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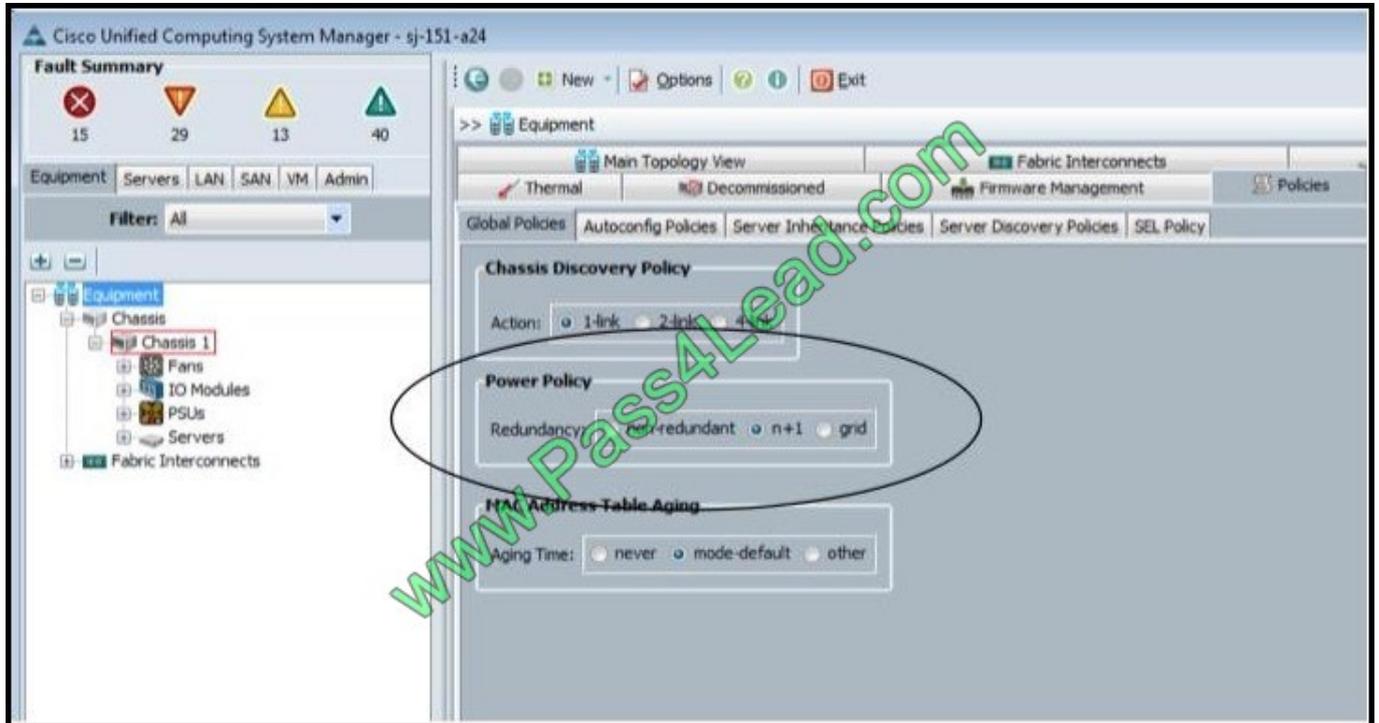
Exam Code:300-180

Exam Name:Troubleshooting Cisco Data Center
Infrastructure

Version:Demo

QUESTION 1

Refer to the exhibit.



Which type of power policy is shown when referring to a Cisco UCS environment?

- A. chassis
- B. blade server
- C. fabric interconnect
- D. global
- E. switch

Correct Answer: D

QUESTION 2

Which two options describe the correct requirements for non-disruptive ISSU on Cisco Nexus 7000 Series Switches? (Choose two.)

- A. updated kickstart and system images may be staged in bootflash on single-supervisor switches
- B. updated kickstart and system images may be staged in bootflash on dual-supervisor switches
- C. updated kickstart and system images may be staged remotely on single-supervisor switches

- D. dual supervisors
- E. clock synchronization

Correct Answer: AD

QUESTION 3

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.

