



# 300-180<sup>Q&As</sup>

Troubleshooting Cisco Data Center Infrastructure

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### QUESTION 1

A Cisco UCS chassis has two ports on I/O Module 1 connected to Fabric Interconnect A, and two ports on I/O Module 2 connected to Fabric Interconnect B. The I/O modules are connected to ports 1 and 2 on their respective fabric interconnects, and end host mode is configured. After a link failure occurs on port 1 of I/O Module 1, what happens to the traffic that was pinned to that link?

- A. The traffic fails until the link issue is resolved.
- B. The traffic is repinned to I/O Module 2 link 1, which is connected to Fabric Interconnect
- C.
- D. The traffic is repinned to the remaining link between I/O Module 1 and Fabric Interconnect A.
- E. The traffic is repinned automatically to Fabric Interconnect B.

Correct Answer: C

### QUESTION 2

Instructions ✕

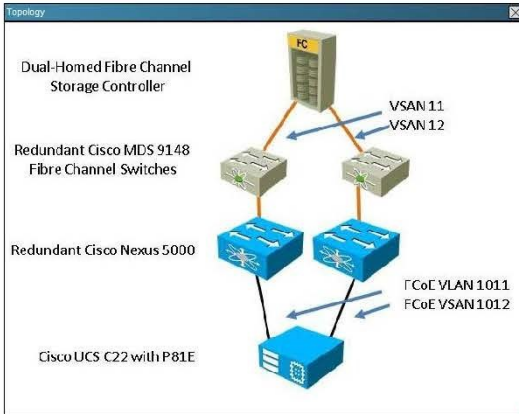
- **THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION.**
- Before beginning the questions, carefully read the information in the Scenario tab and familiarize yourself with the network topology.
- To access the multiple-choice questions, click on the numbered boxes on the left of the top panel.
- There are **four** multiple-choice questions with this task. Be sure to answer all four questions before clicking the Next button.
- Use the tabs at the bottom of the question to navigate between the Topology and question-specific Exhibits. Exhibit\_1 maps to Question 1, et cetera.

Scenario ✕

You have received a trouble ticket from a customer with multiple FCoE issues deploying a Cisco UCS C22 M2 server. The server includes a Cisco UCS P81E VIC that has redundant connections to Cisco Nexus 5548 switches.

When the customer loads the installer for VMware ESXi 5.0, it is unable to connect to its boot LUN over Fabric A or Fabric B. To begin, you will concentrate your efforts on achieving connectivity on Fabric A.

The customer is a government agency with an information security policy prohibiting remote access into its network. It has provided a topology, command output from the Nexus 5548, and screenshots from the Cisco Integrated Management Controller of symptoms for you to troubleshoot.



```
Exhibit_1
192.168.16.45 - KVM Console
File View Macros Tools Help
KVM VM
Initializing Intel(R) Boot Agent GE v1.3.35
PXE 2.1 Build 087 (WFM 2.0)

Cisco VIC FC, Boot Driver Version 2.0(2i)
(C) 2010 Cisco Systems, Inc.

Cisco VIC FC, Boot Driver Version 2.0(2i)
(C) 2010 Cisco Systems, Inc.

LSI MegaRAID SAS-MFI BIOS
Version 3.24.00 (Build October 26, 2011)
Copyright(c) 2011 LSI Corporation
MH -0 (Bus 16 Dev 0) LSI MegaRAID SAS 9260-4i
FW package: 12.12.0-9987
```

VHBA Properties

General

Name: fc0

World Wide Node Name:  AJFC  20:00:00:25:b5:00:30:00

World Wide Port Name:  AJFC  20:00:00:25:b5:40:40:00

FC SAN Boot:

Enable Persistent LUN binding:

