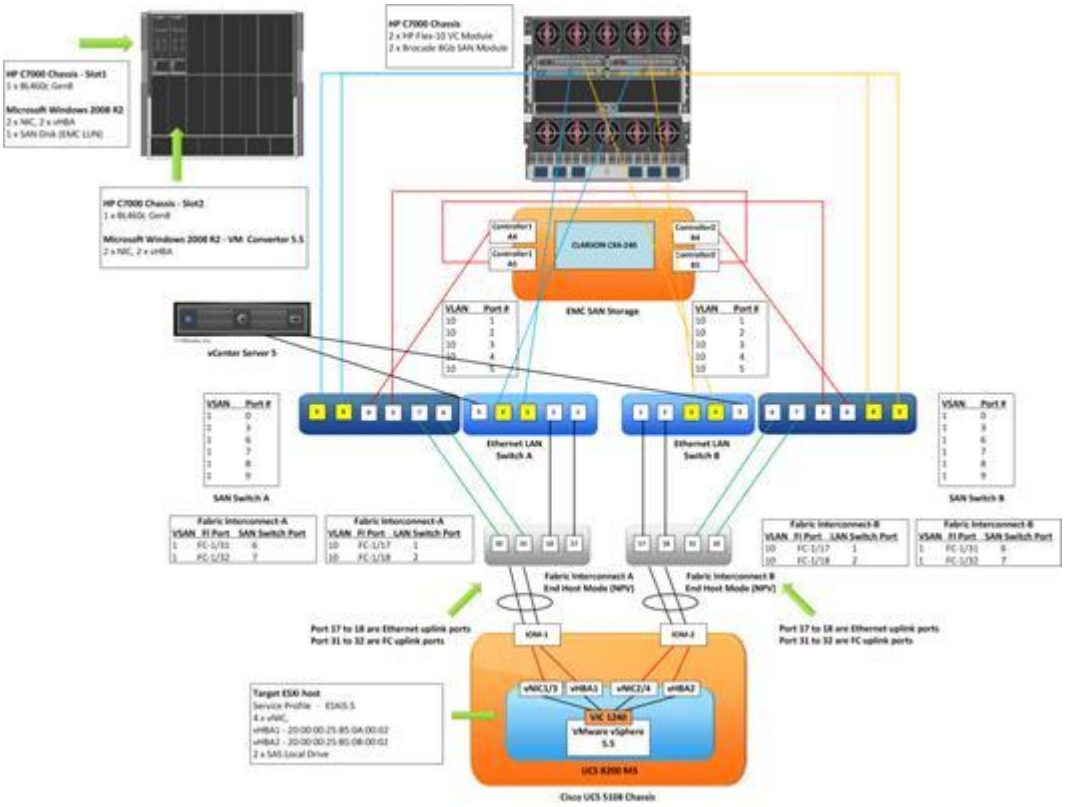

vmware vSphere Web Client
Home
VC55U2
BW Office DC
BW Office DC2
Cluster 5.5
10.2.1.8
10.2.1.9
Temp Pool
WIN2012_Test
WIN2012_Test
Actions
Getting Started
Summary
Monitor
Manage
Related Objects
Powered On
Launch Console
Open with VMRC
Download VMRC
WIN2012_Test
Guest OS:
Microsoft Windows Server 2012 (64-bit)
Compatibility:
ESXi 5.0 and later (VM version 8)
VMware Tools:
Running, version:9231 (Upgrade available)
DNS Name:
WIN-GLD8L2IS9S
IP Addresses:
169.254.241.179
View all 2 IP addresses
Host:
10.2.1.9


Battery
C0
C1
C2
D0
D1
D2
E0
E1
E2
F0
F1
F2
CPU 2
CPU 1
B2
B1
B0
A2
A1
A0
H2
H1
H0
G2
G1
G0
331375

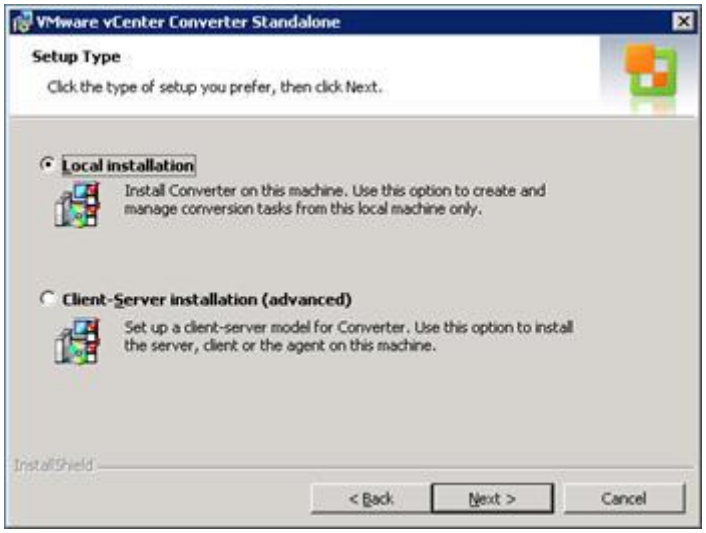

D2
C2
B2
A2
Logical DIMM 3
D1
C1
B1
A1
Logical DIMM 2
D0
C0
B0
A0
Logical DIMM1
Channel D
Channel C
Channel B
Channel A
CPU 1
CPU 2
Channel H
Channel G
Channel F
Channel E
H0
G0
F0
E0
Logical DIMM 1
H1
G1
F1
E1
Logical DIMM 2
H2
G2
F2
E2
Logical DIMM 3
331376

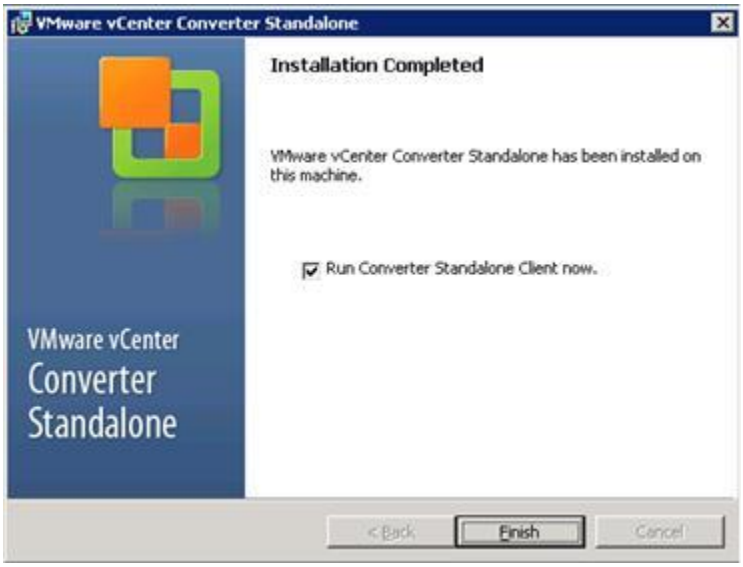


Name	Location	Capacity(GB)	Clock(MHz)
Memory 1	A0	8.00	1866
Memory 2	A1	Unspecified	Unspecified
Memory 3	A2	Unspecified	Unspecified
Memory 4	B0	8.00	1866
Memory 5	B1	Unspecified	Unspecified
Memory 6	B2	Unspecified	Unspecified
Memory 7	C0	8.00	1866
Memory 8	C1	Unspecified	Unspecified
Memory 9	C2	Unspecified	Unspecified
Memory 10	D0	8.00	1866
Memory 11	D1	Unspecified	Unspecified
Memory 12	D2	Unspecified	Unspecified
Memory 13	E0	8.00	1866
Memory 14	E1	Unspecified	Unspecified
Memory 15	E2	Unspecified	Unspecified
Memory 16	F0	8.00	1866
Memory 17	F1	Unspecified	Unspecified
Memory 18	F2	Unspecified	Unspecified
Memory 19	G0	8.00	1866
Memory 20	G1	Unspecified	Unspecified
Memory 21	G2	Unspecified	Unspecified
Memory 22	H0	8.00	1866
Memory 23	H1	Unspecified	Unspecified
Memory 24	H2	Unspecified	Unspecified

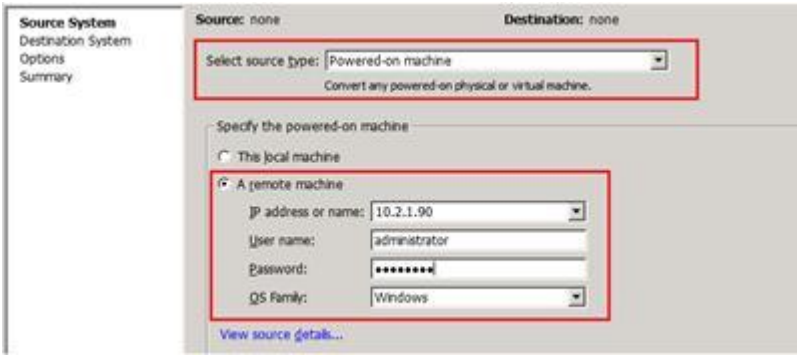

HP C7000 Chassis - Slot1
1 x BL460c Gen8
Microsoft Windows 2008 R2
2 x NIC, 2 x vHBA
1 x SAN Disk (EMC LUN)
HP C7000 Chassis - Slot2
1 x BL460c Gen8
Microsoft Windows 2008 R2 - VM Converter 5.5
2 x NIC, 2 x vHBA
HP C7000 Chassis
2 x HP Flex-10 VC Module
2 x Brocade 8Gb SAN Module
CLARIION CX4-240
EMC SAN Storage
vCenter Server 5
VLAN Port #
10 1
10 2
10 3
10 4
10 5
VSAN Port #
1 0
1 3
1 6
1 7
1 8
1 9
SAN Switch A
SAN Switch B
Ethernet LAN Switch A
Ethernet LAN Switch B
Fabric Interconnect-A
VSAN FI Port SAN Switch Port
1 FC-1/31 6
1 FC-1/32 7
Fabric Interconnect-A
VLAN FI Port LAN Switch Port
10 FC-1/17 1
10 FC-1/18 2
Fabric Interconnect-B
VLAN FI Port LAN Switch Port
10 FC-1/17 1
10 FC-1/18 2
Fabric Interconnect-B
VSAN FI Port SAN Switch Port
1 FC-1/31 6
1 FC-1/32 7
Fabric Interconnect A
End Host Mode (NPV)
Fabric Interconnect B
End Host Mode (NPV)
Port 17 to 18 are Ethernet uplink ports
Port 31 to 32 are FC uplink ports
Port 17 to 18 are Ethernet uplink ports
Port 31 to 32 are FC uplink ports
IOM-1
IOM-2
vNIC1/3
vHBA1
vNIC2/4
vHBA2
VIC 1240
VMware vSphere 5.5
UCS 6200 M5
Cisco UCS 5108 Chassis
Target ESXi host
Service Profile - ESXi5.5
4 x vNIC
vHBA1 - 20:00:00:25:B5:0A:00:02
vHBA2 - 20:00:00:25:B5:0B:00:02
2 x SAS Local Drive

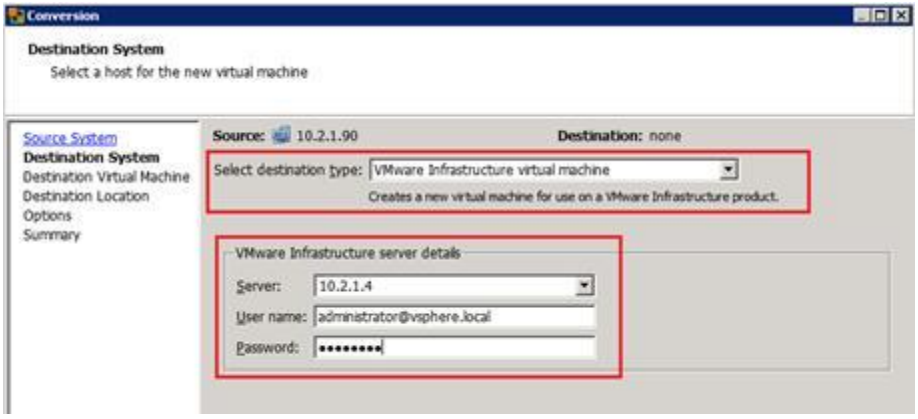
vmware
VMware vCenter
Converter Standalone
InstallShield Wizard
Cancel


VMware vCenter Converter Standalone
Setup Type
Click the type of setup you prefer, then click Next.
Local installation
Install Converter on this machine. Use this option to create and manage conversion tasks from this local machine only.
Client-Server installation (advanced)
Set up a client-server model for Converter. Use this option to install the server, client or the agent on this machine.
InstallShield
< Back
Next >
Cancel

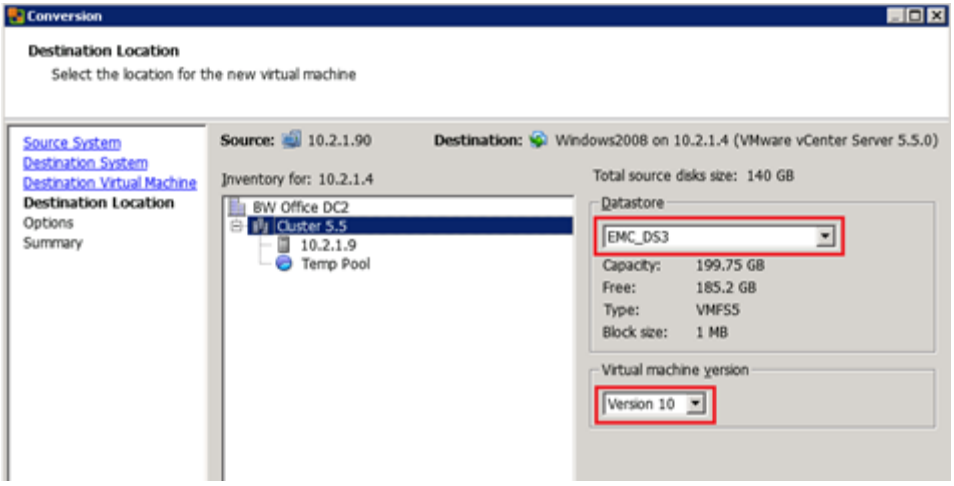

VMware vCenter Converter Standalone
Installation Completed
VMware vCenter Converter Standalone has been installed on this machine.
Run Converter Standalone Client now.
VMware vCenter
Converter
Standalone
< Back
Finish
Cancel

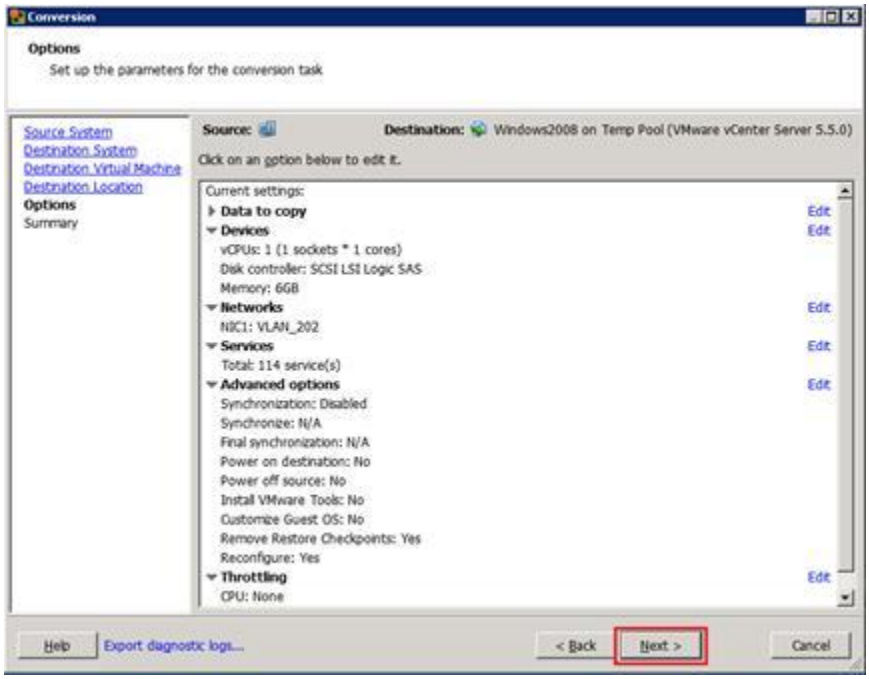
VMware vCenter Converter Standalone
File View Task Administration Help
Convert machine
Configure machine
View by: Tasks Show: All tasks in Recent tasks
Task ID
Job ID
Source
Destination
Status
Start time
End time

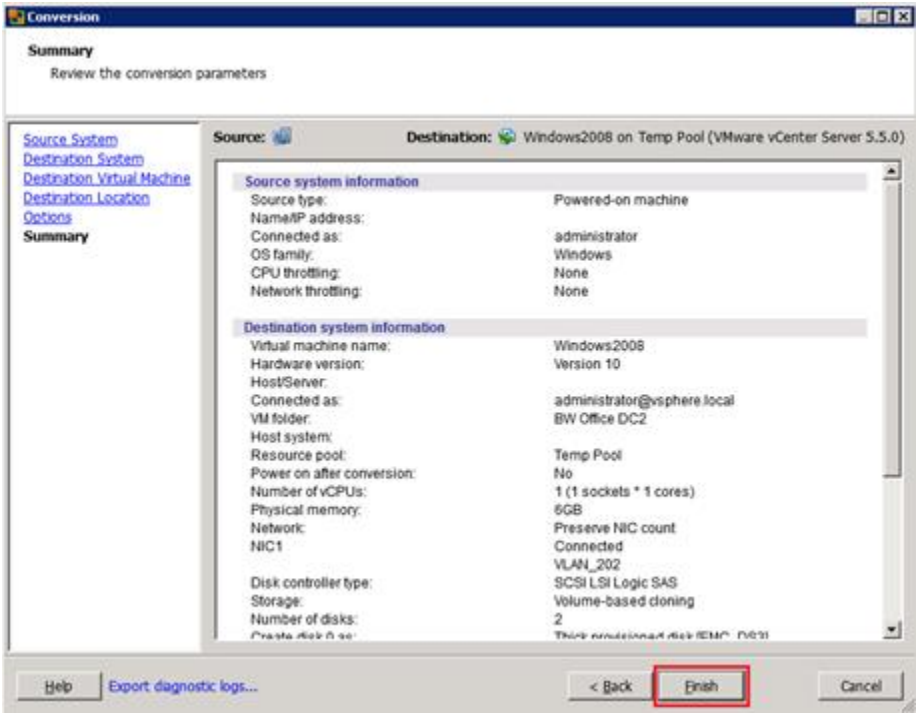

Source System
Destination System
Options
Summary
Source: none
Destination: none
Select source type: Powered-on machine
Convert any powered-on physical or virtual machine.
Specify the powered-on machine
This local machine
A remote machine
IP address or name: 10.2.1.90
User name: administrator
Password:
OS Family: Windows
View source details...

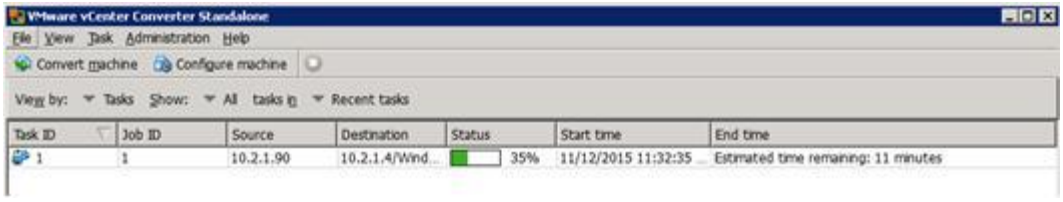

Conversion
Destination System
Select a host for the new virtual machine
Source System
Destination System
Destination Virtual Machine
Destination Location
Options
Summary
Source: 10.2.1.90
Destination: none
Select destination type: VMware Infrastructure virtual machine
Creates a new virtual machine for use on a VMware Infrastructure product.
VMware Infrastructure server details
Server: 10.2.1.4
User name: administrator@vsphere.local
Password: ••••••••

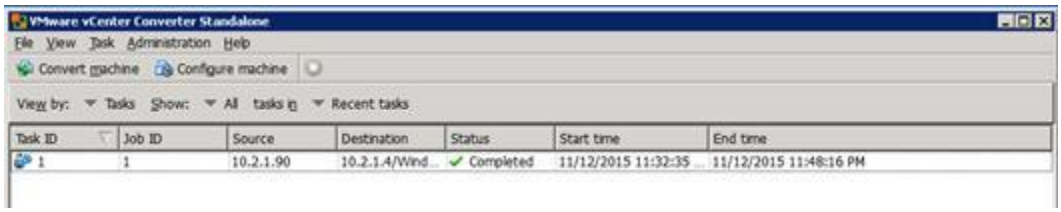
Conversion
Destination Virtual Machine
Select the destination VM name and folder
Source System
Destination System
Destination Virtual Machi
Destination Location
Options
Summary
Source: 10.2.1.90
Destination:
on 10.2.1.4 (VMware vCenter Server 5.5.0)
Name: Windows2008
Inventory for: 10.2.1.4
Search for name with:
Clear
10.2.1.4
BW Office DC [44 VMs]
BW Office DC2 [4 VMs]
Discovered virtual machine
VM name


Conversion
Destination Location
Select the location for the new virtual machine
Source System
Destination System
Destination Virtual Machine
Destination Location
Options
Summary
Source: 10.2.1.90
Destination: Windows2008 on 10.2.1.4 (VMware vCenter Server 5.5.0)
Inventory for: 10.2.1.4
Total source disks size: 140 GB
BW Office DC2
Cluster 5.5
10.2.1.9
Temp Pool
Datastore
EMC_DS3
Capacity: 199.75 GB
Free: 185.2 GB
Type: VMFS5
Block size: 1 MB
Virtual machine version
Version 10

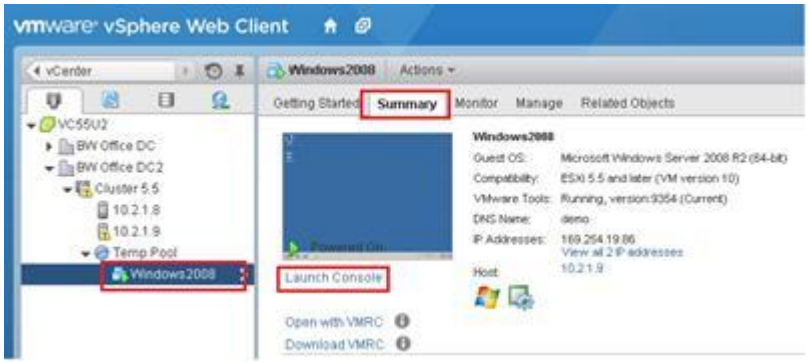

Conversion
Options
Set up the parameters for the conversion task
Source System
Destination System
Destination Virtual Machine
Destination Location
Options
Summary
Source:
Destination: Windows2008 on Temp Pool (VMware vCenter Server 5.5.0)
Click on an option below to edit it.
Current settings:
Data to copy
Edit
Devices
Edit
vCPUs: 1 (1 sockets * 1 cores)
Disk controller: SCSI LSI Logic SAS
Memory: 6GB
Networks
Edit
NIC1: VLAN_202
Services
Edit
Total: 114 service(s)
Advanced options
Edit
Synchronization: Disabled
Synchronize: N/A
Final synchronization: N/A
Power on destination: No
Power off source: No
Install VMware Tools: No
Customize Guest OS: No
Remove Restore Checkpoints: Yes
Reconfigure: Yes
Throttling
Edit
CPU: None
Help
Export diagnostic logs...
< Back
Next >
Cancel

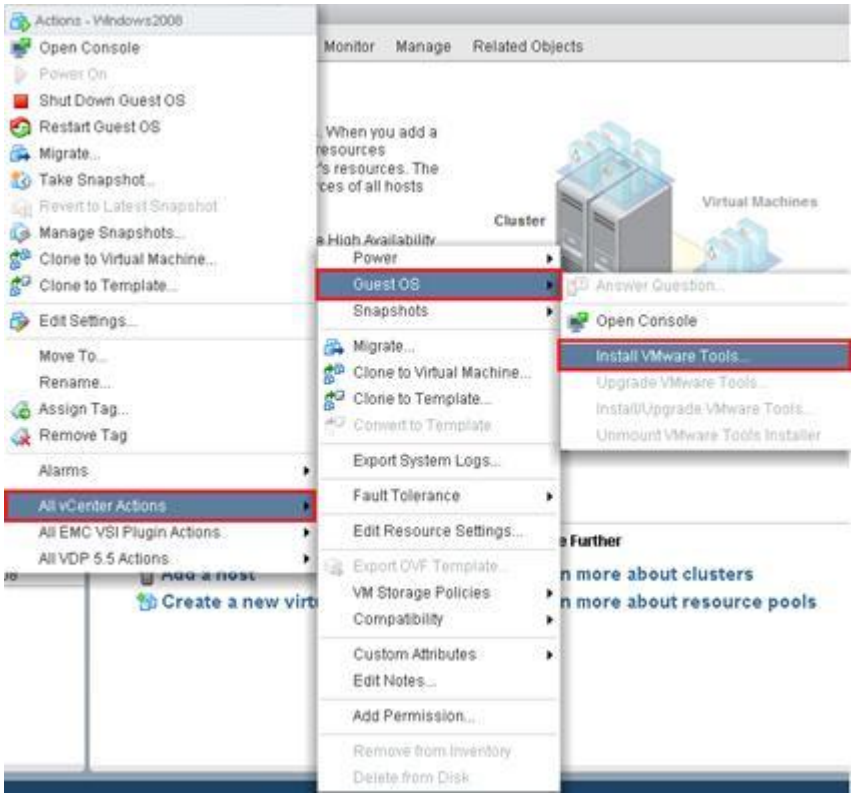

Conversion
Summary
Review the conversion parameters
Source System
Destination System
Destination Virtual Machine
Destination Location
Options
Summary
Source:
Destination: Windows2008 on Temp Pool (VMware vCenter Server 5.5.0)
Source system information
Source type: Powered-on machine
Name/IP address:
Connected as: administrator
OS family: Windows
CPU throttling: None
Network throttling: None
Destination system information
Virtual machine name: Windows2008
Hardware version: Version 10
Host/Server:
Connected as: administrator@vsphere.local
VM folder: BW Office DC2
Host system:
Resource pool: Temp Pool
Power on after conversion: No
Number of vCPUs: 1 (1 sockets * 1 cores)
Physical memory: 6GB
Network: Preserve NIC count
NIC1 Connected
VLAN_202
Disk controller type: SCSI LSI Logic SAS
Storage: Volume-based cloning
Number of disks: 2
Help
Export diagnostic logs...
< Back
Finish
Cancel

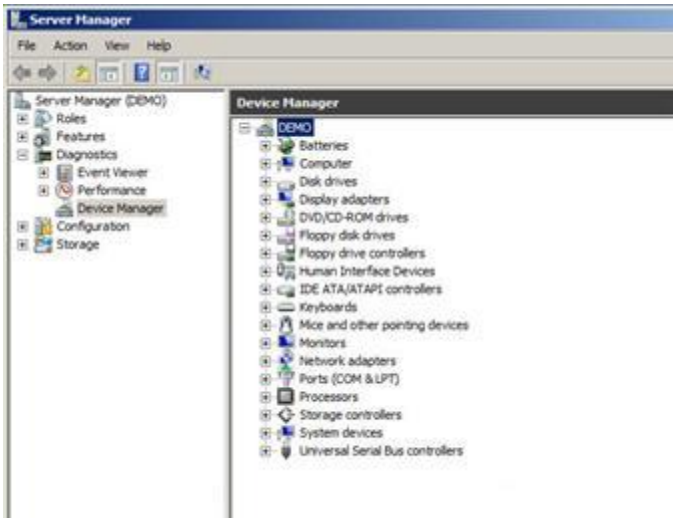

VMware vCenter Converter Standalone
File View Task Administration Help
Convert machine
Configure machine
View by: Tasks Show: All tasks in Recent tasks
Task ID
Job ID
Source
Destination
Status
Start time
End time
1
1
10.2.1.90
10.2.1.4/Wind...
35%
11/12/2015 11:32:35 ...
Estimated time remaining: 11 minutes

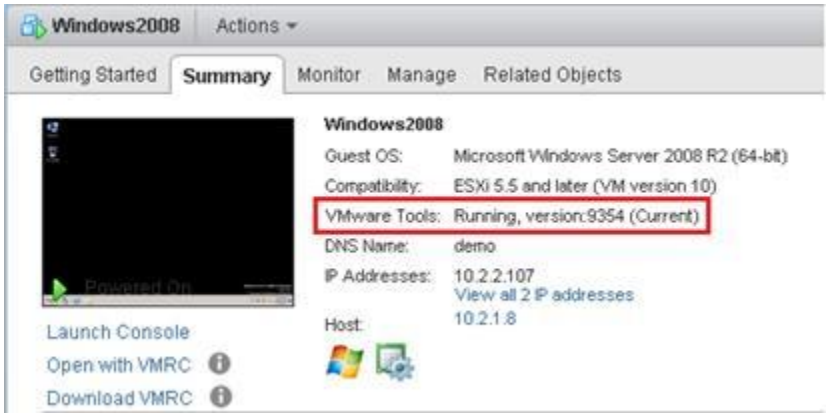

VMware vCenter Converter Standalone
File View Task Administration Help
Convert machine
Configure machine
View by: Tasks Show: All tasks in Recent tasks
Task ID
Job ID
Source
Destination
Status
Start time
End time
1
1
10.2.1.90
10.2.1.4/Wind...
Completed
11/12/2015 11:32:35 ...
11/12/2015 11:48:16 PM

vmware vSphere Web Client
Updated at 1:07 AM
vCenter
Windows2008
Actions
Getting Started
Summary
Monitor
Manage
Related Objects
VC55U2
BW Office DC
BW Office DC2
Cluster 5.5
10.2.1.8
10.2.1.9
Temp Pool
Windows2008
What is a Virtual Machine?
A virtual machine is a software computer that, like a physical computer, runs an operating system and applications. An operating system installed on a virtual machine is called a guest operating system.
Because every virtual machine is an isolated computing environment, you can use virtual machines as desktop or workstation environments, as testing environments, or to consolidate server applications.
In vCenter Server, virtual machines run on hosts or clusters. The same host can run many virtual machines.
Virtual Machines
Cluster
Host
Datacenter
vCenter Server
vSphere Client

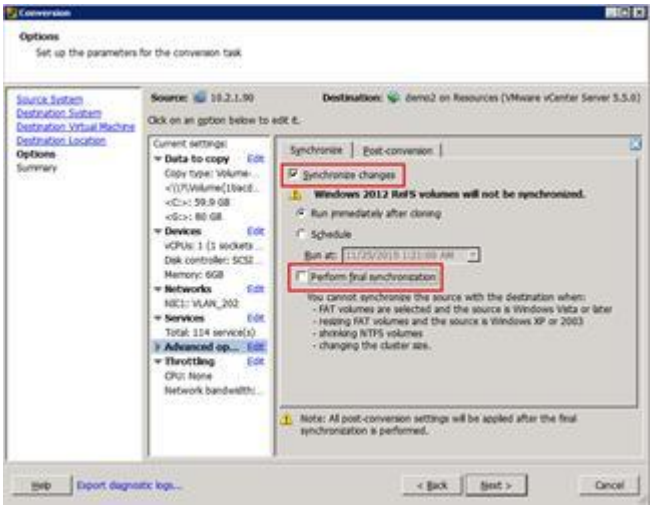

vmware vSphere Web Client
vCenter
Windows2008
Actions
Getting Started
Summary
Monitor
Manage
Related Objects
VC55U2
BW Office DC
BW Office DC2
Cluster 5.5
10.2.1.8
10.2.1.9
Temp Pool
Windows2008
Powered On
Launch Console
Open with VMRC
Download VMRC
Windows2008
Guest OS: Microsoft Windows Server 2008 R2 (64-bit)
Compatibility: ESXi 5.5 and later (VM version 10)
VMware Tools: Running, version:9354 (Current)
DNS Name: demo
IP Addresses: 169.254.19.86
View all 2 IP addresses
10.2.1.9
Host:

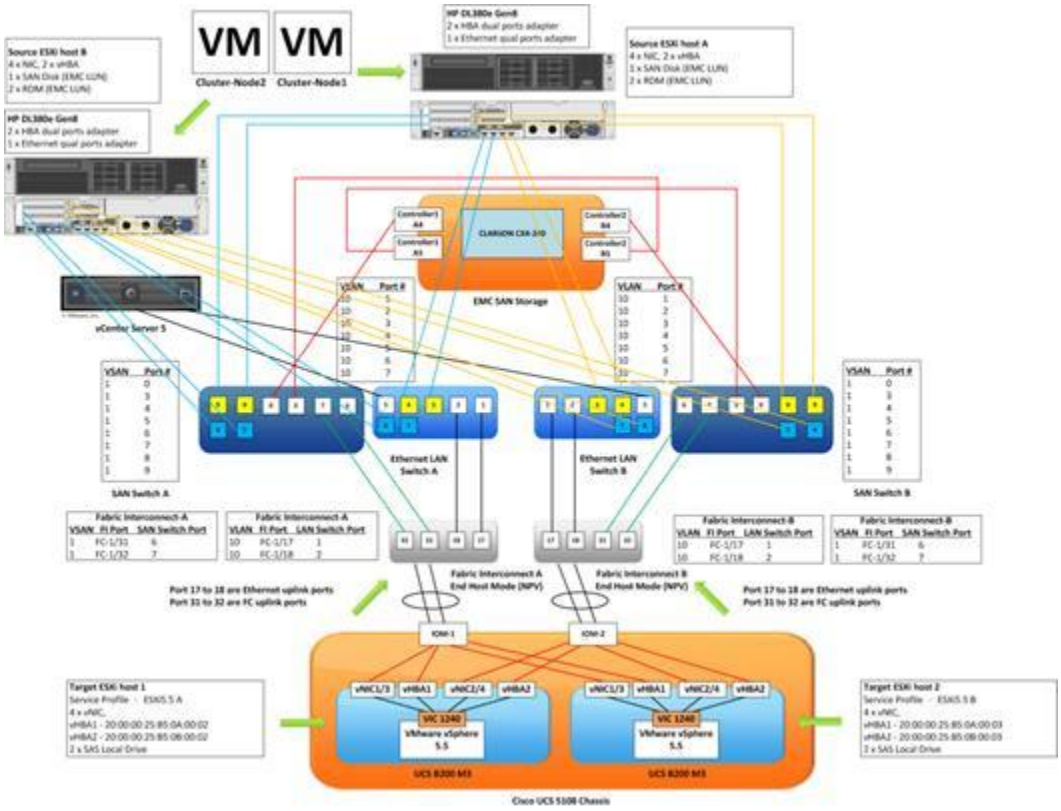

Actions - Windows2008
Open Console
Power On
Shut Down Guest OS
Restart Guest OS
Migrate...
Take Snapshot...
Revert to Latest Snapshot
Manage Snapshots...
Clone to Virtual Machine...
Clone to Template...
Edit Settings...
Move To...
Rename...
Assign Tag...
Remove Tag
Alarms
All vCenter Actions
All EMC VSI Plugin Actions
All VDP 5.5 Actions
Monitor
Manage
Related Objects
Cluster
Virtual Machines
Power
Guest OS
Snapshots
Migrate...
Clone to Virtual Machine...
Clone to Template...
Convert to Template
Export System Logs...
Fault Tolerance
Edit Resource Settings...
Export OVF Template...
VM Storage Policies
Compatibility
Custom Attributes
Edit Notes...
Add Permission...
Remove from Inventory
Delete from Disk
Answer Question...
Open Console
Install VMware Tools...
Upgrade VMware Tools...
Install/Upgrade VMware Tools...
Unmount VMware Tools Installer
Create a new virt
more about clusters
more about resource pools


Server Manager
File
Action
View
Help
Server Manager (DEMO)
Roles
Features
Diagnostics
Event Viewer
Performance
Device Manager
Configuration
Storage
Device Manager
DEMO
Batteries
Computer
Disk drives
Display adapters
DVD/CD-ROM drives
Floppy disk drives
Floppy drive controllers
Human Interface Devices
IDE ATA/ATAPI controllers
Keyboards
Mice and other pointing devices
Monitors
Network adapters
Ports (COM & LPT)
Processors
Storage controllers
System devices
Universal Serial Bus controllers

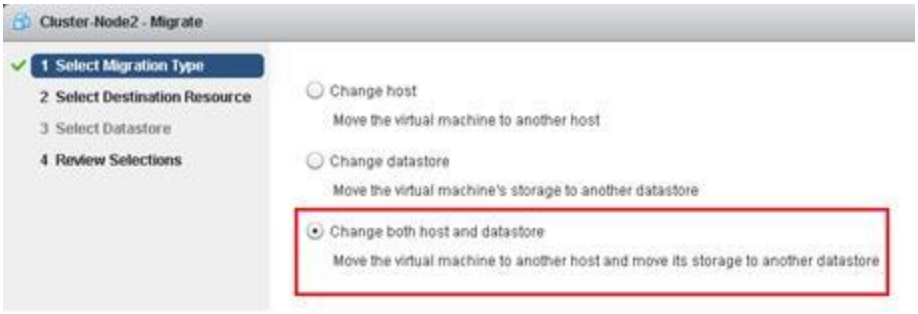

Windows2008
Actions
Getting Started
Summary
Monitor
Manage
Related Objects
Windows2008
Guest OS: Microsoft Windows Server 2008 R2 (64-bit)
Compatibility: ESXi 5.5 and later (VM version 10)
VMware Tools: Running, version:9354 (Current)
DNS Name: demo
IP Addresses: 10.2.2.107
View all 2 IP addresses
Host: 10.2.1.8
Launch Console
Open with VMRC
Download VMRC

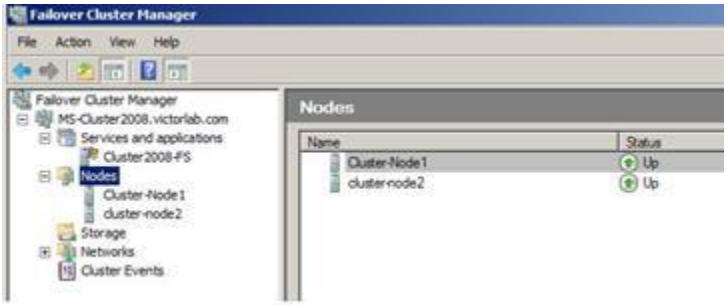
Source System
Destination System
Destination Virtual Machine
Destination Location
Options
Summary
Source: 10.2.1.90
Destination: demo2 on Resources (VMware vCenter Server 5.5.0)
Click on an option below to edit it.
Current settings:
Data to copy
Edit
Copy type: Volume-based
<C:>: 59.9 GB
<G:>: 80 GB
Devices
Edit
vCPUs: 1 (1 sockets * 1 cores)
Disk controller: SCSI LSI Logic SAS
Memory: 6GB
Networks
Edit
NIC1: VLAN_202
Services
Edit
Total: 114 service(s)
Advanced options
Edit
Synchronization: Disabled
Synchronize: N/A
Final synchronization: N/A
Power on destination: No
Power off source: No
Install VMware Tools: No
Customize Guest OS: No

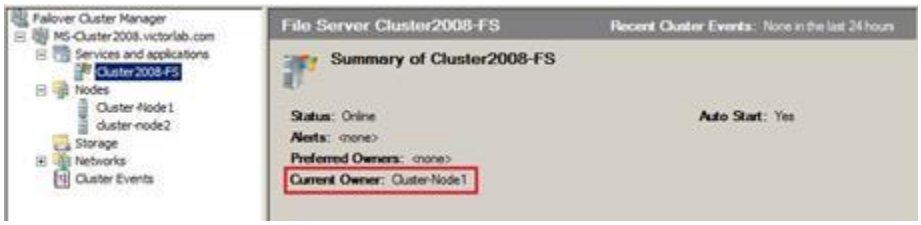

Conversion
Options
Set up the parameters for the conversion task
Source System
Destination System
Destination Virtual Machine
Destination Location
Options
Summary
Source: 10.2.1.90
Destination: demo2 on Resources (VMware vCenter Server 5.5.0)
Click on an option below to edit it.
Current settings:
Data to copy Edit
Devices Edit
Networks Edit
Services Edit
Advanced op... Edit
Throttling Edit
CPU: None
Synchronize
Post-conversion
Synchronize changes
Windows 2012 ReFS volumes will not be synchronized.
Run immediately after cloning
Schedule
Perform final synchronization
You cannot synchronize the source with the destination when:
- FAT volumes are selected and the source is Windows Vista or later
- resizing FAT volumes and the source a Windows XP or 2003
- shrinking NTFS volumes
- changing the cluster size.
Note: All post-conversion settings will be applied after the final synchronization is performed.
Help
Export diagnostic logs...
< Back
Next >
Cancel

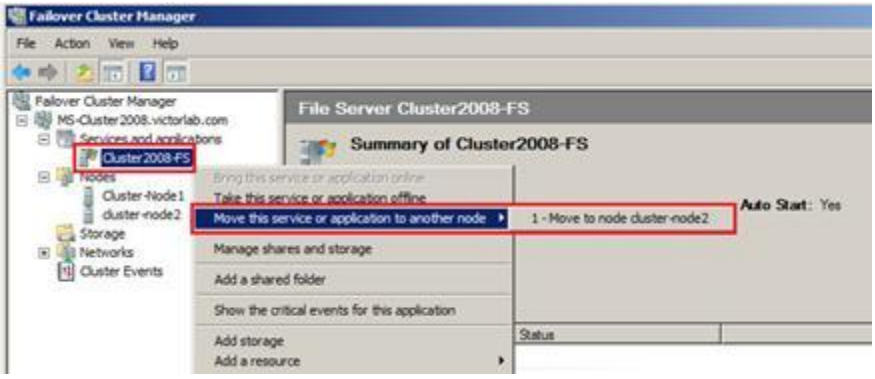

VM
VM
Cluster-Node2
Cluster-Node1
Source ESXi host B
4 x NIC, 2 x vHBA
1 x SAN Disk (EMC LUN)
2 x ROM (EMC LUN)
HP DL380e Gen8
2 x HBA dual ports adapter
1 x Ethernet qual ports adapter
Source ESXi host A
4 x NIC, 2 x vHBA
1 x SAN Disk (EMC LUN)
2 x ROM (EMC LUN)
CLARIUM CX4-240
EMC SAN Storage
vCenter Server 5
SAN Switch A
SAN Switch B
Ethernet LAN Switch A
Ethernet LAN Switch B
Fabric Interconnect A End Host Mode (NPV)
Fabric Interconnect B End Host Mode (NPV)
Port 17 to 18 are Ethernet uplink ports
Port 31 to 32 are FC uplink ports
Port 17 to 18 are Ethernet uplink ports
Port 31 to 32 are FC uplink ports
IOM-1
IOM-2
vNIC1/3
vHBA1
vNIC2/4
vHBA2
VIC 1240
Vmware vSphere 5.5
UCS B200 M3
Cisco UCS 5108 Chassis
Target ESXi host 1
Target ESXi host 2

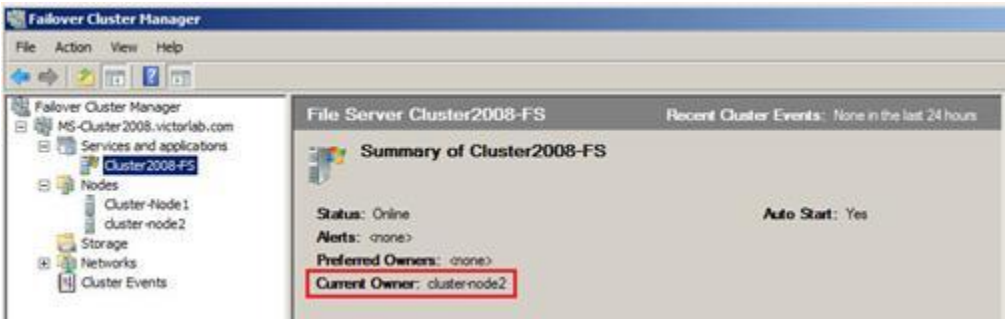
Open Console
Power On
Shut Down Guest OS
Restart Guest OS
Migrate...
Take Snapshot...
Revert to Latest Snapshot
Manage Snapshots...