Correct Answer: B

QUESTION 4

When configuring LLDP on Cisco Nexus 5548 Switch, what is the purpose of LLDP hold time global configuration command?

- A. LLDP holdtime option is to set the length of time in milliseconds that a device should save LLDP information received before discarding it.
- B. LLDP holdtime option is to set the length of time in seconds that a device should save LLDP information received before discarding it.
- C. LLDP holdtime option is to set the length of time in milliseconds to wait before performing LLDP initialization on any interface.
- D. LLDP holdtime option is to set the length of time in seconds to wait before performing LLDP initialization on any interface.

Correct Answer: B

QUESTION 5

Refer to the exhibit.



Which tab would be the most useful for troubleshooting a blade discovery problem?

- A. Faults
- B. Events
- C. FSM
- D. Servers

Correct Answer: C

QUESTION 6

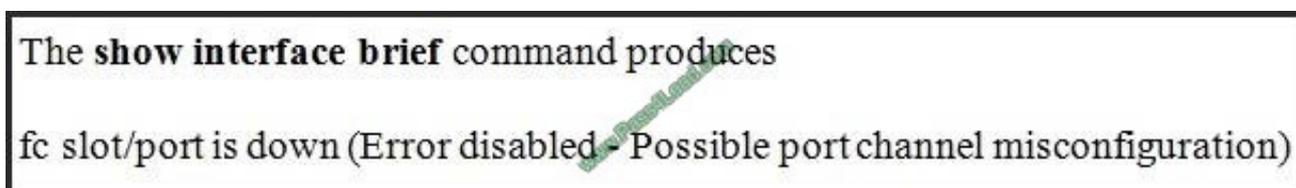
You are troubleshooting a remote Cisco UCS environment that has Cisco UCS 2208 I/O Modules. Some of the links from the IOMs to the UCS Fabric Interconnect fail to work as expected. You check whether the SFP is in place and the state of the IOM ports. Which command do you use to view the MAC and PHY status to determine whether the SFP is detected in the IOM?

- A. show platform software redwood oper
- B. show platform software woodsideoper
- C. show platform software woodsidests
- D. show platform software redwood post

Correct Answer: B

QUESTION 7

Refer to the exhibit.



What are three valid commands to troubleshoot why the port is disabled? (Choose three.)

- A. show san-port-channel compatibility-parameters
- B. show port info internal interface fc
- C. show san-port-channel internal info

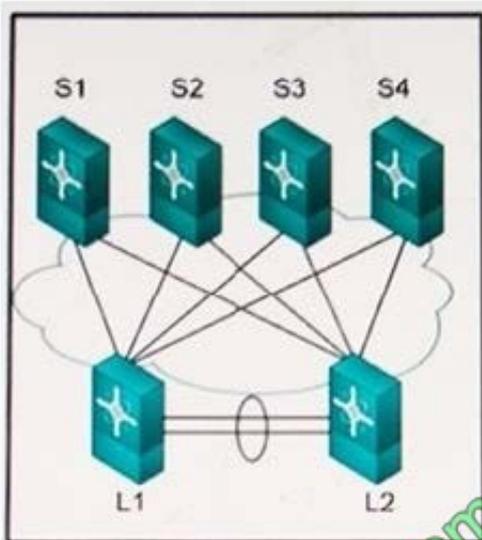
- D. show port internal event-history interface fc
- E. show interface san-port-channel detail all
- F. show san-port-channel internal event-history all
- G. show internal interface event-history all

Correct Answer: ADF

QUESTION 8

Refer to the exhibit.

You are troubleshooting a Cisco FabricPath anycast HSRP configuration issue. What is the cause of the issue?