Uplink Port: 0

MAC Address:  AJFC  58:0D:09:0F:01:41

Default VLAN:  NJNE  1 - 4054

Class of Service: 3

Rate Limit:  OFF  1 - 10000 Mbps

PCIe Device Order:  ANY  0 - 17

Buttons: Save Changes, Reset Values, Cancel

```
Exhibit_3
show flogi database.tif - WordPad
File Edit View Insert Format Help
Courier New 12 W/System
NSK1# show flogi database
-----
INTERFACE      VSAN      FCID      PORT NAME      NODE NAME
-----
vfc5           11        0x3b0004   20:00:00:25:b5:40:08 20:00:00:25:b5:30:05
                [p5-c-a-esx]

Total number of flogi = 1.

NSK1# show zone active vsan 11 | begin 'zone name p5-c-esx-dcuct'
zone name p5-c-esx-dcuct vsan 11
* fcid 0x3b0004 [pwwn 20:00:00:25:b5:40:08] [p5-c-a-esx]
  pwwn 50:06:01:e0:3b:a0:36:ed [storage-controller]
```



```
Exhibit_4
Document - WordPad
File Edit View Insert Format Help
[Toolbar icons]
Courier New | 12 | Western | [Formatting icons]
1 2 3 4 5 7
N5K1# show interface fc2/1
fc2/1 is down (Isolation due to zone merge failure)

N5K1# configure
Enter configuration commands, one per line. End with CNIL/Z.
N5K1(config)# interface fc2/1
N5K1(config-if)# shutdown
N5K1(config-if)# no shutdown
N5K1(config-if)#

2012 Sep 28 14:43:04 N5K1 %$ VDC-1 %$ %ZONE-2-ZS_MERGE_FULL_DATABASE_MISMATCH: %
$VSAN 11%$ Zone merge full database mismatch on interface fc2/1
2012 Sep 28 14:43:04 N5K1 %$ VDC-1 %$ %ZONE-2-ZS_MERGE_FAILED: %$VSAN 11%$ Zone
merge failure, isolating interface fc2/1 reason: Member mismatch:[reason:0]

For Help, press F1 NUM
```

Hot Area:

Questions

- 1 Review the screenshot that the customer emailed to you in the tab Exhibit\_3.
- 2
- 3 Based on the command output that is supplied, which two selections are true? (Choose two.)
- 4
  - The host p5-c-a-esx is currently logged into the switch fabric.
  - The host Storage-Controller is zoned correctly.
  - The host Storage-Controller is not reachable.
  - The host Storage-Controller is not zoned correctly.
  - The WWNN for host p5-c-a-esx is correctly zoned with the host Storage-Controller.

Correct Answer:



#### Questions

- 1 Review the screenshot that the customer emailed to you in the tab Exhibit\_3.
- 2
- 3 Based on the command output that is supplied, which two selections are true? (Choose two.)
- 4
  - The host p5-c-a-esx is currently logged into the switch fabric.
  - The host Storage-Controller is zoned correctly.
  - The host Storage-Controller is not reachable.
  - The host Storage-Controller is not zoned correctly.
  - The WWNN for host p5-c-a-esx is correctly zoned with the host Storage-Controller.

#### QUESTION 3

Refer to the exhibit.

```
FSPF-3-HELLO_MISMATCH: %$VSAN <vsan-id>%$ Mismatch in Hello timer in the Hello packet on interface san-port-channel <channel-id>  
%FSPF-3-FC2_PROC_ERR: %$VSAN <vsan-id>%$ Error in processing HELLO packet on interface san-port-channel <channel-id>, Error = Bad packet received
```

VSAN traffic is not being routed through SAN fabric. Which action is helpful to resolve the problem?

- A. Make sure that the FSPF hello interval value matches on both switches.
- B. Change the FSPF hello timer back to the default of 5 seconds.
- C. Make sure that the FSPF hello timers are different so that they do not compete.
- D. Make sure that the FSPF dead timers are both set to 0.

