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Exam   :   300-180

Title   :   Troubleshooting Cisco Data Center Infrastructure

Vendor   :   Cisco

Version   :   DEMO

NO.1 Which option describes why the merge status for any application shows "In Progress" for a prolonged period of time when a new switch is added to the fabric?

A. The new switch must be upgraded to match the same version of code as the original switch.

B. The ports between the switches are not trunking all VSANs.

C. The application needs to be started on both switches.

D. There are outstanding changes that must be committed.

E. The merge status cannot occur until a copy running-config startup-config is done.

Answer: D

NO.2 How can you identify the blade location when tracing server traffic?

A. by performing CDP checks on the Cisco UCS Fabric Interconnects

B. by using a trace utility

C. by collecting traffic that uses a SPAN monitoring port

D. by examining the interface to which the server MAC address is connected

Answer: D

NO.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.

Answer: A

NO.4 You are troubleshooting an FCoE boot issue on a Cisco UCS C220 M3 server with a VIC 1225 CNA. Which two pieces of information can you directly infer from the output of the show zone active command below? (Choose two.) zone name Server_1-to-Storage vsan 11 pwwn 50:06:01:60:3b:a0:08:9f [Storage]

* fcid 0x3b000b [pwwn 20:00:00:25:b5:04:0a:02] [C22_Server]

A. The storage controller is not logged into the fabric.

B. The server is not logged into the fabric.

C. Only the storage controller is logged into the fabric.

D. Only the server is logged into the fabric.

E. The initiator and target cannot communicate because they are on the wrong VSAN.

F. The WWPN of the storage controller is mistyped.

G. The initiator and target cannot communicate because the zone name does not match the server name (C22_Server).

Answer: A,D

NO.5 Which command on the Fabric Interconnect displays packet statistics for a given QoS group and MTU size?

A. show policy-map interface ethernet x/y

B. show queuing interface ethernet x/y

C. show interface ethernet x/y

D. show class-map type qos

E. show interface queuing ethernet x/y

Answer: B

NO.6 You successfully install VMware ESXi 5.0 U1 on a Cisco UCS B200 M3 server to a Fibre Channel LUN. When you reboot the server, you see the message "Reboot and Select Proper Boot device or insert Boot Media in selected Boot device and press a key." What are the first two pieces of information you should gather to troubleshoot the boot failure?
(Choose two.)

A. Connect to the NX-OS shell via the CLI and run the show npv flogi-table command.

B. SSH to the MDS 9124 and run the show flogi database command.

C. Validate the boot target WWPN and LUN ID in the service profile.

D. Validate the correct source WWPN in the service profile vHBA definition.

E. Validate zoning for your WWPN on the Cisco MDS 9124.

F. Validate that the boot order indicates the vHBA as the first device.

G. Ensure LUN masking is correctly configured on the storage controller.

Answer: C,F

NO.7 At any given time, each server can be associated with how many service profiles?

A. 1

B. 2

C. 5

D. 10

E. unlimited

Answer: A

NO.8 Refer to the exhibit.

```
switch# show npv status

npiv is enabled

External Interfaces:
====================
   Interface: fc1/1, VSAN: 1, FCID: 0x110000, State: Failed(Mismatch in VSAN for this
   upstream port)

   Number of External Interfaces: 1
```

When your customers have NPV problems, which three actions should you take? (Choose three.)

A. Verify that the NPV core switch supports NPIV and that it is enabled.

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B. Verify that all ports are properly configured and connected.

C. Ensure that the VLAN values are configured on both sides of the NPV core switch.

D. Verify the status of the servers and external interfaces, using the show npv server status command.

E. Ensure that the VSAN value that is configured on the device links is correct.

F. For all the device links, ensure that the port mode on the NPV device is in Full_port mode.

Answer: A,B,E

NO.9 You have a Cisco UCS Fabric Interconnect in Fibre Channel end-host mode. You must check whether all of the Fibre Channel targets are available through the fabric interconnect at VSAN 200. Which command must you use?

A. show npvflogi-table

B. show flogi-table

C. show flogi database

D. show zoneset active VSAN 200

Answer: A

NO.10 A customer is configuring a network control policy in a Cisco UCS domain. The network control policy configures the network control settings for the Cisco UCS domain, including which three of these? (Choose three.)

A. how the VIF behaves if no uplink port is available in end-host mode

B. the action that the Cisco UCS Manager takes on the remote Ethernet interface, vEthernet interface, or vFibreChannel interface when the associated border port fails

C. Layer 2 switching on the fabric interconnect

D. whether MAC registration occurs on a per-vNIC basis or for all VLANs

E. the end-host mode setting on the I/O module

Answer: A,B,D

NO.11 Which names are reserved when custom roles are created in Cisco UCS Manager RBAC?

A. network-admin, network-operator, vdc-admin, vdc-operator, and server-admin

B. cisco, cisco123, cisco-operator, cisco-admin, and root

C. ucs-admin, ucs-operator, server-admin, server-operator, and cisco-admin

**D.** ucs, ucs123, server-admin, server-operator, and sysroot

Answer: A

NO.12

Instructions ⊠

- Enter NX-OS commands on the device to answer multiple-choice questions.
- **THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION.**
- From Exhibit 1, click on the Cisco Nexus 5548UP switch named N5548UP-C1to gain access to the console of the switch.
- There is no access to configuration mode.
- 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 selecting the **Next** button.
- This is a simulation, and not all NX-OS commands are implemented.