S1-Configuration:

```

hsrp anycast 10 ipv4
switch-id 50
vlan 5, 6, 7
priority 120
no shutdown
interface Vlan5
hsrp 5
ip 1.2.3.4

```

S2-Configuration:

```

hsrp anycast 10 ipv4
switch-id 50
vlan 5, 6, 7
priority 120
no shutdown
interface Vlan5
hsrp 5
ip 1.2.3.4

```

S3-Configuration:

```

hsrp anycast 10 ipv4
switch-id 50
vlan 5, 6, 7
priority 115
no shutdown
interface Vlan5
hsrp 5
ip 1.2.3.4

```

S4-Configuration:

```

hsrp anycast 10 ipv4
switch-id 50
vlan 5, 6, 7
priority 115
no shutdown
interface Vlan5
hsrp 5
ip 1.2.3.4

```

- A. HSRP version 2 must be used with HSRP anycast.
- B. The switch ID that is used in each switch configuration must be different.
- C. L1 and L2 would not be connected.
- D. The priority for S1 and S2 is the same in each switch configuration.

Correct Answer: B

QUESTION 9

You are attempting to configure boot from SAN on your server that is attached to a Cisco MDS 9148 Fibre Channel switch. What is a possible issue that may occur?

- A. Check the status of the licenses on the Fibre Channel switch.
- B. NPV is not configured on the Fibre Channel switch.
- C. NPIV is not configured on the Fibre Channel switch.
- D. Boot from SAN is not supported via the Fibre Channel protocol.

Correct Answer: C

QUESTION 10

A customer calls in a trouble ticket complaining of unacceptable read I/O latency on a Cisco UCS C210 M2 server with an LSI MegaRAID 9260-8i with an 8-disk RAID-10 virtual disk. As you validate the RAID controller configuration, which of these configured items impacts read performance at the controller level?

- A. all disks are 146GB 6 Gb SAS 15K RPM SFF
- B. read ahead cache is enabled
- C. BGI rate = 0
- D. strip size = 256k
- E. no hot spare

Correct Answer: D

QUESTION 11

You are troubleshooting a Cisco UCS B-Series Blade Server. Drag and drop the issues from the left onto the reasons that can cause them on the right.

Select and Place:

A reboot warning containing a list of dependencies fails to appear.

A server fails to boot from the OS installed on the eUSB.

A server fails to boot after a RAID cluster migration.

The KVM console fails.

The KVM console fails to open.

The vNIC template was changed.

The boot order is incorrectly configured.

The local disk configuration policy is set to Any Configuration.

Multiple KVM session were launched simultaneously.

The version of JRE is incompatible.

Correct Answer:

A reboot warning containing a list of dependencies fails to appear.

A server fails to boot from the OS installed on the eUSB.

A server fails to boot after a RAID cluster migration.