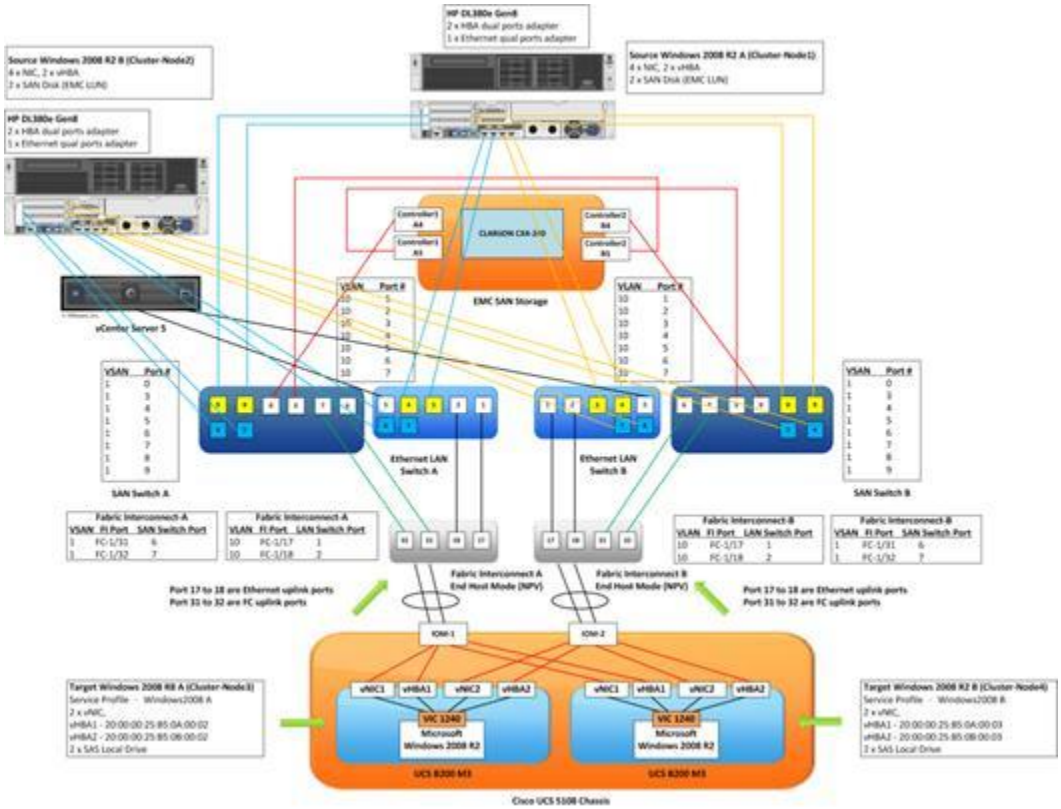

Cluster-Node2 - Migrate
1 Select Migration Type
2 Select Destination Resource
3 Select Datastore
4 Review Selections
Change host
Move the virtual machine to another host
Change datastore
Move the virtual machine's storage to another datastore
Change both host and datastore
Move the virtual machine to another host and move its storage to another datastore

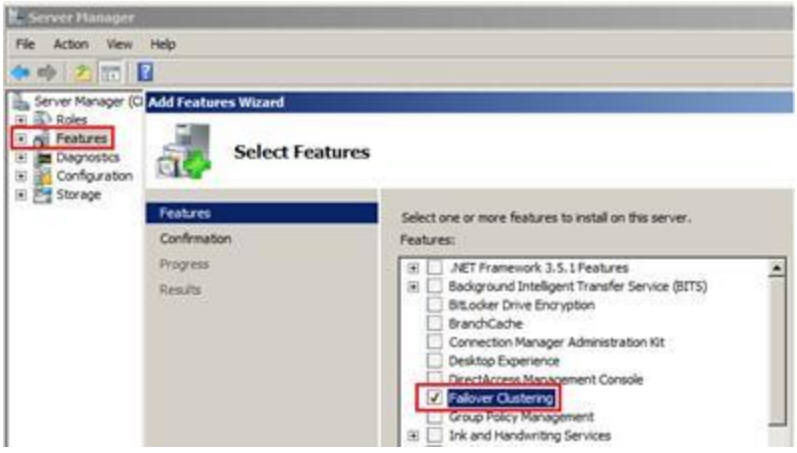

Failover Cluster Manager
File Action View Help
Failover Cluster Manager
MS-Cluster2008.victorlab.com
Services and applications
Cluster2008-FS
Nodes
Cluster-Node1
cluster-node2
Storage
Networks
Cluster Events
Nodes
Name
Status
Cluster-Node1
Up
cluster-node2
Up

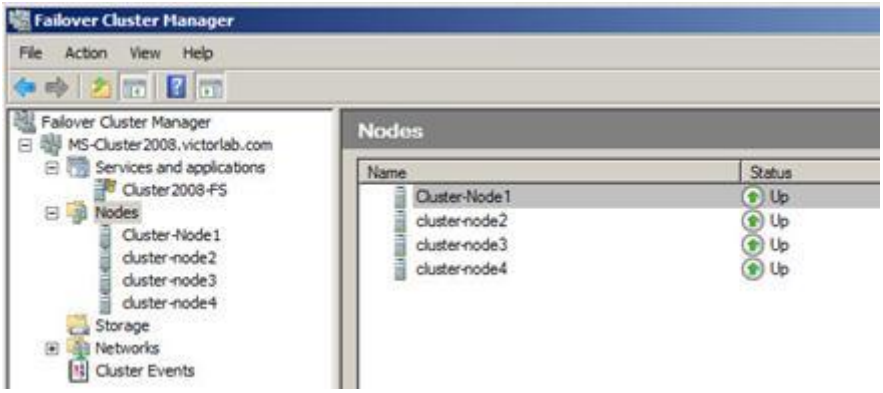

Failover Cluster Manager
MS-Cluster2008.victorlab.com
Services and applications
Cluster2008-FS
Nodes
Cluster-Node1
cluster-node2
Storage
Networks
Cluster Events
File Server Cluster2008-FS
Recent Cluster Events: None in the last 24 hours
Summary of Cluster2008-FS
Status: Online
Auto Start: Yes
Alerts: <none>
Preferred Owners: <none>
Current Owner: Cluster-Node1

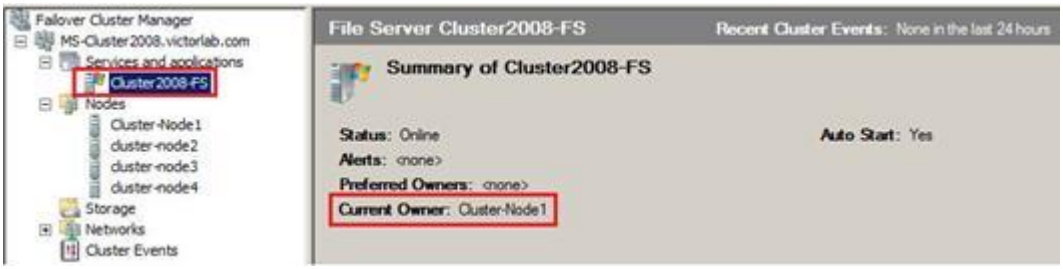

Failover Cluster Manager
File Action View Help
Failover Cluster Manager
MS-Cluster2008.victorlab.com
Services and applications
Cluster2008-FS
Nodes
Cluster-Node1
cluster-node2
Storage
Networks
Cluster Events
File Server Cluster2008-FS
Summary of Cluster2008-FS
Bring this service or application online
Take this service or application offline
Move this service or application to another node
1 - Move to node cluster-node2
Manage shares and storage
Add a shared folder
Show the critical events for this application
Add storage
Add a resource
Auto Start: Yes
Status

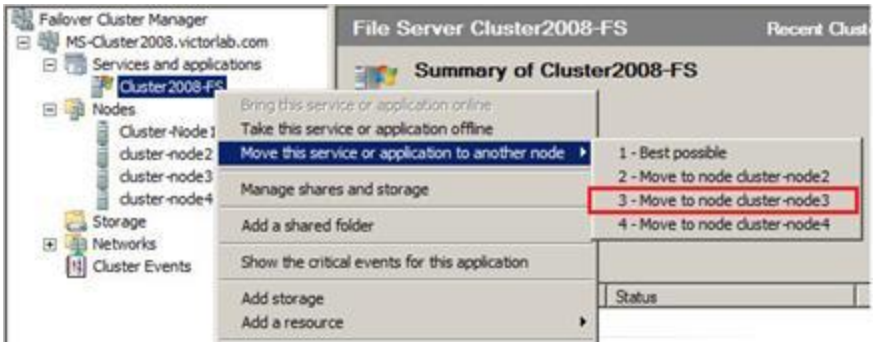

Failover Cluster Manager
File Action View Help
Failover Cluster Manager
MS-Cluster2008.victorlab.com
Services and applications
Cluster2008-FS
Nodes
Cluster-Node1
cluster-node2
Storage
Networks
Cluster Events
File Server Cluster2008-FS
Recent Cluster Events: None in the last 24 hours
Summary of Cluster2008-FS
Status: Online
Alerts: <none>
Preferred Owners: <none>
Current Owner: cluster-node2
Auto Start: Yes


HP DL380e Gen8
2 x HBA dual ports adapter
1 x Ethernet qual ports adapter
Source Windows 2008 R2 A (Cluster-Node1)
4 x NIC, 2 x vHBA
2 x SAN Disk (EMC LUN)
Source Windows 2008 R2 B (Cluster-Node2)
4 x NIC, 2 x vHBA
2 x SAN Disk (EMC LUN)
HP DL380e Gen8
2 x HBA dual ports adapter
1 x Ethernet qual ports adapter
CLARIION CX4-240
EMC SAN Storage
vCenter Server 5
SAN Switch A
SAN Switch B
Ethernet LAN Switch A
Ethernet LAN Switch B
Fabric Interconnect A End Host Mode (NPV)
Fabric Interconnect B End Host Mode (NPV)
Port 17 to 18 are Ethernet uplink ports
Port 31 to 32 are FC uplink ports
Port 17 to 18 are Ethernet uplink ports
Port 31 to 32 are FC uplink ports
IOM-1
IOM-2
vNIC1
vHBA1
vNIC2
vHBA2
VIC 1240
Microsoft Windows 2008 R2
UCS B200 M3
UCS B200 M3
Target Windows 2008 R2 A (Cluster-Node3)
Target Windows 2008 R2 B (Cluster-Node4)
Cisco UCS 5108 Chassis

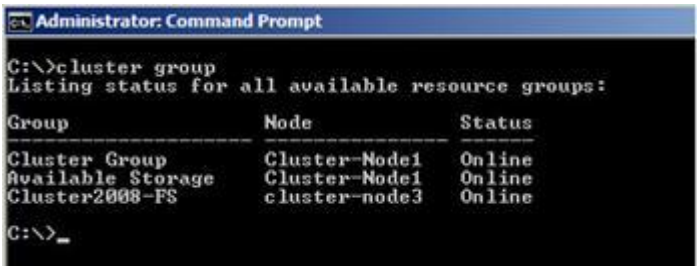

Server Manager
File
Action
View
Help
Server Manager (C
Roles
Features
Diagnostics
Configuration
Storage
Add Features Wizard
Select Features
Features
Confirmation
Progress
Results
Select one or more features to install on this server.
Features:
.NET Framework 3.5.1 Features
Background Intelligent Transfer Service (BITS)
BitLocker Drive Encryption
BranchCache
Connection Manager Administration Kit
Desktop Experience
DirectAccess Management Console
Failover Clustering
Group Policy Management
Ink and Handwriting Services

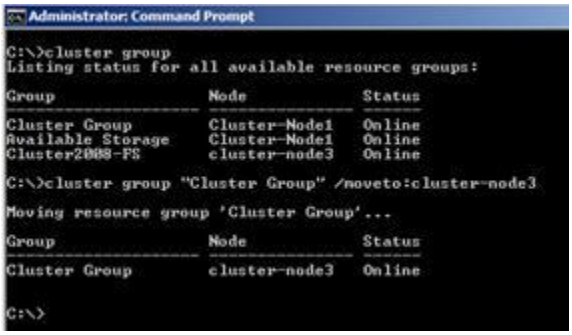

Failover Cluster Manager
File Action View Help
Failover Cluster Manager
MS-Cluster2008.victorlab.com
Services and applications
Cluster2008-FS
Nodes
Cluster-Node1
cluster-node2
cluster-node3
cluster-node4
Storage
Networks
Cluster Events
Nodes
Name
Status
Cluster-Node1
Up
cluster-node2
Up
cluster-node3
Up
cluster-node4
Up

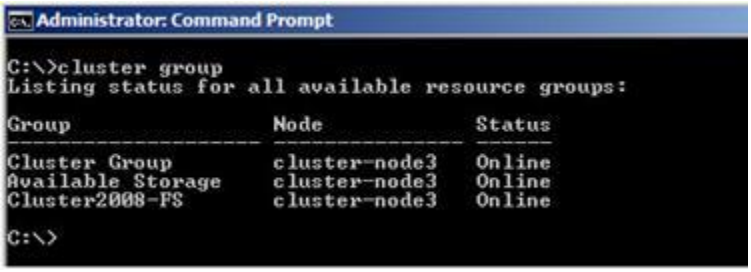

Failover Cluster Manager
MS-Cluster2008.victorlab.com
Services and applications
Cluster2008-FS
Nodes
Cluster-Node1
cluster-node2
cluster-node3
cluster-node4
Storage
Networks
Cluster Events
File Server Cluster2008-FS
Recent Cluster Events: None in the last 24 hours
Summary of Cluster2008-FS
Status: Online
Auto Start: Yes
Alerts: <none>
Preferred Owners: <none>
Current Owner: Cluster-Node1


Failover Cluster Manager
MS-Cluster2008.victorlab.com
Services and applications
Cluster2008-FS
Nodes
Cluster-Node1
cluster-node2
cluster-node3
cluster-node4
Storage
Networks
Cluster Events
File Server Cluster2008-FS
Summary of Cluster2008-FS
Bring this service or application online
Take this service or application offline
Move this service or application to another node
Manage shares and storage
Add a shared folder
Show the critical events for this application
Add storage
Add a resource
1 - Best possible
2 - Move to node cluster-node2
3 - Move to node cluster-node3
4 - Move to node cluster-node4
Status

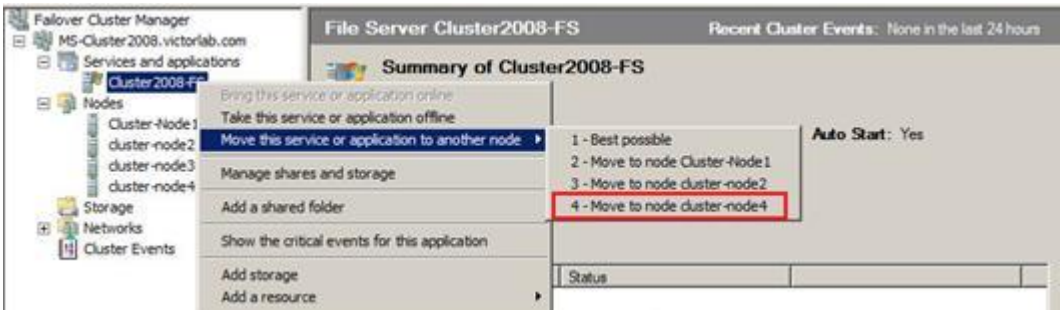
Failover Cluster Manager
MS-Cluster2008.victorlab.com
Services and applications
Cluster2008-FS
Nodes
Cluster-Node1
cluster-node2
cluster-node3
cluster-node4
Storage
Networks
Cluster Events
File Server Cluster2008-FS
Summary of Cluster2008-FS
Status: Online
Alerts: <none>
Preferred Owners: <none>
Current Owner: cluster-node3

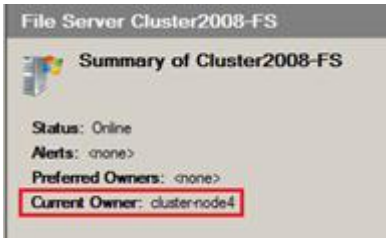

Administrator: Command Prompt
C:\>cluster group
Listing status for all available resource groups:
Group Node Status
Cluster Group Cluster-Node1 Online
Available Storage Cluster-Node1 Online
Cluster2008-FS cluster-node3 Online
C:\>

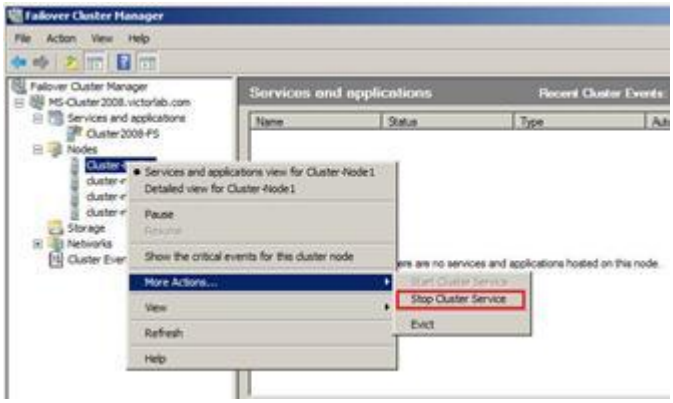

Administrator: Command Prompt
C:\>cluster group
Listing status for all available resource groups:
Group Node Status
Cluster Group Cluster-Node1 Online
Available Storage Cluster-Node1 Online
Cluster2008-FS cluster-node3 Online
C:\>cluster group "Cluster Group" /moveto:cluster-node3
Moving resource group 'Cluster Group'...
Group Node Status
Cluster Group cluster-node3 Online
C:\>

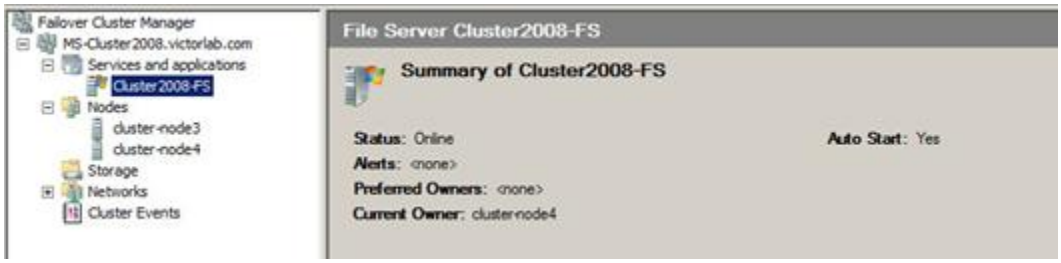

Administrator: Command Prompt
C:\>cluster group
Listing status for all available resource groups:
Group Node Status
Cluster Group cluster-node3 Online
Available Storage cluster-node3 Online
Cluster2008-FS cluster-node3 Online
C:\>

Failover Cluster Manager
MS-Cluster2008.victorlab.com
Services and applications
Cluster2008-FS
Nodes
Cluster-Node1
cluster-node2
cluster-node3
cluster-node4
Storage
Networks
Cluster Events
File Server Cluster2008-FS
Summary of Cluster2008-FS
Status: Online
Alerts: <none>
Preferred Owners: <none>
Current Owner: cluster-node3

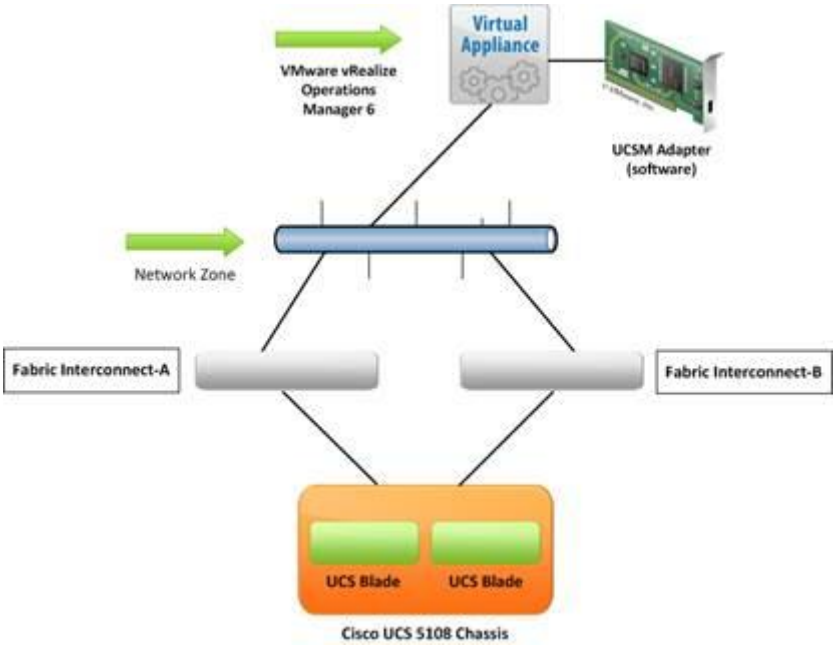

Failover Cluster Manager
MS-Cluster2008.victorlab.com
Services and applications
Cluster2008-FS
Nodes
Cluster-Node1
cluster-node2
cluster-node3
cluster-node4
Storage
Networks
Cluster Events
File Server Cluster2008-FS
Recent Cluster Events: None in the last 24 hours
Summary of Cluster2008-FS
Bring this service or application online
Take this service or application offline
Move this service or application to another node
Manage shares and storage
Add a shared folder
Show the critical events for this application
Add storage
Add a resource
1 - Best possible
2 - Move to node Cluster-Node1
3 - Move to node cluster-node2
4 - Move to node cluster-node4
Auto Start: Yes
Status

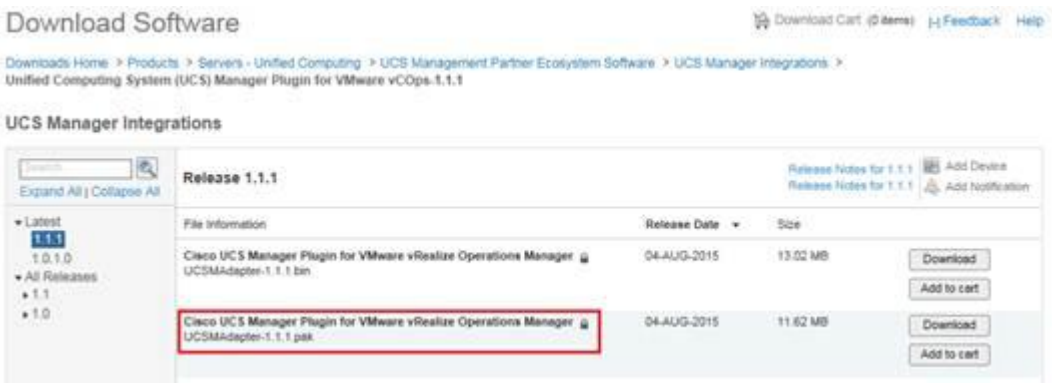

File Server Cluster2008-FS
Summary of Cluster2008-FS
Status: Online
Alerts: <none>
Preferred Owners: <none>
Current Owner: cluster-node4





Chapter 5: System Integration on Cisco UCS


Virtual Appliance
VMware vRealize Operations Manager 6
UCSM Adapter (software)
Network Zone
Fabric Interconnect-A
Fabric Interconnect-B
UCS Blade
UCS Blade
Cisco UCS 5108 Chassis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Unified Computing System (UCS) Manager Plugin for VMware vCOps 1.1.1
UCS Manager Integrations
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Release 1.1.1
Release Notes for 1.1.1
Release Notes for 1.1.1
Add Device
Add Notification
Latest
1.1.1
1.0.1.0
All Releases
1.1
1.0
File Information
Release Date
Size
Cisco UCS Manager Plugin for VMware vRealize Operations Manager
UCSMAdapter-1.1.1.bin
04-AUG-2015
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Credentials
Policies
Inventory Explorer
Object Relationships
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All Solutions
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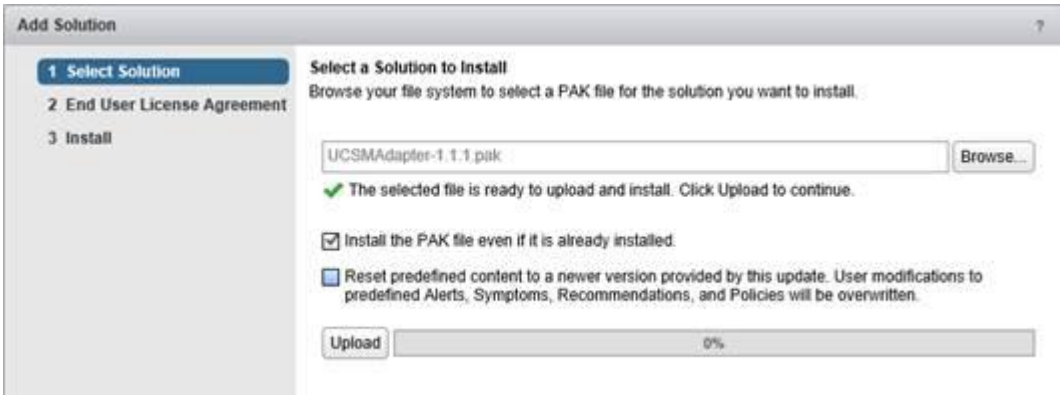
The End Point Operations Man...
1.0.3030318
VMware Inc
Not applicable
vMware vSphere
Manages vSphere objects such...
6.0.3038034
VMware Inc
Not applicable

Solutions
Show:
All Solutions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2 End User License Agreement
3 Install
Select a Solution to Install
Browse your file system to select a PAK file for the solution you want to install.
UCSMAdapter-1.1.1.pak
Browse...
The selected file is ready to upload and install. Click Upload to continue.
Install the PAK file even if it is already installed.
Reset predefined content to a newer version provided by this update. User modifications to predefined Alerts, Symptoms, Recommendations, and Policies will be overwritten.
Upload
0%

Solutions
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Version
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VMware vSphere
Manages vSphere objects suc...
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VMware Inc.
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UCSMAdapter
UCSMAdapter
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Show:
All Solutions
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VMware Inc.
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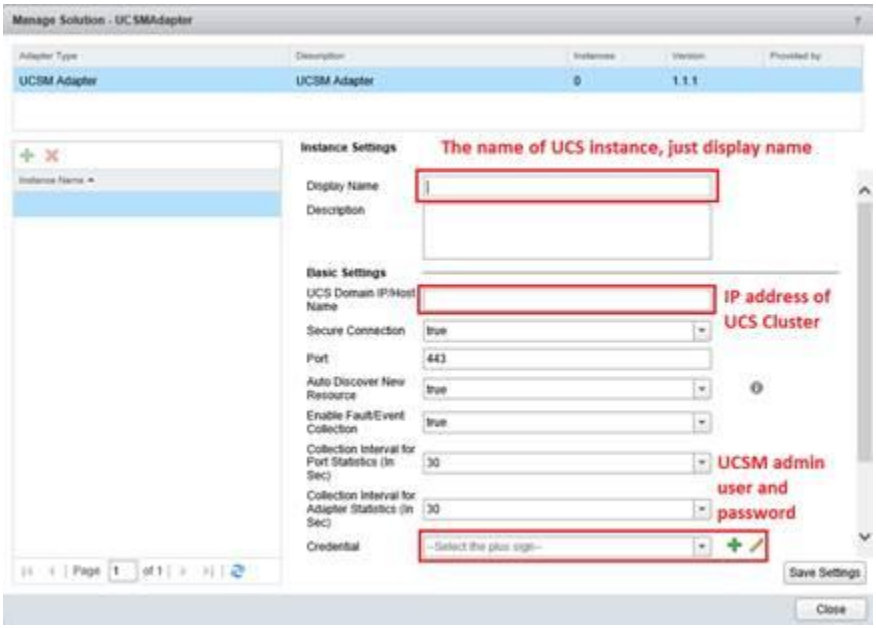
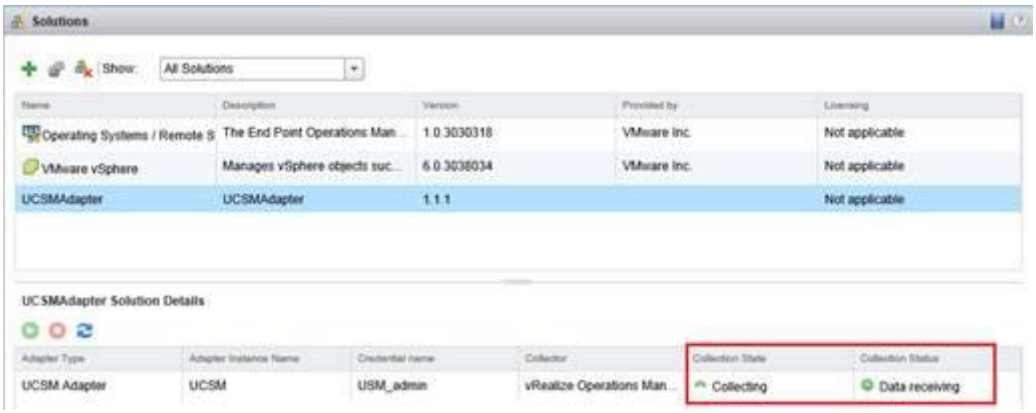
UCSMAdapter
1.1.1
Not applicable


Manage Solution - UCSMAdapter
UCSM Adapter
UCSM Adapter
0
1.1.1
Instance Settings
The name of UCS instance, just display name
Display Name
Description
Basic Settings
UCS Domain IP/Host Name
IP address of UCS Cluster
Secure Connection
true
Port
443
Auto Discover New Resource
true
Enable Fault/Event Collection
true
Collection Interval for Port Statistics (In Sec)
30
UCSM admin user and password
Collection Interval for Adapter Statistics (In Sec)
30
Credential
--Select the plus sign--
Page 1 of 1
Save Settings
Close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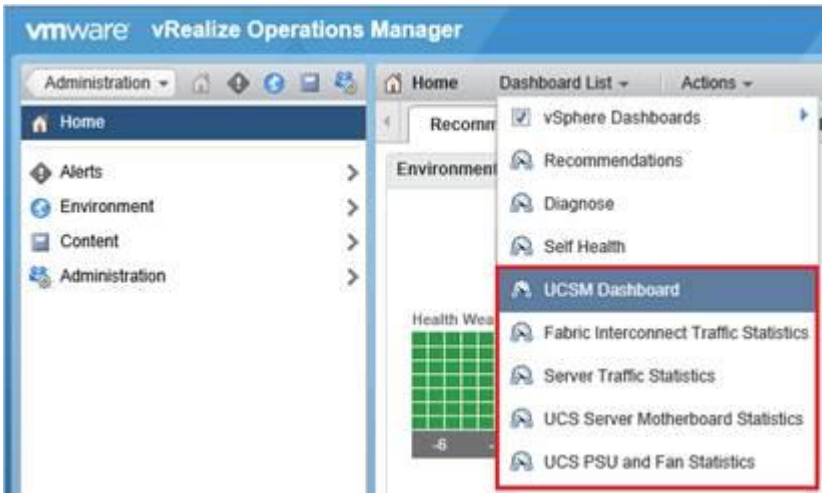
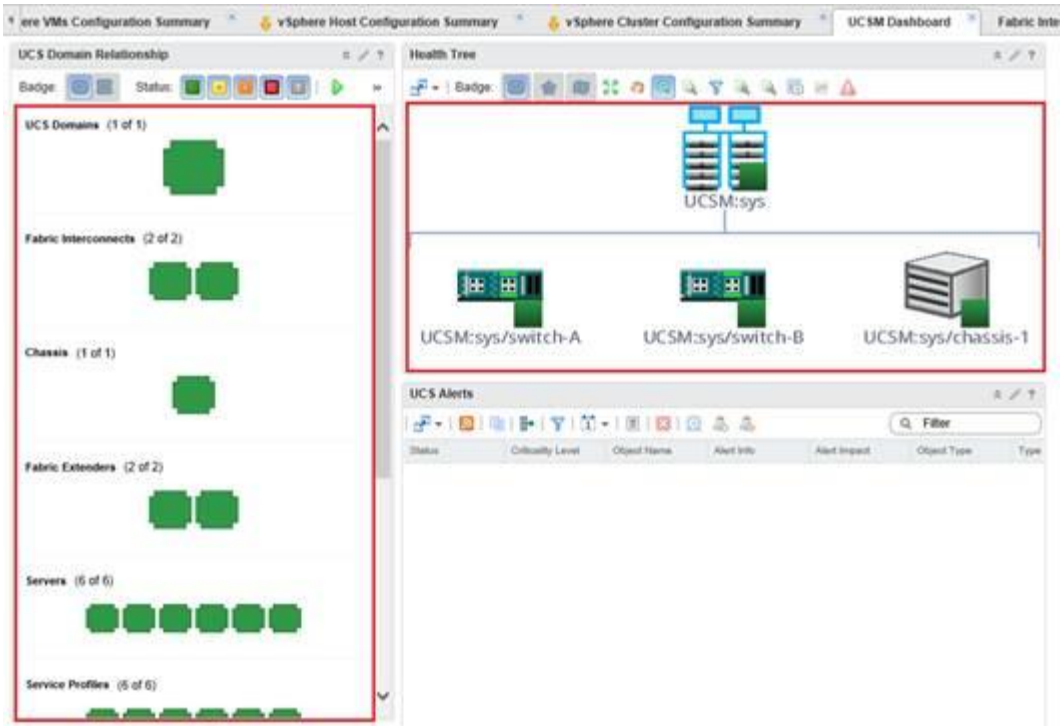
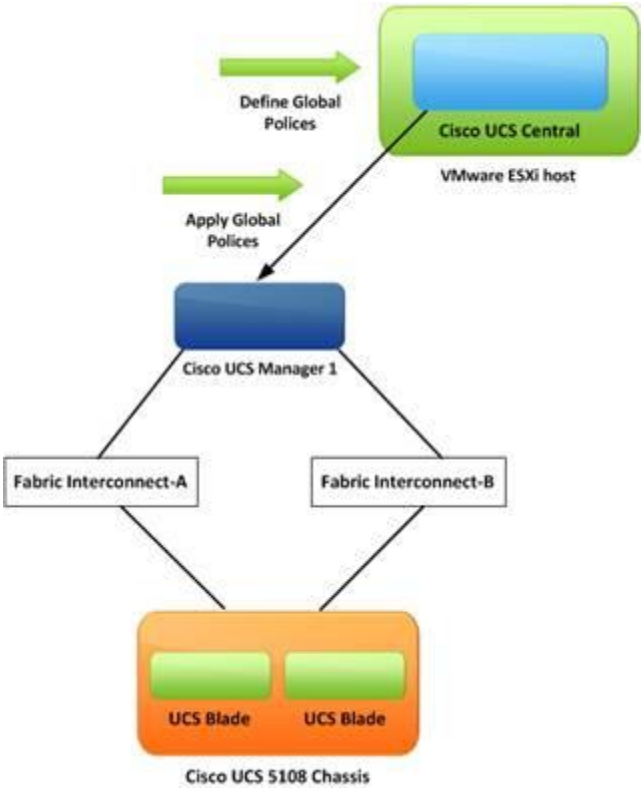
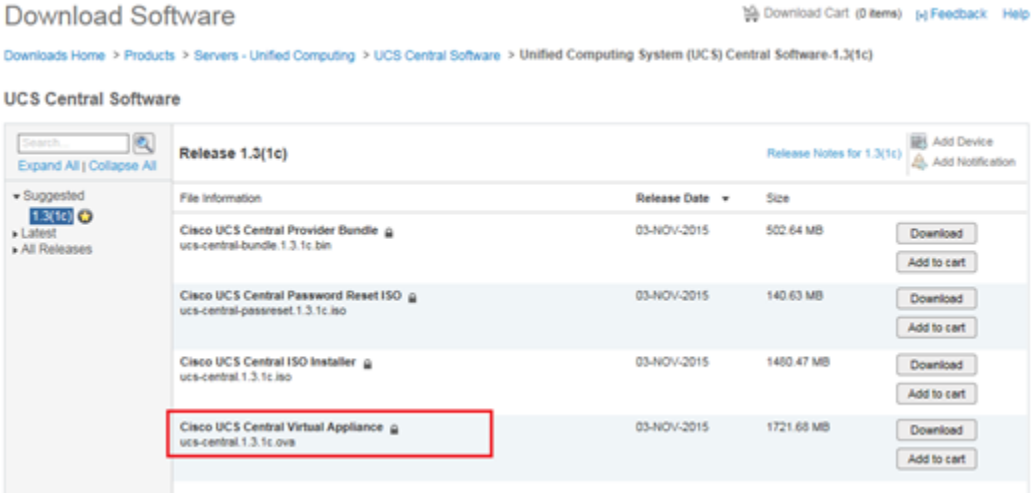
Manages vSphere objects suc...
6.0.3038034
VMware Inc.
Not applicable
UCSMAdapter
UCSMAdapter
1.1.1
Not applicable
UCSMAdapter Solution Details
Adapter Type
Adapter Instance Name
Credential name
Collector
Collection State
Collection Status
UCSM Adapter
UCSM
USM_admin
vRealize Operations Man...
Collecting
Data receiving


vmware vRealize Operations Manager
Administration
Home
Alerts
Environment
Content
Administration
Home
Dashboard List
Actions
vSphere Dashboards
Recommendations
Diagnose
Self Health
UCSM Dashboard
Fabric Interconnect Traffic Statistics
Server Traffic Statistics
UCS Server Motherboard Statistics
UCS PSU and Fan Statistics


UCS Domain Relationship
UCS Domains (1 of 1)
Fabric Interconnects (2 of 2)
Chassis (1 of 1)
Fabric Extenders (2 of 2)
Servers (6 of 6)
Service Profiles (6 of 6)
Health Tree
UCSM:sys
UCSM:sys/switch-A
UCSM:sys/switch-B
UCSM:sys/chassis-1
UCS Alerts


Define Global Polices
Cisco UCS Central
VMware ESXi host
Apply Global Polices
Cisco UCS Manager 1
Fabric Interconnect-A
Fabric Interconnect-B
UCS Blade
UCS Blade
Cisco UCS 5108 Chassis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Release Notes for 1.3(1c)
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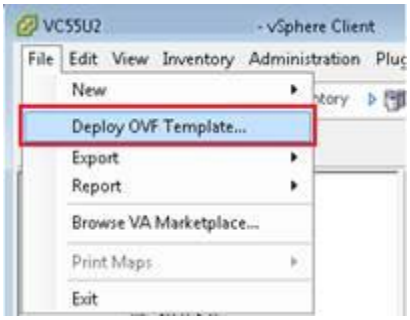
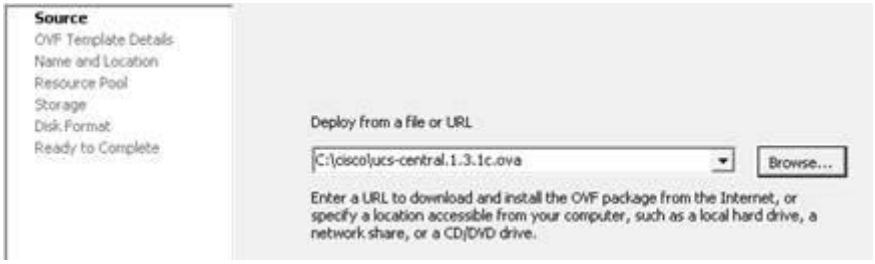
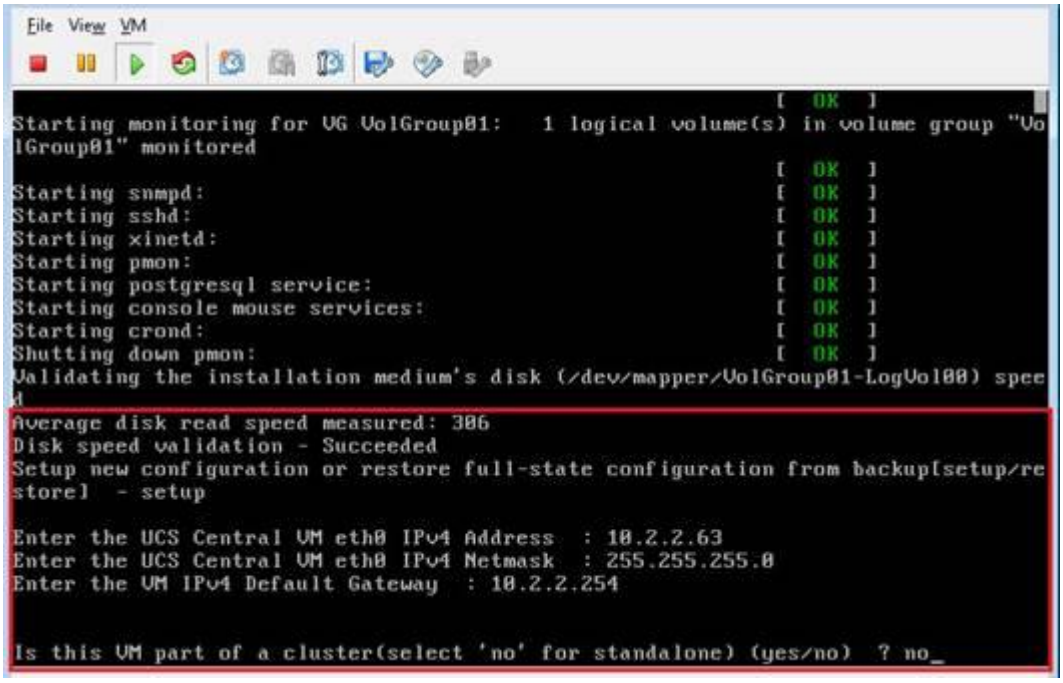
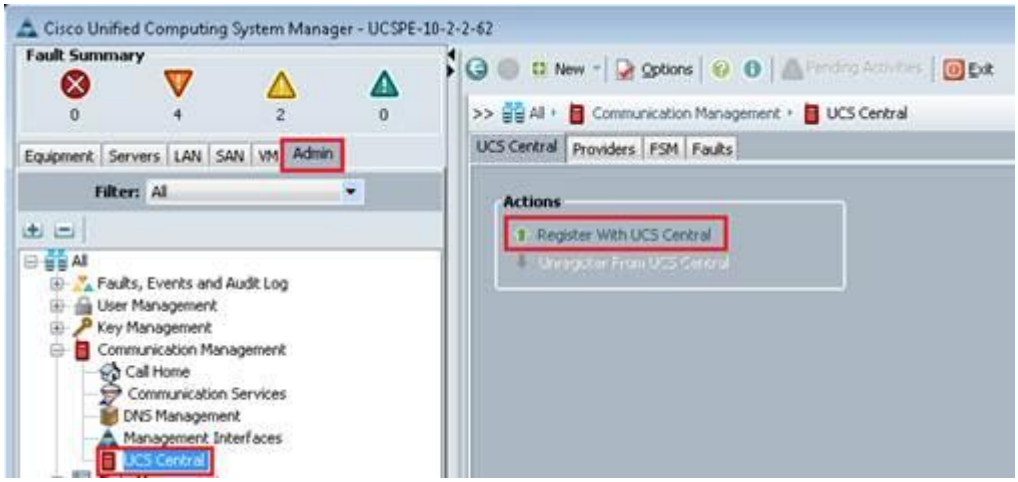
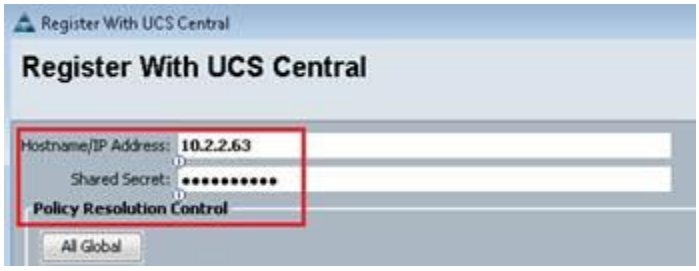

VC55U2
- vSphere Client
File
Edit
View
Inventory
Administration
New
Deploy OVF Template...
Export
Report
Browse VA Marketplace...
Print Maps
Exit


Source
OVF Template Details
Name and Location
Resource Pool
Storage
Disk Format
Ready to Complete
Deploy from a file or URL
C:\cisco\ucs-central.1.3.1c.ova
Browse...
Enter a URL to download and install the OVF package from the Internet, or specify a location accessible from your computer, such as a local hard drive, a network share, or a CD/DVD drive.

