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300-615

Troubleshooting Cisco Data Center Infrastructure



Sections

1. Network
2. Compute Platforms
3. Storage Network
4. Automation
5. Management and Operations

Exam A

QUESTION 1

A vPC Type-1 inconsistency between two vPC peers in a VXLAN EVPN setup is discovered. Which two actions need to be attempted to resolve the issue? (Choose two.)

- A. Configure the NVE interfaces to be Up on both switches.
- B. Set a different distributed gateway virtual MAC address.
- C. Set a different secondary IP addresses on NVE source-interface.
- D. Configure the same VNI to multicast group mapping.
- E. Set a different primary IP addresses on NVE source-interface.

Correct Answer: AD

Section: Network

Explanation

Explanation/Reference:

QUESTION 2

A mission-critical server is connected to site A. Connectivity to this server is lost from site B because the MAC route is missing in the OTV VDC of the Nexus 7000 in site B due to MAC aging. Which action allows the flooding of the unknown unicast MAC on the Nexus 7000 in the OTV VDC?

- A. Use route-map to advertise this MAC statically and redistribute with ISIS.
- B. Unknown unicast flooding is not allowed.
- C. Use the **otv flood mac** <> command to selectively flood traffic for a given MAC.
- D. Use the **otv isis bfd** <> command to configure BFD protocol.

Correct Answer: B

Section: Network

Explanation

Explanation/Reference:



QUESTION 3

```
Switch-B# show vpc
vPC domain id: 34
Peer status : peer adjacency formed ok
vPC keep-alive status : peer is alive
Configuration consistency status : success
Per-vlan consistency status : success
Type-2 consistency status : success
vPC role : primary, operational secondary
Number of vPCs configured : 49
Peer Gateway : Enabled
Peer gateway excluded VLANs: -
Dual-active excluded VLANs : -
Graceful Consistency Check: Enabled
Auto-recovery status: Enabled (timeout = 240 seconds)
```

Refer to the exhibit. After a failover occurs, which two actions must be performed on Switch-B to manually preempt the operational primary role back to Switch-A? (Choose two.) A.

Configure the local vPC role priority to have a lower value than Switch-A.

- B. Configure the local vPC role priority to have a higher value than Switch-A.
- C. Disable and then re-enable the vPC peer-keepalive link.
- D. Configure the local vPC role priority to have the same value as Switch-A.
- E. Disable and then re-enable the vPC peer link.

Correct Answer: BE

Section: Network

Explanation

Explanation/Reference:

QUESTION 4

```
Debug messages from Router-A
OSPF: Rcv DBD from 10.100.1.2 on GigabitEthernet0/1 seq 0x2124 opt 0x52 flag 0x2
      len 1452 mtu 2000 state EXSTART
OSPF: Nbr 10.100.1.2 has larger interface MTU
SPF: Send DBD to 10.100.1.2 on GigabitEthernet0/1 seq 0x9E6 opt 0x52 flag 0x7
      len 32
OSPF: Retransmitting DBD to 10.100.1.2 on GigabitEthernet0/1 [10]
OSPF: Send DBD to 10.100.1.2 on GigabitEthernet0/1 seq 0x9E6 opt 0x52 flag 0x7
      len 32
OSPF Retransmitting DBD to 10.100.1.2 on GigabitEthernet0/1[11]
%OSPF-5-ADJCHG: Process 1, Nbr 10.100.1.2 on GigabitEthernet0/1 from EXSTART to
      DOWN, Neighbor Down: Too many retransmissions

Debug messages from Router-B
OSPF: Rev DBD from 10.100.100.1 on GigabitEthernet0/1 seq 0x89E opt 0x52 flag 0x7
      len 32 mtu 1600 state EXCHANGE
OSPF: Nbr 10.100.100.1 has smaller interface MTU
```

Refer to the exhibit. An OSPF adjacency between Router-A and Router-B cannot reach the FULL state. Which action resolves the issue?

- A. Adjust the MTU on Router-A to 1600.
- B. Disable the check of the MTU value.
- C. Set the OSPF media type to point-to-point.
- D. Adjust the MTU on Router-B to 1604.

Correct Answer: B

Section: Network

Explanation

Explanation/Reference:

QUESTION 5

The Cisco Nexus switch is connected to a peer switch that is not running Cisco NX-OS. The switches are connected using port channel and are experiencing packet loss. Which action should be performed on the Cisco Nexus switch ports to resolve this issue?

- A. Turn on lACP suspend-individual.
- B. Turn on lACP graceful-convergence.

- C. Turn off lACP graceful-convergence.
- D. Turn off lACP suspend-individual.

Correct Answer: C

Section: Network

Explanation

Explanation/Reference:

QUESTION 6

```
interface Vlan26
  description VLAN_26_FINANCE
  no shutdown
  mtu 9000
  vrf member TENAT1
  no ip redirects
  ip address 10.26.1.2/24
  hsrp 26
    authentication md5 key-string C1sc012345
    preempt
    priority 101
    ip 10.26.1.1
```

Refer to the exhibit. The HSRP configuration in the exhibit fails to function. Which action resolves this issue?

- A. Enable IP redirects.
- B. Set the MTU to 1500 bytes.
- C. Configure HSRP version 2.
- D. Configure the same HSRP group on both devices.



Correct Answer: A

Section: Network

Explanation

Explanation/Reference:

QUESTION 7

```

N9K-A                               N9K-B
interface Vlan100                    interface Vlan100
ip address 10.10.100.194/26          ip address 10.10.100.195/26
ip router eigrp 50                   ip router eigrp 50
ip passive-interface eigrp 50       ip passive-interface eigrp 50
hsrp 100                             hsrp 100
authentication text pa$$word        authentication text pa$$word
preempt                              preempt
priority 150                         priority 120
timers msec 500 msec 1000           timers msec 300 msec 1500
ip 10.10.100.193                    ip 10.10.100.193
no shutdown                          no shutdown

N9K-A# sh hsrp brief
*:IPv6 group #:group belongs to a bundle
                                P indicates configured to preempt.
Interface  Grp  Prio  P State Active addr Standby  addr  Group addr
Vlan100    100  150  P Active local          unknown 10.10.100.193 (conf)

N9K-B# sh hsrp brief
*:IPv6 group #:group belongs to a bundle
                                P indicates configured to preempt.
Interface  Grp  Prio  P State Active addr Standby  addr  Group addr
Vlan100    100  120  P Active local          unknown 10.10.100.193 (conf)

```

Refer to the exhibit. The HSRP instance on both switches is showing as active. Which action resolves the issue?

- A. Configure the HSRP timers to be the same.
- B. Allow VLAN 100 between the switches.
- C. Configure the IP address of N9K-B on the same subnet as N9K-A.
- D. Configure preempt on only one of the switches.

Correct Answer: B

Section: Network

Explanation

Explanation/Reference:

QUESTION 8

An engineer is troubleshooting a fabric discovery failure. Which two requirements must an engineer verify about switch connectivity to solve the problem? (Choose two.)

- A. A Cisco APIC must be attached to a spine node only.
- B. A Cisco APIC must be attached to leaf nodes.
- C. Spine nodes must connect to other spine nodes.
- D. A Cisco APIC must be dual-attached to two separate spine nodes.
- E. Leaf nodes must connect to spine nodes only.