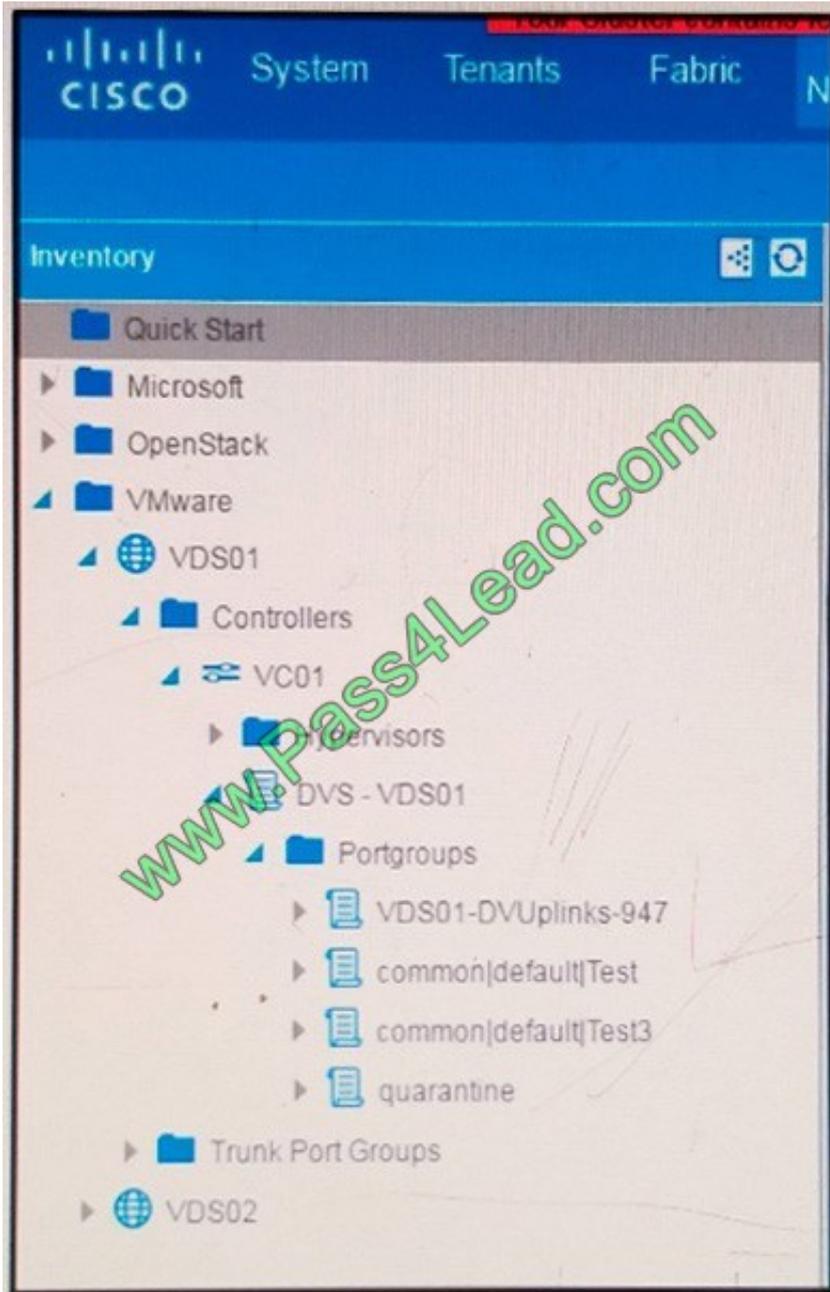
The KVM console fails.

The KVM console fails to open.

Reference: https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ts/guide/UCSTroubleshooting/UCSTroubleshooting_chapter_0100.html

QUESTION 12

Refer to the exhibit.



You have an EPG named SQL_SERVERS that must be assigned to virtual machines. The SQL_SERVERS EPG fails to appear as a port group on the VMware vSphere web client. Other EPGs appear as port groups on the vSphere web client.