Validating the installation medium's disk (/dev/mapper/VolGroup01-LogVol00) speed
Average disk read speed measured: 306
Disk speed validation - Succeeded
Setup new configuration or restore full-state configuration from backup[setup/restore] - setup_


File View VM
[OK]
Starting monitoring for VG VolGroup01: 1 logical volume(s) in volume group "VolGroup01" monitored
[OK]
Starting snmpd: [OK]
Starting sshd: [OK]
Starting xinetd: [OK]
Starting pmon: [OK]
Starting postgresql service: [OK]
Starting console mouse services: [OK]
Starting crond: [OK]
Shutting down pmon: [OK]
Validating the installation medium's disk (/dev/mapper/VolGroup01-LogVol00) speed
Average disk read speed measured: 306
Disk speed validation - Succeeded
Setup new configuration or restore full-state configuration from backup[setup/restore] - setup
Enter the UCS Central VM eth0 IPv4 Address : 10.2.2.63
Enter the UCS Central VM eth0 IPv4 Netmask : 255.255.255.0
Enter the VM IPv4 Default Gateway : 10.2.2.254
Is this VM part of a cluster(select 'no' for standalone) (yes/no) ? no_


Cisco Unified Computing System Manager - UCSPE-10-2-62
Fault Summary
0
4
2
0
Equipment Servers LAN SAN VM Admin
Filter: All
All
Faults, Events and Audit Log
User Management
Key Management
Communication Management
Call Home
Communication Services
DNS Management
Management Interfaces
UCS Central
New Options Pending Activities Exit
>> All Communication Management UCS Central
UCS Central Providers FSM Faults
Actions
Register With UCS Central
Unregister From UCS Central


Register With UCS Central
Register With UCS Central
Hostname/IP Address: 10.2.2.63
Shared Secret: ••••••••••
Policy Resolution Control
All Global

Actions
Unregister From UCS Central
Status
Repair State: Done
Registration Status: Registered
Cleanup Mode: Localize Global Deep Remove Global
Suspend State:
Acknowledge State:

UCS Central
Version 1.3(1c)
Switch to Next Generation User Interface
Username:
Password:
Domain: (Native)
Log In
Launch KVM
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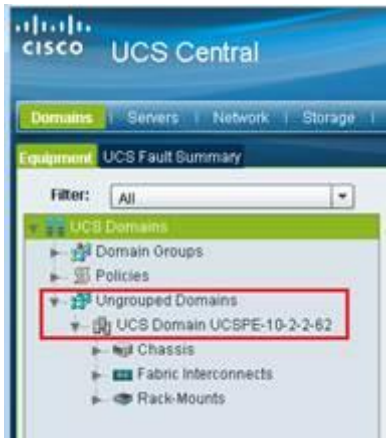
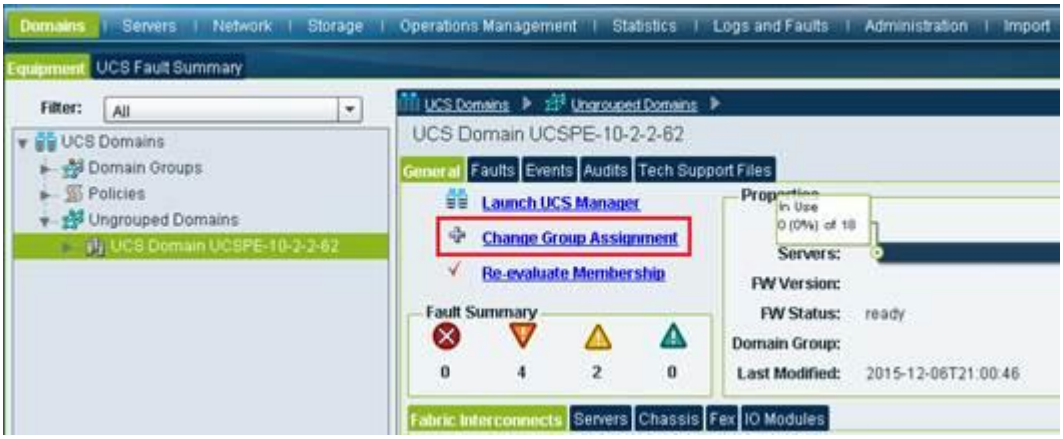
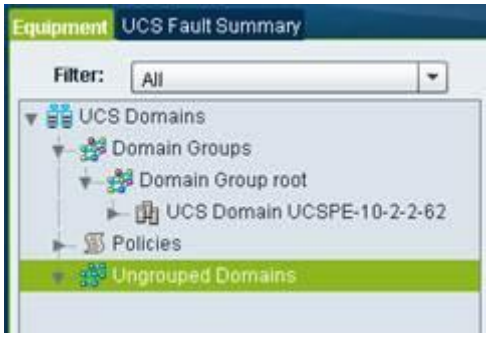
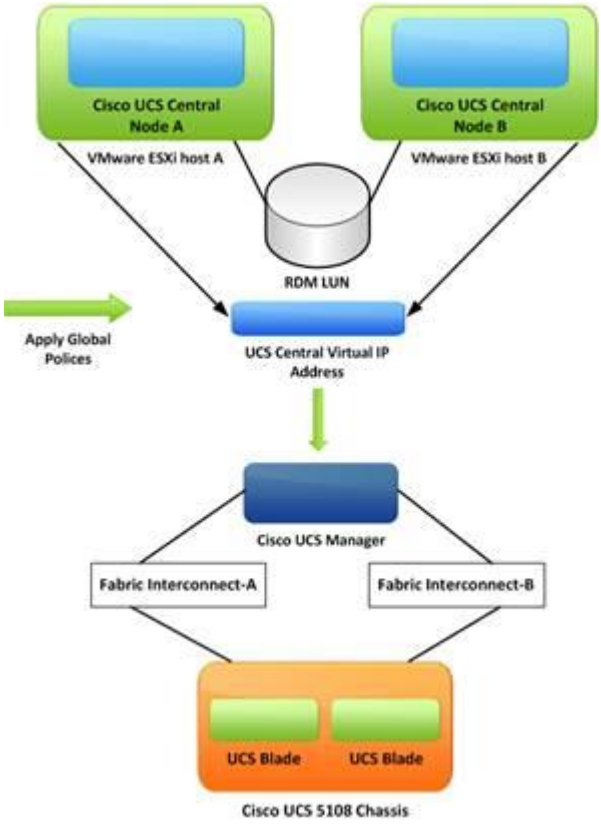
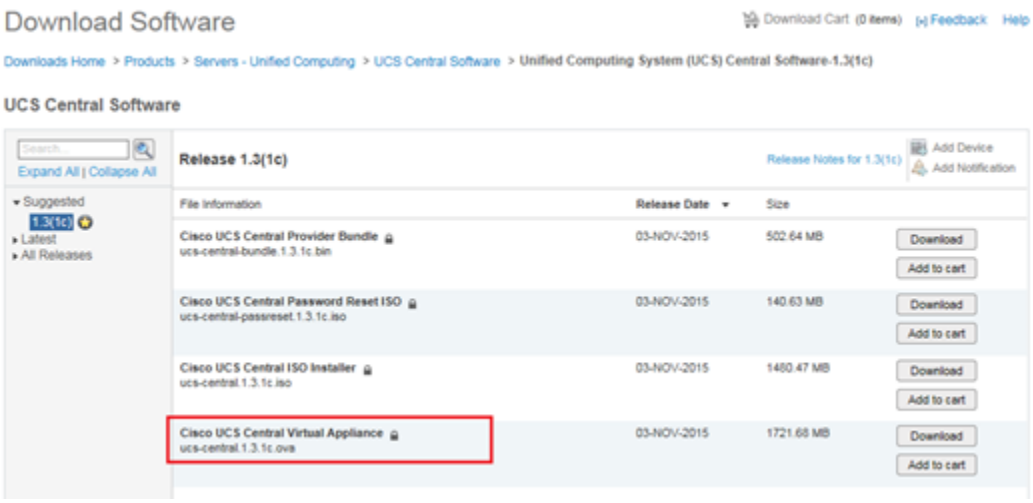

cisco UCS Central
Domains | Servers | Network | Storage
Equipment UCS Fault Summary
Filter: All
UCS Domains
Domain Groups
Policies
Ungrouped Domains
UCS Domain UCSPE-10-2-2-62
Chassis
Fabric Interconnects
Rack-Mounts


Domains | Servers | Network | Storage | Operations Management | Statistics | Logs and Faults | Administration | Import
Equipment UCS Fault Summary
Filter: All
UCS Domains
Domain Groups
Policies
Ungrouped Domains
UCS Domain UCSPE-10-2-2-62
UCS Domains ▶ Ungrouped Domains ▶
UCS Domain UCSPE-10-2-2-62
General Faults Events Audits Tech Support Files
Launch UCS Manager
Change Group Assignment
Re-evaluate Membership
Fault Summary
0 4 2 0
Servers:
FW Version:
FW Status: ready
Domain Group:
Last Modified: 2015-12-06T21:00:46
Fabric Interconnects Servers Chassis Fex IO Modules

Change Group Assignment
Change Group Assignment for UCS UCSPE-10-2-2-62
Unassigned
Domain Group root


Equipment
UCS Fault Summary
Filter:
All
UCS Domains
Domain Groups
Domain Group root
UCS Domain UCSPE-10-2-2-62
Policies
Ungrouped Domains


Cisco UCS Central Node A
Cisco UCS Central Node B
VMware ESXi host A
VMware ESXi host B
RDM LUN
Apply Global Polices
UCS Central Virtual IP Address
Cisco UCS Manager
Fabric Interconnect-A
Fabric Interconnect-B
UCS Blade
UCS Blade
Cisco UCS 5108 Chassis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All Releases
Release 1.3(1c)
Release Notes for 1.3(1c)
Add Device
Add Notification
File Information
Release Date
Size
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ucs-central.1.3.1c.iso
03-NOV-2015
1460.47 MB
Download
Add to cart
Cisco UCS Central Virtual Appliance
ucs-central.1.3.1c.ova
03-NOV-2015
1721.68 MB
Download
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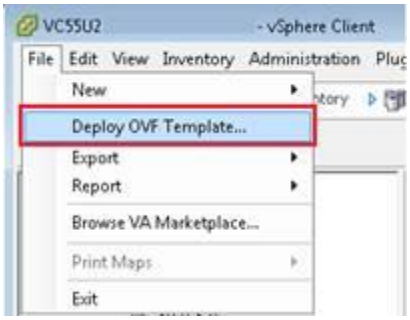
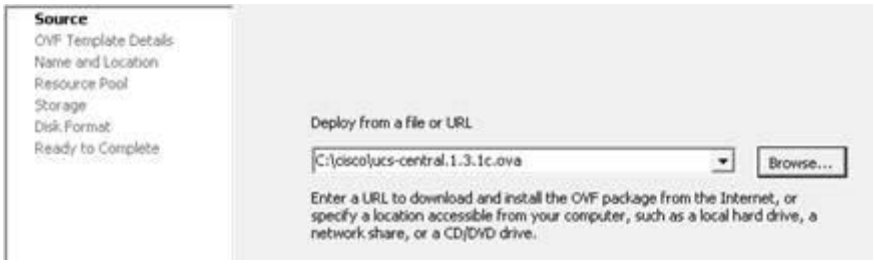
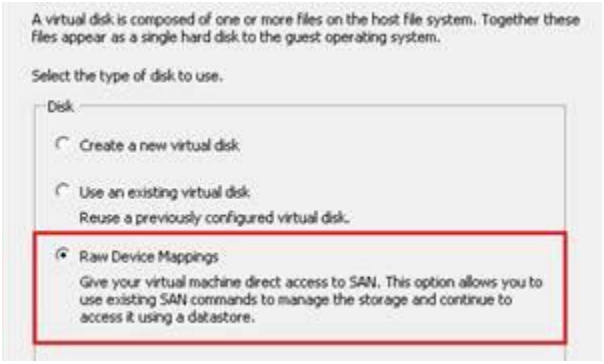
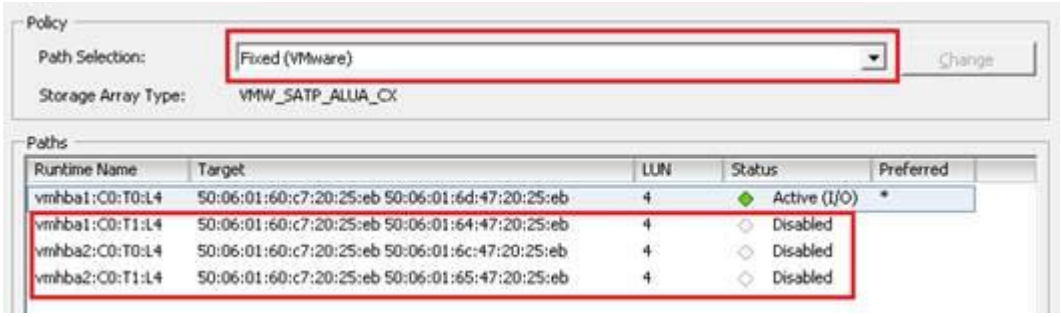
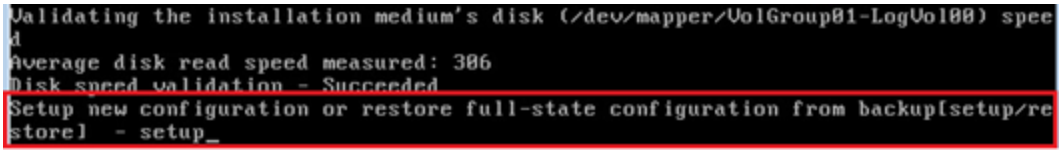
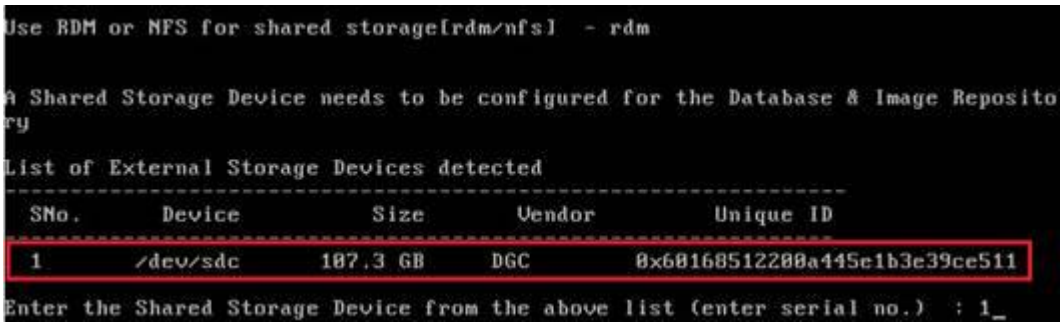

VC55U2
- vSphere Client
File
Edit
View
Inventory
Administration
New
Deploy OVF Template...
Export
Report
Browse VA Marketplace...
Print Maps
Exit


Source
OVF Template Details
Name and Location
Resource Pool
Storage
Disk Format
Ready to Complete
Deploy from a file or URL
C:\cisco\ucs-central.1.3.1c.ova
Browse...
Enter a URL to download and install the OVF package from the Internet, or specify a location accessible from your computer, such as a local hard drive, a network share, or a CD/DVD drive.

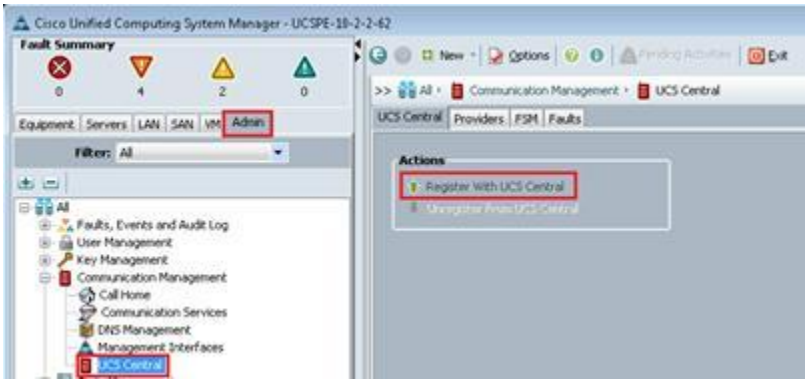

A virtual disk is composed of one or more files on the host file system. Together these files appear as a single hard disk to the guest operating system.
Select the type of disk to use.
Disk
Create a new virtual disk
Use an existing virtual disk
Reuse a previously configured virtual disk.
Raw Device Mappings
Give your virtual machine direct access to SAN. This option allows you to use existing SAN commands to manage the storage and continue to access it using a datastore.

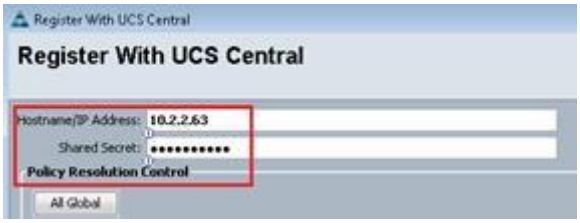

Policy
Path Selection:
Fixed (VMware)
Change
Storage Array Type:
VMW_SATP_ALUA_CX
Paths
Runtime Name
Target
LUN
Status
Preferred
vmhba1:C0:T0:L4
50:06:01:60:c7:20:25:eb 50:06:01:6d:47:20:25:eb
4
Active (I/O)
*
vmhba1:C0:T1:L4
50:06:01:60:c7:20:25:eb 50:06:01:64:47:20:25:eb
4
Disabled
vmhba2:C0:T0:L4
50:06:01:60:c7:20:25:eb 50:06:01:6c:47:20:25:eb
4
Disabled
vmhba2:C0:T1:L4
50:06:01:60:c7:20:25:eb 50:06:01:65:47:20:25:eb
4
Disabled

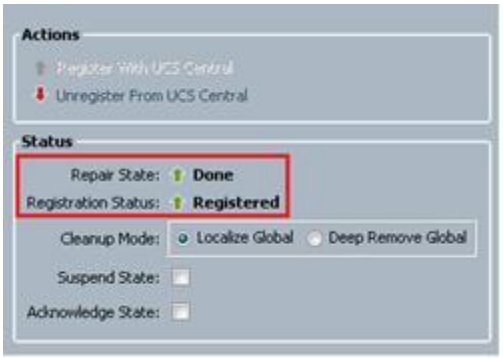

Validating the installation medium's disk (/dev/mapper/VolGroup01-LogVol00) speed
Average disk read speed measured: 306
Disk speed validation - Succeeded
Setup new configuration or restore full-state configuration from backup[setup/restore] - setup_

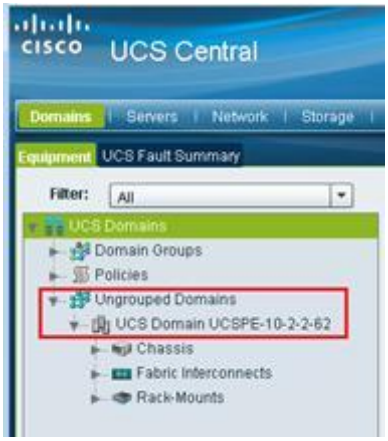

Use RDM or NFS for shared storage[rdm/nfs] - rdm
A Shared Storage Device needs to be configured for the Database & Image Repository
List of External Storage Devices detected
SNo. Device Size Vendor Unique ID
1 /dev/sdc 107.3 GB DGC 0x60168512200a445e1b3e39ce511
Enter the Shared Storage Device from the above list (enter serial no.) : 1_

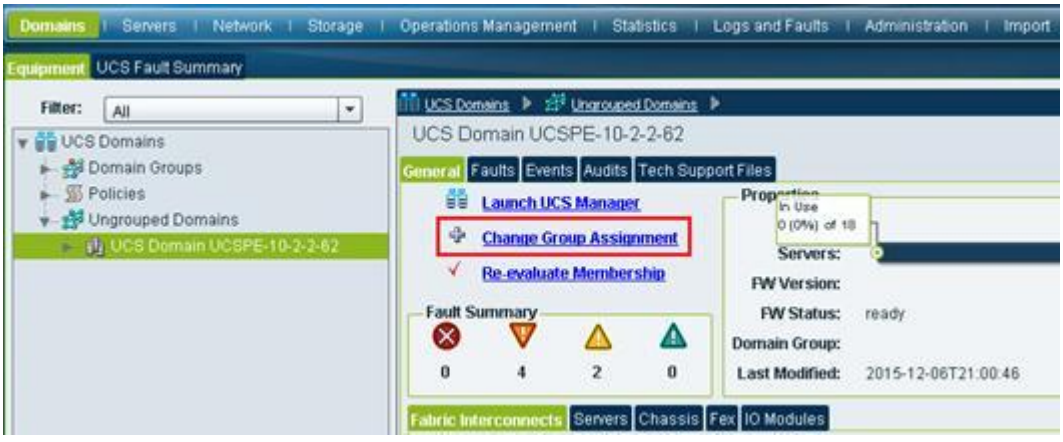
```
Performance of system is not guaranteed. Do you want to continue installation.
 [yes/no]  yes
Continuing Installation...
Enforce Strong Password (yes/no)  ? yes
Enter the admin Password  :
Confirm admin Password :
Enter the Shared Secret  :
Confirm Shared Secret :
Enter the Peer UCS Central Node IPv4 Address  : _
```

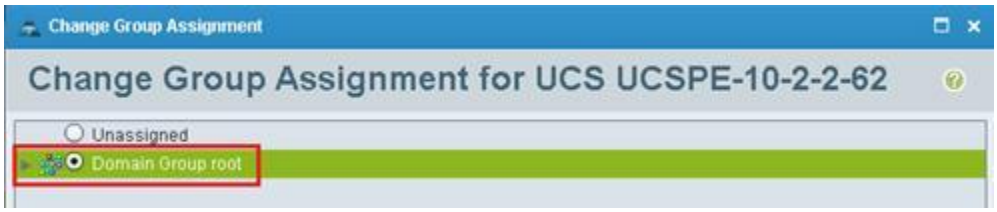


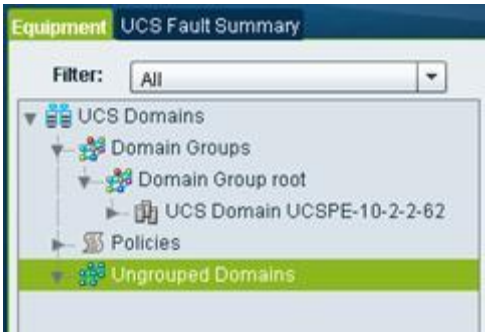



Actions
Register With UCS Central
Unregister From UCS Central
Status
Repair State: Done
Registration Status: Registered
Cleanup Mode: Localize Global Deep Remove Global
Suspend State:
Acknowledge State:


cisco UCS Central
Domains | Servers | Network | Storage |
Equipment UCS Fault Summary
Filter: All
UCS Domains
Domain Groups
Policies
Ungrouped Domains
UCS Domain UCSPE-10-2-2-62
Chassis
Fabric Interconnects
Rack-Mounts


Domains | Servers | Network | Storage | Operations Management | Statistics | Logs and Faults | Administration | Import
Equipment UCS Fault Summary
Filter: All
UCS Domains
Domain Groups
Policies
Ungrouped Domains
UCS Domain UCSPE-10-2-2-62
UCS Domains ▶ Ungrouped Domains ▶
UCS Domain UCSPE-10-2-2-62
General Faults Events Audits Tech Support Files
Launch UCS Manager
Change Group Assignment
Re-evaluate Membership
Fault Summary
0 4 2 0
Servers:
FW Version:
FW Status: ready
Domain Group:
Last Modified: 2015-12-06T21:00:46
Fabric Interconnects Servers Chassis Fex IO Modules






```
UCSCVM-A login: admin
Password:
Last login: Tue Dec  8 05:46:55 on tty1
Logged in from tty1
Cisco UCS Central
TAC support: http://www.cisco.com/tac
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owned by other third parties and used and distributed under
license. Certain components of this software are licensed under
the GNU General Public License (GPL) version 2.0 or the GNU
Lesser General Public License (LGPL) Version 2.1. A copy of each
such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php

UCSCVM-A# show cluster state
Cluster Id: 0xd502ab989cfb11e5-0x9f0d49d5dcb87a33

A: UP, PRIMARY
B: UP, SUBORDINATE

HA READY
UCSCVM-A#
```
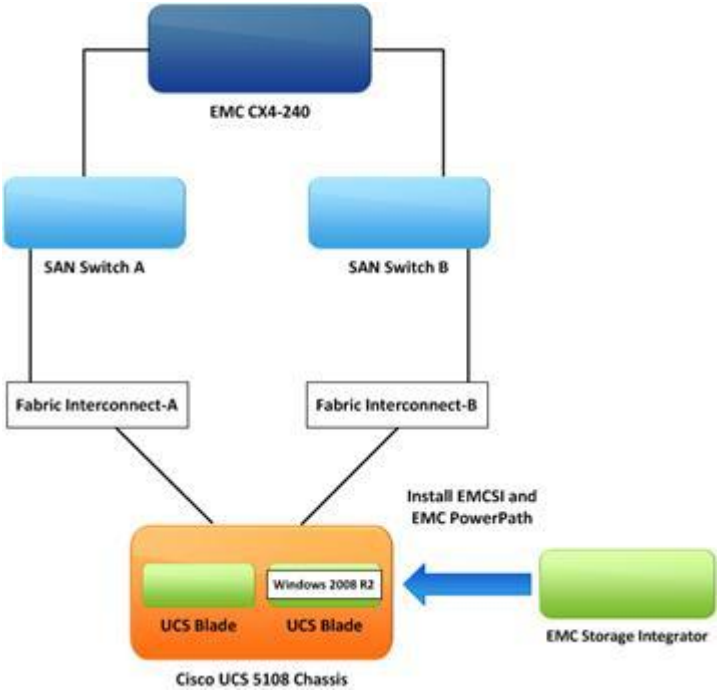
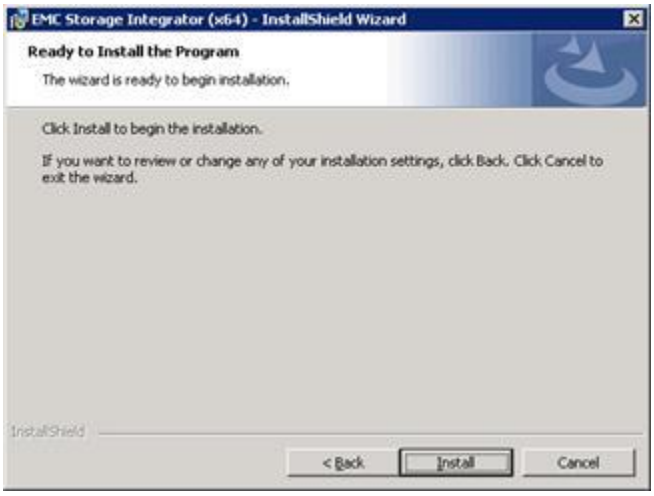
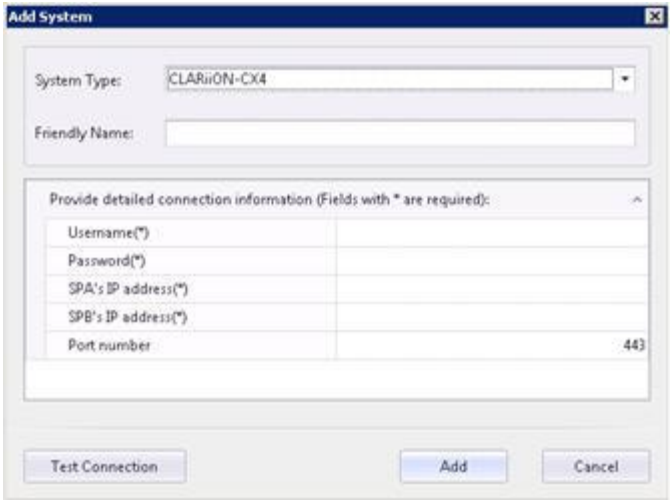


EMC CX4-240
SAN Switch A
SAN Switch B
Fabric Interconnect-A
Fabric Interconnect-B
Install EMCSI and
EMC PowerPath
Windows 2008 R2
UCS Blade
UCS Blade
EMC Storage Integrator
Cisco UCS 5108 Chassis

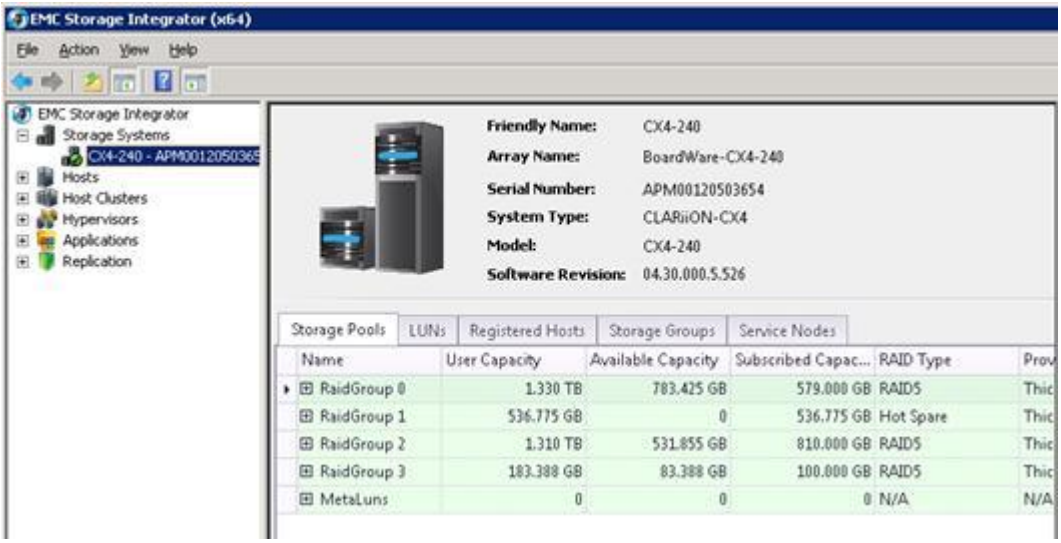
EMC Storage Integrator (x64) - InstallShield Wizard
Welcome to the InstallShield Wizard for EMC Storage Integrator (x64)
The InstallShield(R) Wizard will install EMC Storage Integrator (x64) on your computer. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.
< Back
Next >
Cancel

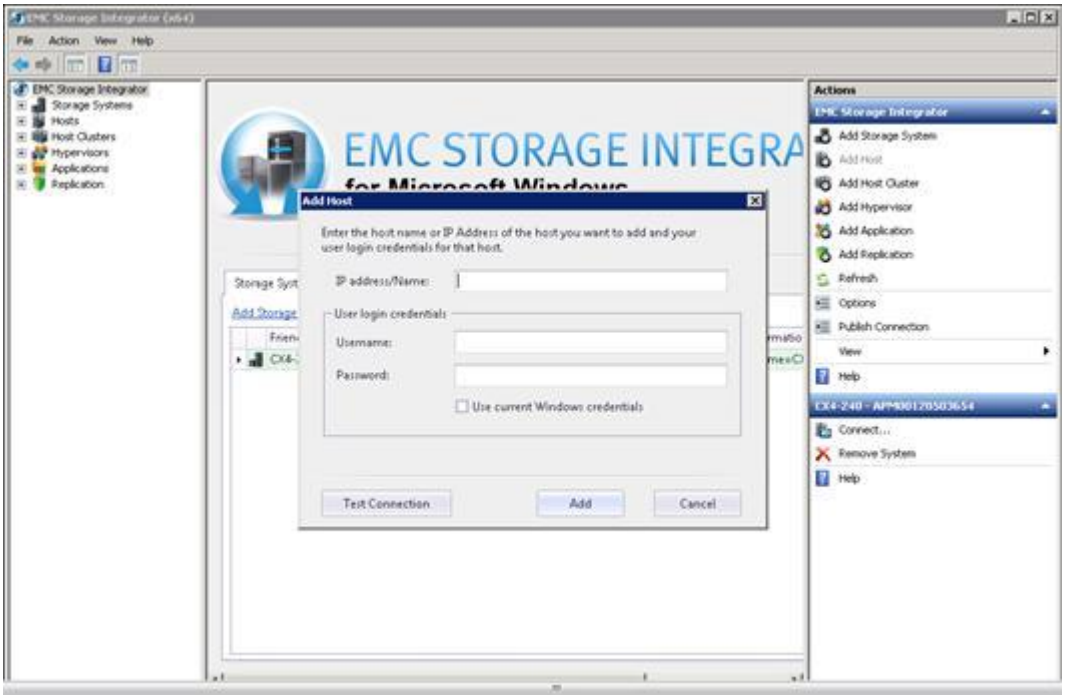
EMC Storage Integrator (x64) - InstallShield Wizard
Publish Connection Information
Please select one option.
Active Directory (Recommended)
Active Directory Lightweight Directory Service
Use the same server name and port that you used during installation of AD LDS.
Server Name:
Service Port:
Local Server
InstallShield
< Back
Next >
Cancel

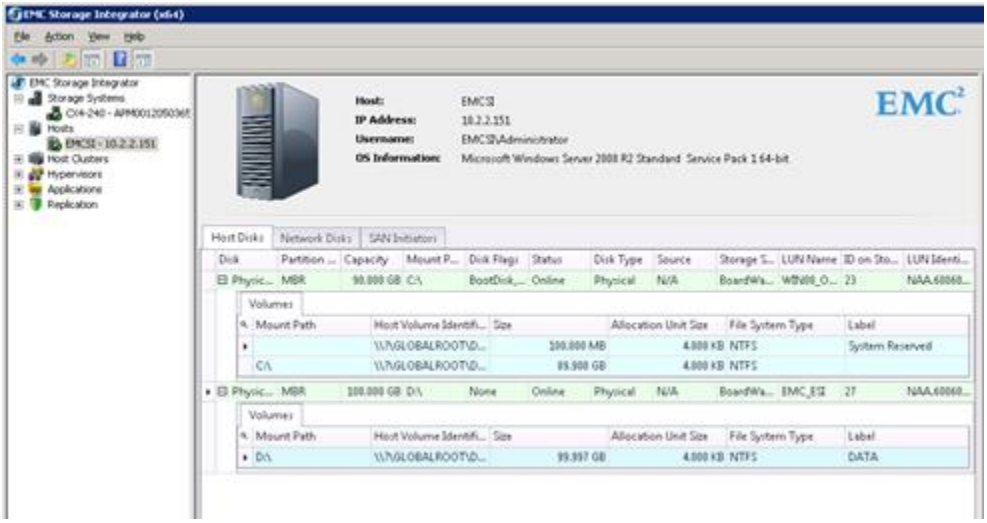

EMC Storage Integrator (x64) - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

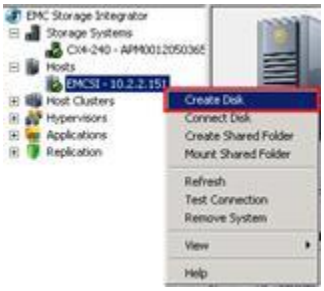
EMC Storage Integrator (x64)
File Action View Help
EMC Storage Integrator
Storage Systems
Hosts
Host Clusters
Hypervisors
Applications
Replication
EMC STORAGE INT
for Microsoft Windows
Storage Systems
Hosts
Host Clusters
Hypervisors
Applications
Replication
Add Storage System
Friendly Na...
Array Name
Serial Number
System Type
Category
Actions
EMC Storage Integrator
Add Storage System
Add Host
Add Host Cluster
Add Hypervisor
Add Application
Add Replication
Refresh
Options
Publish Connection
View
Help

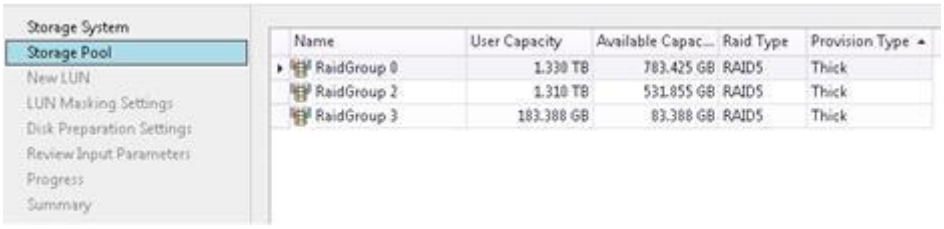

Add System
System Type:
CLARiiON-CX4
Friendly Name:
Provide detailed connection information (Fields with * are required):
Username(*)
Password(*)
SPA's IP address(*)
SPB's IP address(*)
Port number
443
Test Connection
Add
Cancel

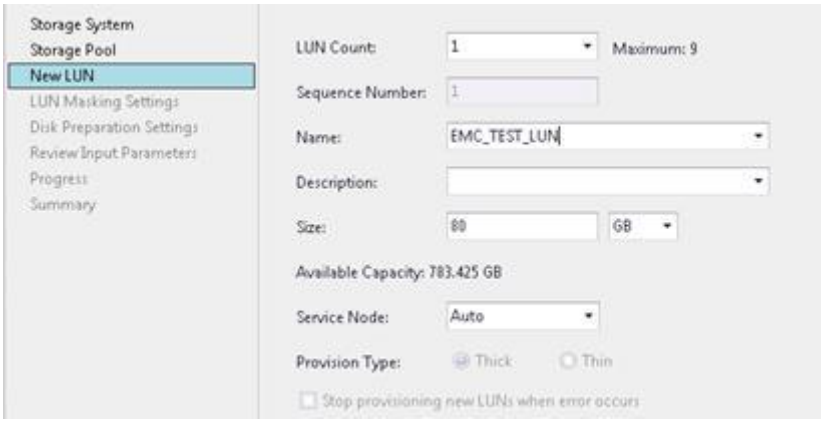

EMC Storage Integrator (x64)
File Action View Help
EMC Storage Integrator
Storage Systems
CX4-240 - APM00120503654
Hosts
Host Clusters
Hypervisors
Applications
Replication
Friendly Name: CX4-240
Array Name: BoardWare-CX4-240
Serial Number: APM00120503654
System Type: CLARiiON-CX4
Model: CX4-240
Software Revision: 04.30.000.5.526
Storage Pools
LUNs
Registered Hosts
Storage Groups
Service Nodes
Name
User Capacity
Available Capacity
Subscribed Capac...
RAID Type
RaidGroup 0 1.330 TB 783.425 GB 579.000 GB RAID5
RaidGroup 1 536.775 GB 0 536.775 GB Hot Spare
RaidGroup 2 1.310 TB 531.855 GB 810.000 GB RAID5
RaidGroup 3 183.388 GB 83.388 GB 100.000 GB RAID5
MetaLuns 0 0 0 N/A

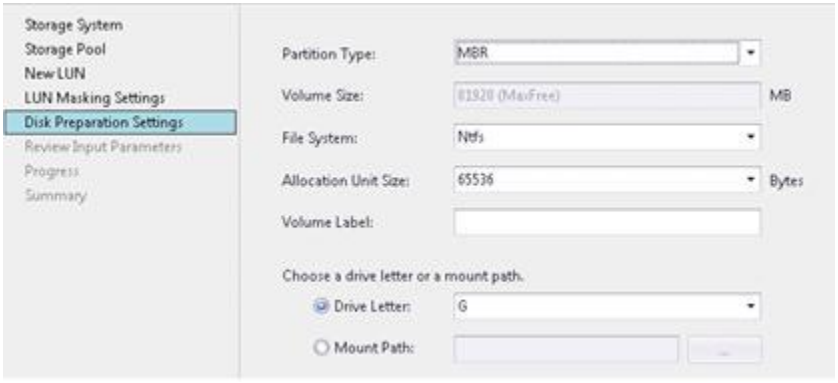

EMC STORAGE INTEGRA
Add Host
Enter the host name or IP Address of the host you want to add and your user login credentials for that host.
IP address/Name:
User login credentials
Username:
Password:
Use current Windows credentials
Test Connection
Add
Cancel
Actions
Add Storage System
Add Host
Add Host Cluster
Add Hypervisor
Add Application
Add Replication
Refresh
Options
Publish Connection
View
Help
Connect...
Remove System
Help

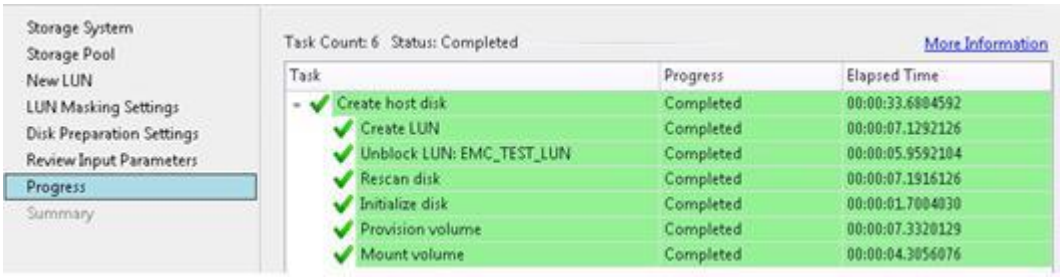

EMC Storage Integrator (x64)
File Action View Help
EMC Storage Integrator
Storage Systems
CX4-240 - APM00120503
Hosts
EMCSI - 10.2.2.151
Host Clusters
Hypervisors
Applications
Replication
Host: EMCSI
IP Address: 10.2.2.151
Username: EMCSI\Administrator
OS Information: Microsoft Windows Server 2008 R2 Standard Service Pack 1 64-bit
EMC²
Host Disks
Network Disks
SAN Initiators
Disk
Partition ...
Capacity
Mount P...
Disk Flags
Status
Disk Type
Source
Storage S...
LUN Name
ID on Sto...
LUN Identi...
Phyric...
MBR
90.000 GB
C:\
BootDisk,...
Online
Physical
N/A
BoardWa...
WIN8_O...
23
NAA.60060...
Volumes
Mount Path
Host Volume Identifi...
Size
Allocation Unit Size
File System Type
Label
\\?\GLOBALROOT\D...
100.000 MB
4.000 KB
NTFS
System Reserved
C:\
89.900 GB
Phyric...
MBR
100.000 GB
D:\
None
Online
Physical
N/A
BoardWa...
EMC_E
27
NAA.60060...
D:\
99.997 GB
DATA