Correct Answer: BE
Section: Network
Explanation

Explanation/Reference:

QUESTION 9

```
vrf context management
ip name-server 4.2.2.2
ip route 0.0.0.0/0 192.168.30.2

interface mgmt0
ip address dhcp
vrf member management

N9K-Core# ping google.com vrf management
PING google.com (216.58.209.238): 56 data bytes
64 bytes from 216.58.209.238: icmp_seq=0 ttl=127 time=151.982 ms
64 bytes from 216.58.209.238: icmp_seq=1 ttl=127 time=136.198 ms
64 bytes from 216.58.209.238: icmp_seq=2 ttl=127 time=224.796 ms
64 bytes from 216.58.209.238: icmp_seq=3 ttl=127 time=148.458 ms
64 bytes from 216.58.209.238: icmp_seq=4 ttl=127 time=129.98 ms

- - - google.com ping statistics - - -
5 packets transmitted, 5 packets received, 0.00% packet loss
round-trip min/avg/max = 129.98/158.282/224.796 ms
```

Refer to the exhibit. A network engineer has connected the Nexus switch management port to the Internet using DHCP to allow the Guest shell running on the switch to download Python packages. The engineer can ping google.com successfully from the Nexus switch, but the Guest shell failed to download any Python packages. Which action resolves the problem?

- A. Update the Python packages on the Cisco Nexus switch directly.
- B. Manually configure DNS in the Guest shell, even if it is claimed on the Cisco Nexus switch through DHCP.
- C. Manually configure NTP in the Guest shell.
- D. Connect Guest shell to data plane interfaces to be able to connect to the networks outside the Cisco Nexus switch.

Correct Answer: B
Section: Network
Explanation

Explanation/Reference:

QUESTION 10

```

switch1# show vpc brief
Legend:
(*) - local vPC is down, forwarding via vPC peer-link

vPC domain id : 500
Peer status : peer link is down
vPC keep-alive status : Suspended (Destination IP not reachable)
Configuration consistency status : success
vPC role : secondary, operational primary
Number of vPCs configured : 4
Peer Gateway : Disabled
Dual-active exluded VLANs : -

vPC Peer-link status
-----
id  Port  Status  Active  vlans
-----
1  Po500  down    -

switch2# show vpc brief
Legend:
(*) - local vPC is down, forwarding via vPC peer-link

vPC domain id : 20
Peer status : peer link is down
vPC keep-alive status : Suspended (Destination IP not reachable)
Configuration consistency status : success
vPC role : secondary, operational primary
Number of vPCs configured : 4
Peer Gateway : Disabled
Dual-active exluded VLANs : -

vPC Peer-link status
-----
id  Port  Status  Active  vlans
-----
1  Po500  down    -

```



Refer to the exhibit. vPC between switch1 and switch2 is not working. Which two actions are needed to fix the problem? (Choose two.)

- A. Match vPC domain ID between the two devices.
- B. Configure IP address on the interface.
- C. Activate VLANs on the vPC.
- D. Configure vPC peer link and vPC peer keepalive correctly.
- E. Configure one of the switches as primary for the vPC.

Correct Answer: AC

Section: Network

Explanation

Explanation/Reference:

QUESTION 11

```
Sw1(config) # sh ip mroute
IP Multicast Routing Table for VRF "default"

(*, 239.0.23.89/32), uptime: 6w2d, ip pim nve
  Incoming interface: Ethernet2/2, RPF nbr: 192.168.21.1
  Outgoing interface list: (count: 1)
    nve1, uptime: 2d01h, nve

(9.9.3.12/32, 239.0.23.89/32), uptime: 6w2d, mrrib ip pim nve
  Incoming interface: loopback1, RPF nbr: 9.9.3.12
  Outgoing interface list: (count: 1)
    Ethernet2/2, uptime: 18:58:44, pim

Sw2# sh ip mroute
IP Multicast Routing Table for VRF "default"

(*, 239.0.23.89/32), uptime: 24w3d, ip pim nve
  Incoming interface: Ethernet2/2, RPF nbr: 192.168.22.1
  Outgoing interface list: (count: 1)
    nve1, uptime: 19w1d, nve

(9.9.3.12/32, 239.0.23.89/32), uptime: 24w3d, mrrib ip pim nve
  Incoming interface: loopback1, RPF nbr: 9.9.3.12
  Outgoing interface list: (count: 0)
```



Refer to the exhibit. Sw1 and Sw2 are two Cisco Nexus 9000 Series Switches that run Cisco NX-OS. They are VTEPs in the same vPC domain. Which statement describes what happens in this scenario?

- A. Sw1 drops all traffic because there is no (S, G) OIF list to encapsulate VXLAN multicast packets and send them out to the underlay network through the uplink interfaces.
- B. Sw1 performs the VxLAN multicast encapsulation and decapsulation for all traffic associated with the VxLAN VNIs.
- C. Sw1 and switch 2 perform the VxLAN multicast encapsulation and decapsulation for all traffic associated with the VxLAN VNIs, depending on the hashing.
- D. Sw2 did not send an IP PIM register to the rendezvous point for the multicast group of the VXLAN VNI.

Correct Answer: B

Section: Network

Explanation

Explanation/Reference:

QUESTION 12

A customer configures HSRP between two data centers that are interconnected with OTV. The configuration succeeds, but traffic between two ESXi virtual hosts on the same site is routed suboptimally through the OTV overlay. Which two actions optimize the traffic? (Choose two.)

- A. Disable first-hop redundancy.
- B. Filter HSRP traffic by using a Layer 3 VACL on the OTV edge devices.
- C. Filter HSRP by using a Layer 2 MAC-list on the ESXi vSwitch.
- D. Filter HSRP traffic by using a Layer 3 VACL on the ESXi vSwitch.
- E. Filter HSRP by using a Layer 2 MAC-list on the OTV edge devices.

Correct Answer: AB

Section: Network

Explanation

Explanation/Reference:

QUESTION 13

An engineer removes a VMM domain from an endpoint group called EPG-1, but the distributed port group fails to be deleted. Which action must be taken to resolve the issue?

- A. Remove the port group manually.
- B. Migrate all virtual machines in the EPG-1 to different hypervisors.
- C. Remove the remaining EPGs from the VMM domain.
- D. Migrate all virtual machines in the EPG-1 to different port groups.

Correct Answer: C

Section: Network

Explanation

Explanation/Reference:

**QUESTION 14**

```
Nexus7K-1# show configuration interface
vlan50
interface Vlan50
  no shutdown
  ip address 10.35.164.2/25
  hsrp version 2
  hsrp 50
    preempt
    priority 150
    ip 10.35.164.1

Nexus7K-2# show configuration interface
vlan50
interface Vlan50
  no shutdown
  ip address 10.35.164.3/25
  hsrp 50
    preempt
    priority 50
    ip 10.35.164.1
```

Refer to the exhibit. HSRP adjacency fails to form between Nexus7K-1 and Nexus7K-2. Which action should be taken to solve the problem?

- A. Configure preempt on one of the switches in the HSRP group.
- B. Configure the same HSRP priority between the two switches.
- C. Configure the correct subnet mask on Nexus7K-1.
- D. Configure HSRP version 2 on Nexus7K-2.



Correct Answer: D
Section: Network
Explanation

Explanation/Reference:

QUESTION 15 An engineer is troubleshooting a packet flow from an access leaf to spine. Which EVPN routes are expected on this connection?