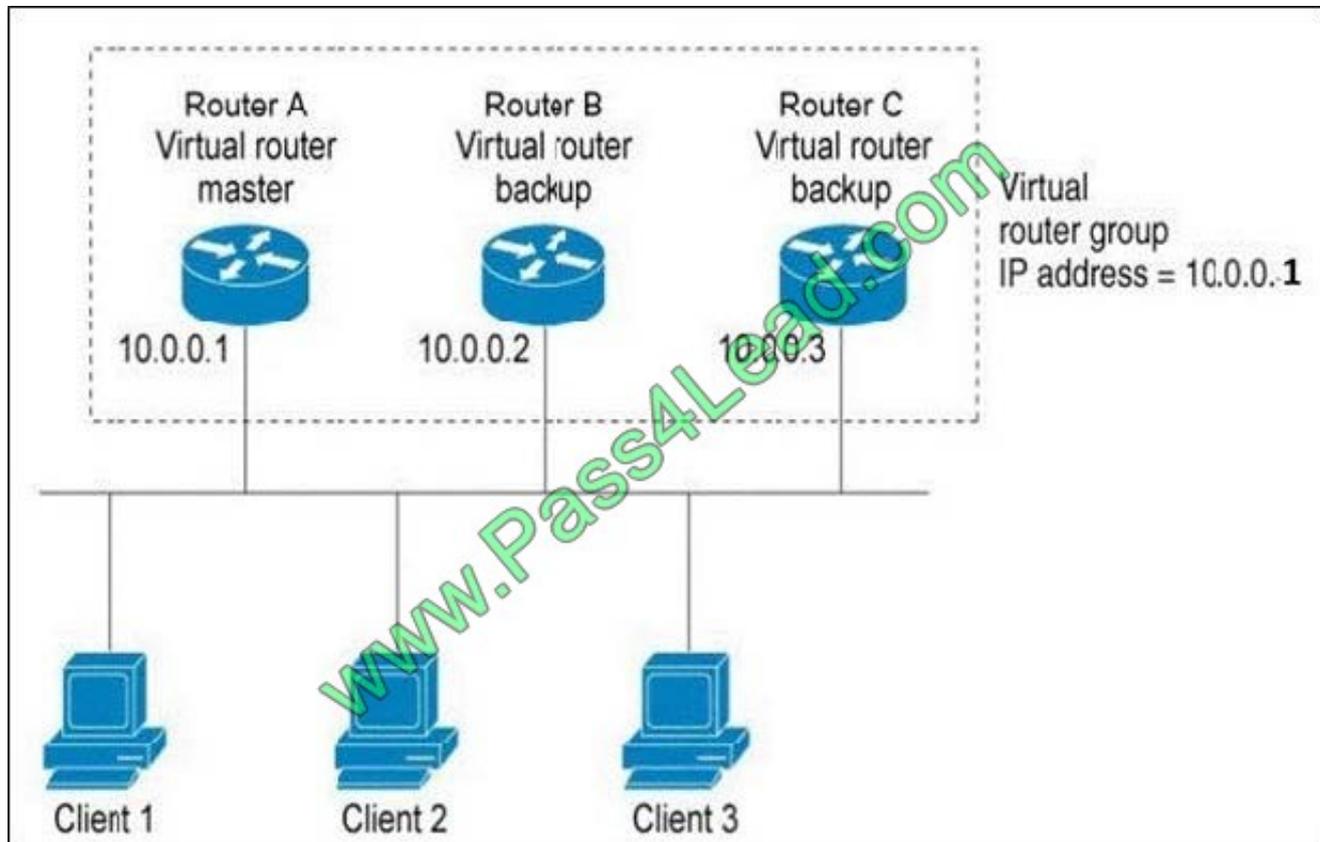
Which action do you take to resolve the issue?

- A. Create the SQL_SERVERS port group on the vSphere web client.
- B. Create the SQL_SERVERS port group in the APIC GUI.
- C. Place the SQL_SERVERS EPG under quarantine until it is first used.
- D. Associate the SQL_SERVERS EPG to the VDS01 VMM domain.

Correct Answer: B

QUESTION 13

Refer to the exhibit.



Which statement about the topology is true?

- A. Traffic to and from LAN clients is sent through the master router only.
- B. Clients 1, Client 2, and Client 3 are configured to have the default gateway IP address of 10.0.0.1.
- C. If Router A fails, the highest interface IP address backup router becomes the master.
- D. Multiple VRRP groups are configured on each router.

Correct Answer: A

QUESTION 14

The Cisco UCS Manager displays FSM information for which four of these? (Choose four.)

- A. which FSM task is being executed
- B. the current state of an FSM task

- C. the status of the previous FSM task
- D. any error codes returned while processing
- E. all completed FSM tasks
- F. multiple FSM tasks that completed over multiple tries
- G. multiple FSM tasks that failed

Correct Answer: ABCD

QUESTION 15

What the default MTU size of a VMware host?

- A. 1000
- B. 1500
- C. 1550
- D. 9000

Correct Answer: B

QUESTION 16

Which feature must be enabled before the Data Center Bridging Exchange Protocol can be run on a switch?

- A. IEEE 802.1ad
- B. Fibre Channel
- C. CDP
- D. LLDP

Correct Answer: D

QUESTION 17

Which two fields should be examined when you use the show otv overlay command to verify that the overlay interface is enabled and the parameters match on both sides? (Choose two.)

- A. VPN name
- B. VPN state

- C. Control group
- D. Data group range
- E. Join interface
- F. Site VLAN

Correct Answer: BC

QUESTION 18

Before using the UCS Manager to configure SAN and network connectivity in the service profile, which two components needs to be created? (Choose two.)

- A. vHBA
- B. global VSAN
- C. vNIC
- D. global VLAN

Correct Answer: BD

QUESTION 19

Which action do you take to determine why the interface e1/10 is not present in the core VDC for configuration?

