

# Cisco

## 300-180 Exam

### Cisco Troubleshooting Cisco Data Center Infrastructure Exam



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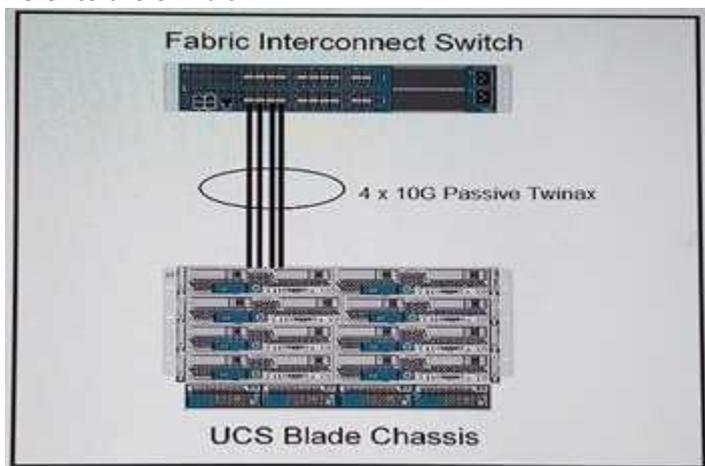
## Version: 17.0

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### Question: 1

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Refer to the exhibit.



Your customer is migrating is 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 transition?

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

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**Answer: C**

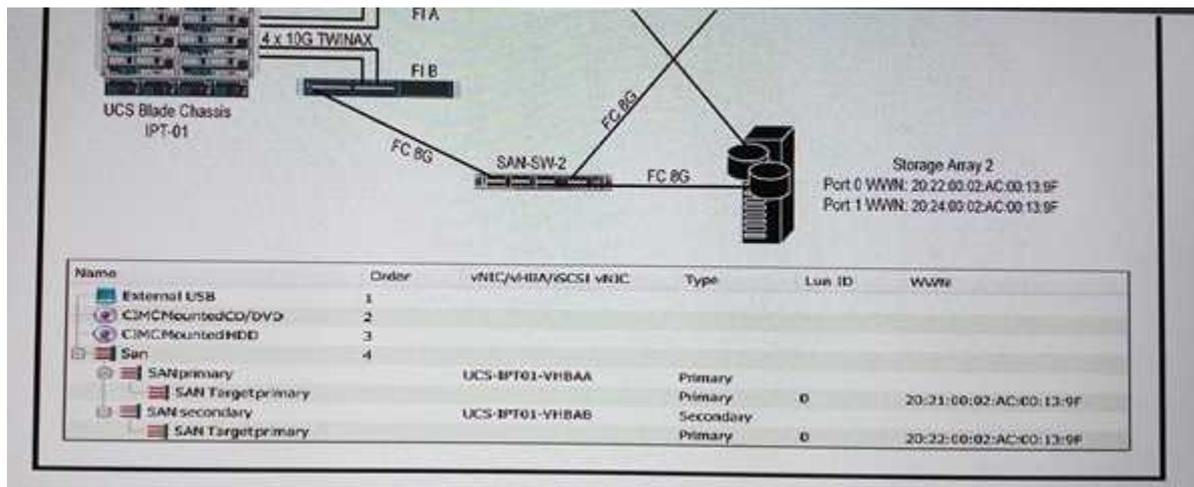
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### Question: 2

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Refer to the exhibit.



SAN-SW-1 has failed and must be replaced. Your client reports that all servers are booting from storage array 2 even though storage array 1 is up and reachable by Cisco UCS infrastructure. Which reason is the root cause of the boot anomaly?

- A. SAN target primary under SAN primary must be changed to SAN target secondary under SAN secondary.
- B. San target primary under San secondary must be changed to SAN target secondary under SAN secondary.
- C. SAN target primary under SAN secondary must be changed to SAN target secondary under SAN primary.
- D. SAN target secondary must be added to primary and SAN secondary.

**Answer: D**

**Question: 3**

Which two conditions can prevent vFC from coming up? (Choose two.)