- A. EVPN Type 1-5
- B. EVPN Type 0,9,15
- C. EVPN Type 9-15D. EVPN Type 0,16

Correct Answer: A
Section: Network
Explanation

Explanation/Reference:

QUESTION 16

```
switch# show interface fc1/5
fc1/5 is down (NPV upstream port not available)
Hardware is Fibre Channel, SFP is short wave laser w/o OFC (SN)
Port WWN is 20:47:00:0d:ac:a4:3b:83
Admin port mode is F, turnk mode is off
snmp link state traps are enabled
Port vsan is 100
    Receive data field Size is 2112
```

Refer to the exhibit. Interface fc1/5 is offline. Which action should be taken to troubleshoot the issue?

- A. Activate the correct zoneset for VSAN 100.
- B. Update the FLOGI database to contain the FLOGI entries for interface fc1/5 in VSAN 100.
- C. Update the FCNs database to contain names for VSAN 100.
- D. Configure the upstream ports and the server ports to be in VSAN 100.

Correct Answer: D

Section: Compute Platforms

Explanation

Explanation/Reference:

QUESTION 17

DRAG DROP

An engineer is troubleshooting issues in Cisco UCS Director. Drag and drop the possible causes from the left onto the correct issues on the right.

Select and Place:

Correct Answer:

Section: Compute Platforms

Explanation

Explanation/Reference:

QUESTION 18

```
Nexus# show install all impact system bootflash:///n5000-uk9.7.1.4.N1.1.bin
```

```
<...>
```

```
Extracting "bios" version from image bootflash:///n5000-uk9.7.1.4.N1.1.bin.
[[#####] 100% -- SUCCESS
```

```
Extracting "fexth" version from image bootflash:///n5000-uk9.7.1.4.N1.1.bin.
[#####] 100% -- SUCCESS
```

```
Recommended action::
```

```
"Module 1 3 might not be supported in the new image,
it should be powered off before proceeding with install".
```

```
Performing module support checks.
```

```
[#####] 100% -- SUCCESS
```

```
Compatibility check is done:
```

```
Module bootable Impact Install-type Reason
```

```
-----
1 no disruptive reset ISSD is not supported and switch will reset with ascii
configuration
```

```
3 no n/a n/a Incompatible image
```

```
105 yes disruptive reset ISSD is not supported and switch will reset with ascii
configuration
```

```
Nexus# show module
```

```
Mod Ports Module-Type Model Status
```

```
-----
1 32 02 32X10GE/Modular Universal Platfo N5K-C5548UP-SUP active *
3 0 02 Daughter Card with L3 ASIC N55-D160L3-V2 ok
```

```
Mod Sw Hw World-Wide-Name(s) (WWN)
```

```
-----
1 7.3(4) N1(1) 1.0 - -
3 7.3(4) N1(1) 1.0 - -
```

```
Nexus# show fex
```

```
FEX FEX FEX FEX Fex
```

```
Number Description State Model Serial
```

```
-----
105 FEX0105 Online N2K-C2248TP-1GE FOX1938GPUY
```

```
Nexus# sh incompatibility-all system bootflash:///n5000-uk9.7.1.4.N1.1.bin
```

```
The following configurations on active are incompatible with the system image
```

```
1) Service : nxapi, Capability : CAP_FEATURE_NXAPI
```

```
Description : NX-API is enabled.
```

```
Capability requirement : STRICT
```

```
Enable/Disable command : Disable NX-API with the command: "no feature nxapi"
```

Refer to the exhibit. A switch is being downgraded to an earlier release because of a problem with the current release. After the switch is downgraded, it can no longer forward traffic. Which action resolves the issue?

- A. Enable ISSD after the downgrade is complete.
- B. Roll back to the original image.
- C. Reload the switch.
- D. Shut and no shut the interfaces to the FEX.

Correct Answer: B

Section: Compute Platforms

Explanation

Explanation/Reference:

QUESTION 19

```
Cisco VIC iSCSI, Boot Driver Version 2.0 (1w)
(C) 2010 Cisco Systems, Inc.
Initialize error 1
```

Refer to the exhibit. An engineer is configuring boot from iSCSI on a Cisco UCS B-Series Blade Server, but the LUN fails to mount. Which action resolves the issue?

- A. Statically configure the target information in the Boot Policy.
- B. Configure an MTU size of 9000 on the appliance port.
- C. Configure a QoS policy on the vNIC.
- D. Set a connection timeout value of 250 in the iSCSI Adapter Policy.

Correct Answer: A

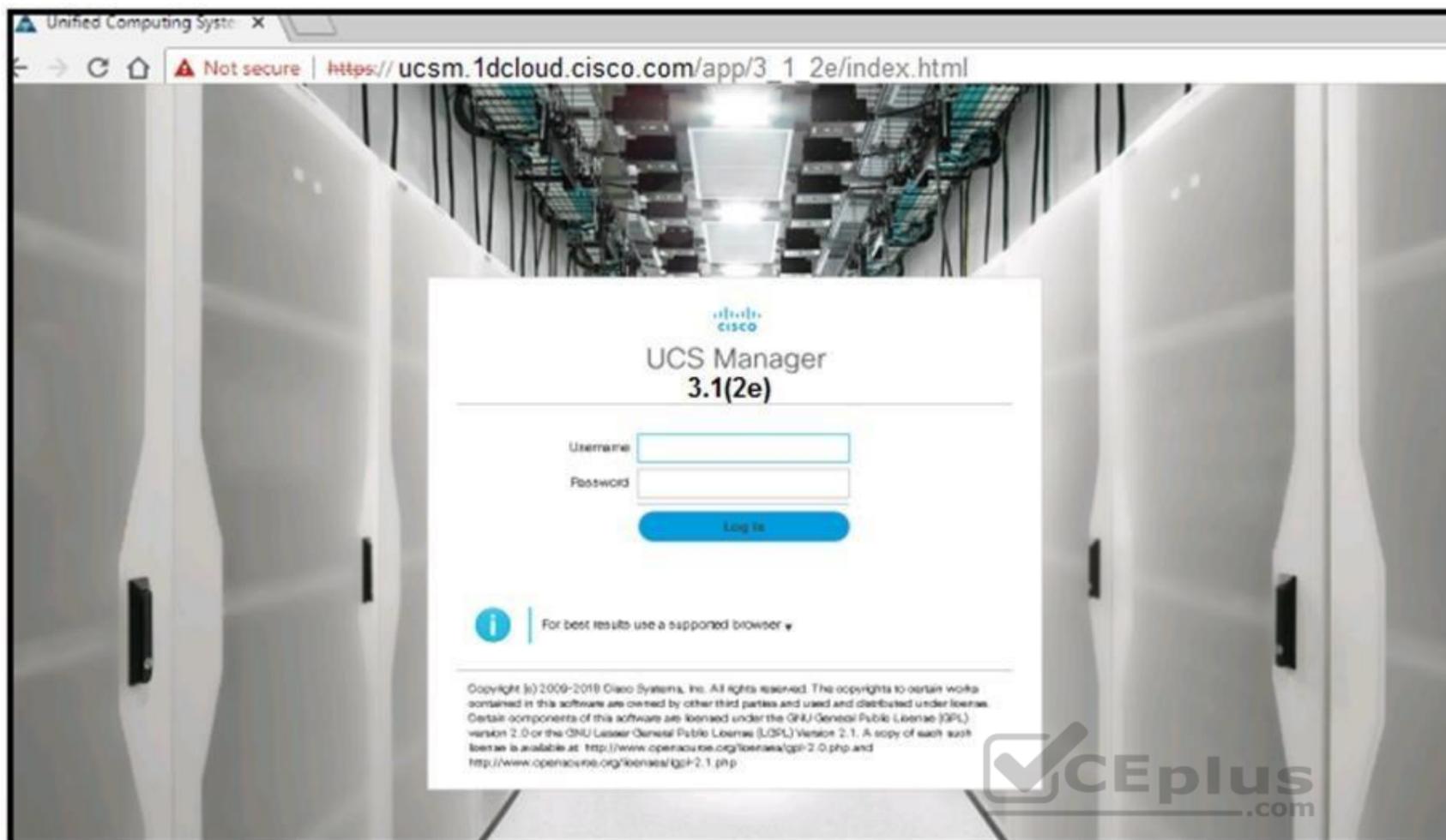
Section: Compute Platforms

Explanation

Explanation/Reference:



QUESTION 20



Refer to the exhibit. A web browser displays a “not secure” warning message when accessing the web interface of Cisco UCS Manager. Which action resolves the issue?