- A. Check the admin VDC to see the port e1/10 is allocated.
- B. Check the core VDC to see if the port e1/10 is allocated.
- C. Check to see if the cable is connected to the e1/10 interface,
- D. Check to see if vPC is enabled

Correct Answer: B

QUESTION 20

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.

Correct Answer: A

QUESTION 21

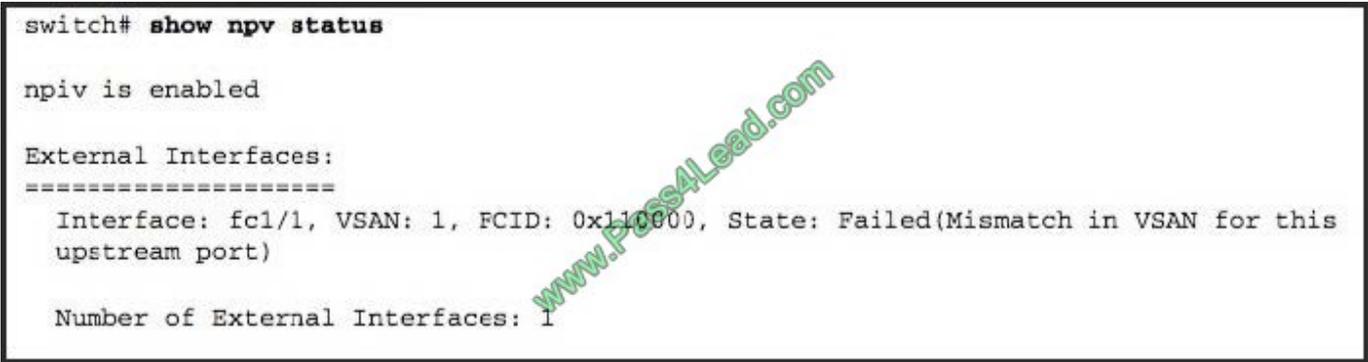
Refer to the exhibit.

```
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 suspending or deleting VSANs, which three statements are true? (Choose three.)

- A. You can delete only one VSAN at a time.
- B. You must wait 60 seconds after you enter the vsan suspend command before you enter another command.
- C. You must wait 120 seconds after you enter the vsan suspend command before you enter another command.
- D. You can unsuspend only one VSAN at a time.
- E. You can delete multiple VSANs as long as they are in the same domain.
- F. You can delete multiple VSANs as long as they are in the same zone.

Correct Answer: ABD

QUESTION 22

```
N5k# rollback running-config checkpoint TEST
```

```
Collecting Running-Config
```

```
Generating Rollback patch for switch profile
```

```
Executing Rollback patch for switch profiles. WARNING
```

```
- This will change the configuration of switch profiles and will also affect any peers if configured
```

```
=====
```

```
`config sync`
```

```
`switch-profile Test`
```

```
Switch-Profile started, Profile ID is 1
```

```
`interface port-channel100`
```

```
`switchport mode trunk`
```

```
Syntax error while parsing 'vpc peer-link'
```

```
=====
```

```
Generating Running-config for verification
```

```
Verification failed, rolling back to previous configuration
```

```
Collecting Running-Config
```

```
2016 Oct 14 07:43:12 switch %$ VDC-1 %$ %ASCII-CFG-2-ACFG_OPER_FAIL: Operation failed because of Rollback Patch is not Empty
```

```
...
```

Refer to the exhibit. Why did the configuration synchronization rollback fail?

- A. The switch profile is incorrect.
- B. The checkpoint test does not exist.
- C. The rollback patch is not empty.
- D. The vPC is not configured.

Correct Answer: C

What is the correct procedure to change Ethernet switching modes?

- A. Navigate to the subordinate Fabric Interconnect in the GUI, choose "Set Ethernet Switching mode", wait for it to come back up, and repeat on the primary FI.
- B. Navigate to either Fabric Interconnect in the GUI, choose "Set Ethernet Switching mode", and wait while both FIs reboot simultaneously.
- C. Navigate to either Fabric Interconnect in the GUI and transparently update the mode to switching. Repeat on the other Fabric Interconnect.
- D. Simply start using the switching features. The Fabric Interconnect automatically reconfigures to use Ethernet Switching Mode.

Correct Answer: B

QUESTION 24

Refer to the exhibit.