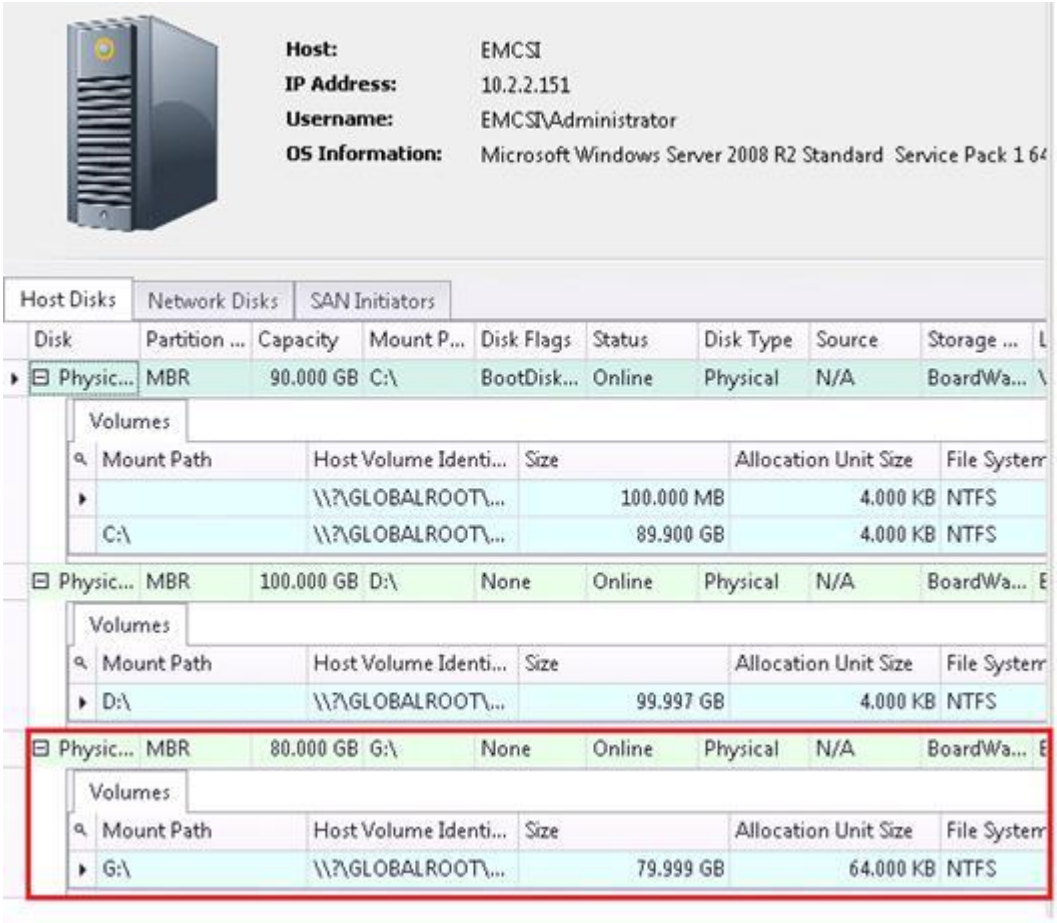

EMC Storage Integrator
Storage Systems
CX4-240 - APM00120503
Hosts
EMCSI - 10.2.2.151
Host Clusters
Hypervisors
Applications
Replication
Create Disk
Connect Disk
Create Shared Folder
Mount Shared Folder
Refresh
Test Connection
Remove System
View
Help


Storage System
Storage Pool
New LUN
LUN Masking Settings
Disk Preparation Settings
Review Input Parameters
Progress
Summary
Name
User Capacity
Available Capac...
Raid Type
Provision Type
RaidGroup 0
1.330 TB
783.425 GB
RAID5
Thick
RaidGroup 2
1.310 TB
531.855 GB
RAID5
Thick
RaidGroup 3
183.388 GB
83.388 GB
RAID5
Thick


Storage System
Storage Pool
New LUN
LUN Masking Settings
Disk Preparation Settings
Review Input Parameters
Progress
Summary
LUN Count:
1
Maximum: 9
Sequence Number:
1
Name:
EMC_TEST_LUN
Description:
Size:
80
GB
Available Capacity: 783.425 GB
Service Node:
Auto
Provision Type:
Thick
Thin
Stop provisioning new LUNs when error occurs


Storage System
Storage Pool
New LUN
LUN Masking Settings
Disk Preparation Settings
Review Input Parameters
Progress
Summary
Partition Type:
MBR
Volume Size:
81920 (MaxFree)
MB
File System:
Ntfs
Allocation Unit Size:
65536
Bytes
Volume Label:
Choose a drive letter or a mount path.
Drive Letter:
G
Mount Path:


Storage System
Storage Pool
New LUN
LUN Masking Settings
Disk Preparation Settings
Review Input Parameters
Progress
Summary
Task Count: 6 Status: Completed
More Information
Task
Progress
Elapsed Time
Create host disk
Completed
00:00:33.6804592
Create LUN
Completed
00:00:07.1292126
Unblock LUN: EMC_TEST_LUN
Completed
00:00:05.9592104
Rescan disk
Completed
00:00:07.1916126
Initialize disk
Completed
00:00:01.7004030
Provision volume
Completed
00:00:07.3320129
Mount volume
Completed
00:00:04.3056076



Host: EMCSI
IP Address: 10.2.2.151
Username: EMCSI\Administrator
OS Information: Microsoft Windows Server 2008 R2 Standard Service Pack 1 64

Host Disks | Network Disks | SAN Initiators

Disk	Partition ...	Capacity	Mount P...	Disk Flags	Status	Disk Type	Source	Storage ...
Physic...	MBR	90.000 GB	C:\	BootDisk...	Online	Physical	N/A	BoardWa...

Volumes

Mount Path	Host Volume Identi...	Size	Allocation Unit Size	File System
	\\?\GLOBALROOT\...	100.000 MB	4.000 KB	NTFS
C:\	\\?\GLOBALROOT\...	89.900 GB	4.000 KB	NTFS

Disk	Partition ...	Capacity	Mount P...	Disk Flags	Status	Disk Type	Source	Storage ...
Physic...	MBR	100.000 GB	D:\	None	Online	Physical	N/A	BoardWa...

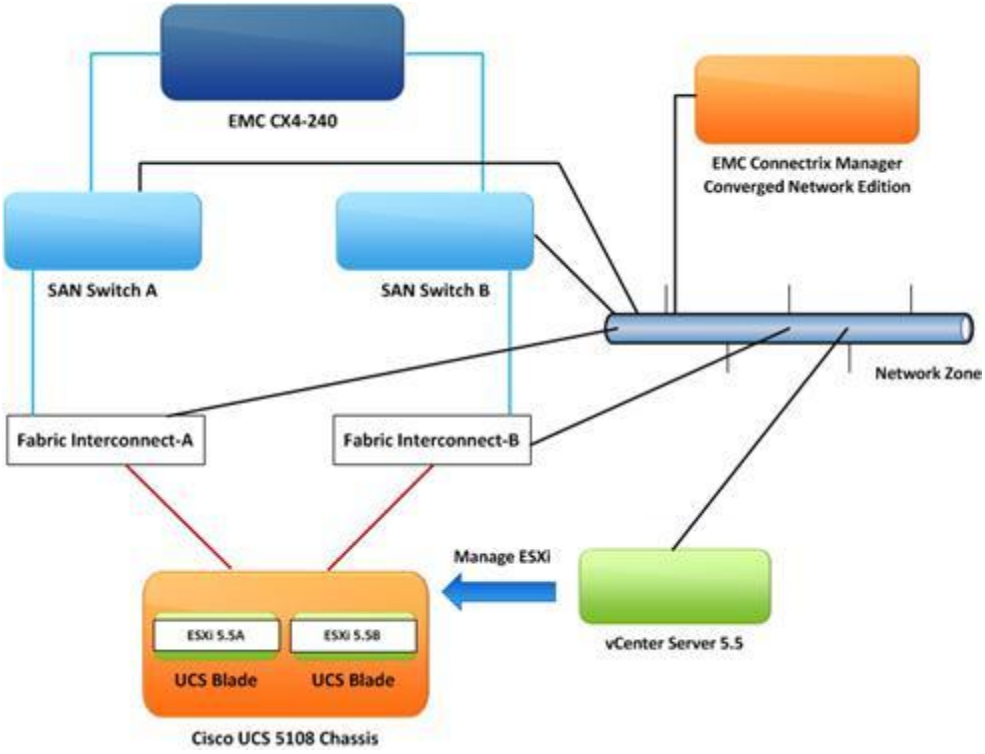
Volumes

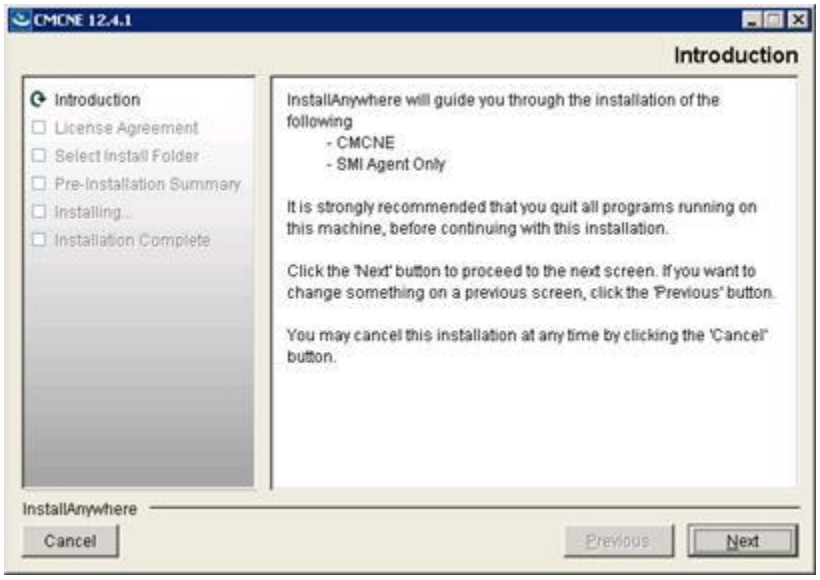
Mount Path	Host Volume Identi...	Size	Allocation Unit Size	File System
D:\	\\?\GLOBALROOT\...	99.997 GB	4.000 KB	NTFS

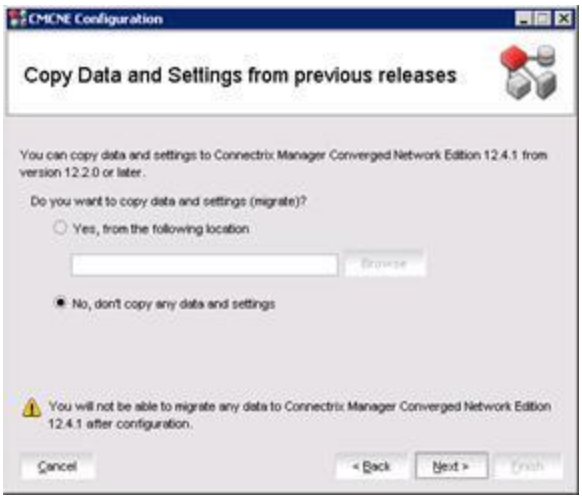
Disk	Partition ...	Capacity	Mount P...	Disk Flags	Status	Disk Type	Source	Storage ...
Physic...	MBR	80.000 GB	G:\	None	Online	Physical	N/A	BoardWa...

Volumes

Mount Path	Host Volume Identi...	Size	Allocation Unit Size	File System
G:\	\\?\GLOBALROOT\...	79.999 GB	64.000 KB	NTFS

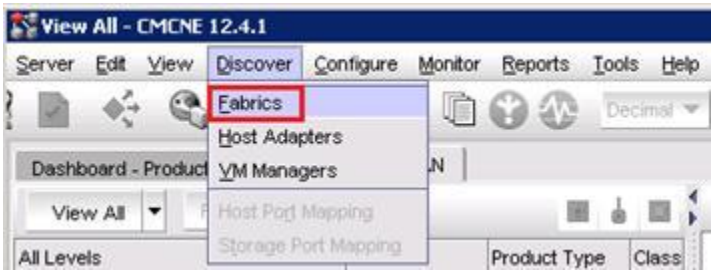

EMC CX4-240
EMC Connectrix Manager
Converged Network Edition
SAN Switch A
SAN Switch B
Network Zone
Fabric Interconnect-A
Fabric Interconnect-B
Manage ESXi
ESXi 5.5A
ESXi 5.5B
UCS Blade
UCS Blade
vCenter Server 5.5
Cisco UCS 5108 Chassis

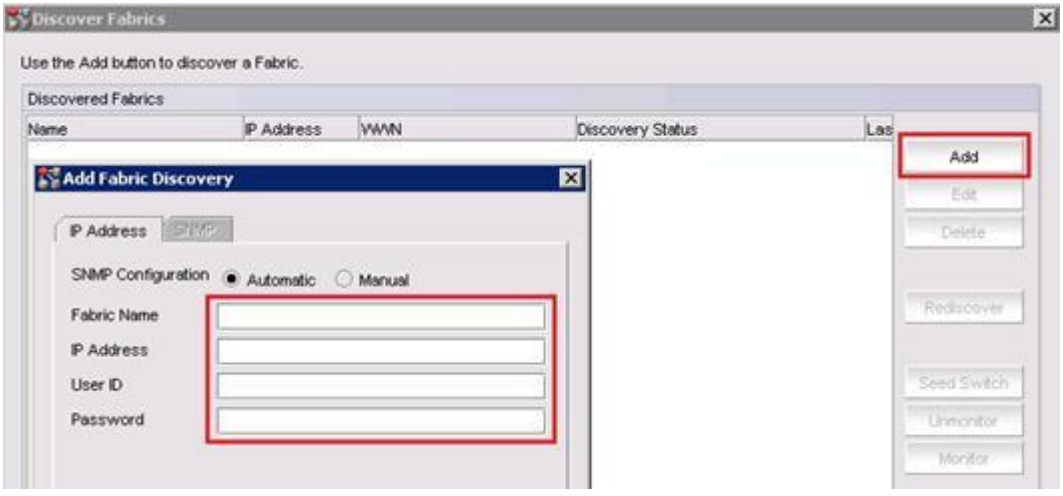

CMCNE 12.4.1
Introduction
Introduction
License Agreement
Select Install Folder
Pre-Installation Summary
Installing...
Installation Complete
InstallAnywhere will guide you through the installation of the following
- CMCNE
- SMI Agent Only
It is strongly recommended that you quit all programs running on this machine, before continuing with this installation.
Click the 'Next' button to proceed to the next screen. If you want to change something on a previous screen, click the 'Previous' button.
You may cancel this installation at any time by clicking the 'Cancel' button.
InstallAnywhere
Cancel
Previous
Next


CMCNE Configuration
Copy Data and Settings from previous releases
You can copy data and settings to Connectrix Manager Converged Network Edition 12.4.1 from version 12.2.0 or later.
Do you want to copy data and settings (migrate)?
Yes, from the following location
Browse...
No, don't copy any data and settings
You will not be able to migrate any data to Connectrix Manager Converged Network Edition 12.4.1 after configuration.
Cancel
< Back
Next >
Finish

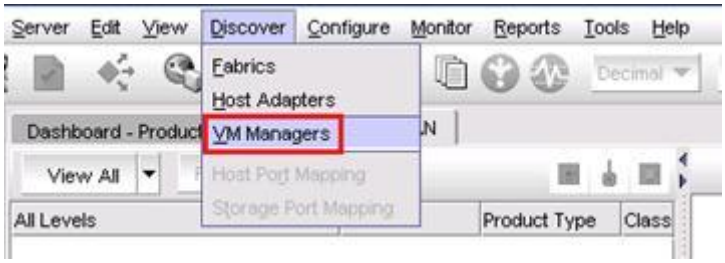
CMCNE Configuration
Database Administrator Password (dcmadmin)
Choose the database password option.
Default password
New password
Password
Confirm Password
Database password can be changed later using Server Management Console.
Cancel
< Back
Next >
Finish

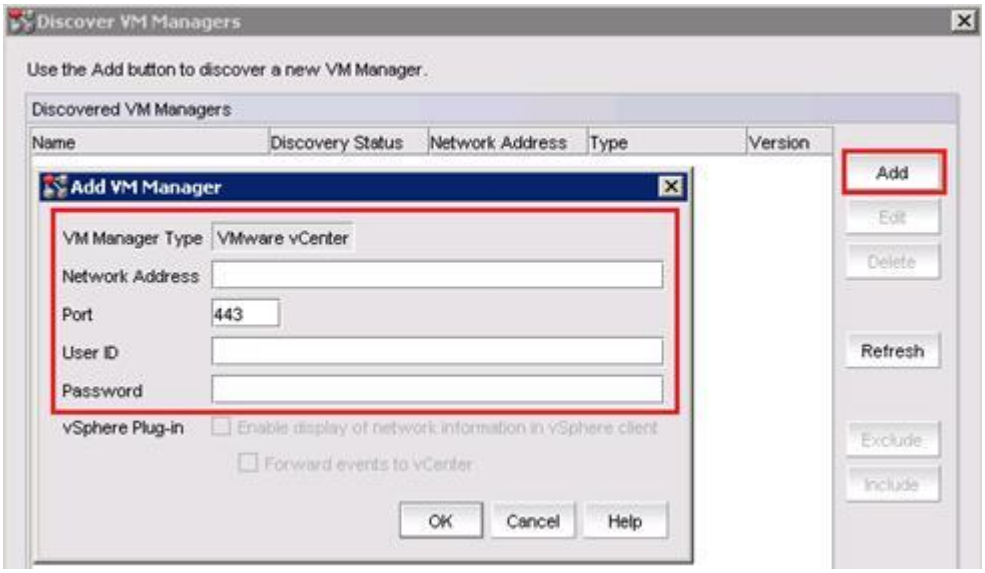
CMCNE 12.4.1 Log In
Connectrix Manager Converged Network Edition
Enter User ID and Password to log onto the server
Network Address
localhost
Delete
User ID
administrator
Password
Save password
Login
Exit
Server Available


View All - CMCNE 12.4.1
Server
Edit
View
Discover
Configure
Monitor
Reports
Tools
Help
Fabrics
Host Adapters
VM Managers
Host Port Mapping
Storage Port Mapping
Decimal
Dashboard - Product
View All
All Levels
Product Type
Class


Discover Fabrics
Use the Add button to discover a Fabric.
Discovered Fabrics
Name
IP Address
WWN
Discovery Status
Las
Add
Edit
Delete
Rediscover
Seed Switch
Unmonitor
Monitor
Add Fabric Discovery
IP Address
SNMP
SNMP Configuration
Automatic
Manual
Fabric Name
IP Address
User ID
Password

Use the Add button to discover a Fabric.
Discovered Fabrics
Name
IP Address
WWN
Discovery Status
DS_300B_A
DS300B01
10.2.1.13
10:00:00:27:F8:BD:C7:85
Discovered: Seed Switch
DS_300B_B
DS300b02
10.2.1.14
10:00:00:27:F8:BD:9A:51
Discovered: Seed Switch

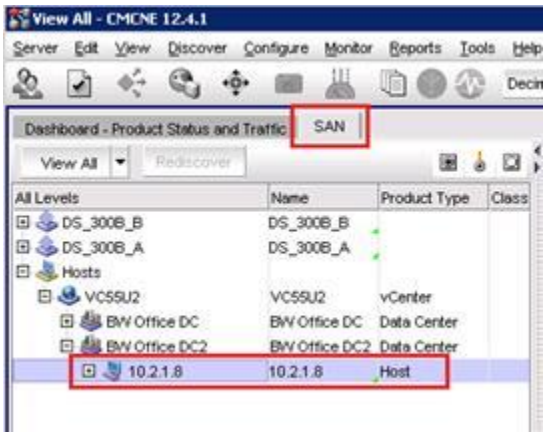

Server
Edit
View
Discover
Configure
Monitor
Reports
Tools
Help
Fabrics
Host Adapters
VM Managers
Host Port Mapping
Storage Port Mapping
Decimal
Dashboard - Product
View All
All Levels
Product Type
Class

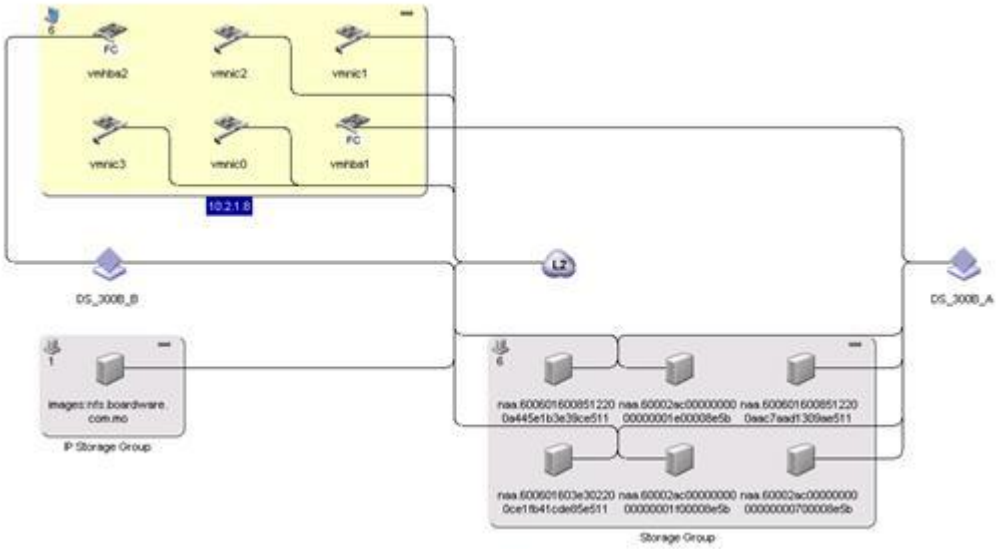

Discover VM Managers
Use the Add button to discover a new VM Manager.
Discovered VM Managers
Name
Discovery Status
Network Address
Type
Version
Add
Edit
Delete
Refresh
Exclude
Include
Add VM Manager
VM Manager Type
VMware vCenter
Network Address
Port
443
User ID
Password
vSphere Plug-in
Enable display of network information in vSphere client
Forward events to vCenter
OK
Cancel
Help

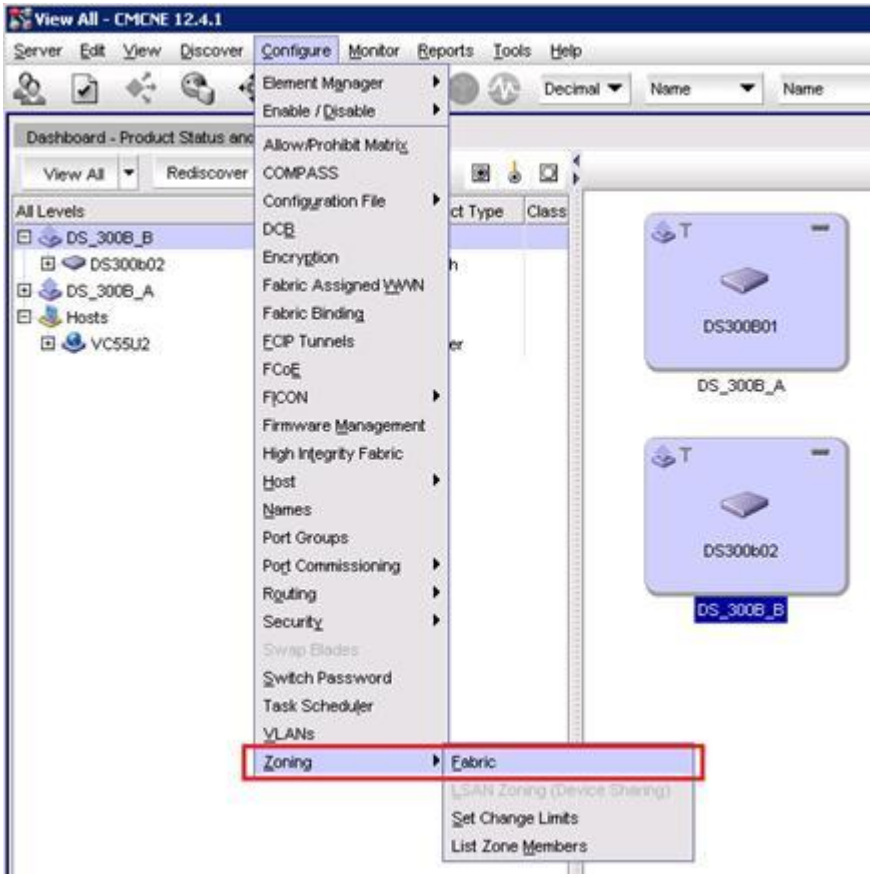
Use the Add button to discover a new VM Manager.

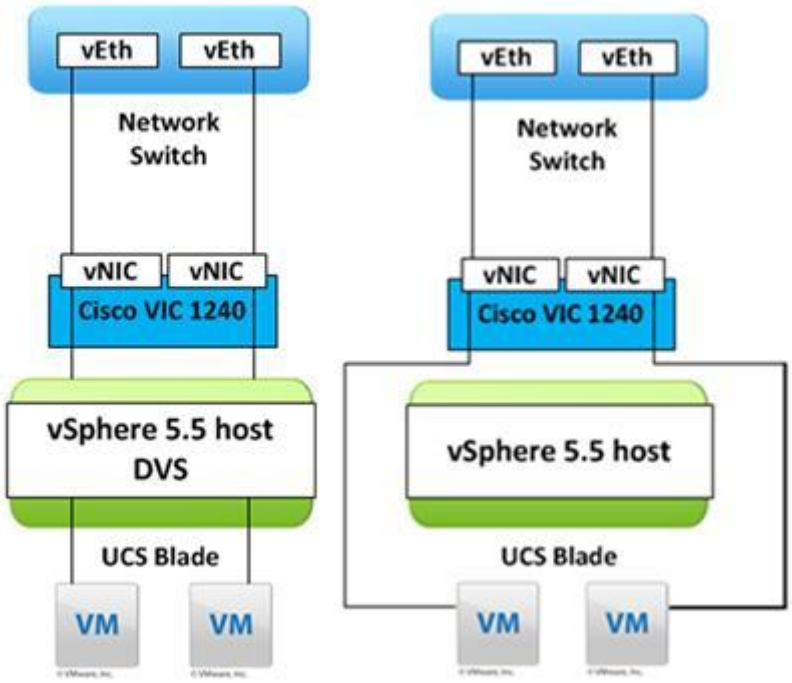
Discovered VM Managers

Name	Discovery Status	Network Address	Type	Version
VC55U2	Active	VC55U2	vCenter	5.5.0
10.2.1.8	Active	10.2.1.8		
10.2.1.7	Active	10.2.1.7		
10.2.1.6	Active	10.2.1.6		

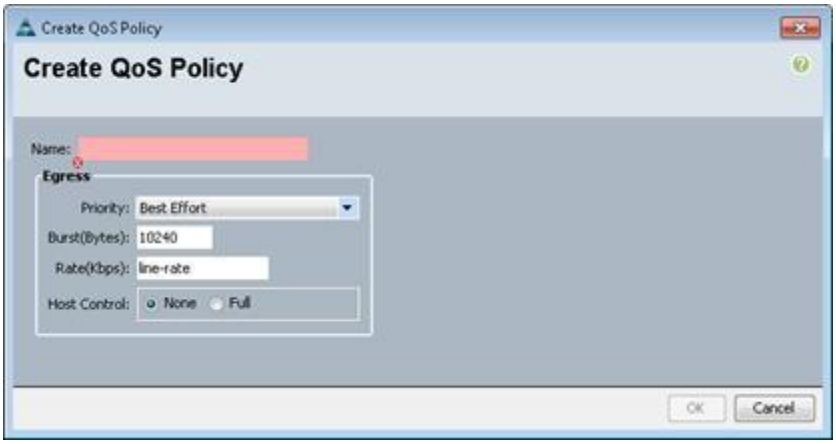



6
FC
vmhba2
vmnic2
vmnic1
vmnic3
vmnic0
FC
vmhba1
10.2.1.8
DS_300B_B
DS_300B_A
1
images:nfs.boardware.com.mo
IP Storage Group
6
naa.600601600851220 0a445e1b3e39ce511
naa.60002ac00000000 00000001e00008e5b
naa.600601600851220 0aac7aadf1309ae511
naa.600601603e30220 0ce1fb41cde85e511
naa.60002ac00000000 00000001f00008e5b
naa.60002ac00000000 0000000700008e5b
Storage Group


View All - CMCNE 12.4.1
Server
Edit
View
Discover
Configure
Monitor
Reports
Tools
Help
Element Manager
Enable / Disable
Allow/Prohibit Matrix
COMPASS
Configuration File
DCB
Encryption
Fabric Assigned WWN
Fabric Binding
FCIP Tunnels
FCoE
FICON
Firmware Management
High Integrity Fabric
Host
Names
Port Groups
Port Commissioning
Routing
Security
Swap Blades
Switch Password
Task Scheduler
VLANs
Zoning
Fabric
LSAN Zoning (Device Sharing)
Set Change Limits
List Zone Members
Decimal
Name
Name
Dashboard - Product Status and
View All
Rediscover
All Levels
DS_300B_B
DS300b02
DS_300B_A
Hosts
VC55U2
ct Type
Class
DS300B01
DS_300B_A
DS300b02
DS_300B_B

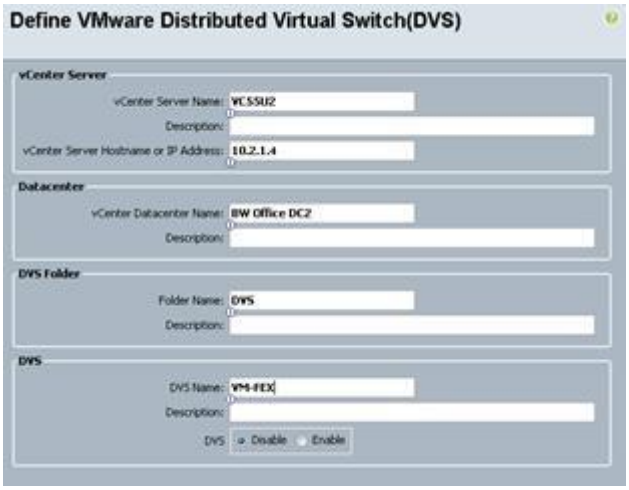

vEth
vEth
Network Switch
vNIC
vNIC
Cisco VIC 1240
vSphere 5.5 host DVS
UCS Blade
VM
VM
vEth
vEth
Network Switch
vNIC
vNIC
Cisco VIC 1240
vSphere 5.5 host
UCS Blade
VM
VM

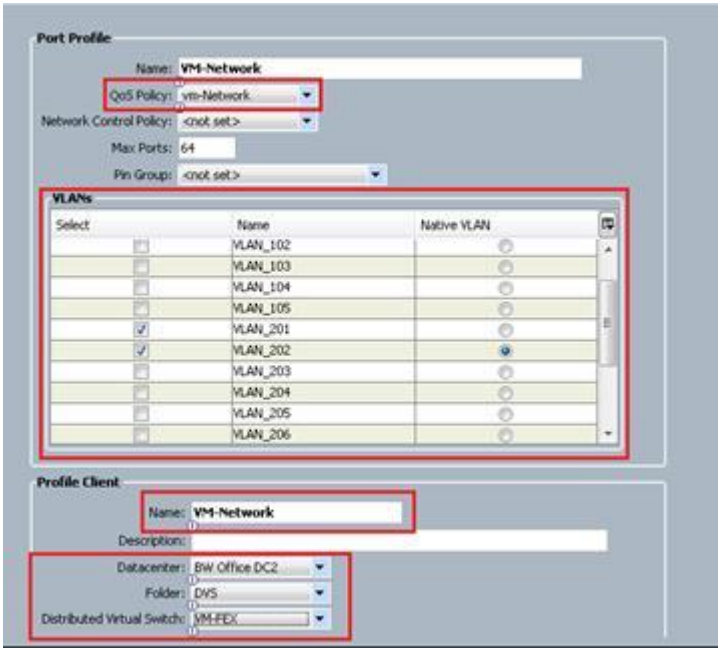
Create Dynamic vNIC Connection Policy
Create Dynamic vNIC Connection Policy
Name:
Description:
Number of Dynamic vNICs:
54
Adapter Policy:
<not set>
Protection:
Protected Pref A
Protected Pref B
Protected
OK
Cancel

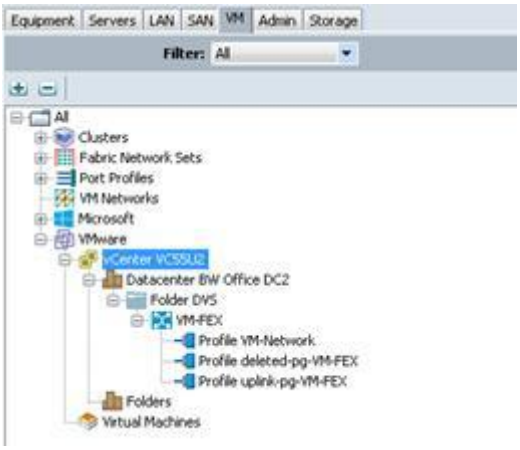

Create QoS Policy
Create QoS Policy
Name:
Egress
Priority: Best Effort
Burst(Bytes): 10240
Rate(Kbps): line-rate
Host Control: None Full
OK
Cancel

New
Options
Pending Activities
Exit
>> All
VMware
VMware
General
vCenters
Certificates
Deletion Tasks
Faults
Events
FSM
Actions
Export vCenter Extension
Export Multiple vCenter Extensions
Modify Extension Key
Configure vCenter
Configure VMware Integration
One or more vCenter extension files are required to establish secure communication between vCenter and UCSM.
You download the extension files through UCSM and install them as plug-ins on the vCenter server.
For vCenter version 4.0 Update 1 and later, you need a single extension file.
Use Export vCenter Extension to download it.
For vCenter version 4.0, you need eight (8) extension files.
Use Export Multiple vCenter Extensions to download the required extension files.
Extension Key
Key: Cisco-UCSM-98d54142-9303-11e4-84f

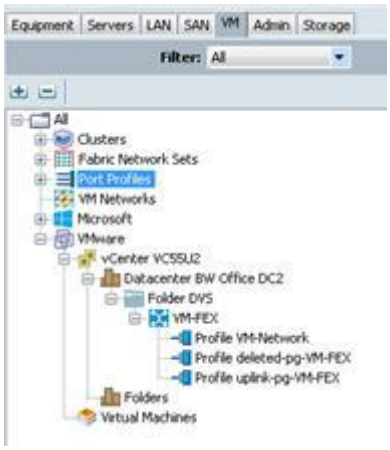
Plug-in Manager
Plug-in Name
Vendor
Version
Status
Description
Installed Plug-ins
VMware vCenter Storage Monitoring Service
VMware Inc.
5.5
Enabled
Storage Monitoring and Reporting
vCenter Service Status
VMware, Inc.
5.5
Enabled
Displays the health status of vCenter services
vCenter Hardware Status
VMware, Inc.
5.5
Enabled
Displays the hardware status of hosts (CIM monitoring)
Available Plug-ins
vRealize Operations Manager
VMware
6.1.0....
No client side d...
VMware vRealize Operations Manager extension
Cisco-UCSM-98d54142-9303-11e4-84f
Cisco Systems, Inc.
1.0.0
No client side d...

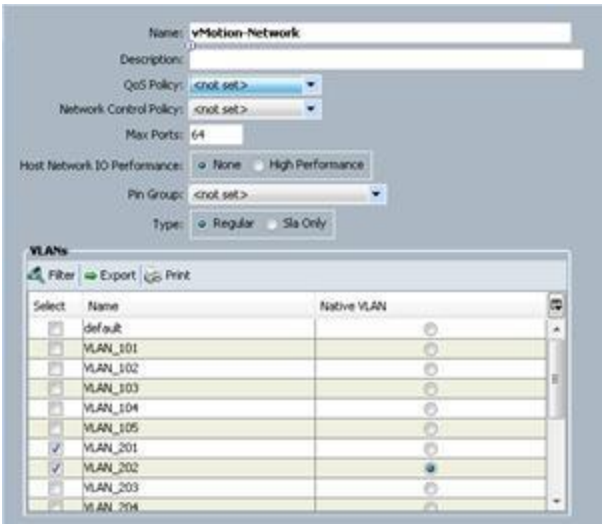

Define VMware Distributed Virtual Switch(DVS)
vCenter Server
vCenter Server Name: VCSSUI2
Description:
vCenter Server Hostname or IP Address: 10.2.1.4
Datacenter
vCenter Datacenter Name: BW Office DC2
Description:
DVS Folder
Folder Name: DVS
Description:
DVS
DVS Name: VM-FEX
Description:
DVS: Disable Enable

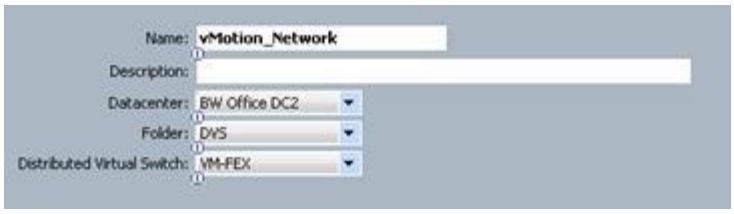

Port Profile
Name: VM-Network
QoS Policy: vm-Network
Network Control Policy: <not set>
Max Ports: 64
Pin Group: <not set>
VLANs
Select
Name
Native VLAN
VLAN_102
VLAN_103
VLAN_104
VLAN_105
VLAN_201
VLAN_202
VLAN_203
VLAN_204
VLAN_205
VLAN_206
Profile Client
Name: VM-Network
Description:
Datacenter: BW Office DC2
Folder: DVS
Distributed Virtual Switch: VM-FEX

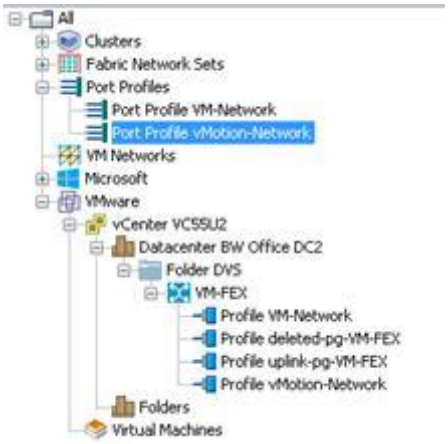

Equipment
Servers
LAN
SAN
VM
Admin
Storage
Filter: All
All
Clusters
Fabric Network Sets
Port Profiles
VM Networks
Microsoft
VMware
vCenter VC55U2
Datacenter BW Office DC2
Folder DVS
VM-FEX
Profile VM-Network
Profile deleted-pg-VM-FEX
Profile uplink-pg-VM-FEX
Folders
Virtual Machines

vmware vSphere Web Client
Home
VC55U2
BW Office DC
BW Office DC2
DVS
VM-FEX
deleted-pg-VM-FEX
uplink-pg-VM-FEX
VM-Network

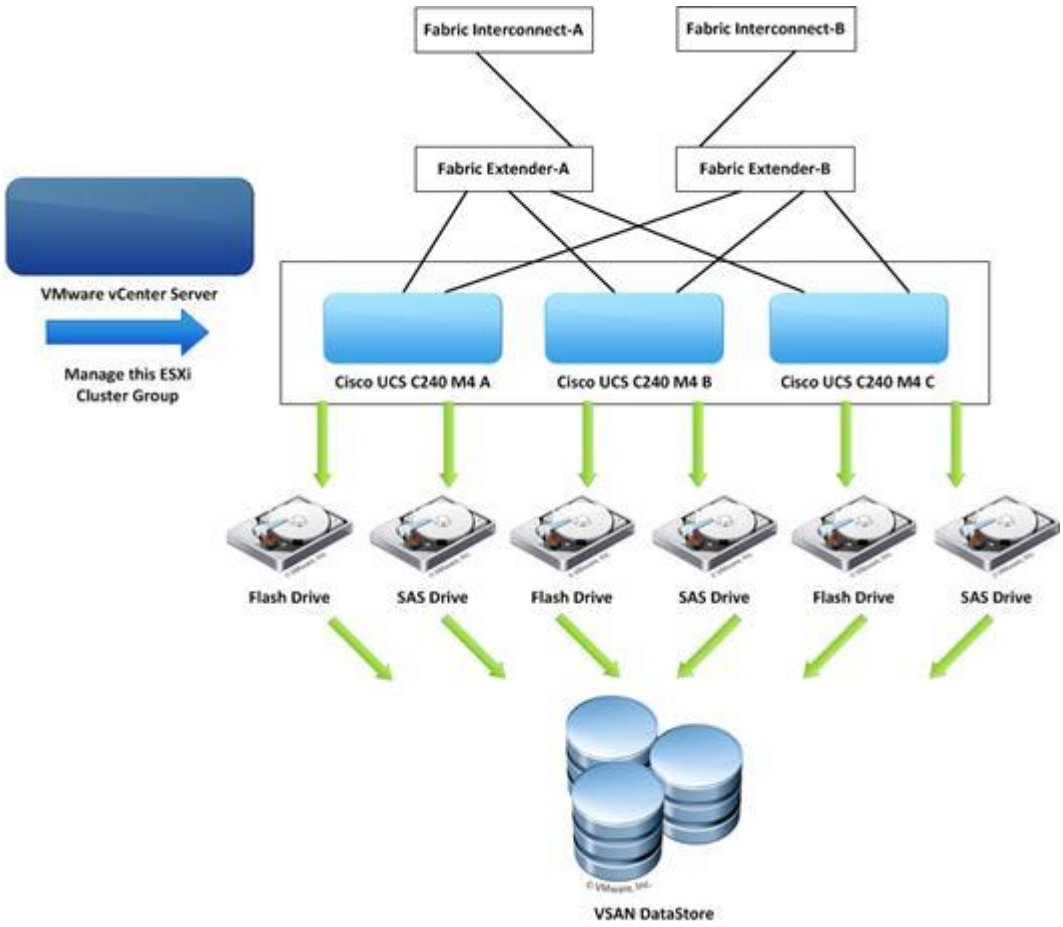

Equipment
Servers
LAN
SAN
VM
Admin
Storage
Filter: All
All
Clusters
Fabric Network Sets
Port Profiles
VM Networks
Microsoft
VMware
vCenter VC55U2
Datacenter BW Office DC2
Folder DVS
VM-FEX
Profile VM-Network
Profile deleted-pg-VM-FEX
Profile uplink-pg-VM-FEX
Folders
Virtual Machines

