



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

Troubleshooting Cisco Data Center Infrastructure

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**QUESTION 1**



**Instructions**

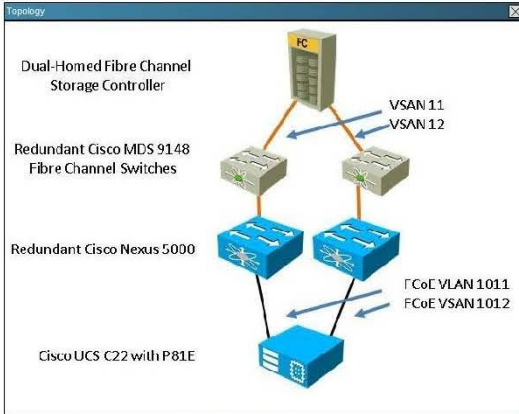
- THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION.
- Before beginning the questions, carefully read the information in the Scenario tab and familiarize yourself with the network topology.
- To access the multiple-choice questions, click on the numbered boxes on the left of the top panel.
- There are 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 connectors 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**

```
192.168.10.45 - KVM Console
File View Macros Tools Help
KVM VM

Initializing Intel(R) Boot Agent GE v1.3.35
PXE 2.1 Build 007 (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
Ha -0 (Bus 18 Dev 0) LSI MegaRAID SAS 9260-41
FW package: 12.12.0-0087
```

**Exhibit\_2**

**VHBA Properties**

**General**

Name: fc0

World Wide Node Name:  AJFC  20:00:00:25:85:10:30:00

World Wide Port Name:  AJFC  20:00:00:25:85:40:40:00

FC SAN Boot:

Enable Persistent LUN Binding:

Uplink Port: 0

MAC Address:  AJFC  58:8D:09:0F:01:41

Default VLAN:  NONE  (1 - 4054)

Class of Service: 3

Rate Limit:  OFF  (1 - 10000 Mbps)

PCIe Device Order:  ANY  (0 - 17)

Save Changes Reset Values Cancel



```
Exhibit_3
show flogi database.rtf - WordPad
File Edit View Insert Format Help
Courier New 12 Western B U
N5K1# show flogi database
-----
INTERFACE          VSAN      FCID          PORT NAME          NODE NAME
-----
vfc5                11        0x3b0004      20:00:00:25:b5:40:40:08 20:00:00:25:b5:30:30:05
                    [p5-c-a-esx]

Total number of flogi = 1.

N5K1# 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:b5:40:40:08] [p5-c-a-esx]
  pwwn 50:06:01:60:3b:a0:08:ed [storage-controller]

For Help, press F1
```

```
Exhibit_4
Document - WordPad
File Edit View Insert Format Help
Courier New 12 Western B U
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 CNTL/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
```

Hot Area:



Questions

1 Review the screenshot that the customer emailed to you in the tab **Exhibit\_1**.

2

3 You are gathering information to determine the cause of the inability to attach to the boot LLN over FCoE. During POST, two messages appear about the Cisco VIC FC, Boot Driver.

4

Which item is true regarding these messages? (Choose 1)

- They indicate that the Fibre Channel boot driver has failed during POST.
- They indicate that the Fibre Channel Boot Driver has logged into the Fabric A and Fabric B switches.
- They indicate that the Fibre Channel Boot Driver has loaded and there is an entry in the FCNS databases of the switches for Fabric A and Fabric B.
- They indicate that the Fibre Channel Boot Driver has loaded and failed to reach the storage controller on either Fabric A and Fabric B switches

Correct Answer:

Questions

1 Review the screenshot that the customer emailed to you in the tab **Exhibit\_1**.

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## QUESTION 2

Which configuration command is critical in order for OTV edge devices to maintain an overlay adjacency with their local peers in a multihomed site via the join interfaces across the Layer 3 network domain?