Scenario ⊠

In this item, you will use the NX-OS CLI to answer questions about the FCoE configuration on a Cisco Nexus 5548UP.

Exhibit1
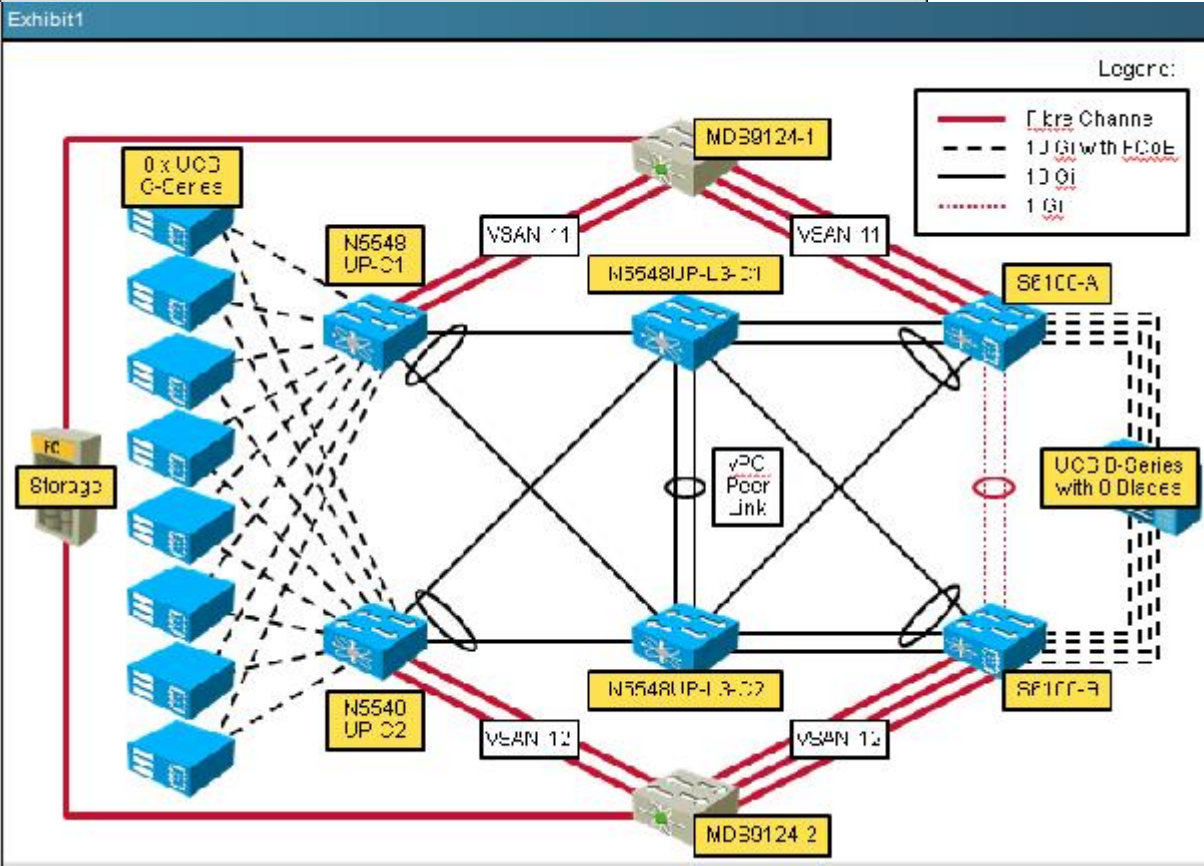
What is the FCF-MAC tor this switch?

A. 54:7f:ee:98:9b:39

B. 54:7f:ee:98:9b:40

C. 54:7f:ee:98:9b:41

D. 54:7f:ee:98:9b:42

E. 54:7f:ee:98:9b:43

Answer: E

NO.13 Which two commands check for DIMM errors in a Cisco UCS environment? (Choose two.)

A. UCS-TEST/chassis#show error-recovery

B. UCS-TEST/chassis/server/memory-array#show stats

C. UCS-TEST/chassis/server#show execute-disable

D. UCS-TEST/chassis/server/memory-array #show block

E. UCS-TEST/chassis/server#show memory-array detail

F. UCS-TEST/chassis/server#show error-recovery

Answer: B,E

NO.14 A customer would like to create an Ethernet traffic monitoring session on a Cisco UCS server to troubleshoot network connectivity. The customer has entered the following commands via CLI:

UCS-A# scope eth-traffic-mon

UCS-A /eth-traffic-mon # scope fabric a

UCS-A /eth-traffic-mon/fabric # create eth-mon-session EthMonitor33

UCS-A /eth-traffic-mon/fabric/eth-mon-session* # create dest-interface 2 12 UCS-A /eth-traffic-mon/fabric/eth-mon-session/dest-interface* # set speed 20gbps UCS-A /eth-traffic-mon/fabric/eth-mon-session/dest-interface* # commit-buffer UCS-A /eth-traffic-mon/fabric/eth-mon-session/dest-interface # Which outcome will this command sequence produce?