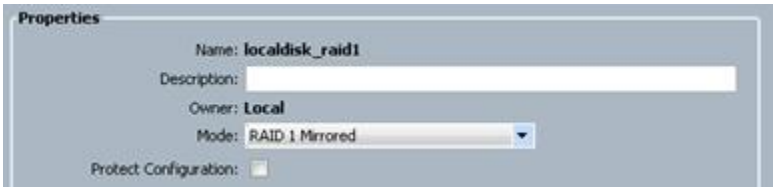

Name: vMotion-Network
Description:
QoS Policy: <not set>
Network Control Policy: <not set>
Max Ports: 64
Host Network IO Performance: None High Performance
Pin Group: <not set>
Type: Regular Sla Only
VLANs
Filter
Export
Print
Select
Name
Native VLAN
default
VLAN_101
VLAN_102
VLAN_103
VLAN_104
VLAN_105
VLAN_201
VLAN_202
VLAN_203

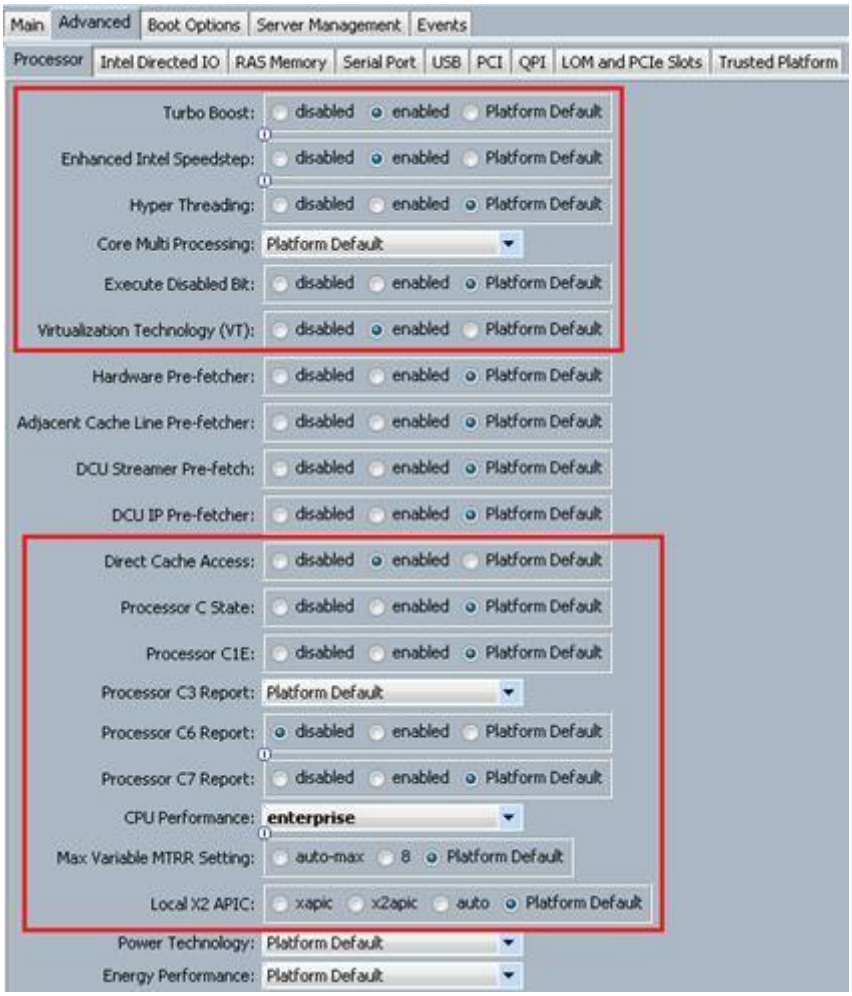

Name: vMotion_Network
Description:
Datacenter: BW Office DC2
Folder: DVS
Distributed Virtual Switch: VM-FEX


All
Clusters
Fabric Network Sets
Port Profiles
Port Profile VM-Network
Port Profile vMotion-Network
VM Networks
Microsoft
VMware
vCenter VC55U2
Datacenter BW Office DC2
Folder DVS
VM-FEX
Profile VM-Network
Profile deleted-pg-VM-FEX
Profile uplink-pg-VM-FEX
Profile vMotion-Network
Folders
Virtual Machines

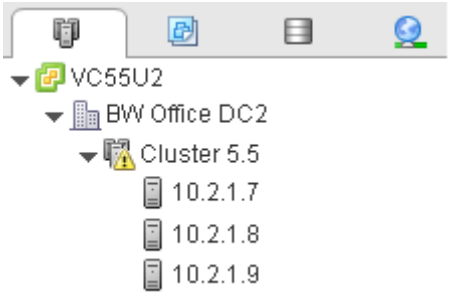
VC55U2
BW Office DC
BW Office DC2
DVS
VM-FEX
deleted-pg-VM-FEX
uplink-pg-VM-FEX
VM-Network
vMotion-Network
VLAN_201
VLAN_202


Fabric Interconnect-A
Fabric Interconnect-B
Fabric Extender-A
Fabric Extender-B
VMware vCenter Server
Manage this ESXi
Cluster Group
Cisco UCS C240 M4 A
Cisco UCS C240 M4 B
Cisco UCS C240 M4 C
Flash Drive
SAS Drive
Flash Drive
SAS Drive
Flash Drive
SAS Drive
VSAN DataStore

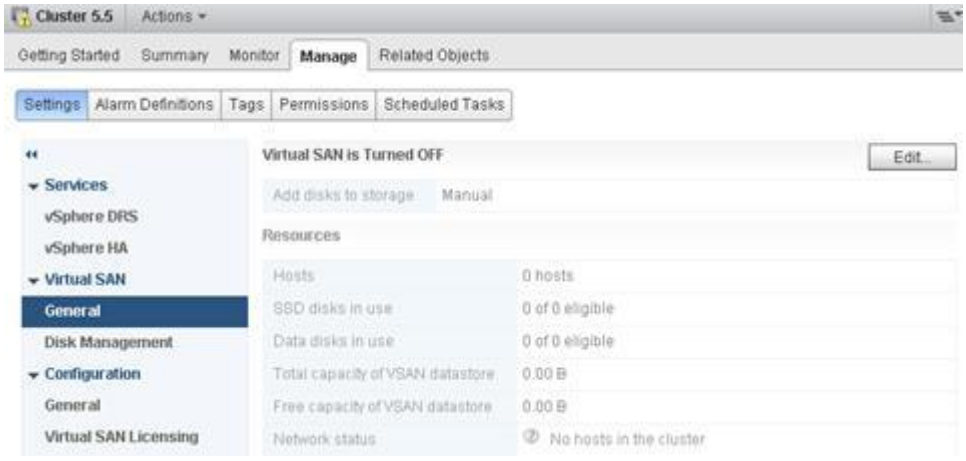

Properties
Name: localdisk_raid1
Description:
Owner: Local
Mode: RAID 1 Mirrored
Protect Configuration:


Main
Advanced
Boot Options
Server Management
Events
Processor
Intel Directed IO
RAS Memory
Serial Port
USB
PCI
QPI
LOM and PCIe Slots
Trusted Platform
Turbo Boost: disabled enabled Platform Default
Enhanced Intel Speedstep: disabled enabled Platform Default
Hyper Threading: disabled enabled Platform Default
Core Multi Processing: Platform Default
Execute Disabled Bit: disabled enabled Platform Default
Virtualization Technology (VT): disabled enabled Platform Default
Hardware Pre-fetcher: disabled enabled Platform Default
Adjacent Cache Line Pre-fetcher: disabled enabled Platform Default
DCU Streamer Pre-fetch: disabled enabled Platform Default
DCU IP Pre-fetcher: disabled enabled Platform Default
Direct Cache Access: disabled enabled Platform Default
Processor C State: disabled enabled Platform Default
Processor C1E: disabled enabled Platform Default
Processor C3 Report: Platform Default
Processor C6 Report: disabled enabled Platform Default
Processor C7 Report: disabled enabled Platform Default
CPU Performance: enterprise
Max Variable MTRR Setting: auto-max 8 Platform Default
Local X2 APIC: xapic x2apic auto Platform Default
Power Technology: Platform Default
Energy Performance: Platform Default

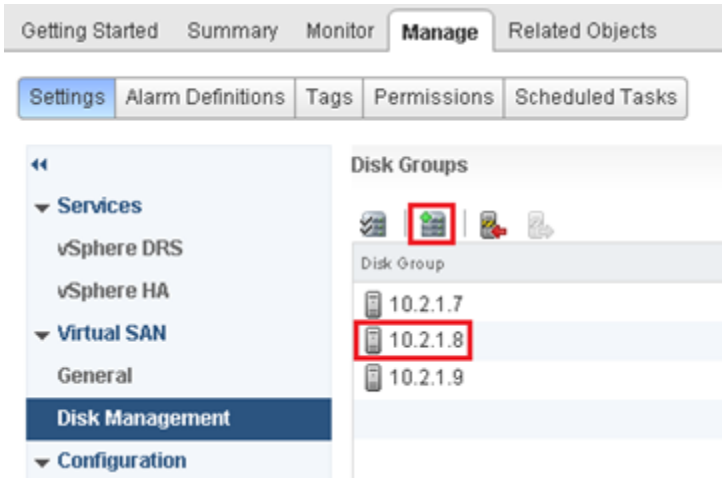
Properties
Name: vNIC1
MAC Address: 00:25:B5:0A:00:0C
MAC Pool: BW-MAC-FIA
MAC Pool Instance: org-root/mac-pool-BW-MAC-FIA
Fabric ID: Fabric A Fabric B Enable Failover
Owner: Logical
Type: Ether
Admin CDN Name:
Oper CDN Name:
Equipment:
Boot Device: Disabled
MTU: 9000
Virtualization Preference: NONE
Template Name:

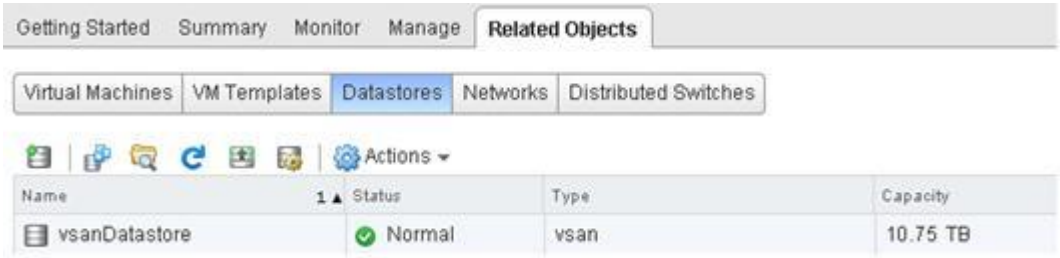

VC55U2
BW Office DC2
Cluster 5.5
10.2.1.7
10.2.1.8
10.2.1.9

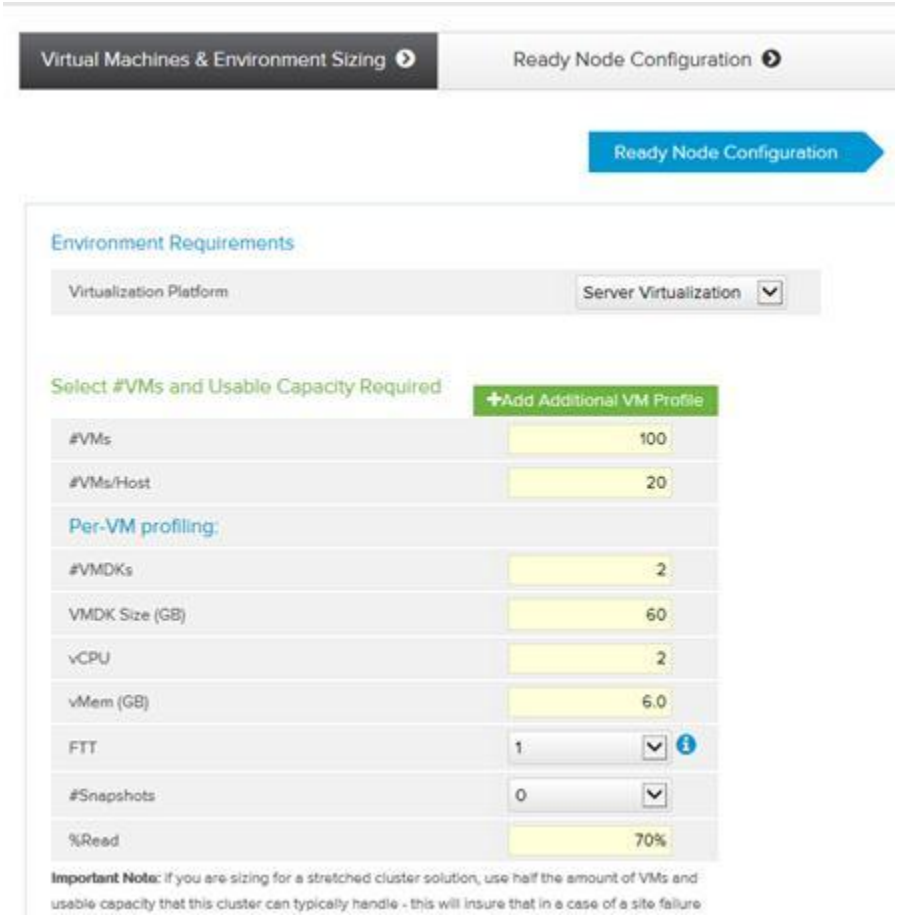
1 Select connection type
2 Select target device
3 Connection settings
3a Port properties
3b IPv4 settings
4 Ready to complete
Select connection type
Select a connection type to create.
VMkernel Network Adapter
The VMkernel TCP/IP stack handles traffic for ESXi services such as vSphere vMotion, iSCSI, NFS, FCoE, Fault Tolerance, Virtual SAN and host management.
Physical Network Adapter
A physical network adapter handles the network traffic to other hosts on the network.
Virtual Machine Port Group for a Standard Switch
A port group handles the virtual machine traffic on standard switch.


Cluster 5.5
Actions
Getting Started
Summary
Monitor
Manage
Related Objects
Settings
Alarm Definitions
Tags
Permissions
Scheduled Tasks
Services
vSphere DRS
vSphere HA
Virtual SAN
General
Disk Management
Configuration
General
Virtual SAN Licensing
Virtual SAN is Turned OFF
Edit...
Add disks to storage
Manual
Resources
Hosts
0 hosts
SSD disks in use
0 of 0 eligible
Data disks in use
0 of 0 eligible
Total capacity of VSAN datastore
0.00 B
Free capacity of VSAN datastore
0.00 B
Network status
No hosts in the cluster

Cluster 5.5 - Edit Virtual SAN Settings
Turn ON Virtual SAN
Add disks to storage
Manual
Requires manual claiming of any new disks on the included hosts to the shared storage.
OK
Cancel

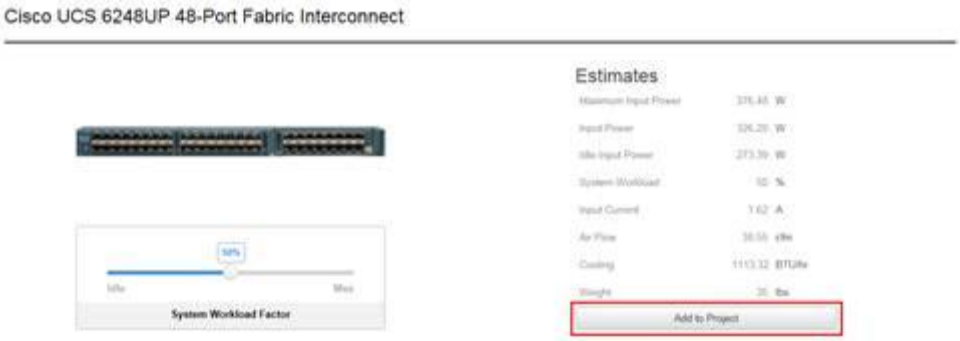

Getting Started
Summary
Monitor
Manage
Related Objects
Settings
Alarm Definitions
Tags
Permissions
Scheduled Tasks
Services
vSphere DRS
vSphere HA
Virtual SAN
General
Disk Management
Configuration
Disk Groups
Disk Group
10.2.1.7
10.2.1.8
10.2.1.9


Getting Started
Summary
Monitor
Manage
Related Objects
Virtual Machines
VM Templates
Datastores
Networks
Distributed Switches
Actions
Name
Status
Type
Capacity
vsanDatastore
Normal
vsan
10.75 TB



Chapter 6:Cisco UCS Site Planning

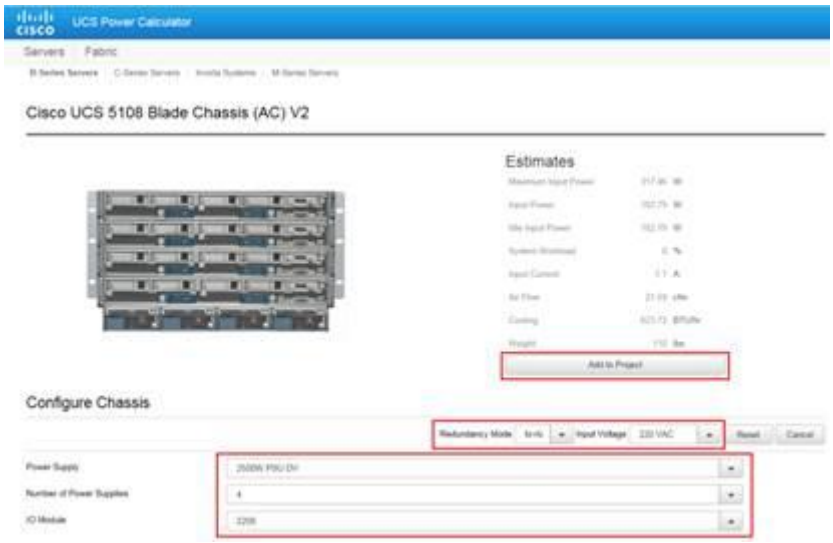
UCS Power Calculator
Servers
Fabric
Fabric Extender
Fabric Interconnect
Available Fabric Interconnects
Ports
No of Power Supply
Expansion Slots
Configure and Add
Configure and Add


Cisco UCS 6248UP 48-Port Fabric Interconnect
Estimates
System Workload Factor
Add to Project

Configure Fabric Interconnect
Redundancy Mode
Input Voltage
220 VAC
Reset
Cancel
Save Template
Item
Quantity
Configuration
Power Supply
Expansion Modules
Ports Configured
12

Fabric
Cisco UCS 6248UP 48-Port Fabric Interconnect
2

UCS Power Calculator
Servers
Fabric
B-Series Servers
C-Series Servers
Invicta Systems
M-Series Servers
Available Chassis
5108 Blade Chassis (AC) V2
No of Power Supply 4
I/O Module 2
Blade Slots 8
Configure and Add
5108 Blade Chassis (DC) V2
No of Power Supply 4
I/O Module 2
Blade Slots 8
Configure and Add
5108 Blade Chassis (HVDC) V2
No of Power Supply 4
I/O Module 2
Blade Slots 8
Configure and Add


UCS Power Calculator
Servers
Fabric
Cisco UCS 5108 Blade Chassis (AC) V2
Estimates
Add to Project
Configure Chassis
Power Supply
Number of Power Supplies
I/O Module

B-Series Servers
Cisco UCS 5108 Blade Chassis (AC) V2
1
+ Add blade to chassis
Configuration
Power Supply
4
• 2500W PSU DV
IO Module
2
• 2208

50%
Idle
Max
System Workload Factor
Estimates
Add to Chassis

Configure Server
Reset
Cancel
Save Template
Item
Quantity
Configuration
Processor
2
Intel E5-2690 v3 2.5 GHz/120W 12C/30MB Cache/DDR4 2133MHz
Memory
24
16GB DDR4-2133-MHz RDIMM/PC4-17000/2Rx4/1.2v
Storage
2
600GB 6Gb SAS 10K RPM SFF HDD
Adapter
1
VIC - Cisco 1340 mLOM

Cisco UCS B200 M4
4

Project Power Summary

Power	2109.39 W	Current	10.02 A

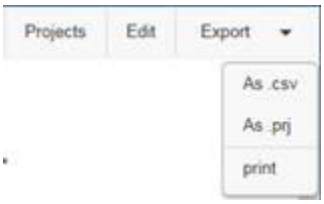
Imperial or Metric: Imperial

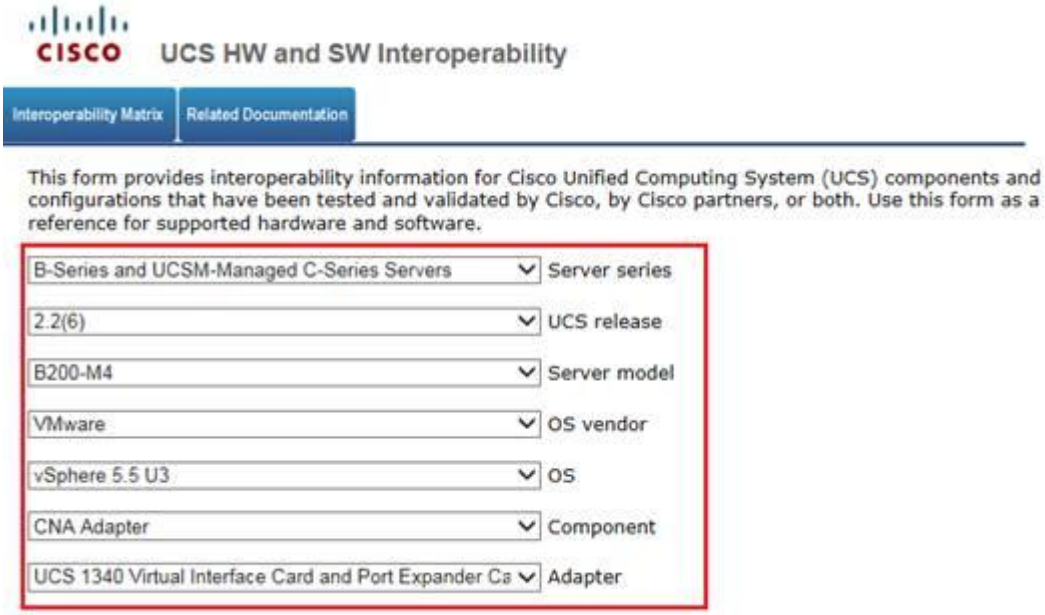
Power Cost per kWhr ($): 0.105

View Detail Result

Results

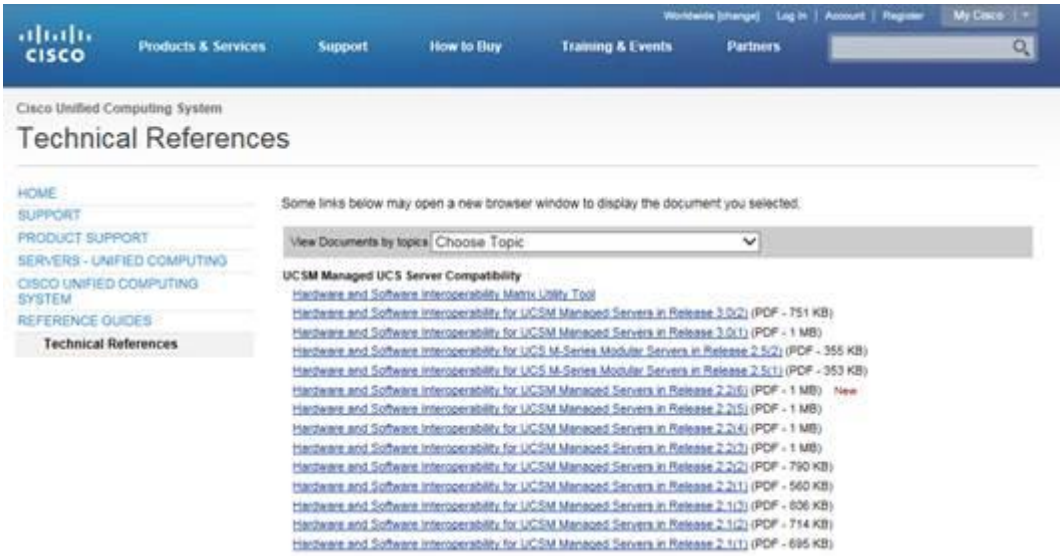
	System Workload Factor (W)	Max Power (W)	Max Current Draw (A)	Idle Power (W)	Cooling System Workflow (BTU/hr)
Fabric	652.6	753	3.69	546.8	2226.6
B-Series Servers	1456.8	2270.6	10.44	677.3	4970.9
C-Series Servers	0	0	0	0	0
Invicta Systems	0	0	0	0	0
M-Series Servers	0	0	0	0	0
Total	2109.4	3023.6	14.14	1224.1	7197.5
Annual Cost	$1,540.22	$2,760.98		$1,126.93	



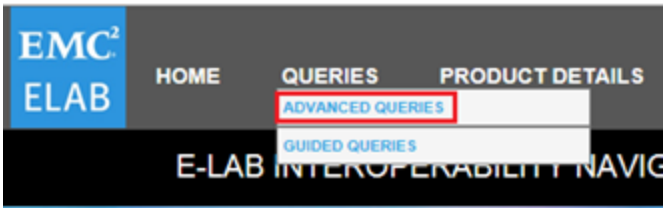



```
Manufacturer     =

Adapter Driver   = 1.6.0.17a (FNIC) / 2.1.2.71 (ENIC)
Adapter Firmware = 4.0(8)
Boot Code / BIOS =

Note 11: A Cisco OEM Customized ESX ISO maybe required for installation.
Custom ISOâs contain the minimum driver level for installation, please check
the Cisco HCL for the supported driver versions. Custom ISOâs are available
from VMware.com > Downloads > VMware vSphere > Drivers and Tools > Custom ISOs

Note 12: iSCSI Boot is supported. Both Appliance and Uplink ports are
supported unless otherwise noted
```

For UCS storage and switch interoperability information, see Related Documentation.


Products & Services
Support
How to Buy
Training & Events
Partners
Cisco Unified Computing System
Technical References
HOME
SUPPORT
PRODUCT SUPPORT
SERVERS - UNIFIED COMPUTING
CISCO UNIFIED COMPUTING SYSTEM
REFERENCE GUIDES
Technical References
Some links below may open a new browser window to display the document you selected.
View Documents by topics
Choose Topic
UCSM Managed UCS Server Compatibility
Hardware and Software Interoperability Matrix Utility Tool
Hardware and Software Interoperability for UCSM Managed Servers in Release 3.0(2) (PDF - 751 KB)
Hardware and Software Interoperability for UCSM Managed Servers in Release 3.0(1) (PDF - 1 MB)
Hardware and Software Interoperability for UCS M-Series Modular Servers in Release 2.5(2) (PDF - 355 KB)
Hardware and Software Interoperability for UCS M-Series Modular Servers in Release 2.5(1) (PDF - 353 KB)
Hardware and Software Interoperability for UCSM Managed Servers in Release 2.2(6) (PDF - 1 MB) New
Hardware and Software Interoperability for UCSM Managed Servers in Release 2.2(5) (PDF - 1 MB)
Hardware and Software Interoperability for UCSM Managed Servers in Release 2.2(4) (PDF - 1 MB)
Hardware and Software Interoperability for UCSM Managed Servers in Release 2.2(3) (PDF - 1 MB)
Hardware and Software Interoperability for UCSM Managed Servers in Release 2.2(2) (PDF - 790 KB)
Hardware and Software Interoperability for UCSM Managed Servers in Release 2.2(1) (PDF - 560 KB)
Hardware and Software Interoperability for UCSM Managed Servers in Release 2.1(3) (PDF - 606 KB)
Hardware and Software Interoperability for UCSM Managed Servers in Release 2.1(2) (PDF - 714 KB)
Hardware and Software Interoperability for UCSM Managed Servers in Release 2.1(1) (PDF - 695 KB)

EMC²
ELAB
HOME
QUERIES
PRODUCT DETAILS
DOCUMENTS
ELN FEEDBACK
E-LAB INTEROPERABILITY NAVIGATOR
Home of the EMC Support Matrix


EMC²
ELAB
HOME
QUERIES
PRODUCT DETAILS
ADVANCED QUERIES
GUIDED QUERIES

Your cart:

Component Type	Component(s)	
Storage Array	Unified Storage VNX5200/5400/5600/5800/7600/8000(Block) X	
Host System	UCS B200 M4 X	
Operating System	Windows Server 2012 R2 X	
Switch	300 X	
Cluster Software	None Selected	
Host Bus Adapter	VIC 1340 X	
Storage Operating Environment	None Selected	
Multipathing Software	None Selected	

More Types Select Add

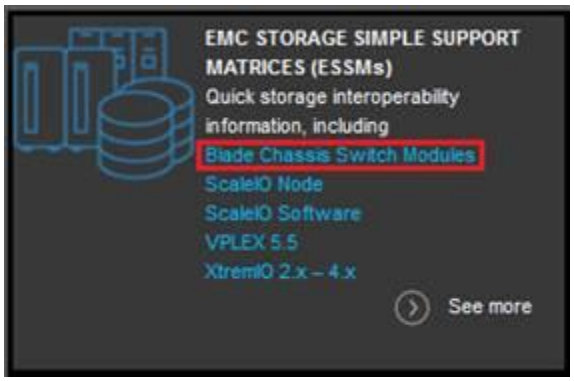
Configuration Types

Get Results for Selected Configurations

Standard View (Default) Component Intersection View Storage Array Differences View

Note: Yellow highlights show in which tables your component types exist. You MUST complete steps 3 and 4 (above) to get results.

Select	Configuration Table Name	Category	Storage Array	Host System	Operating System	Host Bus Adapter	Switch
☑	Base Connectivity	Basic FC/FCoE Storage Connectivity	Unified Storage VNX5200/5400 /5600/5800 /7600/8000(Block)	UCS B200 M4	Windows Server 2012 R2	VIC1340	
☐	Host Volume Managers Without Clustering	Basic FC/FCoE Storage Connectivity	Unified Storage VNX5200/5400 /5600/5800 /7600/8000(Block)		Windows Server 2012 R2		
☑	Path Management Software	Basic FC/FCoE Storage Connectivity	Unified Storage VNX5200/5400 /5600/5800 /7600/8000(Block)		Windows Server 2012 R2		
☐	Cluster Software	Basic FC/FCoE Storage Connectivity	Unified Storage VNX5200/5400 /5600/5800 /7600/8000(Block)		Windows Server 2012 R2		
☐	iSCSI Clusters	Basic iSCSI Storage Connectivity	Unified Storage VNX5200/5400 /5600/5800 /7600/8000(Block)		Windows Server 2012 R2	VIC1340	
☐	Native iSCSI	Basic iSCSI Storage Connectivity	Unified Storage VNX5200/5400 /5600/5800 /7600/8000(Block)		Windows Server 2012 R2	VIC1340	
☐	Switched Fabric Topology Parameters	Switch Interoperability					300
☐	EMC and Third-Party Storage Array Management Software	EMC and OpenStack	Unified Storage VNX5200/5400 /5600/5800 /7600/8000(Block)		Windows Server 2012 R2		
☐	Data Mobility Migration Software	EMC Migration					



EMC²

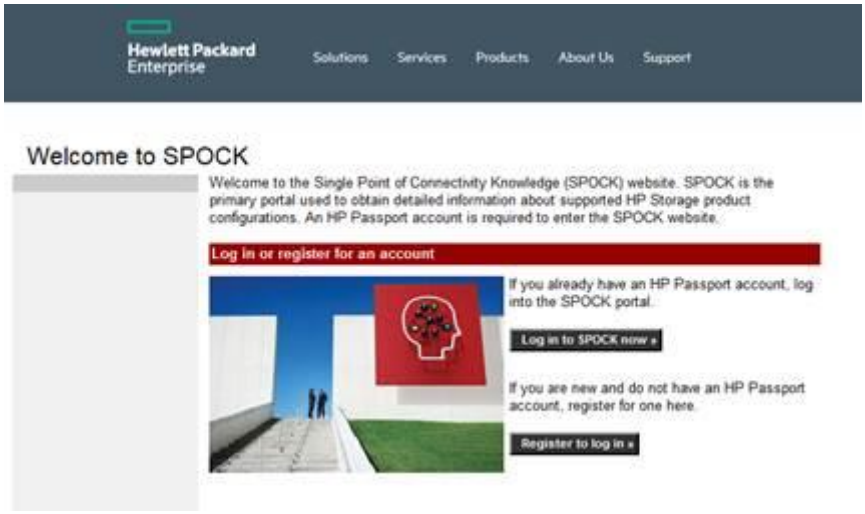
EMC² ELAB PROVEN

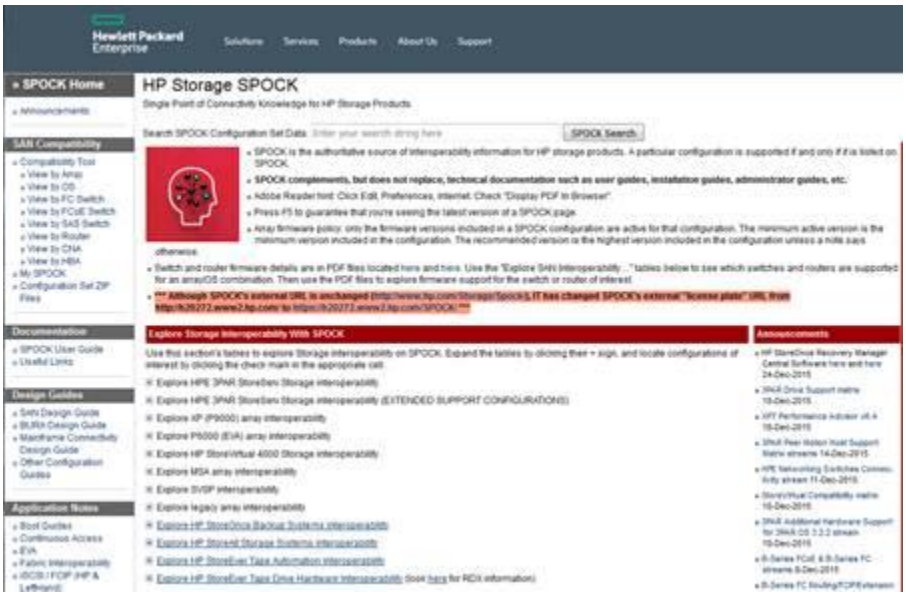
EMC Simple Support Matrix

Blade Chassis Switch Modules

JANUARY 2016

P/N 300-015-007 REV 16


Hewlett Packard Enterprise
Solutions
Services
Products
About Us
Support
Welcome to SPOCK
Welcome to the Single Point of Connectivity Knowledge (SPOCK) website. SPOCK is the primary portal used to obtain detailed information about supported HP Storage product configurations. An HP Passport account is required to enter the SPOCK website.
Log in or register for an account
If you already have an HP Passport account, log into the SPOCK portal.
Log in to SPOCK now »
If you are new and do not have an HP Passport account, register for one here.
Register to log in »


Hewlett Packard Enterprise
Solutions
Services
Products
About Us
Support
» SPOCK Home
» Announcements
SAN Compatibility
» Compatibility Tool
» View by Array
» View by OS
» View by FC Switch
» View by FCoE Switch
» View by SAS Switch
» View by Router
» View by CNA
» View by HBA
» My SPOCK
» Configuration Set ZIP Files
Documentation
» SPOCK User Guide
» Useful Links
Design Guides
» SAN Design Guide
» BURA Design Guide
» Mainframe Connectivity Design Guide
» Other Configuration Guides
Application Notes
» Boot Guides
» Continuous Access
» EVA
» Fabric Interoperability
» iSCSI / FCIP (HP & Lefthand)
HP Storage SPOCK
Single Point of Connectivity Knowledge for HP Storage Products
Search SPOCK Configuration Set Data
SPOCK Search
» SPOCK is the authoritative source of interoperability information for HP storage products. A particular configuration is supported if and only if it is listed on SPOCK.
» SPOCK complements, but does not replace, technical documentation such as user guides, installation guides, administrator guides, etc.
» Adobe Reader hint: Click Edit, Preferences, Internet. Check "Display PDF in Browser".
» Press F5 to guarantee that you're seeing the latest version of a SPOCK page.
» Array firmware policy: only the firmware versions included in a SPOCK configuration are active for that configuration. The minimum active version is the minimum version included in the configuration. The recommended version is the highest version included in the configuration unless a note says otherwise.
» Switch and router firmware details are in PDF files located here and here. Use the "Explore SAN Interoperability..." tables below to see which switches and routers are supported for an array/OS combination. Then use the PDF files to explore firmware support for the switch or router of interest.
» *** Although SPOCK's external URL is unchanged (http://www.hp.com/storage/spock), IT has changed SPOCK's external "license plate" URL from http://h20272.www2.hp.com/ to https://h20272.www2.hp.com/SPOCK/ ***
Explore Storage Interoperability With SPOCK
Use this section's tables to explore Storage interoperability on SPOCK. Expand the tables by clicking their + sign, and locate configurations of interest by clicking the check mark in the appropriate cell.
+ Explore HPE 3PAR StoreServ Storage interoperability
+ Explore HPE 3PAR StoreServ Storage interoperability (EXTENDED SUPPORT CONFIGURATIONS)
+ Explore XP (P9000) array interoperability
+ Explore P6000 (EVA) array interoperability
+ Explore HP StoreVirtual 4000 Storage interoperability
+ Explore MSA array interoperability
+ Explore SVSP interoperability
+ Explore legacy array interoperability
+ Explore HP StoreOnce Backup Systems interoperability
+ Explore HP StoreAll Storage Systems interoperability
+ Explore HP StoreEver Tape Automation interoperability
+ Explore HP StoreEver Tape Drive Hardware interoperability (look here for RDX information)
Announcements
» HP StoreOnce Recovery Manager Central Software here and here 24-Dec-2015
» 3PAR Drive Support matrix 10-Dec-2015
» VPT Performance Advisor v5.4 10-Dec-2015
» Short Peer Motion Host Support Matrix streams 14-Dec-2015
» HPE Networking Switches Connec. Ority stream 11-Dec-2015
» StoreVirtual Compatibility matrix 10-Dec-2015
» 3PAR Additional Hardware Support for 3PAR OS 3.3.2 stream 10-Dec-2015
» B-Series FCoE & B-Series FC streams 8-Dec-2015
» B-Series FC Routing/FCIP/Extension

HP Storage SPOCK

3PAR

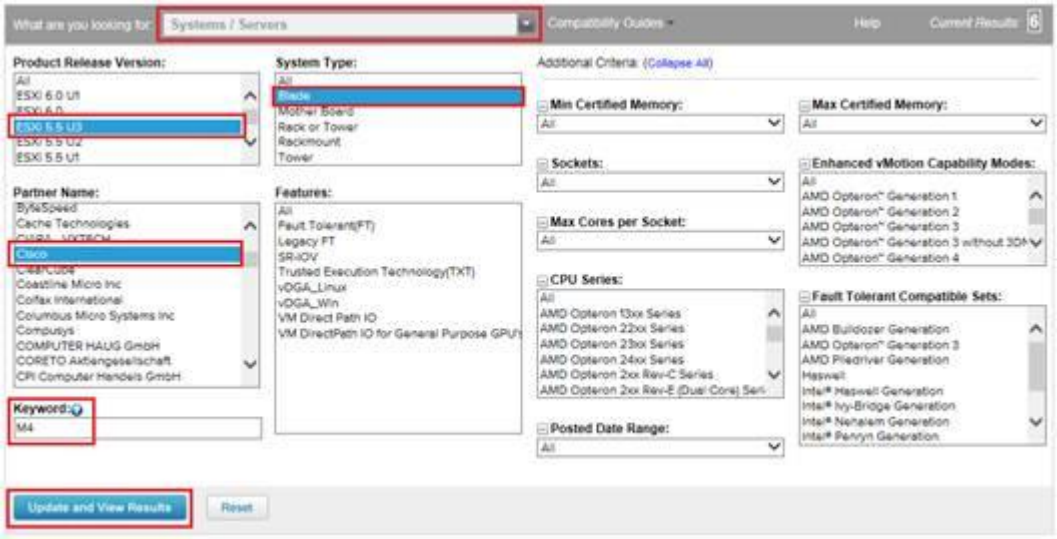
SPOCK Home > Other Hardware > 3PAR

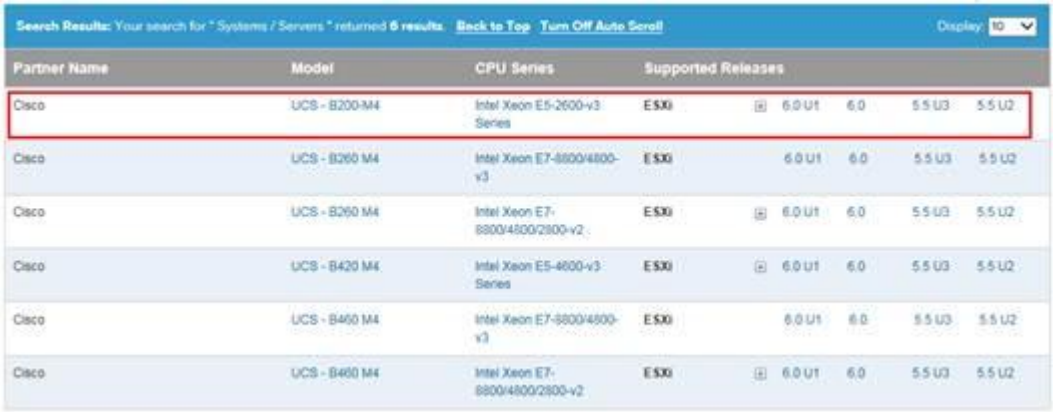
HP 3PAR Additional Hardware Support for 3PAR OS

- HP 3PAR Additional Hardware Support For 3PAR OS 3.2.2 (342 KB PDF, 2015_12_08)
- HP 3PAR Additional Hardware Support For 3PAR OS 3.2.1 (262 KB PDF, 2015_11_02)
- HP 3PAR Additional Hardware Support For 3PAR OS 3.1.3 (252 KB PDF, 2015_11_02)
- HP 3PAR Additional Hardware Support For 3PAR OS 3.1.2 (756 KB PDF, 2015_05_05)
- HP 3PAR Additional Hardware Support For 3PAR OS 3.1.1 (815 KB PDF, 2014_05_29)
- HP 3PAR Legacy HBA Support (23 KB PDF, 2012_04_12)

In addition to the Cisco HCL support, please also refer to the below notes for HP 3PAR support:

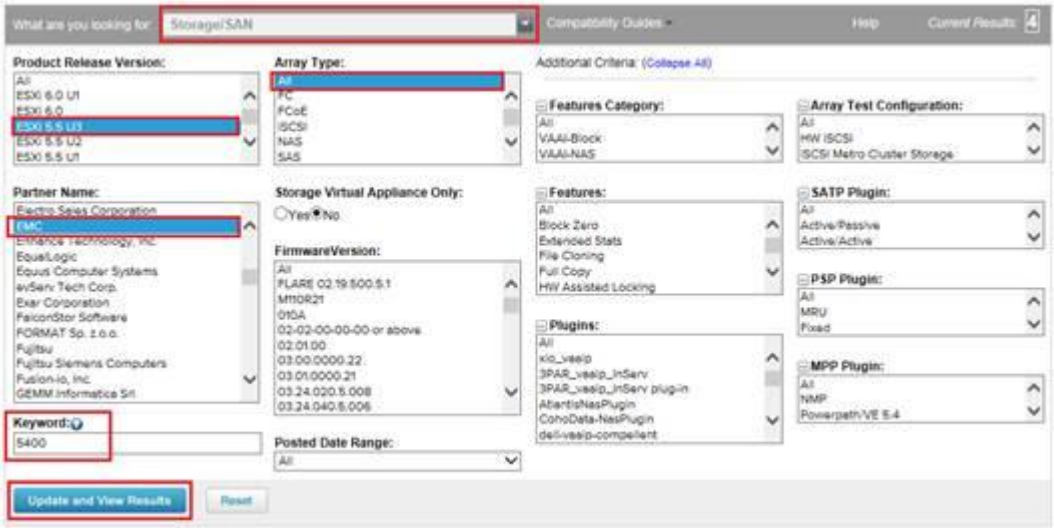
Notes
Microsoft Windows Server Operating System, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES), VMware vSphere (ESX/ESXi), Oracle Solaris, Citrix XenServer
Microsoft Windows Server Operating System, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES), VMware vSphere (ESX/ESXi), Oracle Solaris
Cisco UCS 6200 Series Fabric Interconnects (6248 & 6296)
B-Series blade servers and adapters: M1, M2 with M71KR-E, M71KRQ, M72KR-E, M72KR-Q, M81KR, & VIC1280
B-Series blade servers and adapters: M1, M2, M3 with M71KR-E, M71KRQ, M72KR-E, M72KR-Q, M81KR, VIC1240 & VIC1280
Boot From SAN (BFS)
8GB FC storage target connectivity ONLY (FCoE and iSCSI storage target connectivity is NOT supported)
Please refer to the *Switch Interoperability Matrix* section in the Cisco HCLs
OS Specfic Support Notes
Windows Server (w/Hyper-V) 2008R2SP1 x64 with adapters M81KR, VIC1280 using driver 2.1.0.17 only supported on Qlogic fabric.
Windows Server (w/Hyper-V) 2008R2SP1 x64 with adapters M81KR, VIC1240, VIC1280 using driver 2.1.0.17 only supported on Qlogic fabric.
Windows Server (w/Hyper-V) 2008R2SP1 x64 with adapters M81KR, VIC1240, VIC1280 using driver 2.1.0.18 only supported on Qlogic fabric.
Windows Server (w/Hyper-V) 2008SP2 x64, 2008R2SP1 x64 with UCS adapters M81KR, VIC1240 and VIC1280 using driver 2.1.0.20 only supported on Qlogic fabric.
Windows Server (w/Hyper-V) 2012 x64 with adapters MK81KR, VIC1240, VIC1280 using driver 2.2.0.9 only supported on Qlogic Fabric and Cisco Fabric where Persistent FCID is NOT enabled
Redhat compatible kernel only supported with Oracle Linux.
Refer to Cisco HCL for BFS patch requirements for SLES 11 SP1 x64
ESX 4.x only supported with adapters MK81KR, VIC1240, VIC1280 using driver 1.4.0.201 on Qlogic Fabric, Brocade Fabric and Cisco Fabric where Persistent FCID is NOT enabled
ESX 4.x only supported with adapters MK81KR, VIC1240, VIC1280 using driver 1.4.0.213 on Qlogic Fabric, Brocade Fabric and Cisco Fabric where Persistent FCID is NOT enabled





Search Results: Your search for " Systems / Servers " returned **6 results.** Back to Top Turn Off Auto Scroll Display: 10

Partner Name	Model	CPU Series	Supported Releases				
Cisco	UCS - B200-M4	Intel Xeon E5-2600-v3 Series	ESXi	6.0 U1	6.0	5.5 U3	5.5 U2
Cisco	UCS - B260 M4	Intel Xeon E7-8800/4800-v3	ESXi	6.0 U1	6.0	5.5 U3	5.5 U2
Cisco	UCS - B260 M4	Intel Xeon E7-8800/4800/2800-v2	ESXi	6.0 U1	6.0	5.5 U3	5.5 U2
Cisco	UCS - B420 M4	Intel Xeon E5-4600-v3 Series	ESXi	6.0 U1	6.0	5.5 U3	5.5 U2
Cisco	UCS - B460 M4	Intel Xeon E7-8800/4800-v3	ESXi	6.0 U1	6.0	5.5 U3	5.5 U2
Cisco	UCS - B460 M4	Intel Xeon E7-8800/4800/2800-v2	ESXi	6.0 U1	6.0	5.5 U3	5.5 U2



What are you looking for: Storage/SAN | Compatibility Guides | Help | Current Results: 4

Product Release Version:
All
ESXi 6.0 U1
ESXi 6.0
ESXi 5.5 U3
ESXi 5.5 U2
ESXi 5.5 U1

Array Type:
All
FC
FCoE
iSCSI
NAS
SAS

Additional Criteria: (Collapse All)

Features Category:
All
VAAI-Block
VAAI-NAS

Array Test Configuration:
All
HW iSCSI
iSCSI Metro Cluster Storage

Partner Name:
Electro Sales Corporation
EMC
Enhance Technology, Inc
EqualLogic
Equus Computer Systems
evServ Tech Corp.
Exar Corporation
FalconStor Software
FORMAT Sp. z o.o.
Fujitsu
Fujitsu Siemens Computers
Fusion-io, Inc
GEMM Informatica Srl

Storage Virtual Appliance Only:
Yes / No

FirmwareVersion:
All
FLARE 02.19.500.5.1
M10R21
010A
02-02-00-00-00 or above
02.01.00
03.00.0000.22
03.01.0000.21
03.24.020.5.008
03.24.040.5.006

Features:
All
Block Zero
Extended Stats
File Cloning
Full Copy
HW Assisted Locking

SATP Plugin:
All
Active/Passive
Active/Active

Keyword: 5400

Posted Date Range:
All

Plugins:
All
xio_vaaip
3PAR_vaaip_InServ
3PAR_vaaip_InServ plug-in
AtlantisNasPlugin
ConoData-NasPlugin
dell-vaaip-compellent

PSP Plugin:
All
MRU
Fixed

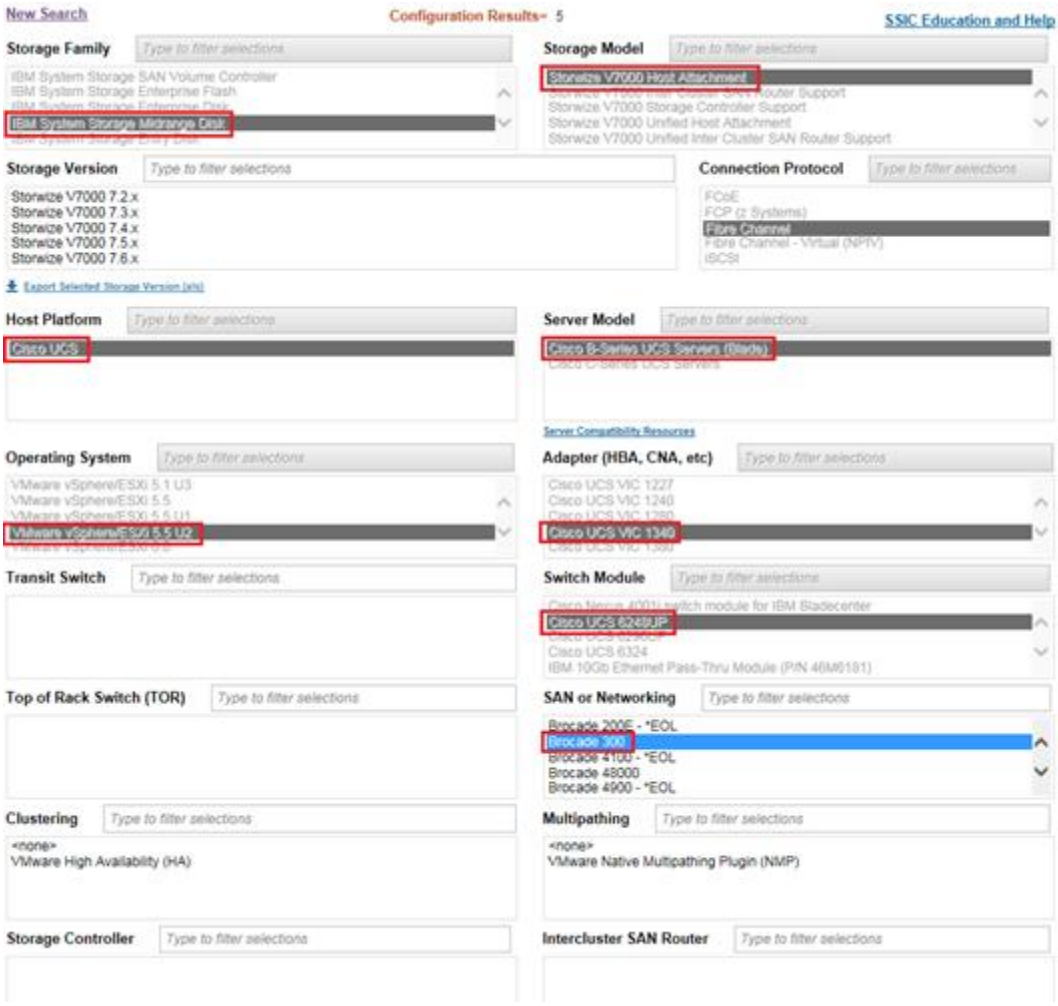
MPP Plugin:
All
NMP
Powerpath/VE 5.4

Update and View Results | Reset

Bookmark | Print | Export to CSV

Search Results: Your search for " Storage/SAN " returned **4 results.** Back to Top Turn Off Auto Scroll Display: 10

Partner Name	Model	Array Type	Supported Releases				
EMC	VNX5400	iSCSI	ESX	4.1 U3	4.1 U2	4.1 U1	4.1
			ESXi	6.0 U1	6.0	5.5 U3	5.5 U2
EMC	VNX5400	FC	ESX	4.1 U3	4.1 U2	4.1 U1	4.1
			ESXi	6.0 U1	6.0	5.5 U3	5.5 U2
EMC	VNX5400	NAS	ESX	4.1 U3	4.1 U2	4.1 U1	4.1
			ESXi	6.0 U1	6.0	5.5 U3	5.5 U2
EMC	VNX5400	FCoE	ESX	4.1 U3	4.1 U2	4.1 U1	4.1
			ESXi	6.0 U1	6.0	5.5 U3	5.5 U2


New Search
Configuration Results= 5
SSIC Education and Help
Storage Family
Type to filter selections
IBM System Storage SAN Volume Controller
IBM System Storage Enterprise Flash
IBM System Storage Midrange Disk
Storage Model
Type to filter selections
Storwize V7000 Host Attachment
Storwize V7000 Storage Controller Support
Storwize V7000 Unified Host Attachment
Storwize V7000 Unified Inter Cluster SAN Router Support
Storage Version
Type to filter selections
Storwize V7000 7.2.x
Storwize V7000 7.3.x
Storwize V7000 7.4.x
Storwize V7000 7.5.x
Storwize V7000 7.6.x
Connection Protocol
Type to filter selections
FCoE
FCP (z Systems)
Fibre Channel
Fibre Channel - Virtual (NPIV)
iSCSI
Export Selected Storage Version (xls)
Host Platform
Type to filter selections
Cisco UCS
Server Model
Type to filter selections
Cisco B-Series UCS Servers (Blade)
Server Compatibility Resources
Operating System
Type to filter selections
VMware vSphere/ESXi 5.1 U3
VMware vSphere/ESXi 5.5
VMware vSphere/ESXi 5.5 U1
VMware vSphere/ESXi 5.5 U2
Adapter (HBA, CNA, etc)
Type to filter selections
Cisco UCS VIC 1227
Cisco UCS VIC 1240
Cisco UCS VIC 1340
Transit Switch
Type to filter selections
Switch Module
Type to filter selections
Cisco UCS 6248UP
Cisco UCS 6324
IBM 10Gb Ethernet Pass-Thru Module (P/N 46M6181)
Top of Rack Switch (TOR)
Type to filter selections
SAN or Networking
Type to filter selections
Brocade 200E - *EOL
Brocade 300
Brocade 4100 - *EOL
Brocade 48000
Brocade 4900 - *EOL
Clustering
Type to filter selections
<none>
VMware High Availability (HA)
Multipathing
Type to filter selections
<none>
VMware Native Multipathing Plugin (NMP)
Storage Controller
Type to filter selections
Intercluster SAN Router
Type to filter selections

IBM System Storage Interoperation Center (SSIC)

New Search | Export Data (xls format) | SSIC Education and Help

Revise Selected Criteria (1) Storage Family, (2) Storage Model, (3) Host Platform, (4) Server Model, (5) Operating System, (6) Adapter (HBA, CNA, etc), (7) SAN or Networking, (8) Switch Module

Configuration	Name	
Storage Family:	IBM System Storage Midrange Disk	[Change]
Storage Model:	Storwize V7000 Host Attachment	[Change]
Host Platform:	Cisco UCS	[Change]
Server Model:	Cisco B-Series UCS Servers (Blade)	[Change]
Operating System:	VMware vSphere/ESXi 5.5 U2	[Change]
Adapter (HBA, CNA, etc):	Cisco UCS VIC 1340	[Change]
SAN or Networking:	Brocade 300	[Change]
Switch Module:	Cisco UCS 6248UP	[Change]
Connectivity:	Fibre Channel	

IBM Systems > Support >

IBM System Storage Interoperation Center (SSIC)

Download Summary

New Search

Back to Interoperability Search Results

The data has been successfully exported to IBM_Interop_01042016105053.xls file. Click the button below to download it.

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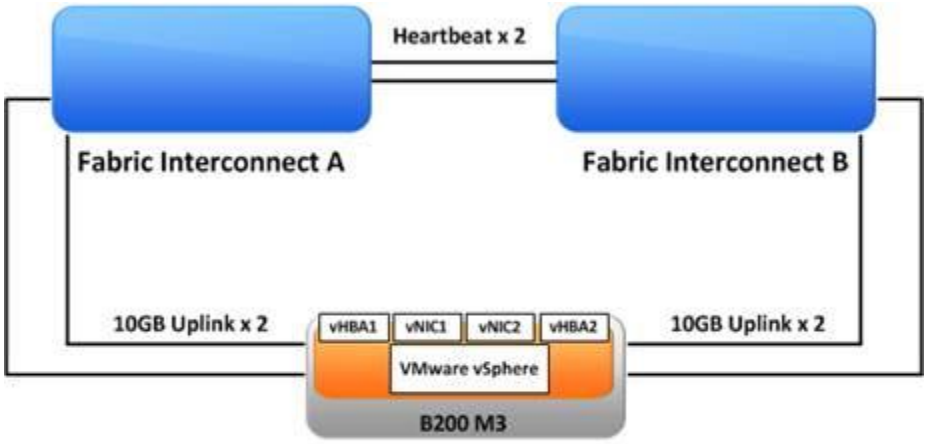
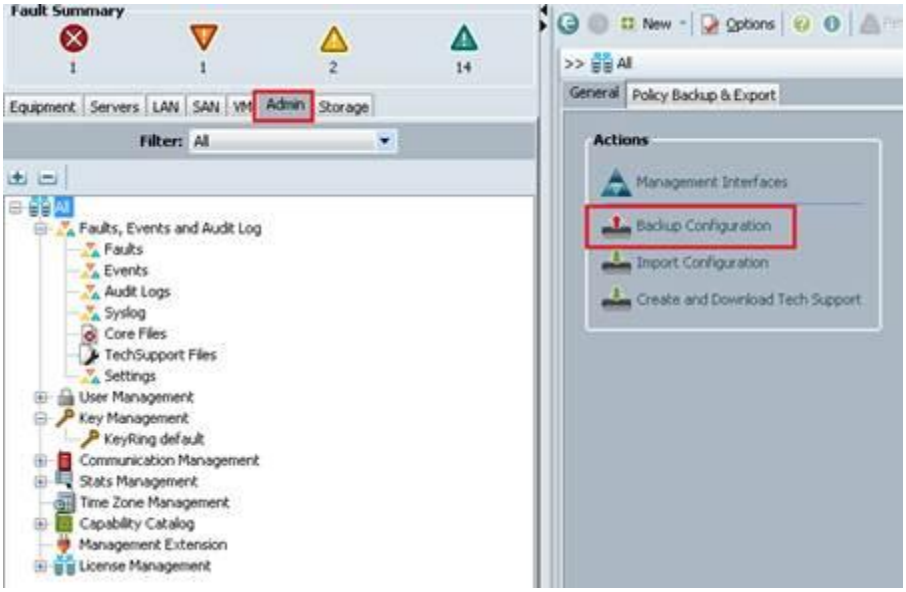
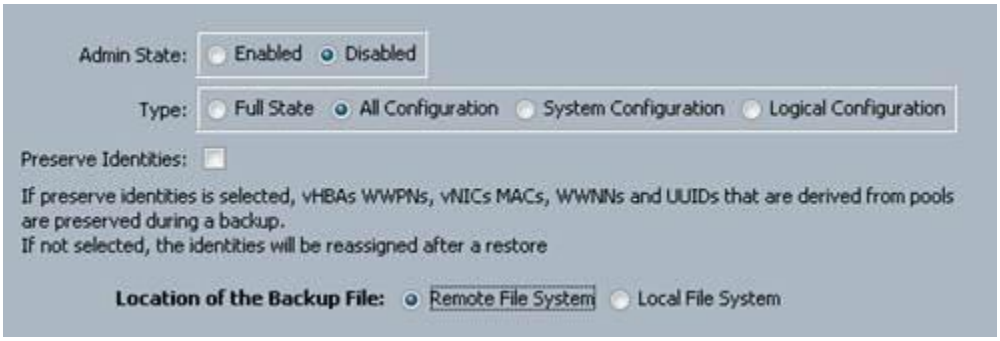
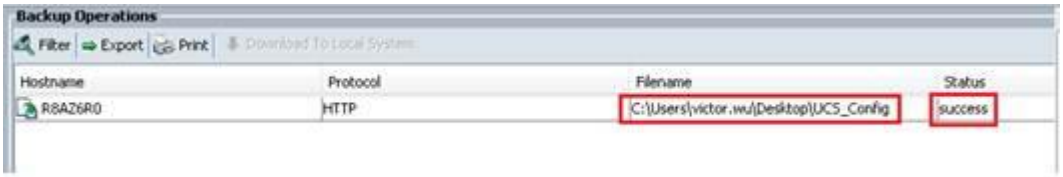
Chapter 7:Cisco UCS Backup Solutions

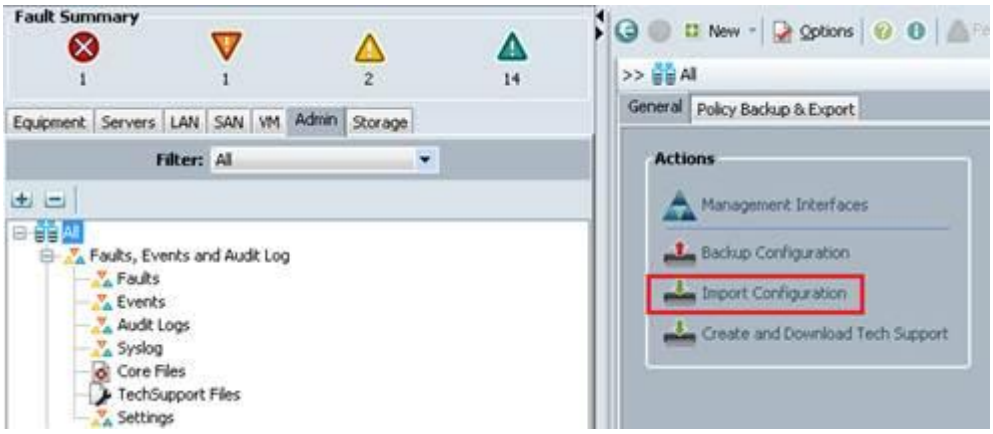

Heartbeat x 2
Fabric Interconnect A
Fabric Interconnect B
10GB Uplink x 2
vHBA1
vNIC1
vNIC2
vHBA2
10GB Uplink x 2
VMware vSphere
B200 M3
Cisco UCS 5108 Chassis

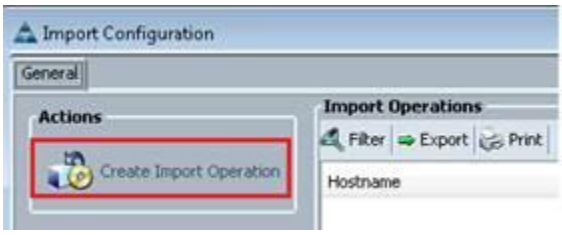

Fault Summary
1
1
2
14
Equipment
Servers
LAN
SAN
VM
Admin
Storage
Filter: All
Faults, Events and Audit Log
Faults
Events
Audit Logs
Syslog
Core Files
TechSupport Files
Settings
User Management
Key Management
KeyRing default
Communication Management
Stats Management
Time Zone Management
Capability Catalog
Management Extension
License Management
New
Options
All
General
Policy Backup & Export
Actions
Management Interfaces
Backup Configuration
Import Configuration
Create and Download Tech Support

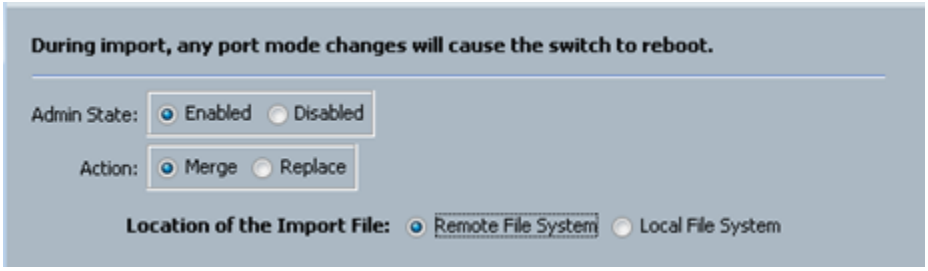
Backup Configuration
General
Actions
Create Backup Operation
Backup Operations
Filter
Export
Print
Hostname

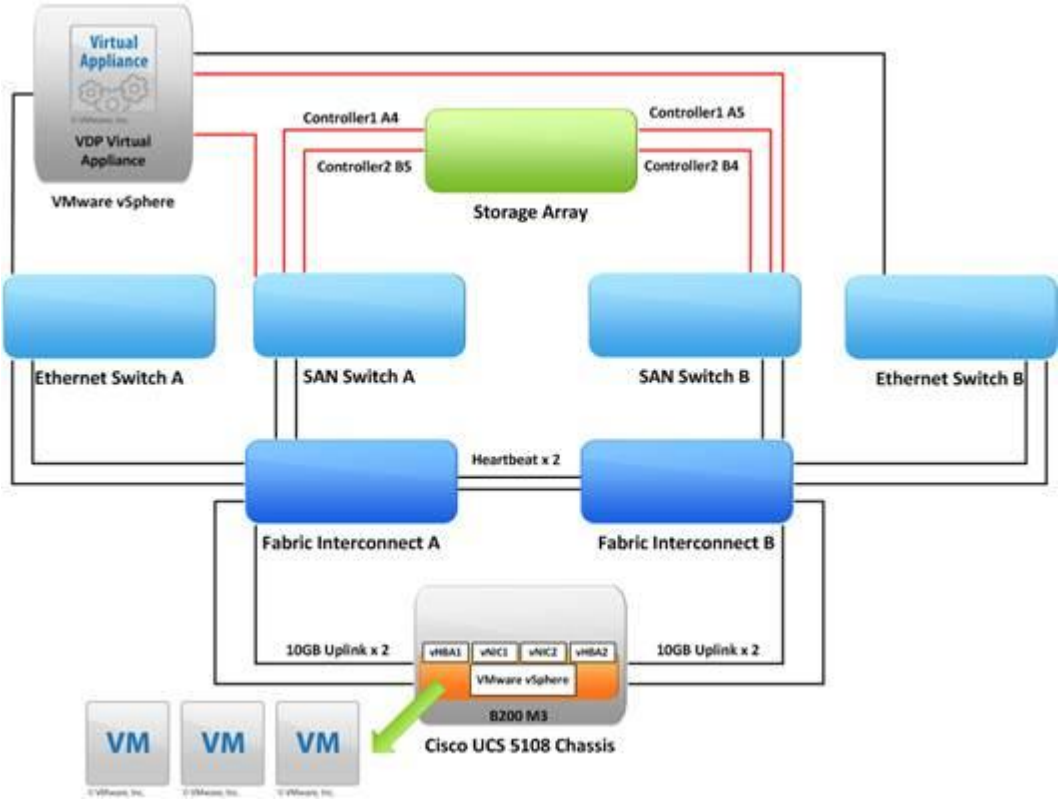

Admin State:
Enabled
Disabled
Type:
Full State
All Configuration
System Configuration
Logical Configuration
Preserve Identities:
If preserve identities is selected, vHBAs WWPNs, vNICs MACs, WWNNs and UUIDs that are derived from pools are preserved during a backup.
If not selected, the identities will be reassigned after a restore
Location of the Backup File:
Remote File System
Local File System

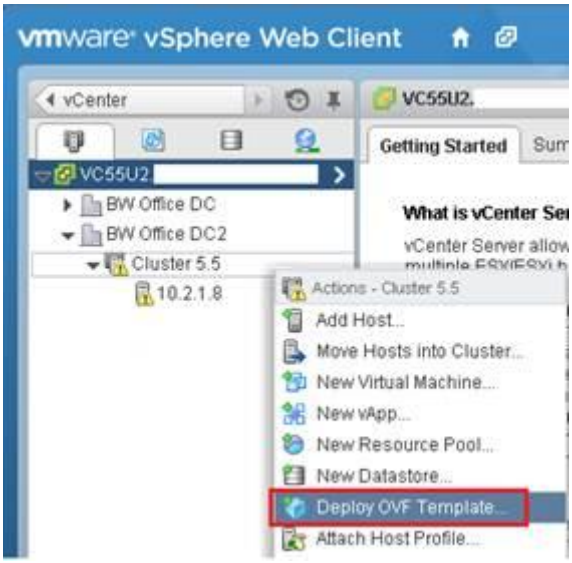

Backup Operations
Filter
Export
Print
Download To Local System
Hostname
Protocol
Filename
Status
R8AZ6R0
HTTP
C:\Users\victor.wu\Desktop\UCS_Config
success

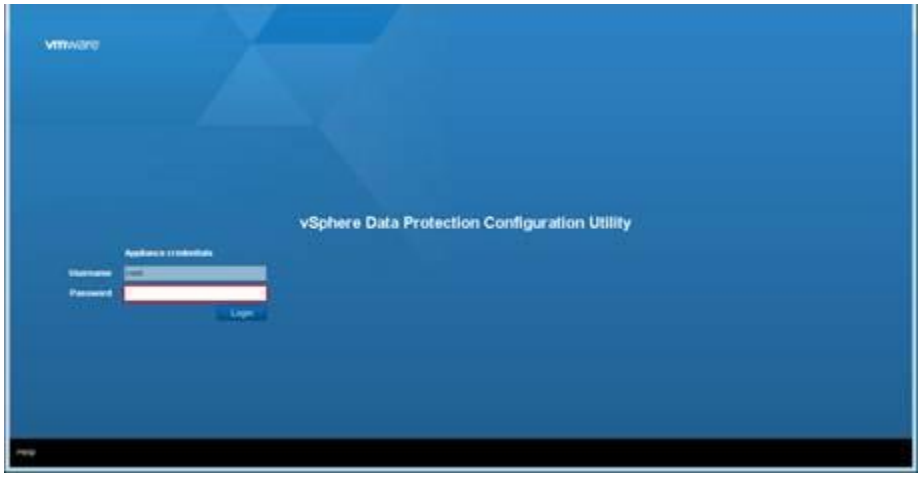

Fault Summary
1
1
2
14
Equipment
Servers
LAN
SAN
VM
Admin
Storage
Filter:
All
Faults, Events and Audit Log
Faults
Events
Audit Logs
Syslog
Core Files
TechSupport Files
Settings
New
Options
All
General
Policy Backup & Export
Actions
Management Interfaces
Backup Configuration
Import Configuration
Create and Download Tech Support

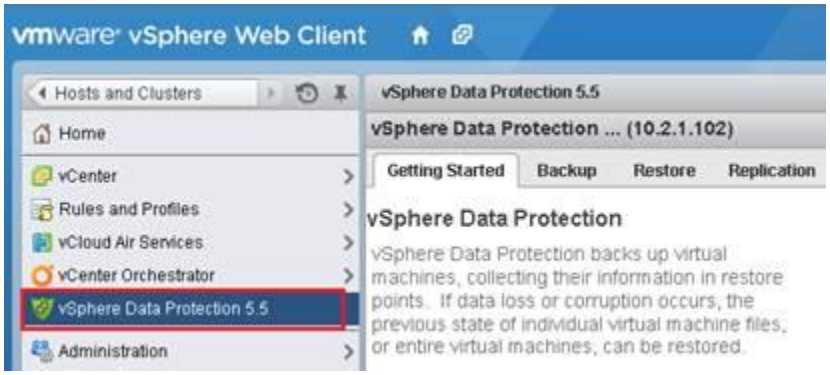

Import Configuration
General
Actions
Create Import Operation
Import Operations
Filter
Export
Print
Hostname


During import, any port mode changes will cause the switch to reboot.
Admin State:
Enabled
Disabled
Action:
Merge
Replace
Location of the Import File:
Remote File System
Local File System


Virtual Appliance
VDP Virtual Appliance
VMware vSphere
Controller1 A4
Controller1 A5
Controller2 B5
Controller2 B4
Storage Array
Ethernet Switch A
SAN Switch A
SAN Switch B
Ethernet Switch B
Heartbeat x 2
Fabric Interconnect A
Fabric Interconnect B
10GB Uplink x 2
10GB Uplink x 2
vHBA1
vNIC1
vNIC2
vHBA2
VMware vSphere
B200 M3
Cisco UCS 5108 Chassis
VM
VM
VM


vmware vSphere Web Client
vCenter
VC55U2
Getting Started
VC55U2
BW Office DC
BW Office DC2
Cluster 5.5
10.2.1.8
Actions - Cluster 5.5
Add Host...
Move Hosts into Cluster...
New Virtual Machine...
New vApp...
New Resource Pool...
New Datastore...
Deploy OVF Template...
Attach Host Profile...


vmware
vSphere Data Protection Configuration Utility


vmware vSphere Web Client
Hosts and Clusters
Home
vCenter
Rules and Profiles
vCloud Air Services
vCenter Orchestrator
vSphere Data Protection 5.5
Administration
vSphere Data Protection 5.5
vSphere Data Protection ... (10.2.1.102)
Getting Started
Backup
Restore
Replication
vSphere Data Protection
vSphere Data Protection backs up virtual machines, collecting their information in restore points. If data loss or corruption occurs, the previous state of individual virtual machine files, or entire virtual machines, can be restored.

vSphere Data Protection 5.5
vSphere Data Protection ... (10.2.1.102)
Switch Appliance
All Actions
Getting Started
Backup
Restore
Replication
Reports
Configuration
vSphere Data Protection
vSphere Data Protection backs up virtual machines, collecting their information in restore points. If data loss or corruption occurs, the previous state of individual virtual machine files, or entire virtual machines, can be restored.
Users determine when vSphere Data Protection tasks are run and how long restore points are saved. For example, users might schedule backups for early morning hours and the resulting restore points might be retained for weeks, months, or years.
Basic Tasks
Add a VDP advanced license
Create Backup Job
Restore Backup
See an Overview

Create a new backup job
1 Data Type
2 Backup Targets
3 Schedule
4 Retention Policy
5 Job Name
6 Ready to Complete
Data Type
Select the type of the backup you wish to perform.
Full Image
Select this option to backup full virtual machine images.
Individual Disks
Select this option to backup individual virtual machine disks.

Schedule

The schedule determines how often your selections will be backed up. Backups will occur as close to the start of the backup window as possible.

Backup schedule: ◉ Daily

○ Weekly performed every Sunday

○ The first Sunday of every month

Start Time on Server: 8 : 00 PM

Retention Policy

The retention policy determines how long backups are retained. After this time period expires, they are deleted from the system.

Keep: ○ Forever

◉ for 60 day(s)

○ until 03/10/2016

○ this Schedule:

Daily for: 60 day(s)

Weekly for: 0 week(s)

Monthly for: 0 month(s)

Yearly for: 0 year(s)

Job Name

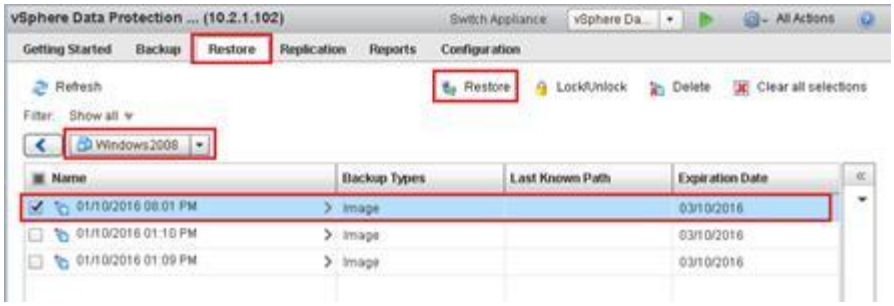
Specify the backup job name.

Name:

The backup job name is required and must be unique

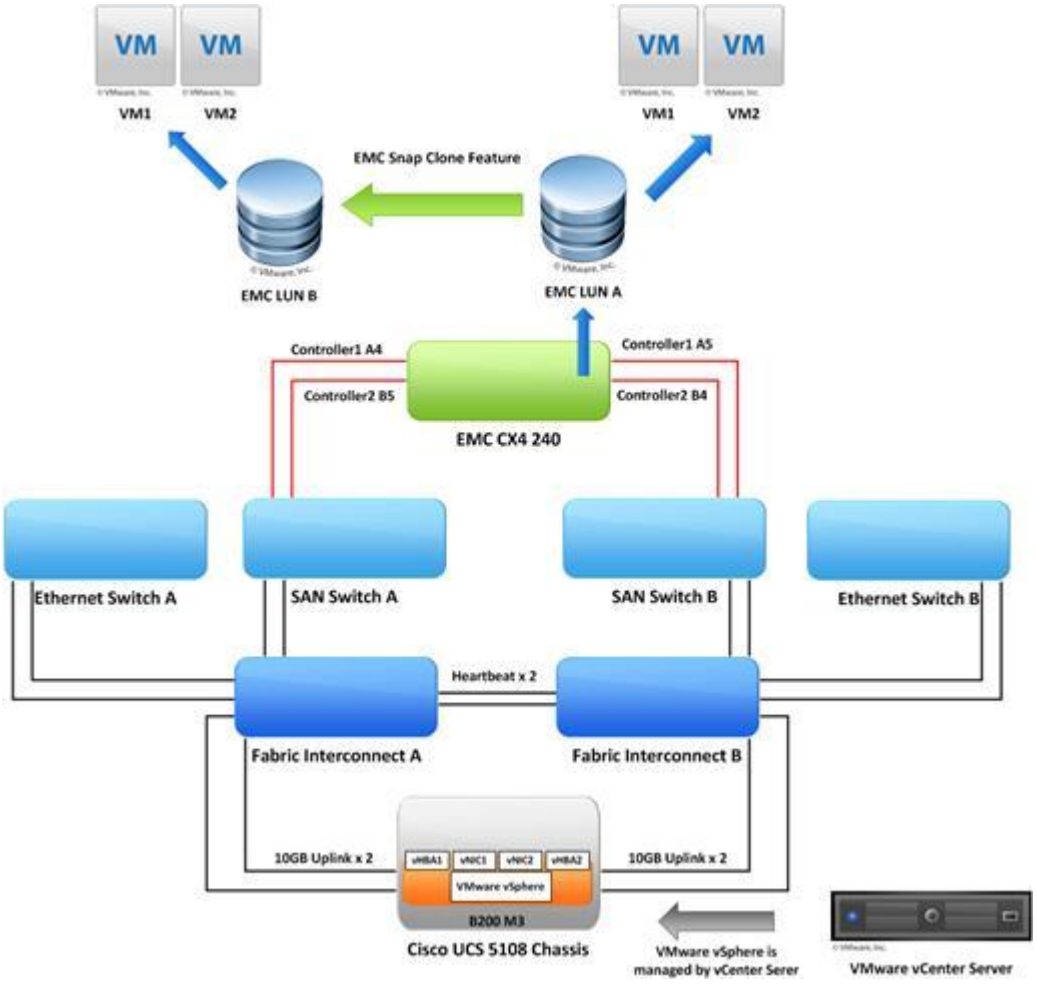
Back | Next | Finish | Cancel

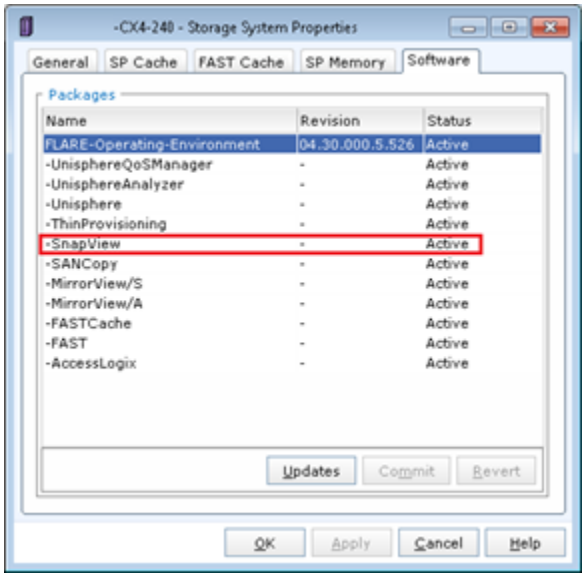
vSphere Data Protection ... (10.2.1.102)
Switch Appliance:
vSphere Da...
All Actions
Getting Started
Backup
Restore
Replication
Reports
Configuration
Refresh
Backup job actions
Backup now
Name
State
Type
Last Start Time
Duration
Next Run Time
Success
Failure Count
backup_job1
Enabled
Image
01/10/2016 12:59 PM
0h:10m:12s
01/10/2016 08:00 PM
1
0

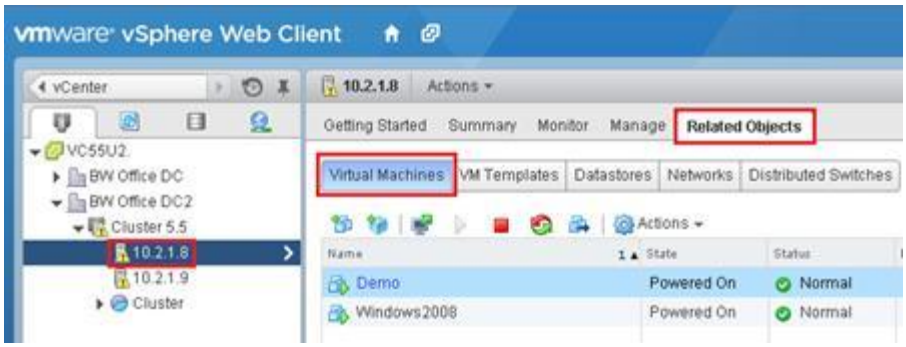

vSphere Data Protection ... (10.2.1.102)
Switch Appliance:
vSphere Da...
All Actions
Getting Started
Backup
Restore
Replication
Reports
Configuration
Refresh
Restore
Lock/Unlock
Delete
Clear all selections
Filter:
Show all
Windows2008
Name
Backup Types
Last Known Path
Expiration Date
01/10/2016 08:01 PM
Image
03/10/2016
01/10/2016 01:10 PM
Image
03/10/2016
01/10/2016 01:09 PM
Image
03/10/2016

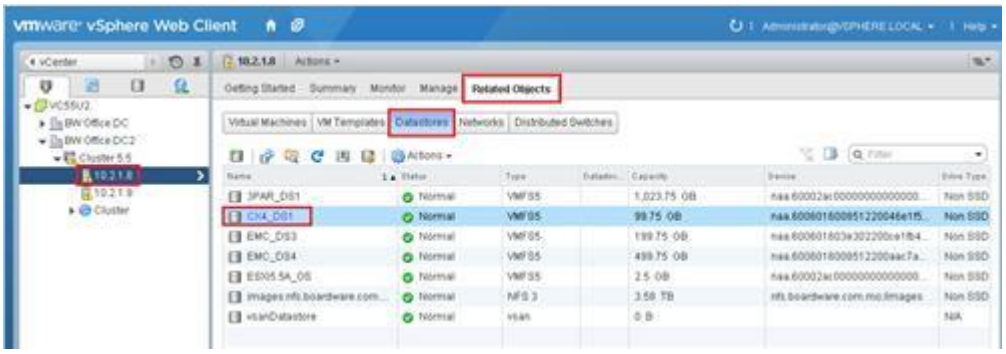
Select Backup
Verify that the list of backups to restore is correct and remove any that you wish to exclude from the restore operation.
Selected Items
Windows2008
01/10/2016 08:01 PM

Set Restore Options
Set the restore options for each backup that you are restoring.
Client: Windows2008
Backup: 01/10/2016 08:01 PM
Restore to original location
Advanced options
Datastore:
Power On
Reconnect NIC
Back
Next
Finish
Cancel


VM
VM
VM1
VM2
VM
VM
VM1
VM2
EMC Snap Clone Feature
EMC LUN B
EMC LUN A
Controller1 A4
Controller1 A5
Controller2 B5
Controller2 B4
EMC CX4 240
Ethernet Switch A
SAN Switch A
SAN Switch B
Ethernet Switch B
Heartbeat x 2
Fabric Interconnect A
Fabric Interconnect B
10GB Uplink x 2
vHBA1
vNIC1
vNIC2
vHBA2
VMware vSphere
B200 M3
10GB Uplink x 2
Cisco UCS 5108 Chassis
VMware vSphere is
managed by vCenter Serer
VMware vCenter Server