```
port-profile type ethernet uplink-storage
  vmware port-group
  switchport mode trunk
  switchport trunk native vlan 50
  switchport trunk allowed vlan 50,60-70
  no shutdown
  system vlan 60-70
  state enabled
```

```
N1K # config t
N1K(config)# port-profile type ethernet uplink-storage
N1K(config-port-prof)# switchport trunk allowed vlan remove 70
```

```
ERROR! This config blocked for system vlan profiles. Remove
system vlans and retry.
```

Which action removes the system designation from VLAN 70?

- A. Create another port profile that excludes VLAN 70.
- B. Shut down the port profile first.
- C. Delete the uplink-storage port profile, and then recreate it.
- D. Remove VLAN 70 from the trunk first.

Correct Answer: C

QUESTION 25

Refer to the exhibit.

```
Flags: D - Down      P - Up in port-channel (members)
       I - Individual H - Hot-standby (LACP only)
       s - Suspended r - Module removed
       S - Switched  R - Routed
       U - Up (port-channel)
       M - Not in use. Min-links not met
```

Group	Port-Channel	Type	Protocol	Member	Ports
20	Po20 (SD)	Eth	LACP	Eth1/3 (s)	Eth2/2 (s)

An administrator is trying to configure a port channel on a Cisco Nexus 7000 Series Switch, which is connected to a Cisco Nexus 5500 Series Switch. The port channel will not come up, so the administrator executes the show port-channel summary command on the Cisco Nexus 7000 Series Switch and displays the output.

What are two causes of the error? (Choose two.)

- A. The Cisco Nexus 7000 Series Switch needs to be configured with no lacp suspend-individual.
- B. The Cisco Nexus 5500 Series Switch is configured with channel-group mode on.
- C. The LACP feature has not been enabled on the Cisco Nexus 7000 Series Switch.
- D. The ports are cabled to the wrong switch.
- E. The port channel load-balancing algorithm does not match.

Correct Answer: AB

QUESTION 26

Which statement is true regarding Cisco FabricPath?

- A. It is necessary to first install the Cisco FabricPath feature set in the default VDC.
- B. Cisco FabricPath is only available on Cisco Nexus 7010 Switches with the Supervisor 2 engine.
- C. Cisco FabricPath cannot be disabled explicitly for a specific VDC.
- D. If the Cisco FabricPath feature is not installed, the fabricpath keyword will be available in the feature-set command.

Correct Answer: A

QUESTION 27

What should you do when you see faults during the initial setup and discovery process?

- A. Take note and address the faults.
- B. You can safely ignore these faults.
- C. Log them and try to address the first one.
- D. Reboot until the error messages go away.

Correct Answer: B

QUESTION 28

Which three requirements are needed to configure a blade to boot successfully from Fibre Channel? (Choose three.)

- A. zoning
- B. LUN masking
- C. WWPN device alias
- D. boot from SAN policy
- E. SAN connectivity policy
- F. port assignment
- G. target WWPN needs to be set in the boot from SAN policy

Correct Answer: ABD

QUESTION 29

After disassociating a service profile from a server, you attempt to associate the service profile to a different server. Which policy in the service profile can prevent it from being associated to a different server?

- A. SAN connectivity
- B. maintenance
- C. LAN connectivity
- D. power management

Correct Answer: D

QUESTION 30

Which two issues will cause a reboot of a Cisco UCS fabric interconnect? (Choose two.)

- A. The kernel space process crashed
- B. The kernel ran out of memory
- C. A user login failed
- D. The kernel was upgraded
- E. The FEX ports are unreachable

Correct Answer: AB

QUESTION 31

On the Cisco Nexus 7000 Series Switch, what could be the reason why the (config- vlan)#private-vlan primary command fails?

- A. There are not enough resources in the VDC.
- B. You are using a reserved VLAN ID.
- C. The VLAN is a secondary VLAN.
- D. The interface is in the wrong VRF.
- E. The PVLAN feature is not enabled.
- F. The VLAN does not exist.

Correct Answer: E

QUESTION 32

The traffic across your port channels seems to be favoring one link over the other. How can you adjust the load-balancing policy to include source and destination MAC addresses, IP address, and TCP port?

- A. kcdc-5010-1(config-if)# port-channel load-balance ethernet source-dest-port
- B. kcdc-5010-1(config-if)# port-channel load-balance ethernet source-dest mac ip port
- C. kcdc-5010-1(config)# port-channel load-balance ethernet source-dest-port
- D. kcdc-5010-1(config)# port-channel load-balance ethernet source-dest mac ip port

Correct Answer: C

QUESTION 33

In order to fulfill the requirement to prevent the creation of end-to-end loops across a multihomed OTV network that

connects two different data centers, what is the solution to this problem?

- A. prioritize the transmission of STP BPDUs across the overlay
- B. design the DCI connectivity as a hub and spoke
- C. define a conservative TTL for all packets traversing the OTV network
- D. enable AED on a per-VLAN basis between each OTV edge device with the same site ID

Correct Answer: D

QUESTION 34

A customer is trying to boot an operating system installed on a Cisco UCS B-Series blade server after a RAID1 cluster migration. The RAID LUN remains in inactive state during and after the service profile association and the server does not boot. What is the cause of this problem?

- A. RAID1 is not supported in cluster migration mode on a Cisco UCS B-Series blade server.
- B. The local disk configuration policy in the service profile on the server is configured with Any Configuration mode rather than RAID1.
- C. The server needs to be booted via SAN in cluster migration to support RAID1.
- D. The Cisco UCS B-Series blade server has older firmware that needs to be updated first.

Correct Answer: B

QUESTION 35

Refer to the exhibit.