A. It will create an Ethernet traffic monitoring session to copy and forward traffic to the destination

port at slot 2, port 12, will set the admin speed to 20 Gb/s, and will commit the transaction.

B. It will create an Ethernet traffic monitoring session to copy and forward traffic to the destination port at slot 2, port 33, will set the admin speed to 20 Gb/s, and will commit the transaction.

C. It will create an Ethernet traffic monitoring session to copy and forward traffic to the destination port at slot 33, port 12, will set the admin speed to 20 Gb/s, and will commit the transaction.

D. It will create an Ethernet traffic monitoring session to copy and forward traffic to the destination port at slot 2, port 12, will set the admin speed to 10 Gb/s, and will commit the transaction.

Answer: A

NO.15 Refer to the exhibit.

```
switch# show npv status

npiv is enabled

External Interfaces:
=====================
  Interface: fc1/1, VSAN: 1, FCID: 0x110000, State: Failed(Mismatch in VSAN for this
  upstream port)

  Number of External Interfaces: 1
```

A customer is having problems with NPV. Which of these is the cause of the problem?

A. No server was requested or received by the FLOGI database.

B. One external link must be up for server interface to be up.

C. Internal links are down and must be up for the server interface to be up.

D. VSANs are misconfigured on the upstream ports.

E. VLANs are misconfigured on the upstream ports.

Answer: D

NO.16 What are the minimum number and maximum number of members that a SAN PortChannel can have?

A. 1, 16

B. 2, 16

C. 1, 32

D. 2, 32

E. 1 minimum with no maximum

F. 2 minimum with no maximum

Answer: A

NO.17 A customer is troubleshooting QoS in a Cisco UCS domain due to high packet drops in the network. The customer has configured the vNIC and associated QoS policy, and changed the MTU from 1000 to 1200. Packet drops still exist. What is the cause of this issue?

A. The MTU specified here must be greater than the MTU specified in the associated QoS system class. If this MTU value is less than the MTU value in the QoS system class, packets may be dropped during data transmission.

B. The MTU specified here must be equal to or less than the MTU specified in the associated QoS

system class. If this MTU value exceeds the MTU value in the QoS system class, packets may be dropped during data transmission.

C. The MTU specified here must be less than the MTU specified in the associated QoS system policy. If this MTU value exceeds the MTU value in the QoS system policy, packets may be not be dropped during data transmission.

D. The MTU must be optimized and should be changed to fc with the CLI command set mtu fc.

Answer: B

NO.18 What can prevent you from adding an interface to a pre-existing port-channel on a CISCO Nexus N7K device?

A. The port-channel is In LACP passive mode

B. The interface already assigned to a different port-channel,

C. The interface has been allocated to a different VOC

D. no shutdown was issued on the interface.

Answer: B

NO.19 Which configuration is needed to suppress duplicate IP addresses when HSRP localization is enabled?

A. Configure matching passwords in each data center.

B. Configure no ip arp gratuitous hsrp duplicate under the VLAN.
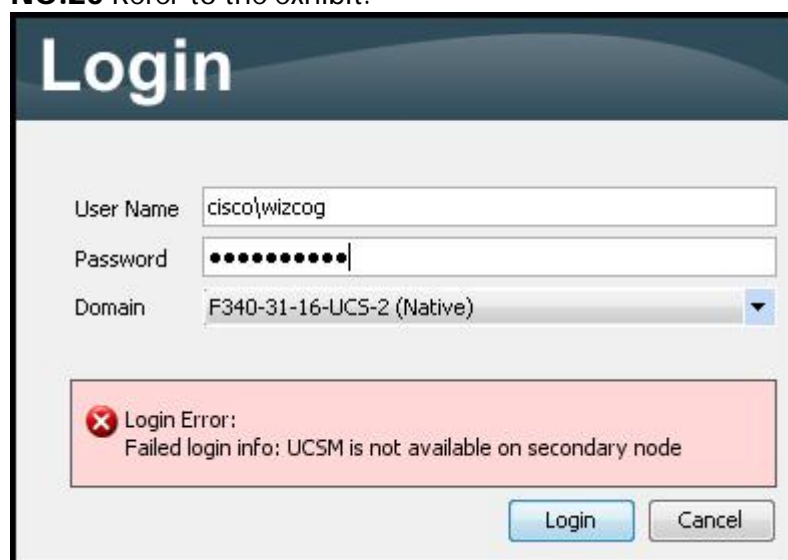
C. Remove the passwords in each data center.

D. Configure mismatching HSRP versions between data centers.

E. Change one data center to run VRRP rather than HSRP.

Answer: B

NO.20 Refer to the exhibit.

Which mistake did the UCS administrator make when trying to access the GUI?

A. specified the incorrect login domain

B. did not use the VIP

C. tried to login before the GUI had fully booted up

D. password is incorrect

E. attempted to login to the subordinate cluster peer

Answer: E

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