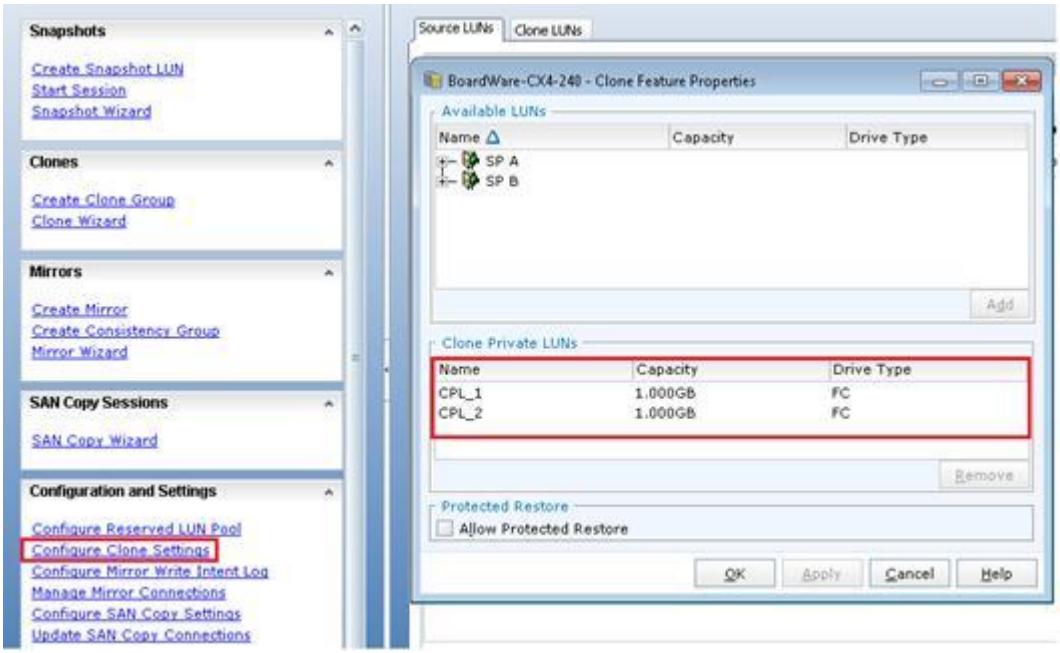

-CX4-240 - Storage System Properties
General
SP Cache
FAST Cache
SP Memory
Software
Packages
Name
Revision
Status
FLARE-Operating-Environment
04.30.000.5.526
Active
-UnisphereQoSManager
-UnisphereAnalyzer
-Unisphere
-ThinProvisioning
-SnapView
-SANCopy
-MirrorView/S
-MirrorView/A
-FASTCache
-FAST
-AccessLogix
Updates
Commit
Revert
OK
Apply
Cancel
Help

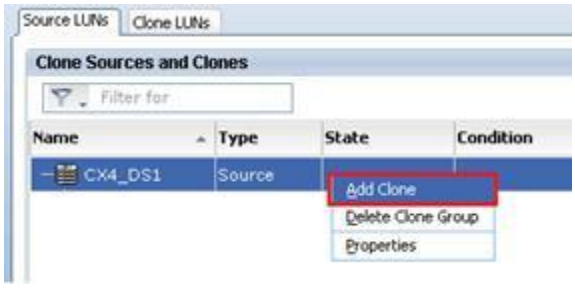

vmware vSphere Web Client
vCenter
10.2.1.8
Actions
Getting Started
Summary
Monitor
Manage
Related Objects
VC55U2
BW Office DC
BW Office DC2
Cluster 5.5
10.2.1.8
10.2.1.9
Cluster
Virtual Machines
VM Templates
Datastores
Networks
Distributed Switches
Actions
Name
State
Status
Demo
Powered On
Normal
Windows2008
Powered On
Normal

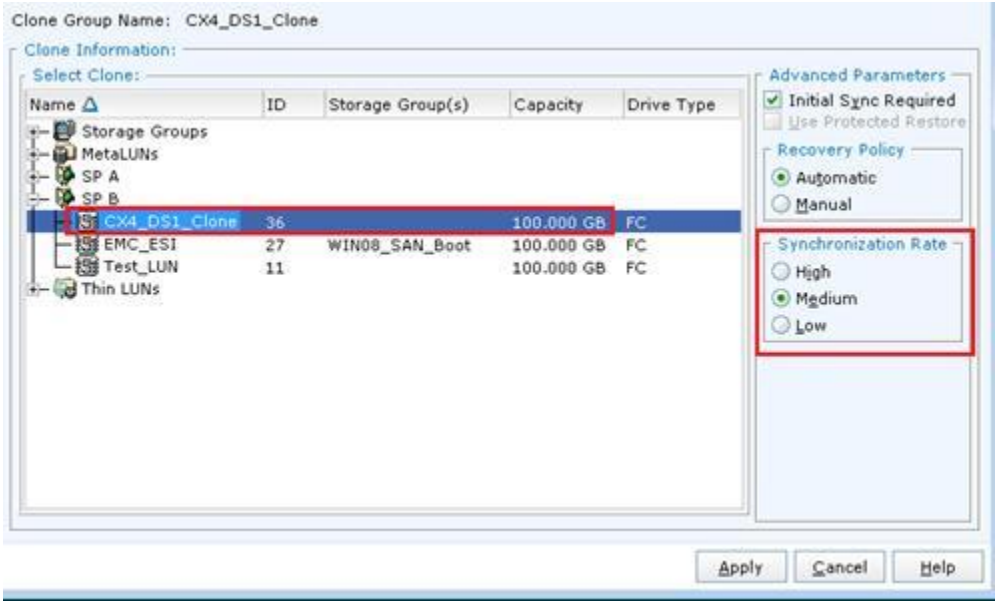

vmware vSphere Web Client
Related Objects
Datastores

EMC Unisphere
System
Storage
Hosts
Replicas
Monitoring
Settings
Support
Summary
Disks
Pools/RAID Groups
LUNs
Storage Groups
Folders
Storage Pools
Create Storage Pool
Manage Auto-Tiering
LUNs
Create LUN
LUN Migration Summary
Storage Expansion Wizard
Name
ID
User Capacity (GB)
Current Owner
Host Information
FAST Cache
CX4_DS1
CX4_DS2
EMC_DS3
EMC_DS4
100.000 SP A
10.000 SP B
200.000 SP A
500.000 SP A

System
Storage
Hosts
Replicas
Monitoring
Settings
Support
Source LUNs
Clone LUNs
Clone Sources and Clones
Name
Type
State
Condition
Host Informat...
RAID Type
Storage Pool
User Capac...
Clone Group Name
CX4_DS1
Source
esxi55b.boar...
RAID5
RAID Group 2
100.000
CX4_DS1_Clone

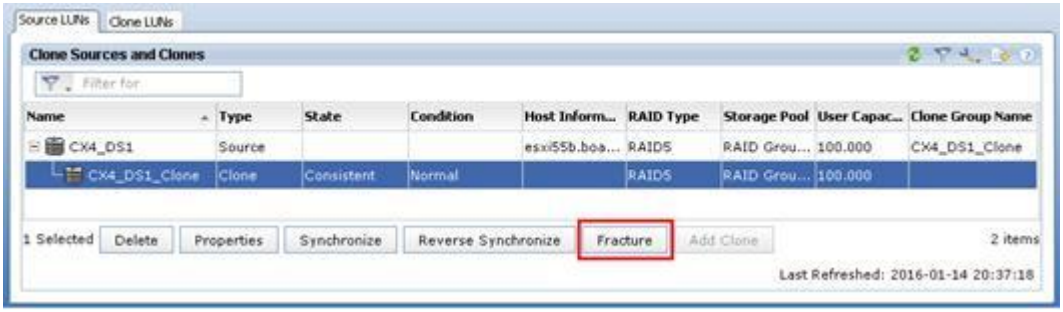

Snapshots
Create Snapshot LUN
Start Session
Snapshot Wizard
Clones
Create Clone Group
Clone Wizard
Mirrors
Create Mirror
Create Consistency Group
Mirror Wizard
SAN Copy Sessions
SAN Copy Wizard
Configuration and Settings
Configure Reserved LUN Pool
Configure Clone Settings
Configure Mirror Write Intent Log
Manage Mirror Connections
Configure SAN Copy Settings
Update SAN Copy Connections
Source LUNs
Clone LUNs
BoardWare-CX4-240 - Clone Feature Properties
Available LUNs
Name
Capacity
Drive Type
SP A
SP B
Add
Clone Private LUNs
Name
Capacity
Drive Type
CPL_1
1.000GB
FC
CPL_2
1.000GB
FC
Remove
Protected Restore
Allow Protected Restore
OK
Apply
Cancel
Help


Source LUNs
Clone LUNs
Clone Sources and Clones
Filter for
Name
Type
State
Condition
CX4_DS1
Source
Add Clone
Delete Clone Group
Properties


Clone Group Name: CX4_DS1_Clone
Clone Information:
Select Clone:
Name
ID
Storage Group(s)
Capacity
Drive Type
Storage Groups
MetaLUNs
SP A
SP B
CX4_DS1_Clone
36
100.000 GB
FC
EMC_ESI
27
WIN08_SAN_Boot
100.000 GB
FC
Test_LUN
11
100.000 GB
FC
Thin LUNs
Advanced Parameters
Initial Sync Required
Use Protected Restore
Recovery Policy
Automatic
Manual
Synchronization Rate
High
Medium
Low
Apply
Cancel
Help

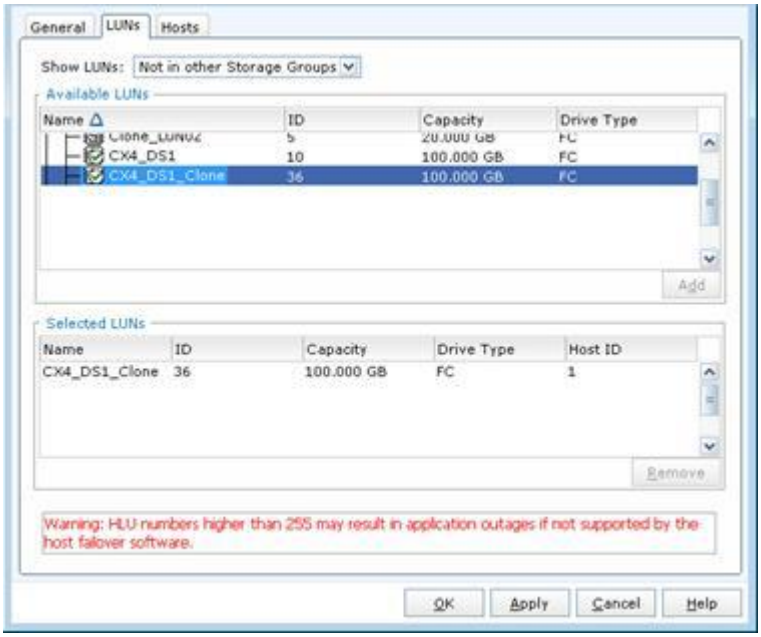
Source LUNs
Clone LUNs
Clone Sources and Clones
Filter for
Name
Type
State
Condition
Host Inform...
RAID Type
Storage Pool
User Capa...
Clone Group Na...
CX4_DS1
Source
esxi55b.boa...
RAID5
RAID Grou...
100.000
CX4_DS1_Clone
CX4_DS1_Clone
Clone
Synchronizing
Synchronizing
RAID5
RAID Grou...
100.000

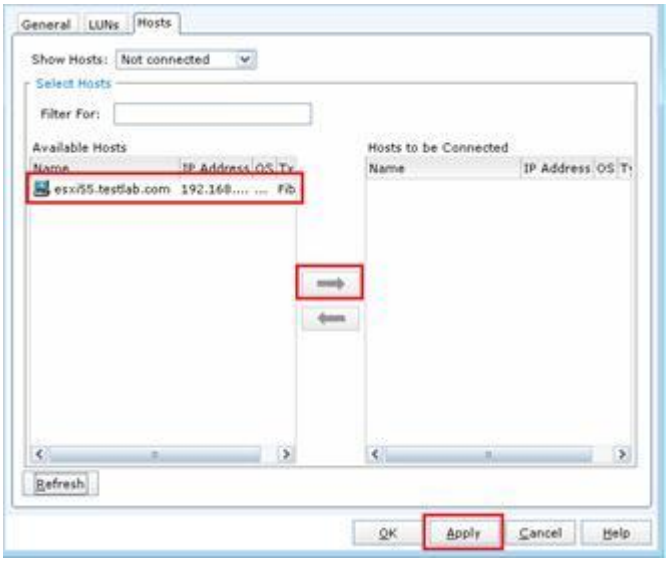
Source LUNs
Clone LUNs
Clone Sources and Clones
Filter for
Name
Type
State
Condition
Host Inform...
RAID Type
Storage Pool
User Capac...
Clone Group Name
CX4_DS1
Source
esxi55b.boa...
RAID5
RAID Grou...
100.000
CX4_DS1_Clone
CX4_DS1_Clone
Clone
Consistent
Normal
RAID5
RAID Grou...
100.000

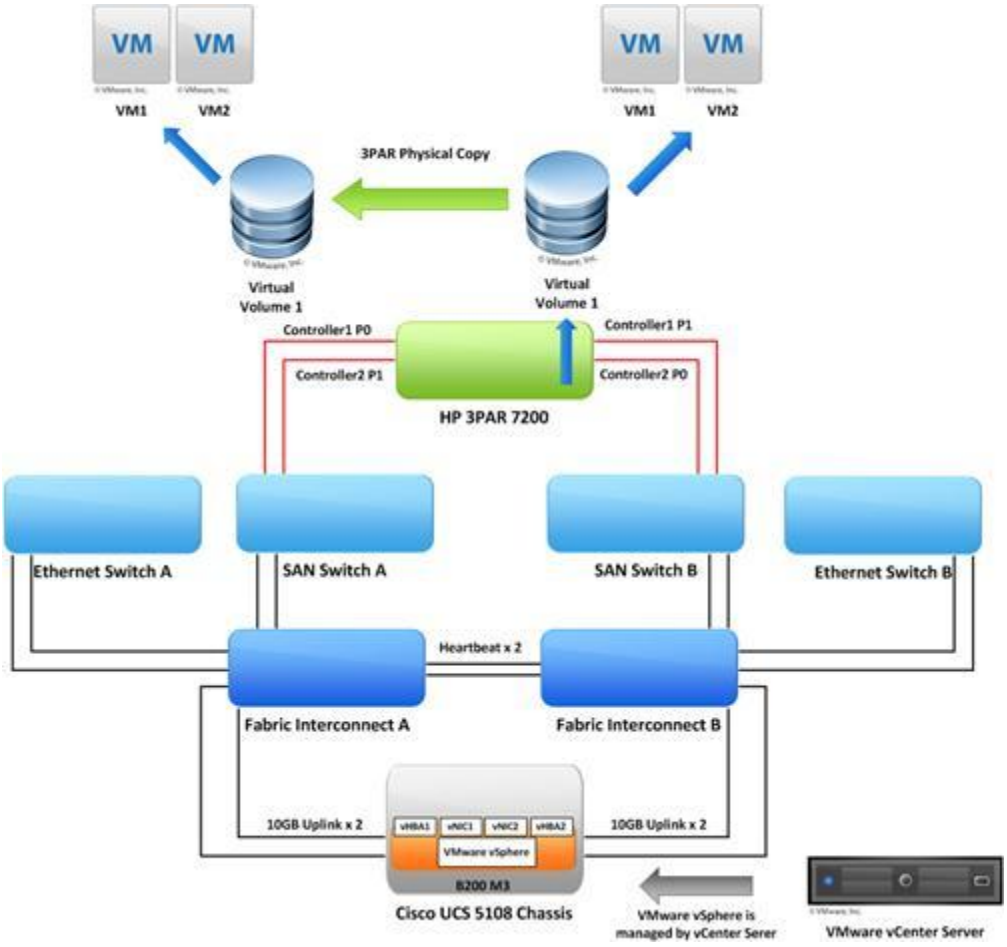

Source LUNs
Clone LUNs
Clone Sources and Clones
Filter for
Name
Type
State
Condition
Host Inform...
RAID Type
Storage Pool
User Capac...
Clone Group Name
CX4_DS1
Source
esxi55b.boa...
RAID5
RAID Grou...
100.000
CX4_DS1_Clone
CX4_DS1_Clone
Clone
Consistent
Normal
RAID5
RAID Grou...
100.000
1 Selected
Delete
Properties
Synchronize
Reverse Synchronize
Fracture
Add Clone
2 items
Last Refreshed: 2016-01-14 20:37:18

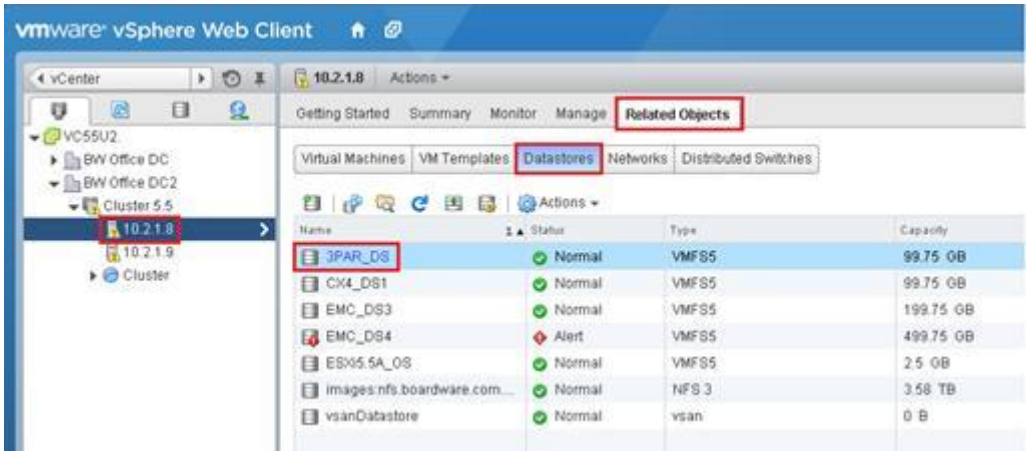
Source LUNs
Clone LUNs
Clone Sources and Clones
Filter for
Name
Type
State
Condition
Host Infor...
RAID Type
Storage P...
User Capac...
Clone Group ...
CX4_DS1
Source
esxi55b.bo...
RAID5
RAID Gro...
100.000
CX4_DS1_Cl...
CX4_DS1_Clone
Clone
Consistent
Administratively Fractured
RAID5
RAID Gro...
100.000

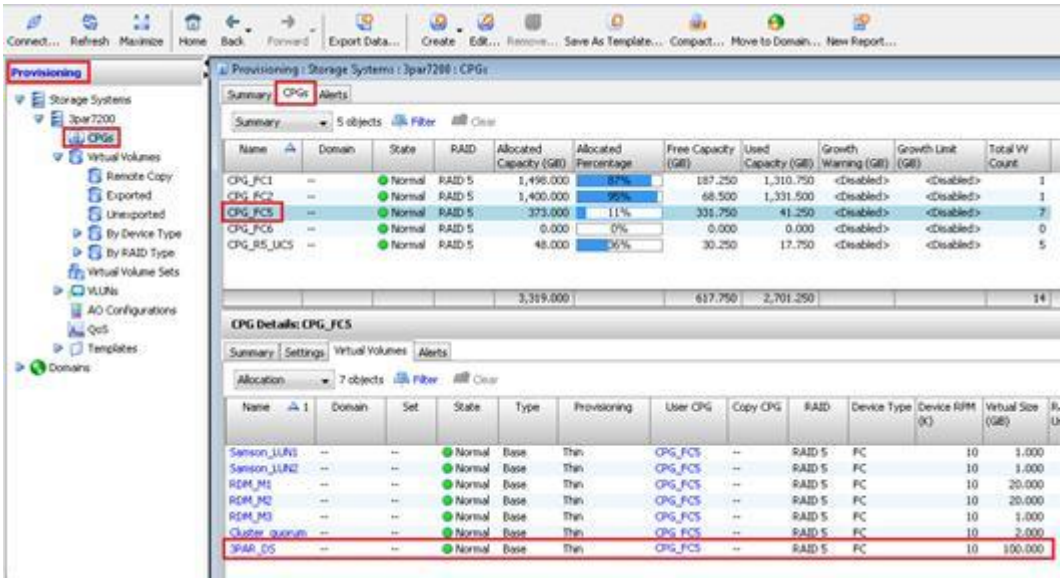
Storage
Hosts
Data Protection
Settings
Host List
Virtualization
Storage Groups
Initiators
Common Host Tasks
Assign LUNs to Host

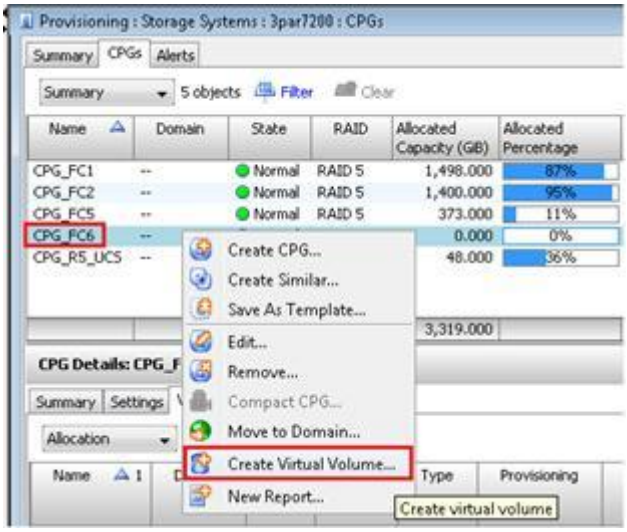

General
LUNs
Hosts
Show LUNs:
Not in other Storage Groups
Available LUNs
Name
ID
Capacity
Drive Type
CX4_DS1
10
100.000 GB
FC
CX4_DS1_Clone
36
100.000 GB
FC
Add
Selected LUNs
Name
ID
Capacity
Drive Type
Host ID
CX4_DS1_Clone
36
100.000 GB
FC
1
Remove
Warning: HLU numbers higher than 255 may result in application outages if not supported by the host failover software.
OK
Apply
Cancel
Help

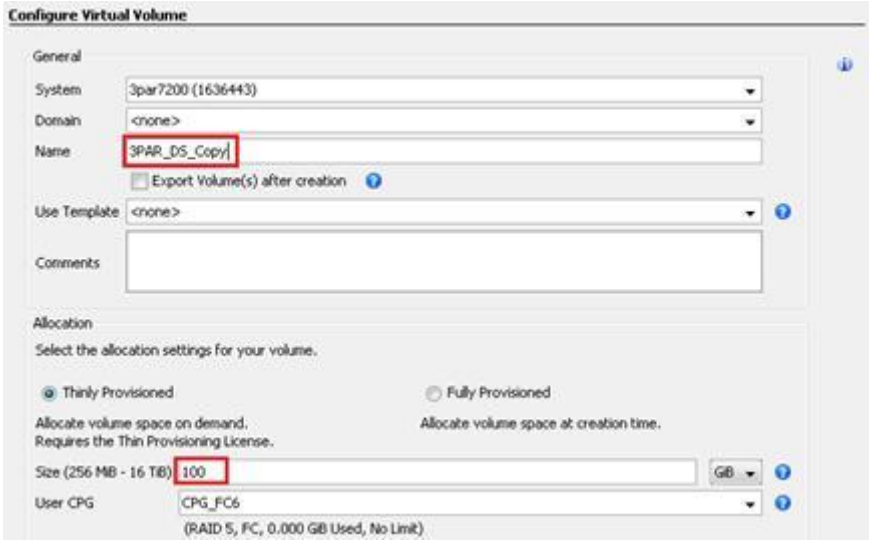

General
LUNs
Hosts
Show Hosts:
Not connected
Select Hosts
Filter For:
Available Hosts
Name
IP Address
OS
Ty
esxi55.testlab.com
192.168.... ...
Fib
Hosts to be Connected
Name
IP Address
OS
T
Refresh
OK
Apply
Cancel
Help


VM
VM
VM1
VM2
VM
VM
VM1
VM2
3PAR Physical Copy
Virtual Volume 1
Virtual Volume 1
Controller1 P0
Controller2 P1
Controller1 P1
Controller2 P0
HP 3PAR 7200
Ethernet Switch A
SAN Switch A
SAN Switch B
Ethernet Switch B
Heartbeat x 2
Fabric Interconnect A
Fabric Interconnect B
10GB Uplink x 2
10GB Uplink x 2
vHBA1
vNIC1
vNIC2
vHBA2
VMware vSphere
B200 M3
Cisco UCS 5108 Chassis
VMware vSphere is managed by vCenter Serer
VMware vCenter Server

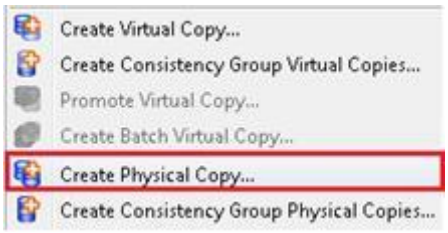

vmware vSphere Web Client
vCenter
10.2.1.8
Actions
Getting Started
Summary
Monitor
Manage
Related Objects
VC55U2
BW Office DC
BW Office DC2
Cluster 5.5
10.2.1.8
10.2.1.9
Cluster
Virtual Machines
VM Templates
Datastores
Networks
Distributed Switches
Actions
Name
Status
Type
Capacity
3PAR_DS
Normal
VMFS5
99.75 GB
CX4_DS1
Normal
VMFS5
99.75 GB
EMC_DS3
Normal
VMFS5
199.75 GB
EMC_DS4
Alert
VMFS5
499.75 GB
ESXi5.5A_OS
Normal
VMFS5
2.5 GB
images:nfs.boardware.com...
Normal
NFS 3
3.58 TB
vsanDatastore
Normal
vsan
0 B


Connect...
Refresh
Maximize
Home
Back
Forward
Export Data...
Create
Edit...
Remove...
Save As Template...
Compact...
Move to Domain...
New Report...
Provisioning
Storage Systems
3par7200
CPGs
Virtual Volumes
Remote Copy
Exported
Unexported
By Device Type
By RAID Type
Virtual Volume Sets
VLUNs
AO Configurations
QoS
Templates
Domains
Provisioning : Storage Systems : 3par7200 : CPGs
Summary
CPGs
Alerts
5 objects
Filter
Name
Domain
State
RAID
Allocated Capacity (GB)
Allocated Percentage
Free Capacity (GB)
Used Capacity (GB)
Growth Warning (GB)
Growth Limit (GB)
Total VV Count
CPG_FC1
CPG_FC2
CPG_FC5
CPG_FC6
CPG_R5_UCS
Normal
RAID 5
1,498.000
1,400.000
373.000
0.000
48.000
87%
96%
11%
0%
56%
187.250
68.500
331.750
0.000
30.250
1,310.750
1,331.500
41.250
0.000
17.750
<Disabled>
3,319.000
617.750
2,701.250
14
CPG Details: CPG_FC5
Summary
Settings
Virtual Volumes
Alerts
Allocation
7 objects
Filter
Name
Domain
Set
State
Type
Provisioning
User CPG
Copy CPG
RAID
Device Type
Device RPM (K)
Virtual Size (GB)
Samson_LUN1
Samson_LUN2
RDM_M1
RDM_M2
RDM_M3
Cluster_quorum
3PAR_DS
Base
Thin
FC
1.000
20.000
100.000

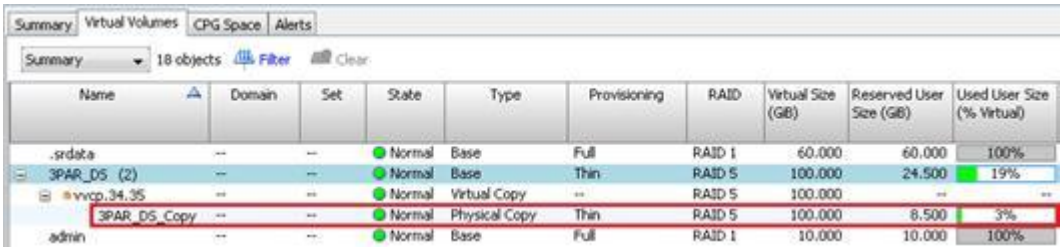

Provisioning : Storage Systems : 3par7200 : CPGs
Summary
CPGs
Alerts
Summary
5 objects
Filter
Clear
Name
Domain
State
RAID
Allocated Capacity (GiB)
Allocated Percentage
CPG_FC1 -- Normal RAID 5 1,498.000 87%
CPG_FC2 -- Normal RAID 5 1,400.000 95%
CPG_FC5 -- Normal RAID 5 373.000 11%
CPG_FC6 -- 0.000 0%
CPG_R5_UC5 -- 48.000 36%
3,319.000
CPG Details: CPG_F
Summary
Settings
Allocation
Name
Type
Provisioning
Create CPG...
Create Similar...
Save As Template...
Edit...
Remove...
Compact CPG...
Move to Domain...
Create Virtual Volume...
New Report...
Create virtual volume

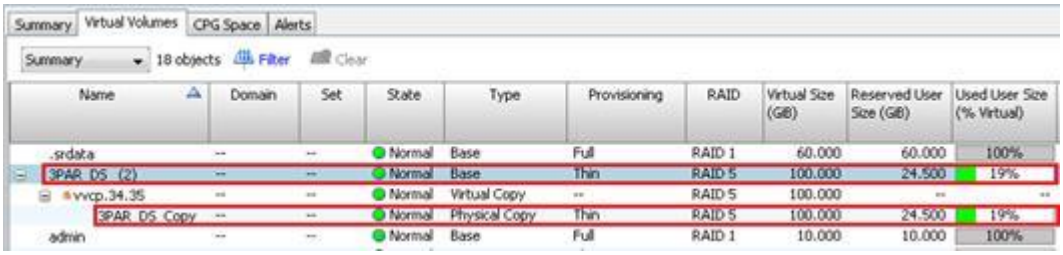

Configure Virtual Volume
General
System
3par7200 (1636443)
Domain
<none>
Name
3PAR_DS_Copy
Export Volume(s) after creation
Use Template
<none>
Comments
Allocation
Select the allocation settings for your volume.
Thinly Provisioned
Allocate volume space on demand.
Requires the Thin Provisioning License.
Fully Provisioned
Allocate volume space at creation time.
Size (256 MiB - 16 TiB)
100
GiB
User CPG
CPG_FC6
(RAID 5, FC, 0.000 GiB Used, No Limit)

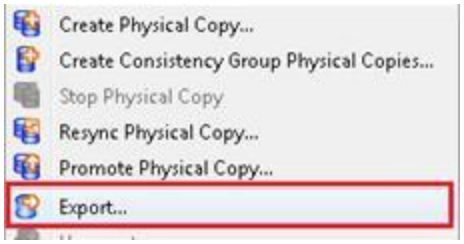
Thinly Provisioned
Fully Provisioned
Allocate volume space on demand.
Requires the Thin Provisioning License.
Allocate volume space at creation time.
Size (102,400 MiB - 16 TiB)
100.000
GiB
User CPG
CPG_FC5
(RAID 5, FC, 41.250 GiB Used, No Limit)
Allocation Warning
Enabled
%
Copy CPG
CPG_FC6
(RAID 5, FC, 1.125 GiB Used, No Limit)
Allocation Warning
Enabled
%

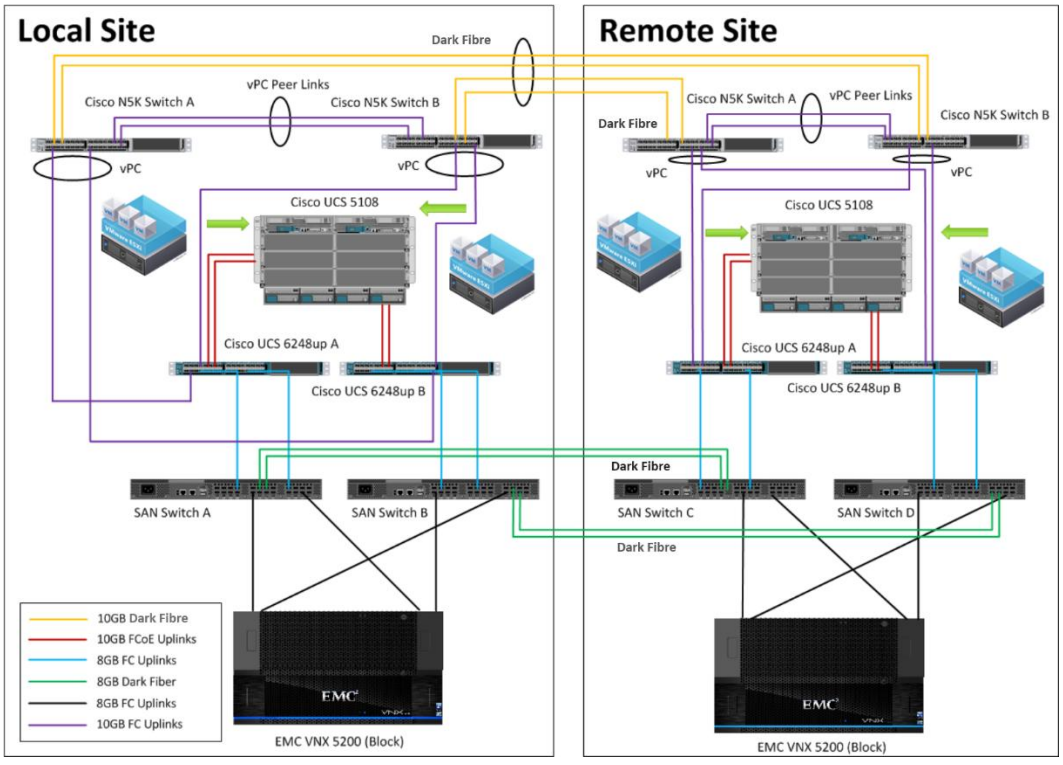

Create Virtual Copy...
Create Consistency Group Virtual Copies...
Promote Virtual Copy...
Create Batch Virtual Copy...
Create Physical Copy...
Create Consistency Group Physical Copies...

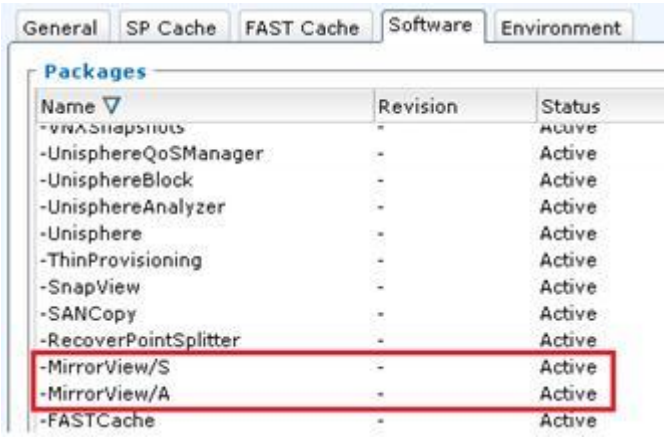
System
3par7200 (1636443)
Domain
<none>
Parent Volume
3PAR_DS
Destination Volume
3PAR_DS_Copy
Task Priority
Medium

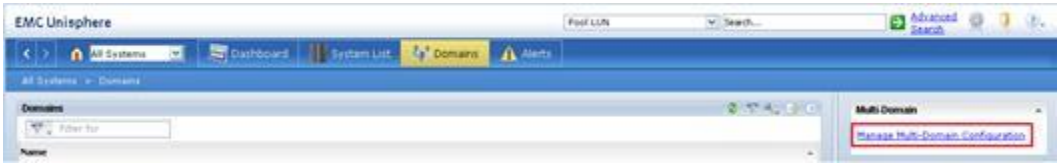

Summary
Virtual Volumes
CPG Space
Alerts
Summary
18 objects
Filter
Clear
Name
Domain
Set
State
Type
Provisioning
RAID
Virtual Size (GiB)
Reserved User Size (GiB)
Used User Size (% Virtual)
.srdata -- -- Normal Base Full RAID 1 60.000 60.000 100%
3PAR_DS (2) -- -- Normal Base Thin RAID 5 100.000 24.500 19%
vvcp.34.35 -- -- Normal Virtual Copy -- RAID 5 100.000 -- --
3PAR_DS_Copy -- -- Normal Physical Copy Thin RAID 5 100.000 8.500 3%
admin -- -- Normal Base Full RAID 1 10.000 10.000 100%


Summary
Virtual Volumes
CPG Space
Alerts
Summary
18 objects
Filter
Clear
Name
Domain
Set
State
Type
Provisioning
RAID
Virtual Size (GiB)
Reserved User Size (GiB)
Used User Size (% Virtual)
.srdata -- -- Normal Base Full RAID 1 60.000 60.000 100%
3PAR_DS (2) -- -- Normal Base Thin RAID 5 100.000 24.500 19%
vvcp.34.35 -- -- Normal Virtual Copy -- RAID 5 100.000 -- --
3PAR_DS_Copy -- -- Normal Physical Copy Thin RAID 5 100.000 24.500 19%
admin -- -- Normal Base Full RAID 1 10.000 10.000 100%


Create Physical Copy...
Create Consistency Group Physical Copies...
Stop Physical Copy
Resync Physical Copy...
Promote Physical Copy...
Export...


Local Site
Remote Site
Dark Fibre
vPC Peer Links
Cisco N5K Switch A
Cisco N5K Switch B
vPC
Cisco UCS 5108
Cisco UCS 6248up A
Cisco UCS 6248up B
SAN Switch A
SAN Switch B
SAN Switch C
SAN Switch D
10GB Dark Fibre
10GB FCoE Uplinks
8GB FC Uplinks
8GB Dark Fiber
8GB FC Uplinks
10GB FC Uplinks
EMC VNX 5200 (Block)

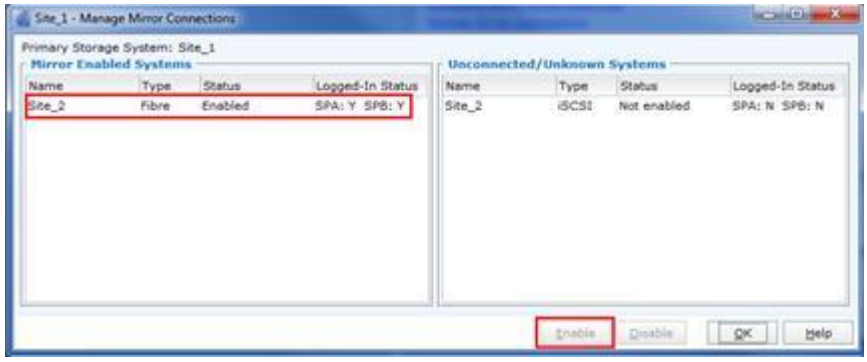

General
SP Cache
FAST Cache
Software
Environment
Packages
Name
Revision
Status
-UnisphereQoSManager - Active
-UnisphereBlock - Active
-UnisphereAnalyzer - Active
-Unisphere - Active
-ThinProvisioning - Active
-SnapView - Active
-SANCopy - Active
-RecoverPointSplitter - Active
-MirrorView/S - Active
-MirrorView/A - Active
-FASTCache - Active


EMC Unisphere
Dashboard
System List
Domains
Alerts
Multi-Domain
Manage Multi-Domain Configuration

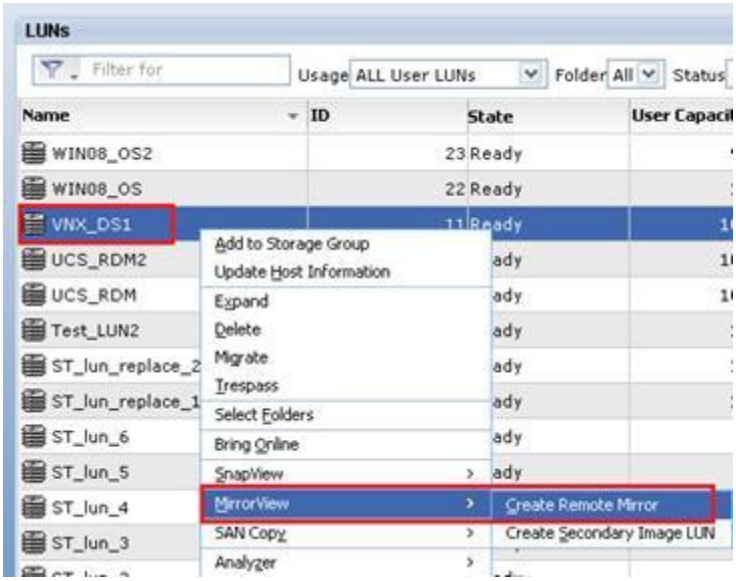
Multi-Domain Management
Select Domain Gateway System
IP Address:
Local Name:
Ports:
Change...
Available Domains
Gateway
Name
Ports
Selected Domains
Gateway
Name
Ports
10.245.16.227 Local 80/443
10.245.17.127 Remote 80/443
Clear
OK
Apply
Cancel
Help

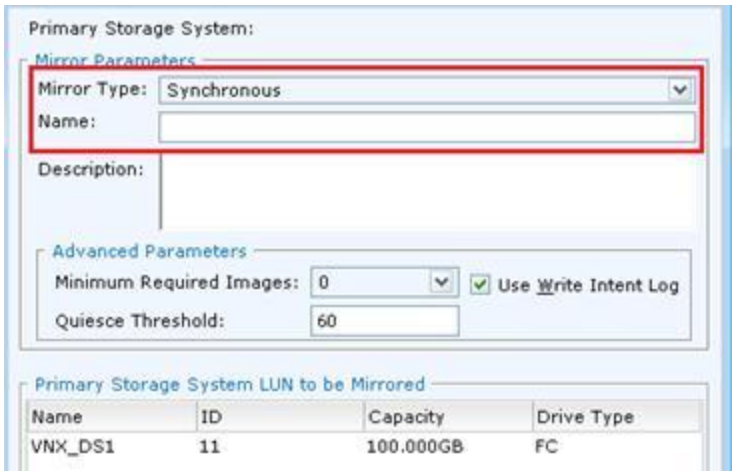
EMC Unisphere
Pool LUN
Search
arraynewest
Dashboard
System
Storage
Hosts
Data Protection
arraynewest > Data Protection > Clones
Source LUNs
Clone LUNs
Clone Sources and Clones
Filter for
Name
Type
State
Condition
ID
Host Infor...
RAID Type
Storage P...
Snapshots
Clones
Mirrors
Reserved LUN Pool

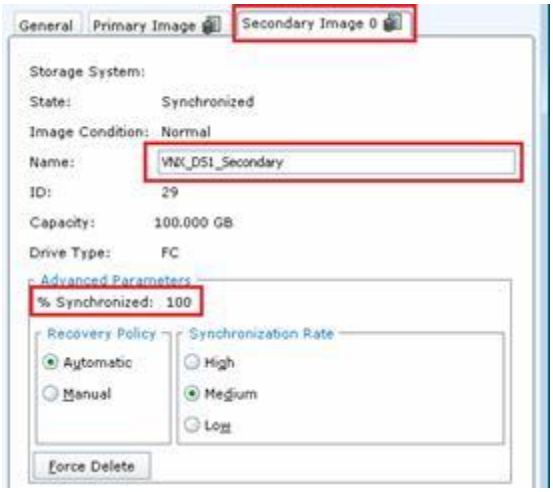
Protection
Configure Clone Settings
Configure Mirror Write Intent ...
Manage Mirror Connections
Start SnapView Session
Create Clone Group


Site_1 - Manage Mirror Connections
Primary Storage System: Site_1
Mirror Enabled Systems
Name
Type
Status
Logged-In Status
Site_2
Fibre
Enabled
SPA: Y SPB: Y
Unconnected/Unknown Systems
Name
Type
Status
Logged-In Status
Site_2
iSCSI
Not enabled
SPA: N SPB: N
Enable
Disable
OK
Help

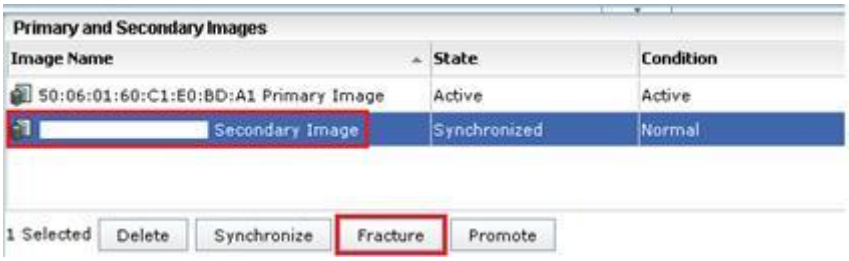
Protection
Configure Clone Settings
Configure Mirror Write Intent Log
Manage Mirror Connections
Start SnapView Session
Create Clone Group