- A. PFC is enabled.
- B. DCBX is disabled.
- C. LDP is disabled.
- D. vPC is enabled.
- E. VSAN trunking is enabled

**Answer: B, C**

**Question: 4**

Refer to the exhibit.

```
VSM-Host3(config)# port-profile type ethernet N1K-Uplink-Host3
VSM-Host3(config-port-prof)# channel-group auto mode active
```

You customer reports that the virtual machines operating on Host3 are not communicating with the external network. While troubleshooting you determine these facts:

- \* Host3 is a UCS blade chassis server connected to two fabric interconnect switches.
- \* The fabric interconnect switches are connected to the campus Cisco 6800 core switch.
- \* N1Kv is the virtual switch configured on the VMWARE hypervisor installed on Host3.
- \* port profile N1k-Uplink-Host3 is connecting Host3 virtual networks to the external network.

Which reason is the cause of this problem?

- A. port profile is the cause of this problem?
- B. port aggregation mode under the N1k-Uplink-Host3 port must be changed to passive.
- C. port aggregation mode under the N1k-uplink-Host 3 port profile must be changed to MAC pinning
- D. port aggregation mode under the N1k-Uplink-Host3 must be removed.

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**Answer: C**

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### Question: 5

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Which communication is exchanged between neighbors during OTV adjacency formation across the layer 3 multicast network?

- A. IGMP packets
- B. OTV open messages
- C. L1 IS-IS Hello packets
- D. OTV adjacency packets

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**Answer: A**

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### Question: 6

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Refer to the exhibit.

```

- # vncmd show card
Card UID type 2: 24266920-d198-11e0-0000-000000000000
Card name:
Switch name: Nexus1000v
Switch alias: DvsPortset-0
Switch uuid: ee 63 3c 50 04 b1 6d d6-58 61 ff ba 56 05 14 fd
Card domain: 27
Card slot: 3
VEM Tunnel Mode: L3 Mode
VEM Control (AIPC) MAC: 00:02:3d:10:1b:02
VEM Packet (inband/outband) MAC: 00:02:3d:20:1b:02
VEM Control Agent (DFA) MAC: 00:02:3d:40:1b:02
VEM SPAN MAC: 00:02:3d:30:1b:02
Primary VEM MAC : 00:50:56:bc:74:e1
Primary VEM EXT MAC : 00:50:56:bc:62:b4
Primary VEM MGMT MAC : 00:50:56:bc:0b:c5
Standby VEM CTRL MAC : 00:50:56:bc:6a:3d
Management IPv4 address: 14.17.168.1
Management IPv6 address:
0000:0000:0000:0000:0000:0000:0000:0000
Primary L3 Control IPv4 address: 0.0.0.0
Secondary VEM MAC : 00:00:00:00:00:00
Secondary L3 Control IPv4 address: 0.0.0.0
Upgrade : Default
Max physical ports: 32
Max virtual ports: 216
Card control VLAN: 854
Card packet VLAN: 854
Control type multicast: No
Card Headless Mode: No
Processors: 16
Processor Cores: 8
Processor Sockets: 2
Kernel Memory: 25102148
Port link-up delay: 5s
Global ODPB: DISABLED
Heartbeat Sel: True
PC LB Algo: source-mac
Datapath portset event in progress: no
Licensed: Yes

switch# show mac address-table | grep 1b02
* 168 0002.3d20.1b02 dynamic 20 F F Veth854
* 168 0002.3d20.1b02 dynamic 0 F F Veth854
* 1 0002.3d40.1b02 dynamic 1300 F F Veth854

```

Which statement describes the output of the command?

- A. The VSM is connected to the vCenter server.
- B. The ports of the host are added to the DVS on VLAN 27.
- C. The DPA interface a configured to use the incorrect VLAN.
- D. The active VSM is connected to the standby VSM.