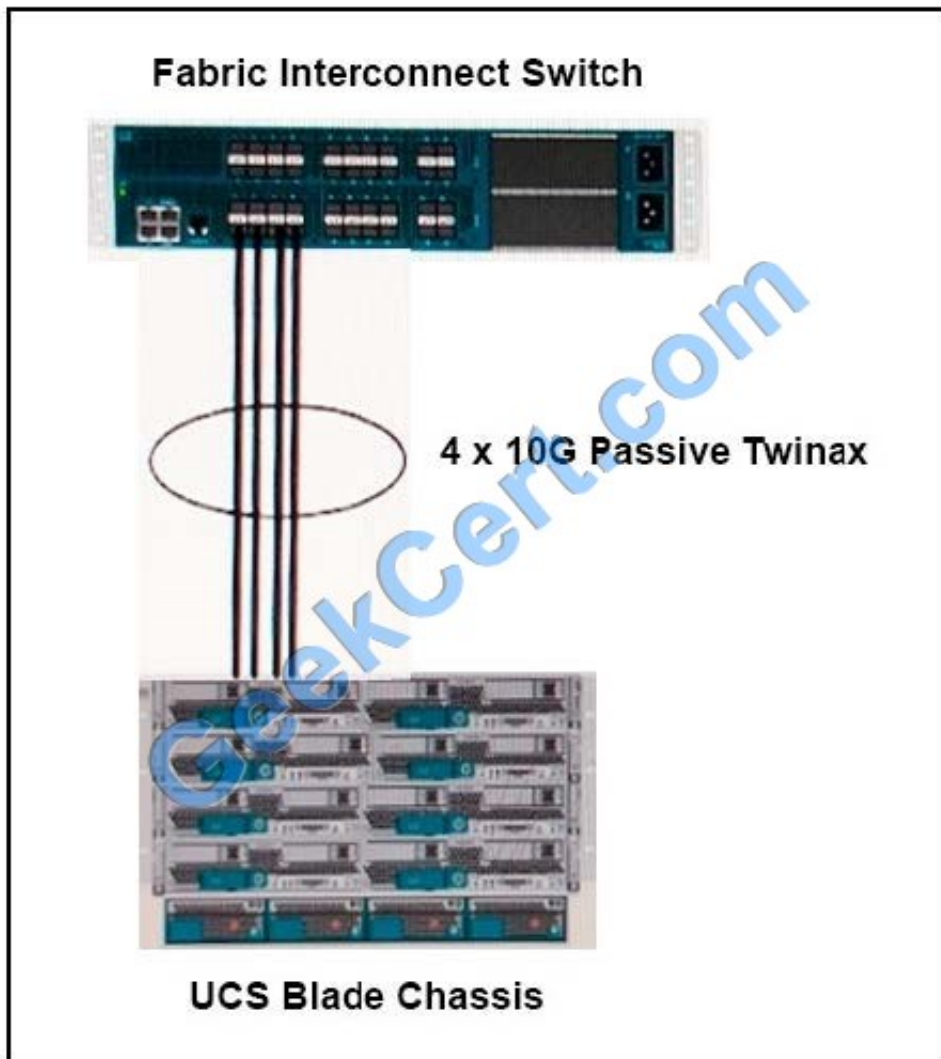
- A. otv site-vlan
- B. otv extend-vlan
- C. otv use-adjacency-server unicast-only
- D. otv site-identifier

Correct Answer: D



### QUESTION 3

Refer to the exhibit.



Your customer is migrating their existing top-of-rack data center to a new location that uses an end-of-rack configuration. The customer requests a site survey prior to the migration. Which fact must you highlight in your survey that is required for a successful translation?

- A. The power source must be 240 volts only for blade chassis.
- B. Blade chassis using passive TWINAX cables must be placed within 5 meters of the end rack.
- C. The power source must be 240 volts only for fabric interconnect switches.
- D. Blade chassis must not be fully equipped with blades when using an end-of-rack setup.

Correct Answer: B



#### QUESTION 4

Which two conditions can prevent FCoE from functioning properly across a link? (Choose two.)

- A. LLDP is disabled.
- B. PFC was negotiated across the link.
- C. DCBX is enabled on the device.
- D. The VFC interface is down.
- E. The VSAN trunking protocol was enabled.

Correct Answer: AD

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#### QUESTION 5

Which two statements about configuring NPV are true? (Choose two.)

- A. Only F, E, and SD ports are supported in NPV mode.
- B. Only targets can be connected to an NPV device.
- C. Distribute the NPV core switch links to different port groups for improved scalability.
- D. If DPVM is configured on the NPV core switch for an end device that is connected to the NPV device, then that end device must be configured to be in the same VSAN.
- E. NPV does not support NPIV-capable module servers (nested NPIV).

Correct Answer: CD

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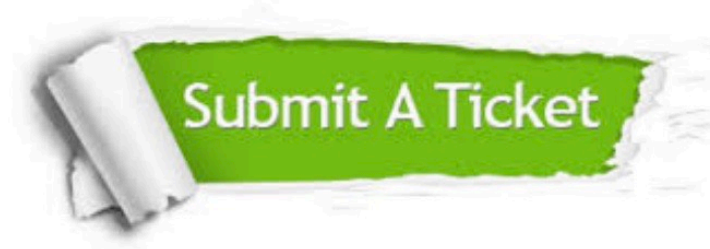
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