```
switch# show npv status

npiv is enabled

Server Interfaces:
=====
  Interface: fcl/6, VSAN: 1, NPIV: No, State: Waiting for FLOGI

Number of Server Interfaces: 7
```

Customer encounters the problem as shown in the exhibit. What 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. Multiple external links must be up for the server to come up.
- D. Internal links are down and must be up for the server interface to be up.

Correct Answer: A

QUESTION 36

A customer is troubleshooting FCoE in its network and sees pause counters increasing when it runs the command show interface eth1/5. What is the cause of this?

- A. The CNA connected to the switch is sending Xon or Xoff PFC frames.
- B. The HBA connected to the switch is sending Xon or Xoff PFC frames.
- C. Pause counters increase regularly; there is nothing to be concerned about.
- D. A firmware upgrade on the Fibre Channel adapter that is connected to the switch will fix this issue.

Correct Answer: A

QUESTION 37

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

Correct Answer: D

QUESTION 38

After removing a VMM domain from an EPG, you discover that the associated virtual port groups remain in the VMware vCenter configuration. What causes the virtual port groups to persist in the configuration?

- A. The MAC addresses that are learned by the ports of the spine switches are incorrect.
- B. The port groups are being used by a virtual machine network adapter.
- C. The MAC addresses that are learned by the ports of the leaf switches are incorrect
- D. There is a mismatch between the data center name in vCenter and the VMM controller policy.

Correct Answer: B

QUESTION 39

When you look at the HSRP state for devices on a VLAN that is extended by OTV, you see the following states: Active, Standby, and Listen. However, you intended each data center device to show the state as Active and Standby. What is the problem?

- A. HSRP is not configured correctly.
- B. A VACL is missing.
- C. A PACL is missing.
- D. This cannot be done.

Correct Answer: B

QUESTION 40

Which command must you use to identify an active VIF for a particular blade in a Cisco UCS B-Series chassis?

- A. `scope service-profile server [blade_slot]`
- B. `show cluster extended-state`
- C. `show pinning border-interfaces`
- D. `show service-profile circuit server [blade_slot]`

Correct Answer: D

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