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**Answer: A**

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**Question: 7**

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Refer to the exhibit.

```

switch# show user-account user1
user:user1
      this user account has no expiry date
      roles: tech-admin vsan-admin
no password set. local login not allowed
Remote login through RADIUS is possible

switch# show role tech-admin
Role: tech-admin
Description: Admin management group
vlan policy: permit
    
```

| Rule | Type   | Command-type | Feature     |
|------|--------|--------------|-------------|
| 1.   | permit | config       | *           |
| 2.   | deny   | config       |             |
| 3.   | permit | debug        | role<br>ntp |
| 4.   | permit | exec         | *           |

A user named user 1 cannot create roles. Which action do you take to resolve the issue?

- A. Allow user 1 to log in locally.
- B. Assign user1 to the network-admin role.
- C. Assign user1 to the tech-admin role only.
- D. Set the user password for user1.

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**Answer: D**

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**Question: 8**

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Which statement about the Nexus atomic rollback feature is true?

- A. it restores the default manufacturing configuration.
- B. Each error must be acknowledged prior to implementation.
- C. it is implemented only if error occur.
- D. it is implemented and any errors are skipped.

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**Answer: C**

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**Question: 9**

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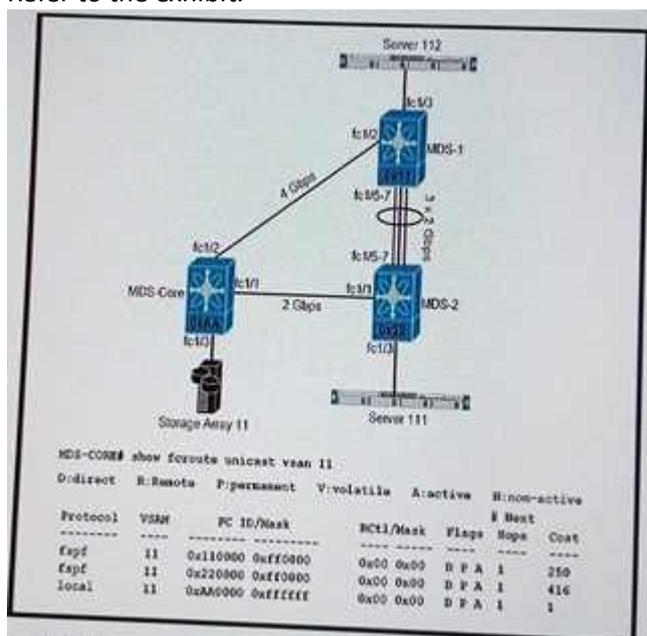
A customer has a Cisco UCS Center cluster. The customer configures LDAP as the AAA protocol and enables SSL for LDAP. The LDAP authentication fails. Which issue is the cause of the failure?

- A. The LDAP client passed an incorrect from the trustpoint.
- B. The CA certificate is missing from the trustpoints.
- C. The LDAP server limit that is set by an administrative authority was exceeded.
- D. The LDAP time limit that is specified by either the client or the server was exceeded.

**Answer: D**

**Question: 10**

Refer to the exhibit.



Your customer reports that all storage traffic from storage array 11 to server 111 is taking the longest path, traveling from MDS-1 to MDS-2. You start troubleshooting the issue by checking the Fibre Channel routing table. Which configuration set fixes the customer issues without affecting the storage array route of server 112?

- A. MDS-Core(config)# interface fc1/1  
MDS-Core(config-if)# fspf cost 90 vsan 11
- B. MDS-Core(config)# interface fc1/1  
MDS-Core(Config-if)# cost 80 vsan 11
- C. MDS-Core(config)# interface fc 1/1  
MDS-Coe(config-if)# fspf cost 60 vsan 11
- D. MDS-Core(config)# interface fc1/1  
MDS-Core(config-if)# fspf cost 70 vsan 11

**Answer: C**

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**Question: 11**


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Refer to the exhibit.

```
UCS-A# show service-profile circuit server 1/6
Service Profile: test1
Server: 1/6
Fabric ID: A
Path ID: 1
VIF vNIC Link State Oper State Prot State Prot Role Admin Pin Oper Pin Transport
-----
692 eth0 Error Error Active Primary 0/0 0/0 Ether
Fabric ID: B
Path ID: 1
VIF vNIC Link State Oper State Prot State Prot Role Admin Pin Oper Pin Transport
-----
693 eth0 Up Active Passive Backup 0/0 1/15 Ether
```

You have fabric interconnects. You discover that all traffic flows through a fabric interconnect named fabric-interconnect B.