- A. Load third-party certificate to UCS Manager.
- B. Use the correct TCP port for HTTPS.
- C. Use a supported web browser.
- D. Use a supported version of UCS Manager.

Correct Answer: A

Section: Compute Platforms

Explanation

Explanation/Reference:

QUESTION 21

An attempt to use a global vNIC redundancy template pair results in a service profile that fails to apply. Which action resolves the issues?

- A. Create the peer names before creating the templates.
- B. Assign the secondary template first, and then set the peer name.
- C. Assign both templates simultaneously.
- D. Assign the primary template first, and then set the peer name.

Correct Answer: D

Section: Compute Platforms

Explanation

Explanation/Reference:

QUESTION 22

An engineer attempts to register Cisco UCS Manager to Cisco UCS Central, but the registration fails. The engineer can ping Cisco UCS Central from UCS Manager. Which two actions must the engineer attempt to resolve the problem? (Choose two.)

- A. Synchronize the date and time to NTP for Cisco UCS Central and the Cisco UCS domains.
- B. Apply the UCS Central license to UCS Central.
- C. Place Cisco UCS Manager on the same subnet as Cisco UCS Central.
- D. Allow port 443 between Cisco UCS Manager and Cisco UCS Central.
- E. Allow port 9443 between Cisco UCS Manager and Cisco UCS Central.

Correct Answer: AD

Section: Compute Platforms

Explanation

Explanation/Reference:

QUESTION 23

You have an ACI environment with three APICs, two spine switches, and four-leaf switches. You wipe and reboot all APICs first then leaf and spine switches one-by-one and successfully go through the Initial Setup dialogue on the APIC 1 CIMC KVM console. When you log in to the APIC1 WebGUI, you notice that you do not see any directly connected leaf switches being discovered under Fabric > Inventory > Fabric Membership. What is the cause of the issue?

- A. The leaf nodes were not erased properly, which caused a fabric parameters mismatch with the APIC1.
- B. Rebooting the APICs and the leaf and spine switches after wiping them is not required.
- C. You forgot to enter the TEP Pool value during the Initial Setup dialogue on APIC1.
- D. The same Fabric Name value should be used before after wiping all devices.



Correct Answer: C

Section: Compute Platforms

Explanation

Explanation/Reference:

QUESTION 24

DRAG DROP

Drag and drop the Cisco UCS SNMP fault types from the left onto the correct issues on the right.

Select and Place:

connectivity	A server discovery fails.
environment	An adapter is unreachable.
operational	A voltage issue is detected.
server	A service profile is unable to associate.

Correct Answer:

connectivity	operational
environment	connectivity
operational	environment
server	server

Section: Compute Platforms
Explanation

Explanation/Reference:

QUESTION 25 An engineer must replace a failed memory on a Cisco UCS B-Series Blade Server. After the replacement was done, the server has a “resolve slot” warning. Which server maintenance action resolves the issue?

- A. Perform diagnostic interrupt on the server.
- B. Re-acknowledgement the server.
- C. Reset the server.
- D. Decommission the server.

Correct Answer: B
Section: Compute Platforms
Explanation

Explanation/Reference:

QUESTION 26

Cisco Unified Computing System Manager raises a critical error message that indicates that the system has overlapping Ethernet and FCoE VLANs. All of the Ethernet traffic on the overlapping VLANs drops. Which action resolves the issue?

- A. Modify the VLAN assignment to vNICs.
- B. Change the PIN groups on the vHBAs.
- C. Modify the FCoE VLAN.
- D. Set the FCoE VLAN as the native VLAN on server uplinks.

Correct Answer: A

Section: Compute Platforms

Explanation

Explanation/Reference:

QUESTION 27

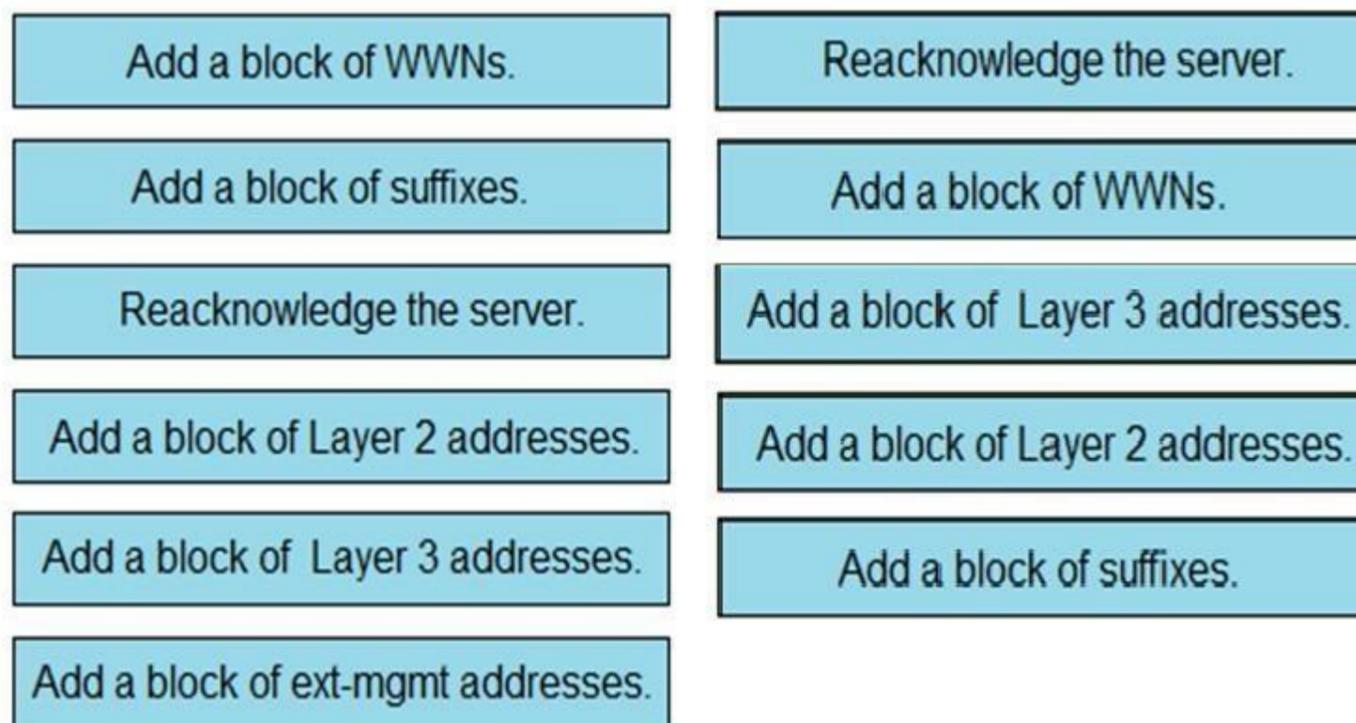
DRAG DROP

Drag and drop the actions from the left onto the faults that they resolve on the right. Not all options are used.