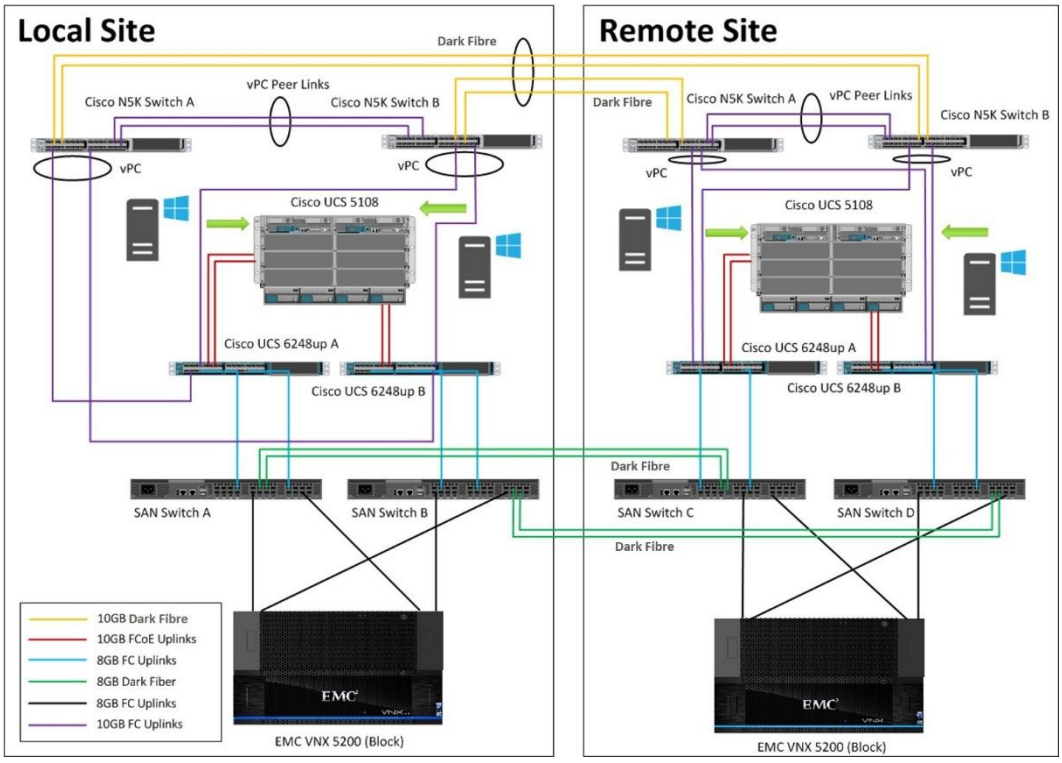

LUNs
Filter for
Usage ALL User LUNs
Folder All
Status
Name
ID
State
User Capacit
WIN08_OS2 23 Ready
WIN08_OS 22 Ready
VNX_DS1 11 Ready
UCS_RDM2
UCS_RDM
Test_LUN2
ST_lun_replace_2
ST_lun_replace_1
ST_lun_6
ST_lun_5
ST_lun_4
ST_lun_3
Add to Storage Group
Update Host Information
Expand
Delete
Migrate
Trespass
Select Folders
Bring Online
SnapView
MirrorView
SAN Copy
Analyzer
Create Remote Mirror
Create Secondary Image LUN

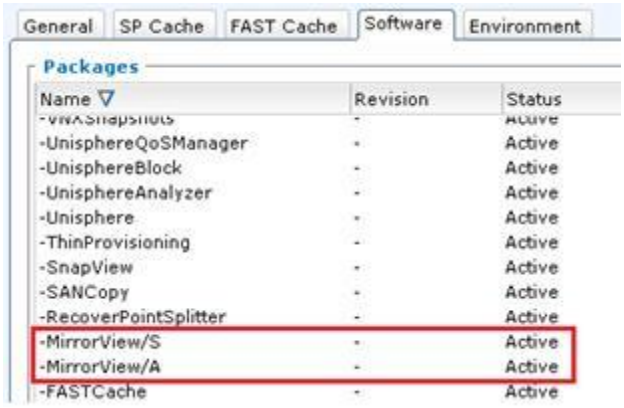

Primary Storage System:
Mirror Parameters
Mirror Type: Synchronous
Name:
Description:
Advanced Parameters
Minimum Required Images: 0
Use Write Intent Log
Quiesce Threshold: 60
Primary Storage System LUN to be Mirrored
Name
ID
Capacity
Drive Type
VNX_DS1
11
100.000GB
FC

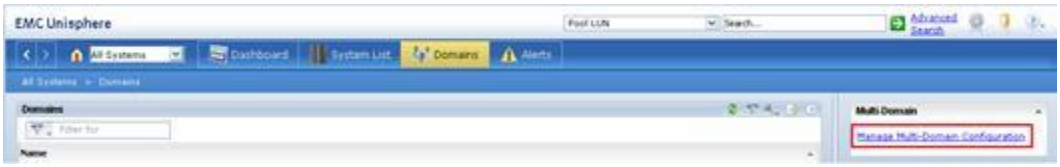

General
Primary Image
Secondary Image 0
Storage System:
State: Synchronized
Image Condition: Normal
Name: VNX_DS1_Secondary
ID: 29
Capacity: 100.000 GB
Drive Type: FC
Advanced Parameters
% Synchronized: 100
Recovery Policy
Automatic
Manual
Synchronization Rate
High
Medium
Low
Force Delete

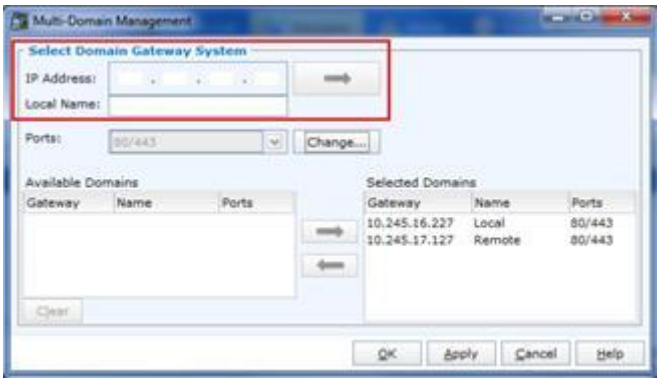
EMC Unisphere
Pool LUN
Dashboard
System
Storage
Hosts
Data Protection
Snapshots
Clones
Mirrors
Reserved LUN Pool
Source LUNs
Clone LUNs
Clone Sources and Clones
Name
Type
State
Condition
ID
RAID Type


Primary and Secondary Images
Image Name
State
Condition
50:06:01:60:C1:E0:BD:A1 Primary Image
Active
Active
Secondary Image
Synchronized
Normal
1 Selected
Delete
Synchronize
Fracture
Promote


Local Site
Remote Site
Dark Fibre
vPC Peer Links
Cisco N5K Switch A
Cisco N5K Switch B
vPC
Cisco UCS 5108
Cisco UCS 6248up A
Cisco UCS 6248up B
SAN Switch A
SAN Switch B
SAN Switch C
SAN Switch D
10GB Dark Fibre
10GB FCoE Uplinks
8GB FC Uplinks
8GB Dark Fiber
8GB FC Uplinks
10GB FC Uplinks
EMC VNX 5200 (Block)


General
SP Cache
FAST Cache
Software
Environment
Packages
Name
Revision
Status
-UnisphereQoSManager - Active
-UnisphereBlock - Active
-UnisphereAnalyzer - Active
-Unisphere - Active
-ThinProvisioning - Active
-SnapView - Active
-SANCopy - Active
-RecoverPointSplitter - Active
-MirrorView/S - Active
-MirrorView/A - Active
-FASTCache - Active


EMC Unisphere
Pool LUN
Search...
Advanced search
All Systems
Dashboard
System List
Domains
Alerts
All Systems > Domains
Domains
Filter for
Name
Multi-Domain
Manage Multi-Domain Configuration

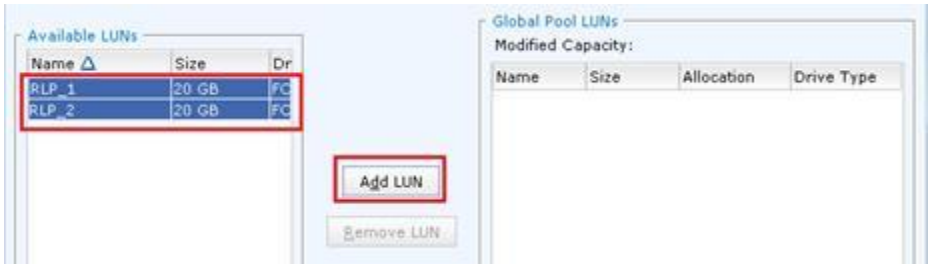

Multi-Domain Management
Select Domain Gateway System
IP Address:
Local Name:
Ports:
80/443
Change...
Available Domains
Gateway
Name
Ports
Selected Domains
Gateway
Name
Ports
10.245.16.227
Local
80/443
10.245.17.127
Remote
80/443
Clear
OK
Apply
Cancel
Help

EMC Unisphere
Pool LUN
Search
arraynewest
Dashboard
System
Storage
Hosts
Data Protection
arraynewest > Data Protection > Clones
Source LUNs
Clone LUNs
Clone Sources and Clones
Filter for
Name
Type
State
Condition
ID
Host Infor...
RAID Type
Storage P...
Snapshots
Clones
Mirrors
Reserved LUN Pool

Protection
Configure Clone Settings
Configure Mirror Write Intent Log
Manage Mirror Connections
Start SnapView Session
Create Clone Group

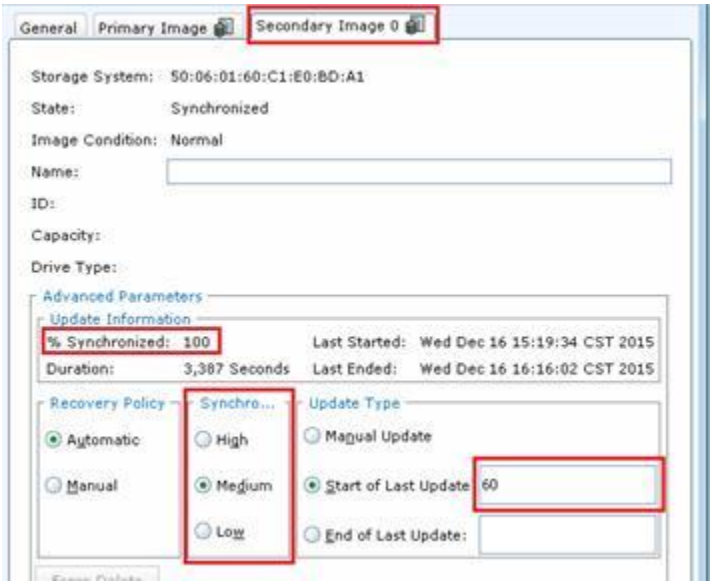
arraynewest
Dashboard
System
Storage
Hosts
Data Protection
Settings
Support
arraynewest > Data Protection
Snapshots
Create and manage LUN snapshots and file system checkpoints.
Clones
Create and manage clones for block storage.
Mirrors
View details of Mirrors associated with the storage system.
Reserved LUN Pool
View details of the storage systems Reserved LUN Pool.

Allocated LUNs
Free LUNs
Free LUNs
Filter for
Name
ID
RAID Type
0 Selected
Configure
Properties

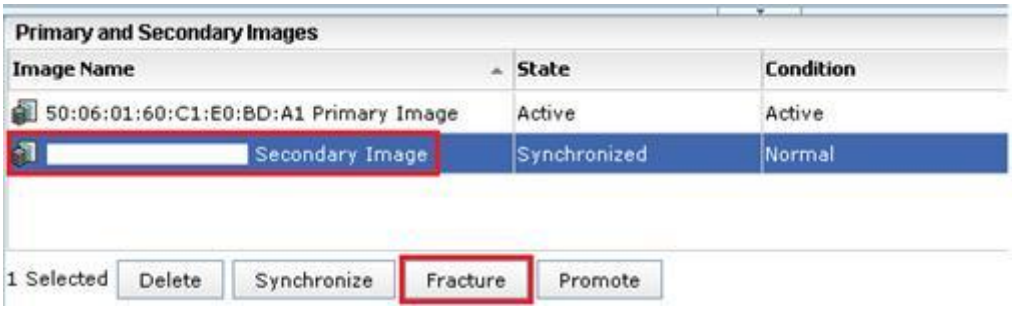

Available LUNs
Name
Size
Dr
RLP_1
20 GB
FC
RLP_2
20 GB
FC
Add LUN
Remove LUN
Global Pool LUNs
Modified Capacity:
Name
Size
Allocation
Drive Type

Primary Storage System:
Mirror Parameters
Mirror Type:
Asynchronous
Name:
Description:

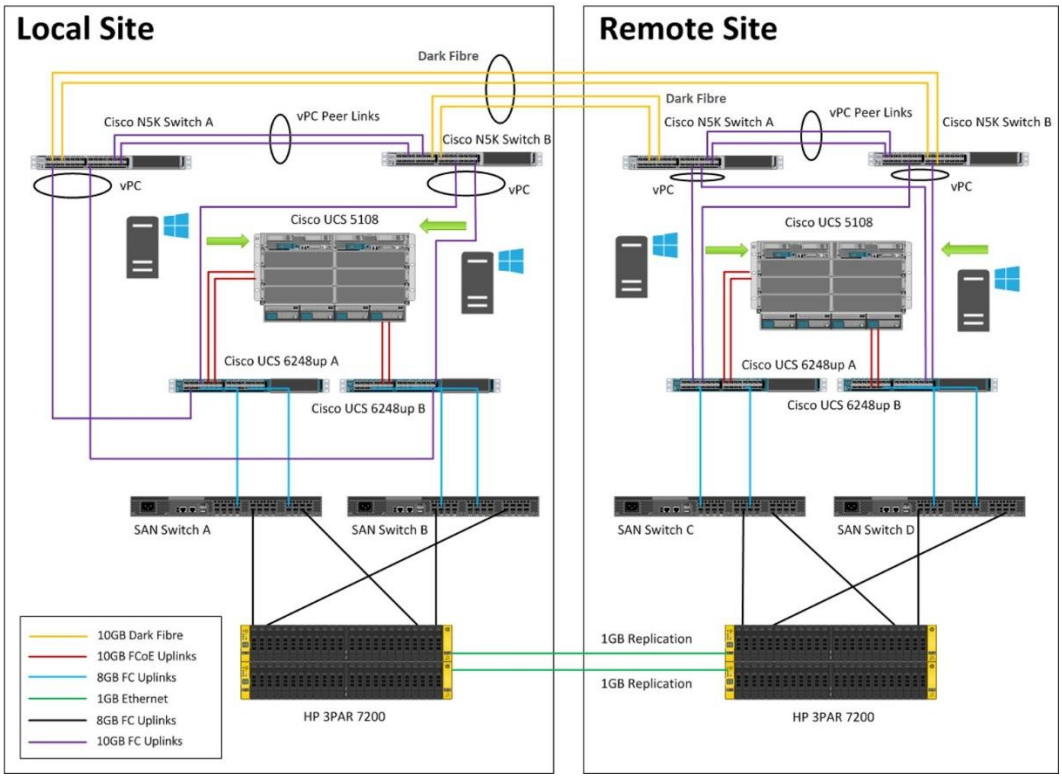
Name
Type
State
Condition
Remote System
Role
Mirror Group 1
Asynchronous Group
Empty
Unknown
Primary
1 Selected
Delete
Properties
Synchronize
Fracture
Add Secondary
Promote
1 items
Last Refreshed: 2016-03-09 00:42:51

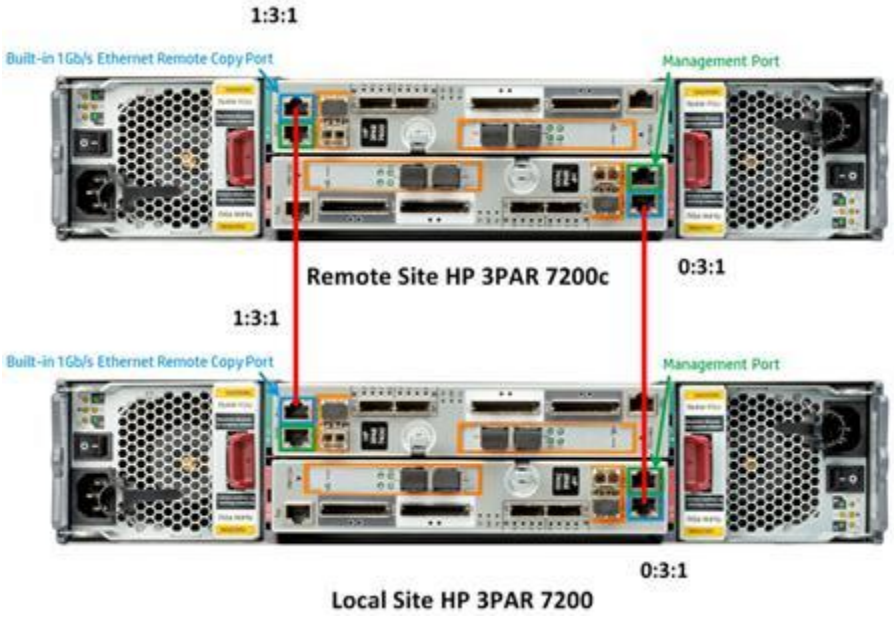

General
Primary Image
Secondary Image 0
Storage System: 50:06:01:60:C1:E0:BD:A1
State: Synchronized
Image Condition: Normal
Name:
ID:
Capacity:
Drive Type:
Advanced Parameters
Update Information
% Synchronized: 100
Last Started: Wed Dec 16 15:19:34 CST 2015
Duration: 3,387 Seconds
Last Ended: Wed Dec 16 16:16:02 CST 2015
Recovery Policy
Automatic
Manual
Synchro...
High
Medium
Low
Update Type
Manual Update
Start of Last Update
60
End of Last Update:

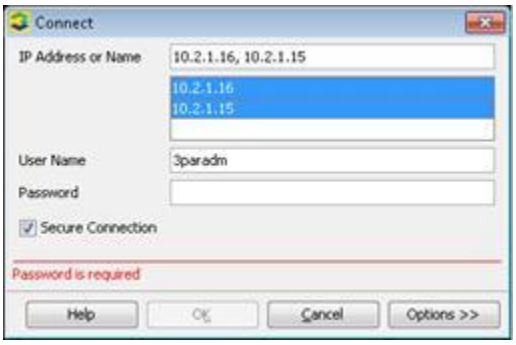
EMC Unisphere
Pool LUN
Search
Dashboard
System
Storage
Hosts
Data Protection
Snapshots
Clones
Mirrors
Reserved LUN Pool
Source LUNs
Clone LUNs
Clone Sources and Clones
Name
Type
State
Condition
ID
Host Infor...
RAID Type
Storage P...


Primary and Secondary Images
Image Name
State
Condition
50:06:01:60:C1:E0:BD:A1 Primary Image
Active
Active
Secondary Image
Synchronized
Normal
1 Selected
Delete
Synchronize
Fracture
Promote

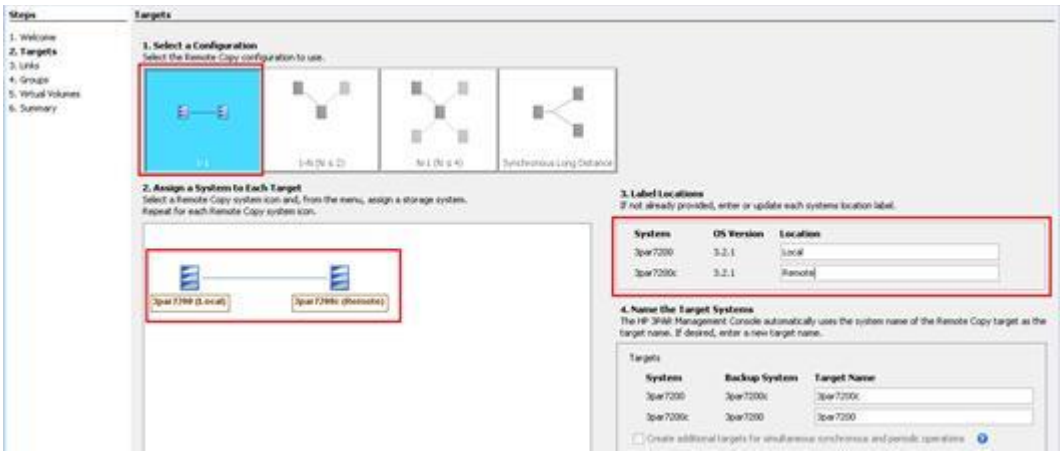
Boot Order
Filter
Export
Print
Name
Order
vNIC/vHBA/iSCSI v...
Type
Lun ID
WWN
Slot Number
Lun ID/NAME
Boot Name
Boot Path
Description
Remote CD/DVD
1
San
2
SAN primary
vHBA-FIA
Primary
SAN Target primary
Primary 0
20:11:00:02:AC:00:8E...
SAN Target secondary
Secondary 0
21:11:00:02:AC:00:8E...
SAN secondary
vHBA-FIB
Secondary
SAN Target primary
Primary 0
21:12:00:02:AC:00:8E...
SAN Target secondary
Secondary 0
20:12:00:02:AC:00:8E...

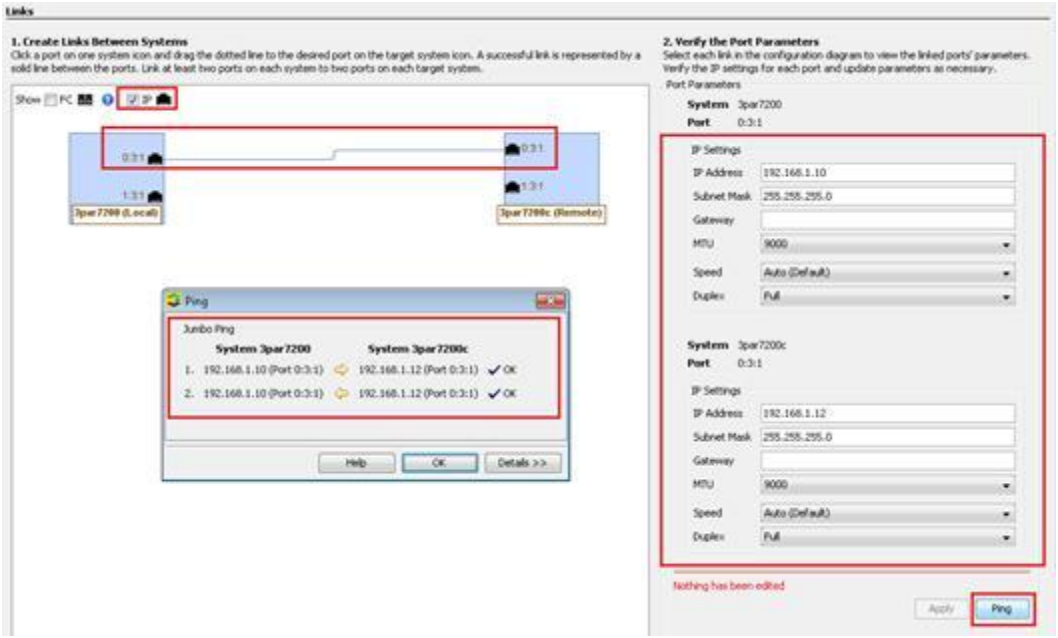

Local Site
Remote Site
Dark Fibre
Dark Fibre
Cisco N5K Switch A
vPC Peer Links
Cisco N5K Switch B
Cisco N5K Switch A
vPC Peer Links
Cisco N5K Switch B
vPC
vPC
vPC
vPC
Cisco UCS 5108
Cisco UCS 5108
Cisco UCS 6248up A
Cisco UCS 6248up B
Cisco UCS 6248up A
Cisco UCS 6248up B
SAN Switch A
SAN Switch B
SAN Switch C
SAN Switch D
10GB Dark Fibre
10GB FCoE Uplinks
8GB FC Uplinks
1GB Ethernet
8GB FC Uplinks
10GB FC Uplinks
1GB Replication
1GB Replication
HP 3PAR 7200
HP 3PAR 7200

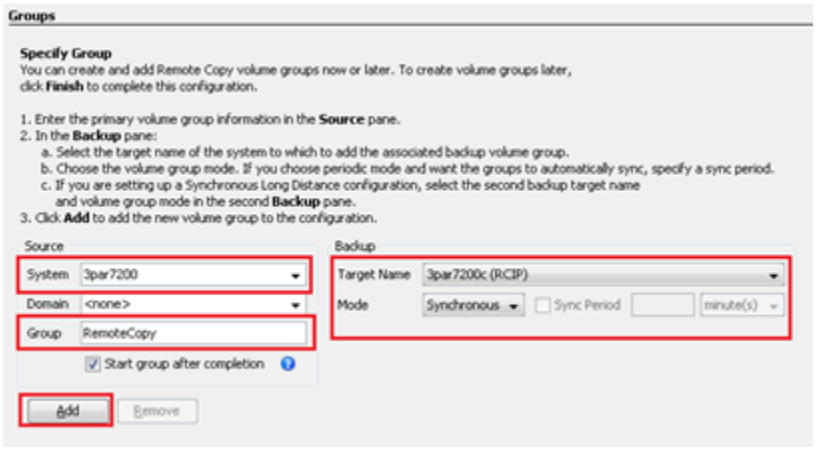

1:3:1
Built-in 1Gb/s Ethernet Remote Copy Port
Management Port
Remote Site HP 3PAR 7200c
0:3:1
1:3:1
Built-in 1Gb/s Ethernet Remote Copy Port
Management Port
0:3:1
Local Site HP 3PAR 7200

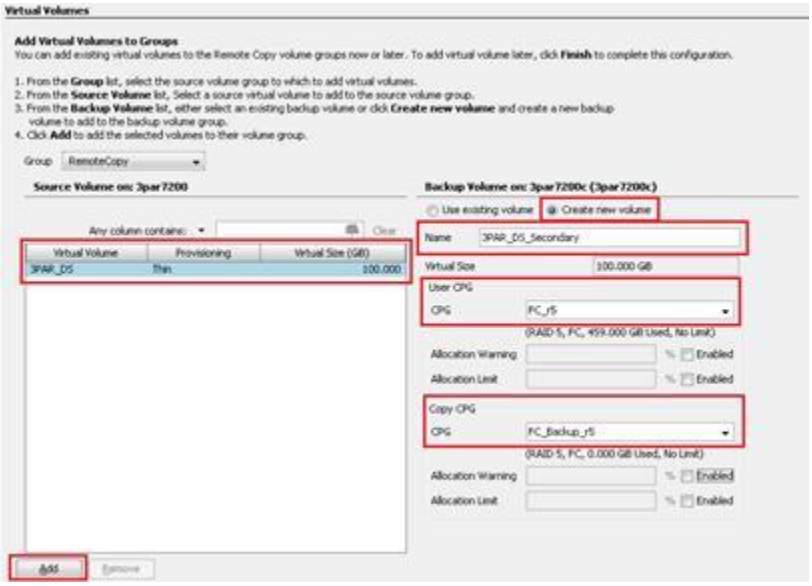

Connect
IP Address or Name
10.2.1.16, 10.2.1.15
10.2.1.16
10.2.1.15
User Name
3paradm
Password
Secure Connection
Password is required
Help
OK
Cancel
Options >>

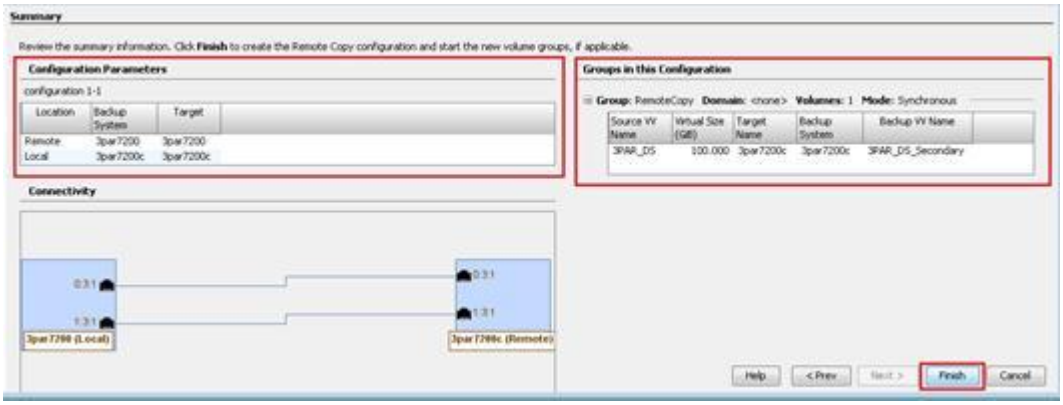
Remote Copy
Available Storage Systems
3par7200c
3par7200
Ports
Common Actions
New Configuration...
Add to Configuration...
Create Remote Copy Group...
Configure RC Port...
Peer Persistence Configuration...

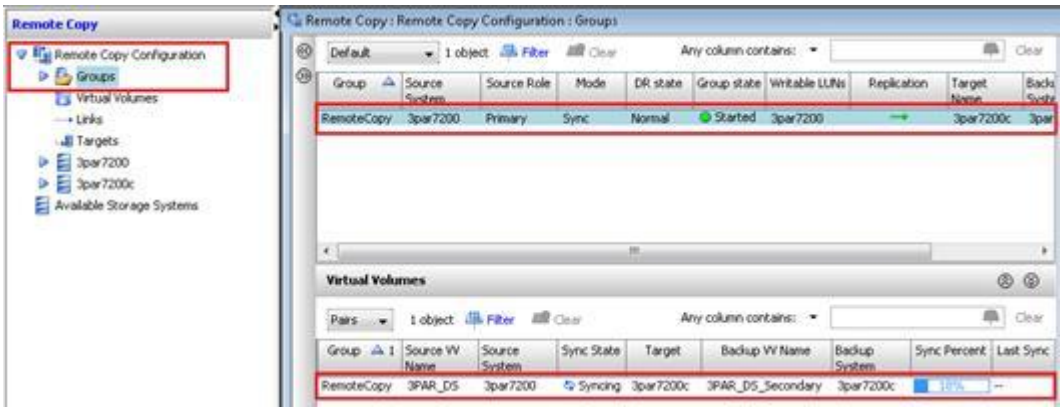

Steps
1. Welcome
2. Targets
3. Links
4. Groups
5. Virtual Volumes
6. Summary
Targets
1. Select a Configuration
Select the Remote Copy configuration to use.
2. Assign a System to Each Target
Select a Remote Copy system icon and, from the menu, assign a storage system.
Repeat for each Remote Copy system icon.
3. Label Locations
If not already provided, enter or update each systems location label.
System
OS Version
Location
3par7200
3.2.1
Local
3par7200c
3.2.1
Remote
4. Name the Target Systems
The HP 3PAR Management Console automatically uses the system name of the Remote Copy target as the target name. If desired, enter a new target name.
Targets
System
Backup System
Target Name
3par7200
3par7200c
3par7200c
3par7200c
3par7200
3par7200

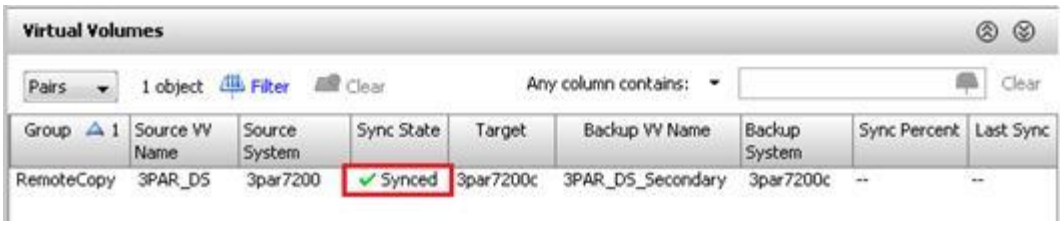

Links
1. Create Links Between Systems
Click a port on one system icon and drag the dotted line to the desired port on the target system icon. A successful link is represented by a solid line between the ports. Link at least two ports on each system to two ports on each target system.
Show FC IP
0:3:1
1:3:1
3par7200 (Local)
0:3:1
1:3:1
3par7200c (Remote)
Ping
Jumbo Ping
System 3par7200
System 3par7200c
1. 192.168.1.10 (Port 0:3:1) 192.168.1.12 (Port 0:3:1) OK
2. 192.168.1.10 (Port 0:3:1) 192.168.1.12 (Port 0:3:1) OK
Help
OK
Details >>
2. Verify the Port Parameters
Select each link in the configuration diagram to view the linked ports' parameters. Verify the IP settings for each port and update parameters as necessary.
Port Parameters
System 3par7200
Port 0:3:1
IP Settings
IP Address 192.168.1.10
Subnet Mask 255.255.255.0
Gateway
MTU 9000
Speed Auto (Default)
Duplex Full
System 3par7200c
Port 0:3:1
IP Settings
IP Address 192.168.1.12
Subnet Mask 255.255.255.0
Gateway
MTU 9000
Speed Auto (Default)
Duplex Full
Nothing has been edited
Apply
Ping

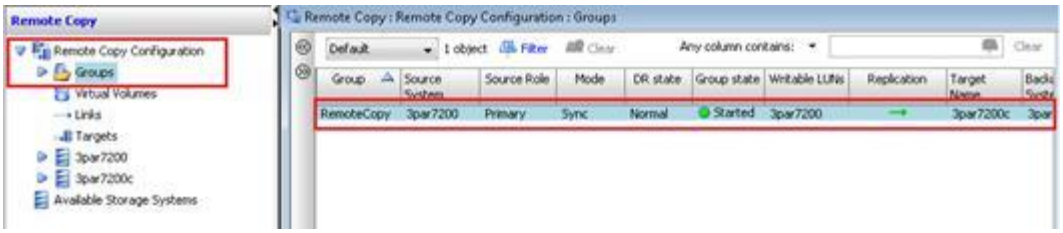

Groups
Specify Group
You can create and add Remote Copy volume groups now or later. To create volume groups later, click Finish to complete this configuration.
1. Enter the primary volume group information in the Source pane.
2. In the Backup pane:
a. Select the target name of the system to which to add the associated backup volume group.
b. Choose the volume group mode. If you choose periodic mode and want the groups to automatically sync, specify a sync period.
c. If you are setting up a Synchronous Long Distance configuration, select the second backup target name and volume group mode in the second Backup pane.
3. Click Add to add the new volume group to the configuration.
Source
System 3par7200
Domain <none>
Group RemoteCopy
Start group after completion
Backup
Target Name 3par7200c (RCIP)
Mode Synchronous
Sync Period
minute(s)
Add
Remove

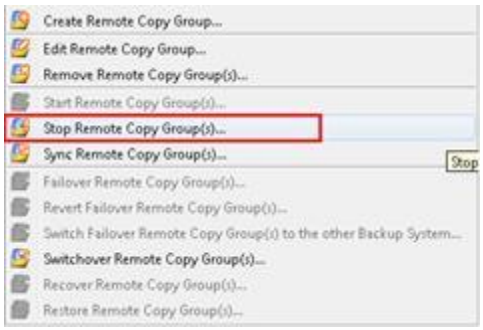

Virtual Volumes
Add Virtual Volumes to Groups
You can add existing virtual volumes to the Remote Copy volume groups now or later. To add virtual volume later, click Finish to complete this configuration.
1. From the Group list, select the source volume group to which to add virtual volumes.
2. From the Source Volume list, Select a source virtual volume to add to the source volume group.
3. From the Backup Volume list, either select an existing backup volume or click Create new volume and create a new backup volume to add to the backup volume group.
4. Click Add to add the selected volumes to their volume group.
Group RemoteCopy
Source Volume on: 3par7200
Any column contains:
Clear
Virtual Volume
Provisioning
Virtual Size (GB)
3PAR_DS
Thin
100.000
Backup Volume on: 3par7200c (3par7200c)
Use existing volume
Create new volume
Name 3PAR_DS_Secondary
Virtual Size 100.000 GB
User CPG
CPG FC_r5
(RAID 5, FC, 459.000 GB Used, No Limit)
Allocation Warning
Allocation Limit
Enabled
Copy CPG
CPG FC_Backup_r5
(RAID 5, FC, 0.000 GB Used, No Limit)
Allocation Warning
Allocation Limit
Enabled
Add
Remove

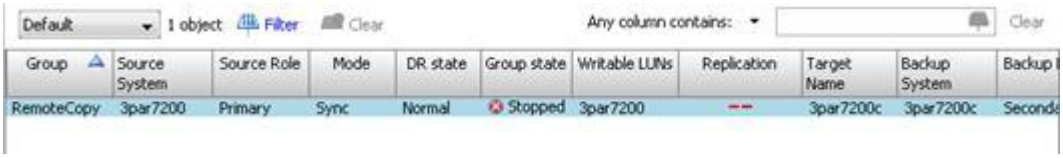

Summary
Review the summary information. Click Finish to create the Remote Copy configuration and start the new volume groups, if applicable.
Configuration Parameters
configuration 1-1
Location
Backup System
Target
Remote
3par7200
3par7200
Local
3par7200c
3par7200c
Groups in this Configuration
Group: RemoteCopy Domain: <none> Volumes: 1 Mode: Synchronous
Source VV Name
Virtual Size (GB)
Target Name
Backup System
Backup VV Name
3PAR_DS
100.000
3par7200c
3par7200c
3PAR_DS_Secondary
Connectivity
0:3:1
1:3:1
3par7200 (Local)
0:3:1
1:3:1
3par7200c (Remote)
Help
< Prev
Next >
Finish
Cancel

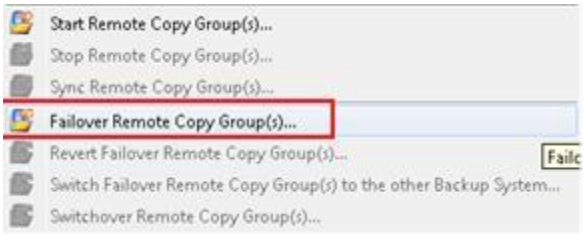

Remote Copy
Remote Copy Configuration
Groups
Virtual Volumes
Links
Targets
3par7200
3par7200c
Available Storage Systems
Remote Copy : Remote Copy Configuration : Groups
Default
1 object
Filter
Clear
Any column contains:
Group
Source System
Source Role
Mode
DR state
Group state
Writable LUNs
Replication
Target Name
RemoteCopy
3par7200
Primary
Sync
Normal
Started
3par7200c
Virtual Volumes
Pairs
Source VV Name
Sync State
Target
Backup VV Name
Backup System
Sync Percent
Last Sync
3PAR_DS
Syncing
3PAR_DS_Secondary

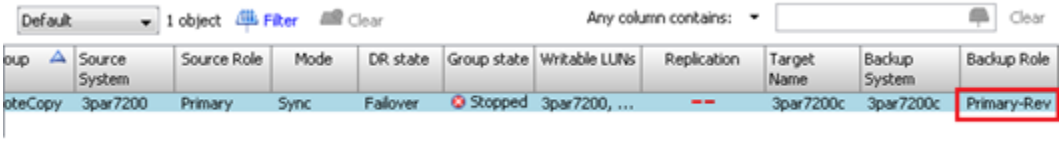

Virtual Volumes
Pairs
1 object
Filter
Clear
Any column contains:
Group
Source VV Name
Source System
Sync State
Target
Backup VV Name
Backup System
Sync Percent
Last Sync
RemoteCopy
3PAR_DS
3par7200
Synced
3par7200c
3PAR_DS_Secondary
3par7200c
--
--

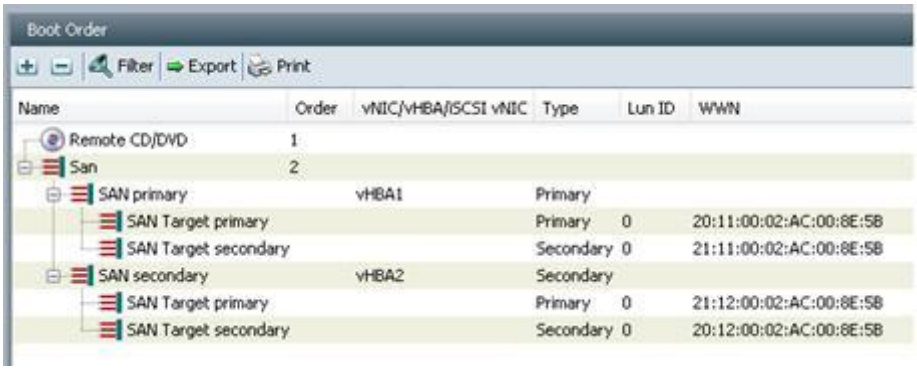

Remote Copy
Remote Copy Configuration
Groups
Virtual Volumes
Links
Targets
3par7200
3par7200c
Available Storage Systems
Remote Copy : Remote Copy Configuration : Groups
Default
1 object
Filter
Clear
Any column contains:
Group
Source System
Source Role
Mode
DR state
Group state
Writable LUNs
Replication
Target Name
RemoteCopy
3par7200
Primary
Sync
Normal
Started
3par7200c


Create Remote Copy Group...
Edit Remote Copy Group...
Remove Remote Copy Group(s)...
Start Remote Copy Group(s)...
Stop Remote Copy Group(s)...
Sync Remote Copy Group(s)...
Stop
Failover Remote Copy Group(s)...
Revert Failover Remote Copy Group(s)...
Switch Failover Remote Copy Group(s) to the other Backup System...
Switchover Remote Copy Group(s)...
Recover Remote Copy Group(s)...
Restore Remote Copy Group(s)...


Default
1 object
Filter
Clear
Any column contains:
Clear
Group
Source System
Source Role
Mode
DR state
Group state
Writable LUNs
Replication
Target Name
Backup System
RemoteCopy
3par7200
Primary
Sync
Normal
Stopped
3par7200
--
3par7200c
3par7200c


Start Remote Copy Group(s)...
Stop Remote Copy Group(s)...
Sync Remote Copy Group(s)...
Failover Remote Copy Group(s)...
Revert Failover Remote Copy Group(s)...
Switch Failover Remote Copy Group(s) to the other Backup System...
Switchover Remote Copy Group(s)...


Default
1 object
Filter
Clear
Any column contains:
Clear
Source System
Source Role
Mode
DR state
Group state
Writable LUNs
Replication
Target Name
Backup System
Backup Role
3par7200
Primary
Sync
Failover
Stopped
3par7200, ...
--
3par7200c
3par7200c
Primary-Rev


Boot Order
Filter
Export
Print
Name
Order
vNIC/vHBA/iSCSI vNIC
Type
Lun ID
WWN
Remote CD/DVD
1
San
2
SAN primary
vHBA1
Primary
SAN Target primary
Primary
0
20:11:00:02:AC:00:8E:5B
SAN Target secondary
Secondary
0
21:11:00:02:AC:00:8E:5B
SAN secondary
vHBA2
Secondary
SAN Target primary
Primary
0
21:12:00:02:AC:00:8E:5B
SAN Target secondary
Secondary
0
20:12:00:02:AC:00:8E:5B