Correct Answer: A

#### QUESTION 4

Refer to the exhibit.



```
DC-SWITCH12# show spanning-tree vlan 701

VLAN701
Spanning tree enabled protocol rstp
Root ID    Priority    25277
           Address    0024.04aa.be32
           Cost      1
           Port      5596 (port-channel1501)
           Hello Time 2 sec Max Age 14 sec Forward Delay 10 sec

Bridge ID  Priority    33469 (priority 32768 sys-id-ext 701)
           Address 547f.eef7.95bc
           Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Interface  Role Sts Cost Prio.Nbr Type
-----
Po2        Desg FWD 1    128.4097 (vPC peer-link) P2p
Po1100     Desg FWD 1    128.5195 (vPC) Edge P2p
Po1101     Altn BLK 1    128.5196 (vPC) Edge P2p
Po1102     Altn BLK 1    128.5197 (vPC) Edge P2p
Po1103     Desg FWD 1    128.5198 (vPC) Edge P2p
Po1104     Desg FWD 1    128.5199 (vPC) Edge P2p
Po1105     Desg FWD 1    128.5200 (vPC) Edge P2p
Po1501     Root FWD 1    128.5596 (vPC) P2p
```

All the interfaces on the switch must forward traffic by using VLAN 701. Which action do you take?

- A. Enable the vPC on port channel 1101 and port channel 1102.
- B. Lower the switch priority such that it becomes the spanning tree root.
- C. Increase the switch priority such that it becomes the spanning tree root.
- D. Allow VLAN 701 on port channel 1101 and port channel 1102.

Correct Answer: B

#### QUESTION 5



```
UCS-A# show service-profile circuit server 1/1
Service Profile: cisco
Server: 1/1
Fabric ID: A
  VIF  vNIC Link State Overall Status Admin Pin Oper Pin Transport
  ----  ---  ---  ---  ---  ---  ---  ---  ---  ---
    822 eth0 Up      Active    0/0     0/3     Ether
    824 fc0  Up      Active    0/0     0/0     Fc
Fabric ID: B
  VIF  vNIC Link State Overall Status Admin Pin Oper Pin Transport
  ----  ---  ---  ---  ---  ---  ---  ---  ---  ---
    823 eth1 Up      Active    0/0     0/3     Ether
    825 fc1  Up      Active    0/0     0/0     Fc

UCS-A# connect nxos
UCS-A (nxos)# show pinning border-interfaces active

-----+-----+-----
Border Interface  Status  SIFs
-----+-----+-----
Po10              Active  veth820 veth823 veth877 veth881
                  veth885 veth889 veth893 veth897
                  veth901 veth905 veth909 veth913
                  veth917 veth921 veth925 veth929
                  veth933 veth937 veth941 veth945
                  veth949 veth953 veth957 veth961
Po30              Active  veth961 veth965 veth973 veth977 veth981
                  veth985 veth989 veth993 veth997
                  veth1001 veth1005 veth1009 veth1013
                  veth1017 veth1021 veth1025 veth1029
                  veth1033 veth1037 veth1041 veth1045
                  veth1049 veth1053 veth1057 veth1061
```

Refer to the exhibit. You are attempting to trace packet flow from server1/1 to the fabric. On which interface does traffic leave from server 1/1?

- A. fabric A
- B. Po10
- C. fabric B
- D. Po30

Correct Answer: A



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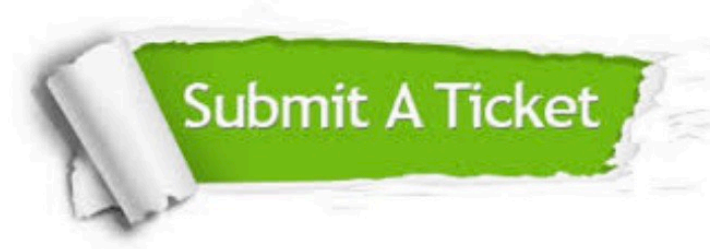
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