Select and Place:

Add a block of WWNs.	fitComputePoolEmpty
Add a block of suffixes.	fitFcpoolInitiatorsEmpty
Reacknowledge the server.	fitpoolPoolEmpty
Add a block of Layer 2 addresses.	fitMacpoolPoolEmpty
Add a block of Layer 3 addresses.	fitUuidpoolPoolEmpty
Add a block of ext-mgmt addresses.	

Correct Answer:



Section: Compute Platforms
Explanation

Explanation/Reference:

QUESTION 28

```
leaf1# show interface ethernet 1/11
Ethernet1/11 is up (out-of-service)
admin state is up, Dedicated Interface
  Hardware: 1000/10000 Ethernet, address: e4aa/5d94.a2b5 (bia e4aa.5d94.a2b5)
  MTU 9000 bytes, BW 10000000 Kbit, DLY 1 usec
  reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, medium is broadcast
  Port mode is trunk
  full-duplex, 10 Gb/s, media type is 10G
  FEC (forward-error-correction) : disable-fec
  Beacon is turned off
  Auto-Negotiation is turned on
  Input flow-control is off, output flow-control is off
  Auto-mdix is turned off
  Rate mode is dedicated
  Switchport monitor is off
  EtherType is 0x8100
  EEE (efficient-ethernet) : n/a
  Last link flapped 4d06h
  Last clearing of "show interface" counters never
  1 interface resets
  30 seconds input rate 0 bits/sec, 0 packets/sec
  30 seconds output rate 0 bits/sec, 0 packets/sec
```



Refer to the exhibit. An engineer is performing a health check on ACI. Which statement about interface Ethernet 1/11 is true?

- A. The interface is working correctly and fully operational, but it is not in use.
- B. The interface policy is misconfigured.
- C. "out-of-service" is the default interface status in ACI.
- D. "out-of-service" indicates that no service graph is in use for this interface.

Correct Answer: B

Section: Compute Platforms

Explanation

Explanation/Reference:

QUESTION 29

A user reports that they cannot reach from a UCS server to an FC Storage array. Which command is used to test communication between an FCF and a target?

- A. **fcroute**
- B. **tracert**
- C. **fcping**
- D. **ping**

Correct Answer: C

Section: Storage Network
Explanation

Explanation/Reference:

QUESTION 30 An engineer is implementing a storage VDC, but fails. Which two prerequisites must be in place before a storage VDC is implemented?
(Choose two.)

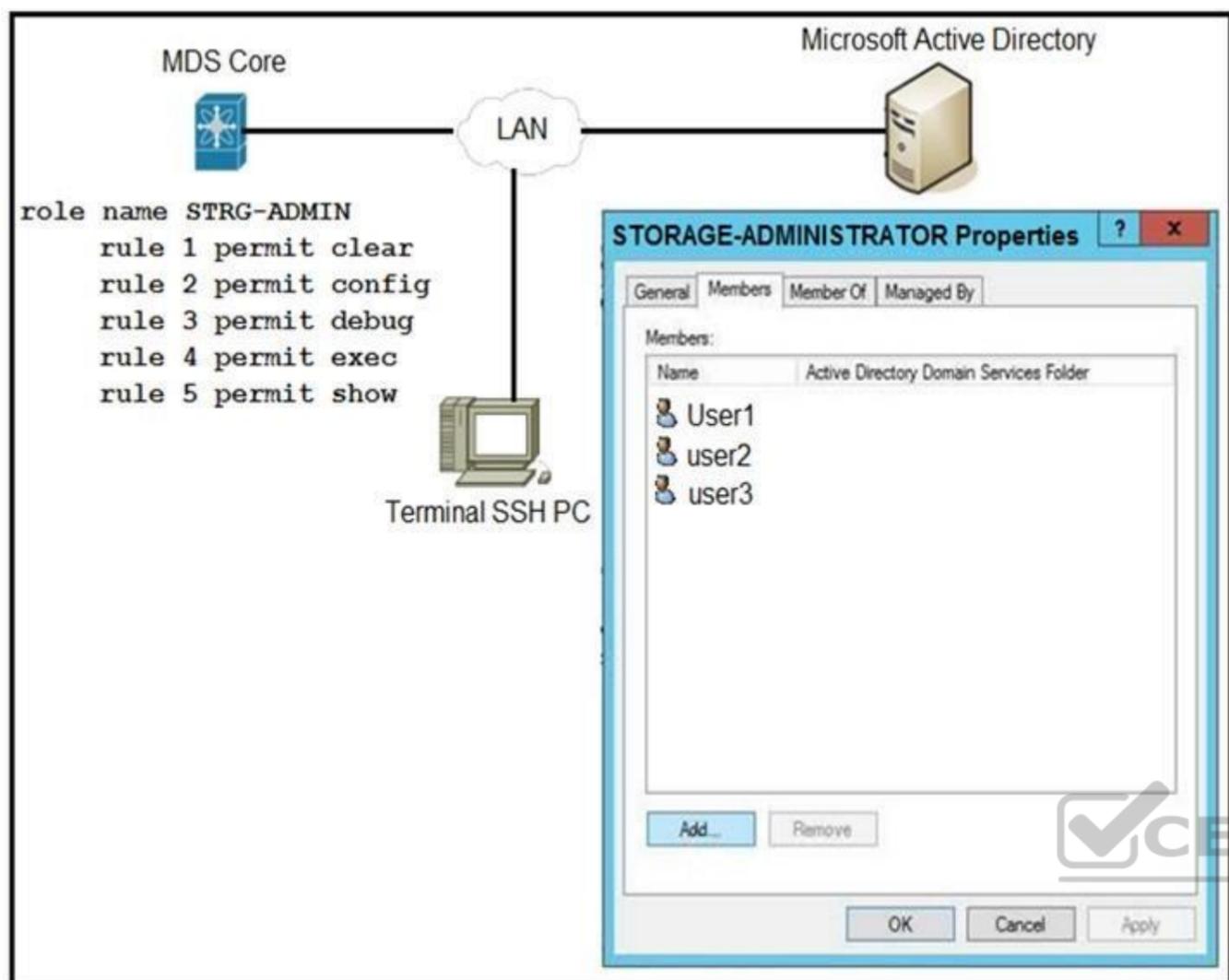
- A. M-Series module
- B. ESSENTIALS license
- C. STORAGE-ENT license
- D. FCoE license
- E. F-Series module

Correct Answer: DE
Section: Storage Network
Explanation

Explanation/Reference:

QUESTION 31





Refer to the exhibit. An engineer is troubleshooting why user1, user2, and user3 from group STORAGE-ADMINISTRATOR in Microsoft Active Directory cannot log in to the Cisco MDS SSH CLI. Which action resolves the issue?

- A. Configure the role name to match the group name on Microsoft Active Directory.
- B. Include specific users into MDS role configuration.
- C. Configure SSH logins on Cisco MDS switch.
- D. Integrate Cisco MDS with Microsoft Active Directory.