Which of the following could cause the issue?

- A. An administrator evacuated fabric-interconnect A.
- B. There is a version mismatch between the fabric interconnects.
- C. An administrator assigned an invalid OOB IP address to fabric-interconnect B.
- D. the fabric interconnects have duplicate IP address.

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**Answer: A**

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**Question: 12**


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Refer to the exhibit.

```
DC-CORE7700(config-vdc)# allocate interface ethernet 1/1 - 3
Moving ports will cause all config associated to them in
source vdc to be removed.
Are you sure you want to move the ports (y/n)? [yes] y
ERROR: 1 or more interfaces are from a module of type not
supported by this vdc
```

You install a new Cisco Nexus F3-Series module on a Nexus 7700 Series switch. When you attempt to allocate an interface from the module to a new VDC, an error occurs. Which issue could the error?

- A. Cisco o Nexus F3-Series modules are unsupported in VDCs.
- B. The limit-resource vlan minimum 16 maximum 4094 command missing.
- C. The limit-resource module-type f3 command is missing.
- D. Cisco Nexus f3-Series modules are unsupported on Nexus 7700 Series Switches.

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**Answer: C**

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**Question: 13**


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Refer to the exhibit.

```

DC-SWITCH124 show spanning-tree vlan 701
VLAN0701
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 ForwardDelay 10 sec
Bridge ID Priority 33469 (priority 32768 sys-id-ext 701)
Address 547f.eaf7.95bc
Hello Time 2 sec Max Age 20 sec ForwardDelay 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.

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**Answer: B**

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**Question: 14**


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An administrator disassociates the service profile from a server. What happens to the identity and connectivity information for the server?

- A. it takes parameters of other servers in the service profile.
- B. it is reset to factory details.
- C. it uses master service profile parameters.
- D. it is maintain and can be reused.

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**Answer: D**

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**Question: 15**


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Which method does Cisco recommend for recovering a fabric interconnect when you have no working images on the bootflash?

- A. reboot the primary fabric interconnect.
- B. Receive the kickstart image by using TFTP.
- C. Download the system image.
- D. Initiate auto-install.

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**Answer: B**

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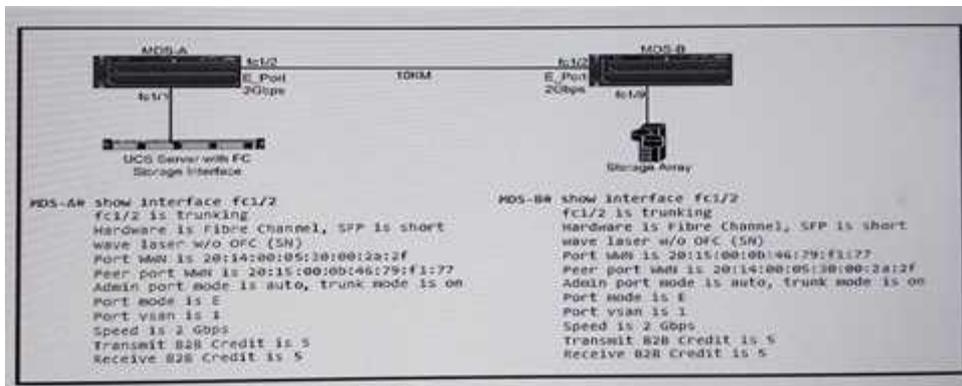


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**Question: 16**

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Refer to the exhibit.



A customer has implemented dark fiber between two Cisco MDS SAN switches. After the network is put into production, the servers in site A experience poor performance when accessing the storage array in site B. While troubleshooting this issue, you discover the buffer credit applied on the interface that connects the MDS switches is incorrect. Which buffer credit value is need to optimize the performance of the storage array access?

- A. 9
- B. 10
- C. 11
- D. 12

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**Answer: D**

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