Correct Answer: A

Section: Storage Network

Explanation

Explanation/Reference:

QUESTION 32

```
vlan 100
fcoe vsan 200

interface ethernet 1/1
  switchport
  switchport access vlan 100
  spanning-tree port type edge
  mtu 9216
  no shutdown
```

Refer to the exhibit. An attempt to bind the Ethernet interface to vFC fails. Which action resolves the issue?

- A. Add the FCoE VLAN to the allowed VLAN list.
- B. Configure the FCoE VLAN that corresponds to the vFC VSAN as a private VLAN.
- C. Configure the interface as a trunk port.
- D. Configure the interface to use the native VLAN of the trunk port.

Correct Answer: C

Section: Storage Network

Explanation

Explanation/Reference:

QUESTION 33

```
Test-5548-A# sh int fc2/10
fc2/10 is down (Initializing)
Hardware is Fibre Channel, SFP is short wave laser w/o OFC (SN)
Por WWN is 20:42:00:0d:fc:a5:3b:81
Admin port mode is NP, trunk mode is on
```

Refer to the exhibit. A new Cisco Nexus 5548 Switch connects to a network. SAN switching is configured on the switch. The switch fc2/10 NP uplink is shown in the exhibit. Which action ensures that fc2/10 is in an up state?

- A. Replace the SFP port module in fc2/10.
- B. Configure the admin port type E on the upstream switch that connects the port.
- C. Enable NPIV on the upstream switch that connects the port.
- D. Configure the BB_credit buffers on the upstream switch that connects the port.

Correct Answer: C

Section: Storage Network

Explanation

Explanation/Reference:

QUESTION 34

```
ACME-5K-A(config-vsantdb) # sh int fc2/16

fc2/16 is down (Inactive)
  Port description is UplinkTo_MDS-A_1/6
  Hardware is Fibre Channel, SFP is short wave laser
w/o OFC (SN)
  Port WWN is 20:50:00:2a:6a:98:bc:80
  Admin port mode is E, trunk mode is auto
  snmp link state traps are enabled
  Port vsan is 1
  Receive data field size is 2112
  Beacon is turned off
```

Refer to the exhibit. The connection between a Cisco Nexus 5548UP switch and a Cisco MDS switch fails to initialize. What is the cause of the issue?

- A. VSAN 1 is suspended.
- B. The SFP is unsupported.
- C. Trunk mode must be activated.
- D. The interface is in an incorrect mode.

Correct Answer: C

Section: Storage Network

Explanation

Explanation/Reference:



QUESTION 35

A server fails to boot from the operating system after a RAID1 cluster migration. The RAID remains in an inactive state during and after a service profile association. Which action resolves the issue?

- A. Configure the SAN boot target in the service profile.
- B. Configure the SAN boot target to any configuration mode.
- C. Use a predefined local disk configuration policy.
- D. Remove the local disk configuration policy.

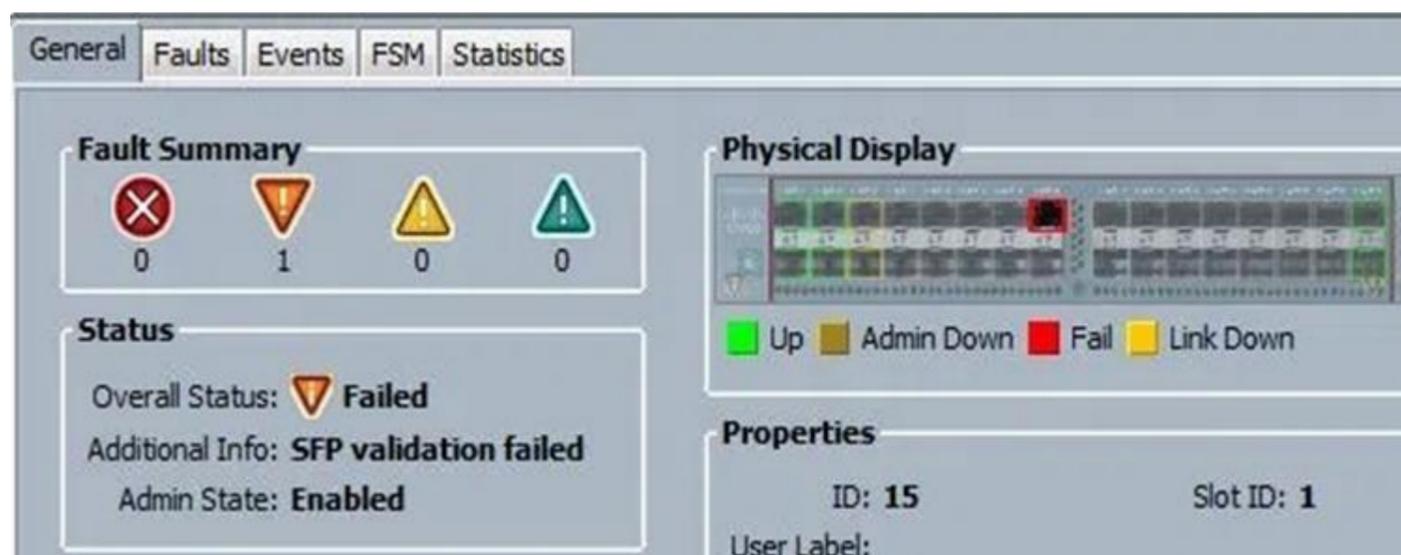
Correct Answer: C

Section: Storage Network

Explanation

Explanation/Reference:

QUESTION 36



Refer to the exhibit. When an engineer inserts 8-Gb FC SFP port 15 on a Cisco UCS Fabric Interconnect, the port fails. What is a possible cause of the issue?

- A. Port 15 is configured as an Ethernet port.
- B. Port 15 is configured for 4-Gb FC.
- C. Port 15 is missing a license.
- D. The polarity of the fiber cable is reversed.

Correct Answer: B

Section: Storage Network

Explanation

Explanation/Reference:



QUESTION 37

An engineer discovers that an NPV/NPIV uplink experiences a heavy load and plans to add more uplinks. Which statement about what occurs when the new uplinks are added is true?

- A. Only new connections use the new uplinks automatically.
- B. Paths must be defined before new connections can use the new uplinks.
- C. All connections must be reset before the new uplinks can be used.
- D. New and existing connections use the new uplinks automatically.

Correct Answer: D

Section: Storage Network

Explanation

Explanation/Reference:

QUESTION 38

An engineer is troubleshooting a failed DCBX exchange between a server and a Cisco Nexus switch. Which action allows DCBX to successfully negotiate?

- A. Enable ETS
- B. Enable PFC.
- C. Enable Cisco Discovery Protocol.
- D. Enable LLDP.

Correct Answer: D

Section: Storage Network

Explanation

Explanation/Reference:

QUESTION 39

```
FC0001# show zone active
zone name hba1_VN0001 vsan 3201
  fcid 0x970209 [pwwn 50:ab:0b:00:00:c2:8f:de]
* fcid 0x970102 [pwwn 20:ba:00:a0:98:3b:6f:d8]

zone name hba1_VN0002 vsan 3201
* fcid 0x970200 [pwwn 50:ab:0b:00:00:c2:8a:67]
  fcid 0x9700c2 [pwwn 20:ba:00:a0:98:3b:61:99]
```

Refer to the exhibit. The initiator that has FC ID 0x970102 fails to communicate with the target that has FC ID 0x970200. What action resolves the issue?

- A. Reconfigure the initiator and the target to be in the same zones.
- B. Reactivate the zoneset.
- C. Reset the port for FC ID 0x970102 and FC ID 0x970200 to log in to the fabric.
- D. Reset the port for FC ID 0x970209 and FC ID 0x9700c2 to log in to the fabric.

Correct Answer: B

Section: Storage Network

Explanation

Explanation/Reference:



QUESTION 40

One of Cisco Nexus Series interfaces has become errdisabled with the error message "DCX-No ACK in 100 PDUs". What is the cause of this error?

- A. The host has not responded to the Control Sub-TLV DCBX exchanges of the switch.
- B. The acknowledgement number in the server response has not incremented for 100 exchanges.
- C. Cisco Discovery Protocol is disabled on the switch.
- D. LLDP is disabled on the switch.

Correct Answer: B

Section: Storage Network

Explanation

Explanation/Reference:

QUESTION 41

A Fibre Channel interface on a Cisco Nexus 5000 Series Switch receives bit errors, and the switch disables the interface. A temporary workaround must be implemented before the root cause is identified. Which action does an engineer take to prevent this issue from reoccurring?

- A. Verify that the SFPs are supported.
- B. Change the SFP to operate at 4 Gbps instead of 2 Gbps.
- C. Run the shutdown and then **no shutdown** command on the interface.
- D. Run the **switchport ignore bit-errors** command on the interface.

Correct Answer: D
Section: Storage Network
Explanation

Explanation/Reference:

QUESTION 42

A fabric interconnect fails to start and the console displays the loader prompt. Which two actions resolve the issue? (Choose two.)

- A. Load an uncorrupt bootloader image.
- B. Load an uncorrupt kickstart image.
- C. Reconnect L1/L2 cables between the Fis.
- D. Reformat the fabric interconnect.
- E. Load the correct version of the boot image.

Correct Answer: BE
Section: Storage Network
Explanation

Explanation/Reference:

QUESTION 43

```
event manager applet config_monitor
event cli match "conf t"
action 1.0 snmp-trap strdata "User has entered into configuration mode"
```

Refer to the exhibit. The EEM script fails to send an SNMP trap when a user attempts to enter configuration mode. Which configuration is missing from the script?

- A. event statement
- B. event-default action statement
- C. policy-default action statement
- D. IP address of the SNMP server

Correct Answer: D
Section: Automation
Explanation

Explanation/Reference:

QUESTION 44

```
serverteam Cleartext-Password := "<password>"

Cisco-avpair = "shell:domains = user/admin/,common//read-
all(16000) "
```

Refer to the exhibit. An engineer is investigating a role mapping issue on a switch. The users report that they cannot view the IP addresses under the tenant "corp". Which action resolves the issue?

- A. Add the users to the RADIUS server.
- B. Update the UNIX ID.
- C. Configure the correct secret password between the APIC and the RADIUS server.
- D. Add the updated avpair to include/corp/admin/

Correct Answer: C

Section: Automation

Explanation

Explanation/Reference:

QUESTION 45

```
switch#show run
--output removed for brevity--
event manager applet conf-change
  event cli match "conf t"
  action 1.0 syslog msg Configuration change
switch#
switch# conf t
%Command blocked by event manager policy
switch#
```

Refer to the exhibit. A network engineer configures an EEM script to get a syslog notification after a configuration change. This message appears when the engineer must make a new configuration to this switch. Which configuration did the engineer neglect to apply in the script for it to function properly?

- A. **event cli match 'configure terminal'**
- B. **event policy-default count 1 time 100**
- C. **event syslog occurs 10**
- D. **action 2.0 event-default**



Correct Answer: D

Section: Automation

Explanation

Explanation/Reference:

QUESTION 46

```
event manager applet looback_online override -BootupPortLoopback
  action 1 syslog priority notifications msg "Switch Online"
  action 2 policy-default
```

Refer to the exhibit. The EEM script overrides all events in the system policy. What should be added to the script to resolve the issue?

- A. event statement
- B. environment variable
- C. event-default action statement
- D. configure terminal action

Correct Answer: A

Section: Automation
Explanation

Explanation/Reference:

QUESTION 47
DRAG DROP

Drag and drop the commands from the left onto the correct categories on the right.

Select and Place:

Correct Answer:

Section: Automation
Explanation

Explanation/Reference:

QUESTION 48 An upgrade of protected RPMs from the Bash shell did not take effect. Which action is required for the changes to take effect?

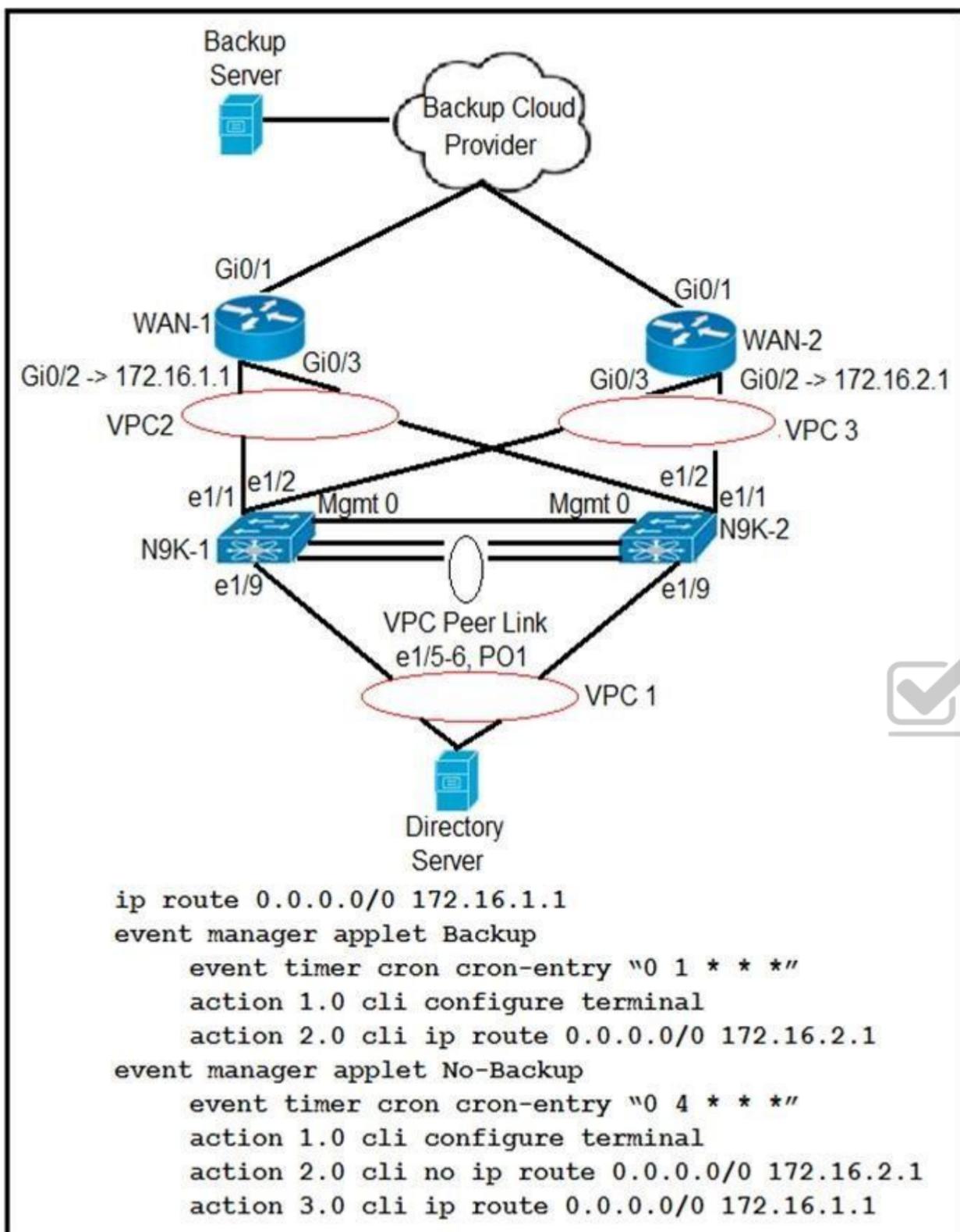
- A. Restart the Bash shell.
- B. Reload the switch.
- C. Upgrade the RPMs from the Guest shell.
- D. Disable and reenable the Bash feature.

Correct Answer: D
Section: Automation
Explanation

Explanation/Reference:

QUESTION 49





Refer to the exhibit. Partial configuration from N9K-1 and N9K-2 is included. The client has two WANs connected.

- WAN-1 is for normal business-day activities.
- WAN-2 is for server backups during nonworking hours of 1:00 a.m. to 5:00 a.m. daily.

The client says that at the scheduled time for backup, the data center server failed to use the WAN-2 link to back up the servers to the cloud backup system. What is the solution to this problem?

- A. The event timer must be written in epoch time format.
- B. The Cisco Nexus switch must be configured with one applet because a configuration with two applets will fail.
- C. The Cron entry must be configured without double quotes.
- D. The applet called "Backup" must include an action to remove the current static route.

Correct Answer: D

Section: Automation

Explanation

Explanation/Reference:

QUESTION 50

A network administrator attempts to install an application in the Cisco NX-OS Guest shell and receives an error that there is not enough space on the disk. Which command must the administrator run to increase the disk space available in the Guest shell?

- A. `guestshell growdisk rootfs [size-in-MB]`
- B. `guestshell pnextend rootfs [size-in-MB]`
- C. `guestshell resize rootfs [size-in-MB]`
- D. `guestshell resize2fs rootfs [size-in-MB]`

Correct Answer: C

Section: Automation

Explanation

Explanation/Reference:

QUESTION 51



```
switch# guestshell resize cpu 4
Note: System CPU share will be resized on Guest shell enable
```

Refer to the exhibit. After the configuration is performed, guestshell continues to use 2%CPU. Which action resolves the issue?

- A. Resync the database
- B. Recreate the guestshell
- C. Reboot the guestshell
- D. Reboot the switch

Correct Answer: C

Section: Automation

Explanation

Explanation/Reference:

QUESTION 52

An engineer is troubleshooting a custom AV pair that was created by a client on an external authentication server to map a read-only role for a specific security domain. Which AV pair solves the problem?

- A. `shell:domains=Security_Domain_1//Read_Role_1|Read_Role_2`
- B. `shell:domains=Security_Domain_1/Write_Role_1|Read_Role_2`
- C. `shell=Security_Domain_1/Read_Role_1|Read_Role_2`
- D. `shell:domains=Security_Domain_1/Read_Role_1|Read_Role_2`

Correct Answer: A

Section: Management and Operations Explanation

Explanation/Reference:

QUESTION 53

A request to activate the port security database is rejected. Which action do you perform to investigate the cause of the issue?

- A. Enable the auto-learning feature.
- B. Use the force option to identify rejected devices.
- C. Find conflicting entries between the active and configuration databases.
- D. Verify that devices are fully attached to the active database.

Correct Answer: B

Section: Management and Operations Explanation

Explanation/Reference:

QUESTION 54

Your client reports that many flaps and server cluster disconnects occur in their data center. While troubleshooting the issue, you discover a network attack hitting their Cisco Nexus 7000 Series Switches and determine that the source IP addresses are spoofed. Which first-line security solution resolves this issue?

- A. Dynamic ARP Inspection
- B. Unicast RPF
- C. IP Source Guard
- D. Storm Control

Correct Answer: A

Section: Management and Operations Explanation

Explanation/Reference:



QUESTION 55

A server administrator attempts to change the Cisco IMC KVM certificate to one signed by a private CA, but the certificate is not being accepted. What can cause this process to fail?

- A. using a certificate with a password-protected private key B. RSA encryption being used in the generation of the certificate.
- C. AES encryption being used in the generation of the certificate.
- D. public IP address of the Cisco IMC not being included in the SAN.

Correct Answer: A

Section: Management and Operations Explanation

Explanation/Reference:

QUESTION 56

DRAG DROP

A firmware upgrade on a fabric interconnect fails. A bootflash contains a valid image. Drag and drop the recovery steps from the left onto the correct order on the right.

Select and Place:

Correct Answer:

Section: Management and Operations Explanation

Explanation/Reference:

QUESTION 57



Refer to the exhibit. Cisco UCS Manager is being upgraded using the Auto Install feature, but the FSM fails. Which action resolves the issue?

- A. Acknowledge the primary fabric interconnect.
- B. Remove the service pack from the subordinate fabric interconnect.
- C. Clear the startup version of the default infrastructure pack.
- D. Upgrade the firmware of the infrastructure firmware by using the force option.



Correct Answer: C

Section: Management and Operations Explanation

Explanation/Reference:

QUESTION 58 An IOM fails during a firmware upgrade and is unresponsive. Which action recovers the module?

- A. Restore UCSM configuration from backup.
- B. Roll back to the previous firmware.
- C. Use AutoInstall to reinstall the firmware.
- D. From the peer IOM, reset the faulty module.

Correct Answer: B

Section: Management and Operations Explanation

Explanation/Reference:

QUESTION 59

```
N5k-A-199# sh install all impact system
N5000-uk9.7.1.4.N1.1.bin kickstart
N5000-uk9-kickstart.7.3.4.N1.1.bin
Verifying image bootflash:/n5000-uk9-
kickstart.7.3.4.N1.1.bin for boot
variable "kickstart".
[#####] 100% -- SUCCESS
Verifying image bootflash:/n5000-
uk9.7.1.4.N1.1.bin for boot variable
"system".
[# ] 0% -- FAIL. Return code 0x4045001F
(image MD5 checksum error).
Install has failed. Image verification
failed (0x40930011)
```

Refer to an exhibit. An engineer is troubleshooting an upgrade failure on a switch. Which action resolves the issue?

- A. Save the system image in NVRAM.
- B. Use the same system image as the kickstart image.
- C. Load a new system image.
- D. Reload the same system image.

Correct Answer: C

Section: Management and Operations Explanation

Explanation/Reference:



QUESTION 60

After upgrading a client's fabric interconnect to the latest version, an engineer discovers that the appliance has lost its entire configuration. Which two locations should an engineer check to confirm that the appliance had backed up the configuration prior to the upgrade in order to retrieve the lost configuration? (Choose two.)

- A. Equipment FSM page, InternalBackup stage
- B. Service profiles page, InternalBackup stage
- C. Admin page, PollInternalBackup stage
- D. Equipment FSM page, PollInternalBackup stage
- E. Admin page, InternalBackup stage.

Correct Answer: AC

Section: Management and Operations Explanation

Explanation/Reference: