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Troubleshooting Cisco Data Center Infrastructure (DCIT)

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QUESTION 1

DRAG DROP

A Cisco Nexus 9000 Series Switch crashes and fails to boot. An engineer must recover the switch and investigate the issue. The switch uses 172.20.50.213/24 IP address for management and its default gateway is 172.20.50.254. Drag and drop the steps for recovering the Cisco Nexus 9000 Series Switch from the left onto the right. Not all steps are used.

Select and Place:

switch(boot)# init system	step 1
loader> set ip 171.20.50.213 255.255.255.0	step 2
loader> boot tftp://172.22.255.16/ n9000-dk9.6.1.2.I1.1.bin	step 3
loader> cmdline recoverymode=1	step 4
switch(boot)# load-nxos	step 5
loader> set gw 172.20.50.254	step 6
loader> ip address 171.20.50.213/24	

Correct Answer:

	loader> set ip 171.20.50.213 255.255.255.0
	loader> set gw 172.20.50.254
	loader> cmdline recoverymode=1
	loader> boot tftp://172.22.255.16/ n9000-dk9.6.1.2.I1.1.bin
	switch(boot)# init system
	switch(boot)# load-nxos

loader> ip address 171.20.50.213/24

QUESTION 2

An engineer must place a Cisco UCS B-Series Server in a single server pool in Cisco UCS Manager. The engineer creates a qualification policy, but the server is still seen in multiple pools. Which two actions resolve the issue? (Choose two.)

A. Select the Server Pool Policy Qualification from the qualification drop-down menu in the Server Pool Policy

B. Select the Server Pool Policy from the qualification drop-down menu in the Server Pool Policy Qualification

C. Set the operating system qualifier inside the Server Pool Policy Qualification

D. Set the number of vNICs qualifier inside the Server Pool Policy.

E. Set the storage capacity qualifier inside the Server Poo. Policy Qualification.

Correct Answer: AC

QUESTION 3

An engineer troubleshoots FCoE on a Cisco MDS 9000 Series Switch. What does this output indicate about port channel 1?

```
MDS-8# show interface port-channel 1
  port-channel1 is down (No operational members)
  Hardware is Fibre Channel
  Port WWN is 24:03:8c:60:4f:cf:7d:20
  Admin port mode is E, trunk mode is on
  snmp link state traps are enabled
  Port vsan is 1
  5 minutes input rate 192 bits/sec,24 bytes/sec, 0 frames/sec
  5 minutes output rate 0 bits/sec,0 bytes/sec, 0 frames/sec
    380454 frames input,702340532 bytes
      0 discards,0 errors
      0 invalid CRC/FCS,0 unknown class
      0 too long,0 too short
    381988 frames output,643629179 bytes
      0 discards,0 errors
    8370 input OLS,4088 LRR,0 NOS,0 loop inits
    6769 output OLS,6757 LRR, 4294 NOS, 1 loop inits
  Member[1] : fc1/1 [down]
  Member[2] : fc1/2 [down]
```

A. Port channel 1 is configured to connect to an NPIV switch.

B. Port channel 1 is configured to be an ISL.

C. Port channel 1 is configured to connect to an NPV switch.

D. Port channel 1 is configured to connect to a host bus adapter.

Correct Answer: B

QUESTION 4

You are configuring a Cisco Nexus 9000 Series Switch. Which configuration can be implemented for VXLAN BGP EVPN?

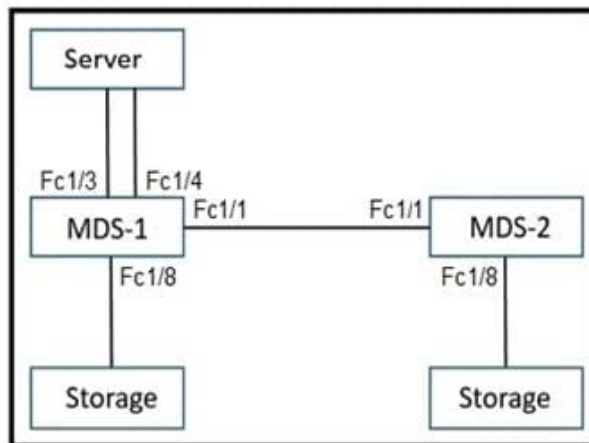A. VXLAN BGP EVPN by using an NVE interface in a default VRF

B. RACLs on the Layer 3 uplinks for the VXLAN traffic

C. QoS classification for the VXLAN traffic on all of the interfaces

D. DHCP snooping on the VXLAN VLANs

Correct Answer: A

QUESTION 5

Refer to the exhibits.


```
MDS1 (config)# fabric-binding activate vsan 101 force
2020 Aug 18 06:56:52 MDS1 %PORT-SECURITY-3-BINDING_CONFLICT: %$VSAN 101%$
MDS1 (config)# 2020 Aug 18 06:56:52 MDS1 %PORT-5-IF_TRUNK_DOWN: %$VSAN 101%$
Interface fc1/1, vsan 101 is down (Isolation due to fabric binding:
peer switch WWN not found)
```

An engineer is implementing the SAN based on the Cisco MDS 9000 Series Switches. When operating the environment, the engineer encounters the error shown. Which action resolves the issue?

A. Copy VSAN 101 to the fabric binding database on the MDS-1 switch

B. Add the World Wide Name of the neighboring switch to the MDS-1 switch

C. Configure the port security feature on the MDS-1 switch

D. Enable VSAN 101 on the peer MDS 2 switch fabric interconnect

Correct Answer: B

Reference: https://overlaid.net/2014/08/22/fc-security-for-ccie-dc-fabric-binding/

QUESTION 6

Refer to the exhibit.

```
Router#show ip ospf database router
OSPF Router with id(10.254.6.3) (Process ID 10)
Displaying Router Link States(Area 0.0.0.0)
LS age: 1376
Options:  (No TOS-capability)
LS Type: Router Links
Link State ID: 192.168.19.23
Advertising Router: 192.168.19.23
LS Seq Number: 800070A3
Checksum: 0x5C91
Length: 96
AS Boundary Router
155    Number of Links: 4
Link connected to: another Router (point-to-point)
(link ID) Neighboring Router ID: 10.254.6.3
(Link Data) Router Interface address: 192.168.19.23
Number of TOS metrics: 0
TOS 0 Metrics: 0
```

A network engineer is implementing a pair of Cisco Nexus 9000 Series Switches. During the OSPF configuration, the engineer discovers unstable routing in the network. The investigation shows flapping routes after the new switches were introduced. Which set of actions resolves the issue?

A. Configure a new IP address on the Ethernet interface toward the OSPF neighbor. Clear the OSPF process.

B. Configure a new IP address on the Ethernet interface toward the OSPF neighbor. Clear the OSPF neighbor.

C. Configure a new OSPF priority on the Ethernet interface toward the OSPF neighbor. Clear the OSPF neighbor.

D. Configure a new IP address on the Loopback interface toward the OSPF process. Clear the OSPF process.

Correct Answer: C

QUESTION 7

Refer to the exhibit.

```
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, mrib 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, mrib ip pim nve
        Incoming interface: loopback1, RPF nbr: 9.9.3.12
        Outgoing interface list: (count: 0)
```

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

QUESTION 8

A Cisco UCS B-Series Blade Server is configured to boot a VMware ESXi host from an EMC VNX storage array by using a Fibre Channel SAN. The boot order is confirmed to be configured as expected, but the server fails to boot from the SAN. Which action resolves the problem?

A. Set the boot LUN to the highest LUN ID in the storage array.

B. Set the boot LUN to the lowest LUN ID in the storage array.

C. Set the same WWNN pools for vHBA adapters.

D. Set the same WWPN pools for vHBA adapters.

Correct Answer: C

QUESTION 9

Refer to the exhibit.

```
Test-5548-A# sh int fc2/12
sh int fc2/12 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:ec:a4:3b:80
Admin port mode is F, trunk mode is off
snmp link state traps are enabled
Port vsan is 99
Receive data field Size is 2112
```

An engineer configures the server port on a Cisco Nexus 5000 Series Switch. The switch connects to an NPV edge switch port. The server fails to send the FC traffic to the fabric. Which action resolves the issue?

A. Enable the NPIV mode on the Cisco Nexus 5000 switch.

B. Match the VSAN membership on both ends of the connection.

C. Configure the BB_credit buffer on the uplink port.

D. Replace the SFP in slot fc2/12.

Correct Answer: B

QUESTION 10

Refer to the exhibit.

```
switch1# show vpc consistency-parameters global
Legend:
Type 1 : vPC will be suspended in case of mismatch
Name                    Type      Local Value              Peer Value
-------------           ----      -------------------      -------------------
Qos                      1        ([], [3], [], [], [],[])  ([], [3], [], [], [],[])
Network QoS (MTU)        1        (9216, 2240, 0, 0, 0, 0)  (9116, 2240, 0, 0, 0, 0)
Network QoS (Pause)      1        (F, T, F, F, F, F)        (F, T, F, F, F, F)
Input Queuing (Bandwidth) 1      (50, 50, 0, 0, 0, 0)      (50, 50, 0, 0, 0, 0)
Input Queuing            1        (F, F, F, F, F, F)        (F, F, F, F, F, F)
(Absolute Priority)
Output Queuing (Bandwidth) 1     (50, 50, 0, 0, 0, 0)      (50, 50, 0, 0, 0, 0)
Output Queuing           1        (F, F, F, F, F, F)        (F, F, F, F, F, F)
(Absolute Priority)
STP Mode                 1        Rapid-PVST                Rapid-PVST
STP Disabled             1        None                      None
STP MST Region Name      1        ""                        ""
STP MST Region Revision  1        0                         0
STP MST Region Instance  1
to VLAN Mapping
STP Loopguard            1        Disabled                  Disabled
STP Bridge Assurance     1        Enabled                   Enabled
STP Port Type, Edge      1        Normal, Disabled          Normal, Disabled
BPDUFilter, Edge BPDUGuard        Disabled                  Disabled
STP MST Simulate PVST    1        Enabled                   Enabled
Allowed VLANs                     1,19,91,99,120,757-446    1,10,19-20,91,99,400-401
                                  451-486,499,757,797       403,420,440,442,444
Local suspended VLANs             120
```

The vPC neighborship between two switches is in suspended state. Which configuration change resolves the issue and brings up the vPC neighborship?

A. Change STP Port Type to Network on the peer switch

B. Enable Bridge Assurance on the local switches

C. Configure QoS MTU value of 9216 on the peer switch

D. Add VLAN 400-401 to the configuration on the local switch

Correct Answer: C

Reference:

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/troubleshooting/
guide/N5K_Troubleshooting_Guide/n5K_ts_vpc.pdf

QUESTION 11

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?
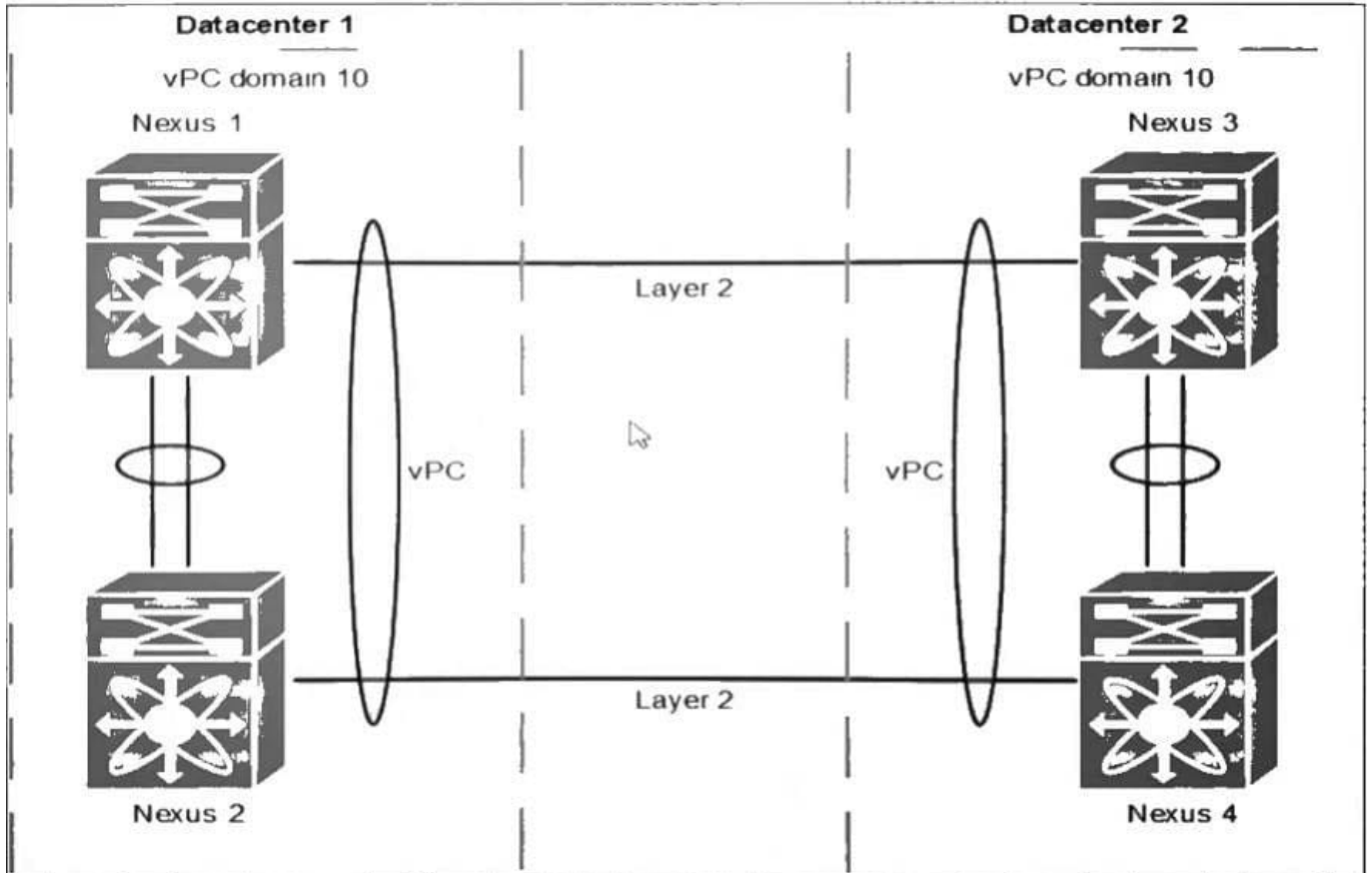
A. Remove the port group manually.

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

QUESTION 12

Refer to the exhibit.

The administrator set up two pairs of Cisco Nexus switches. The administrator set dfferent vPC priorities on all four Nexus switches. As soon as the administrator activates the vPC between the two pairs the network faces different issues. The problems range from both Nexus pairs declare themselves as root bridge, as well as spanning-tree inconsistencies and traffic forwarding issues. Which action resolves these issues?

A. Change the role priority on one pair.

B. Configure peer-config-check-bypass on both pairs.

C. Configure a vPC peer link between both peers.

D. Change domain ID on one pair to a diferent ID.

Correct Answer: D

QUESTION 13

An engineer configures role-based access control for the Cisco UCS Manager. UserA must be allowed read-only access to the system. These events occur after the system is implemented:

1.

UserA attempts to log in but receives an "Authentication Failed" message.

2.

UserB successfully logs in by using an administrator role.

3.

Both users use valid LDAP passwords.

Which action resolves the issue?

A. Enable primary group rules for LDAP providers

B. Assign a default role policy for remote users

C. Add locales to the LDAP group map of UserB

D. Set the default authentication realm to LDAP
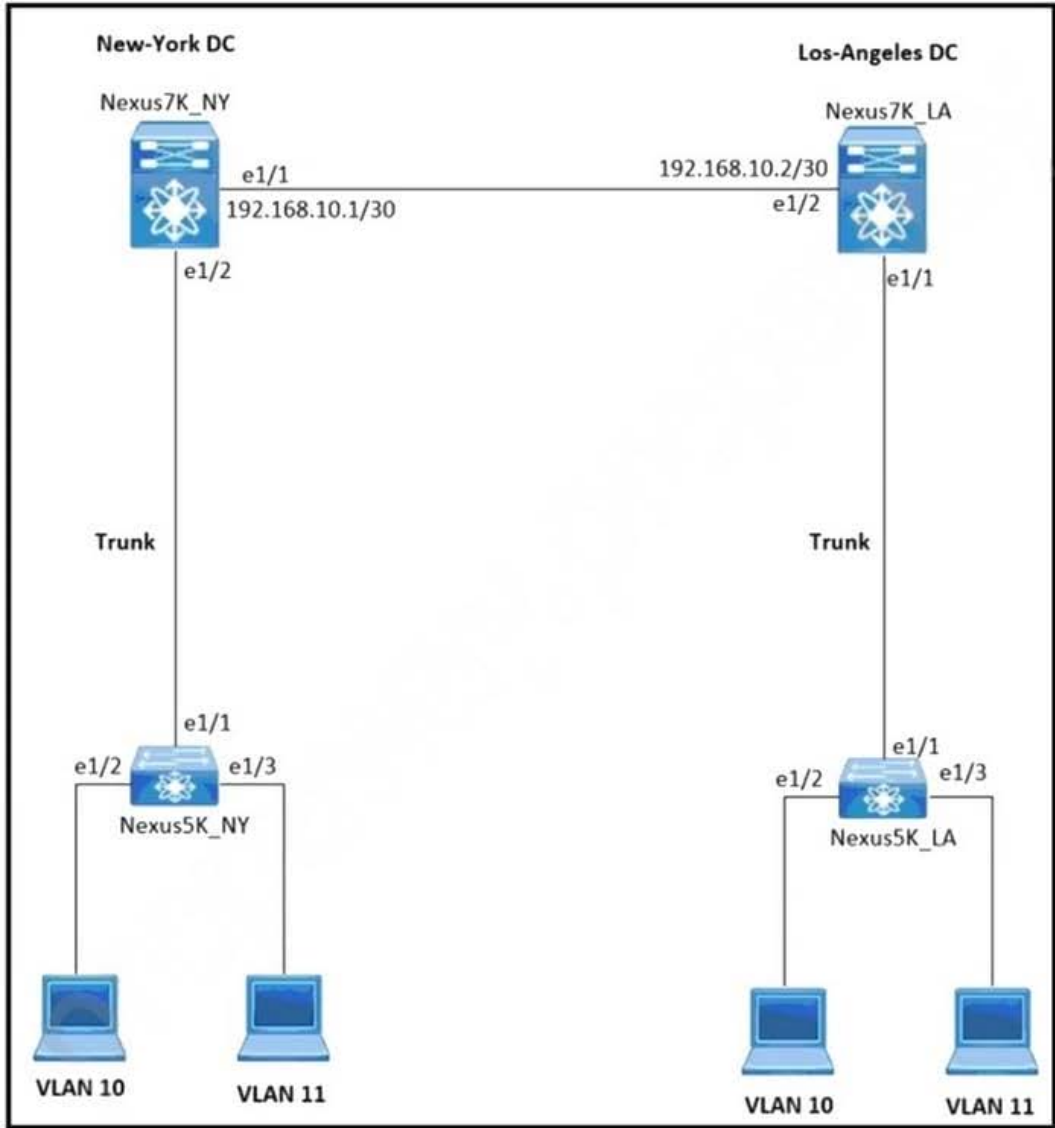
Correct Answer: D

QUESTION 14

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

QUESTION 15

Refer to the exhibit.

```
                    Nexus7K NY                                   Nexus7K LA

feature otv                                      feature otv
interface e1/1                                   interface e1/2
 no shutdown                                      no shutdown
 ip address 192.168.10.1/30                       ip address 192.168.10.2/30
 ip igmp version 3                                ip igmp version 3
 mtu 9216                                         mtu 9216

interface e1/2                                   interface e1/1
 no shutdown                                      no shutdown
 switchport mode trunk                            switchport mode trunk

vlan 5,10-11                                     vlan 5,10-11


otv site-vlan 5,10-11                            otv site-vlan 5,10-11
otv site-identifier 0011.1122.2233              otv site-identifier 0011.1122.2244

interface overlay 1                              interface overlay 1
 otv join-interface e1/1                          otv join-interface e1/2
 otv control-group 224.1.1.1                      otv control-group 224.1.1.1
 otv data-group 232.1.1.0/24                      otv data-group 232.1.1.0/24
 otv extend-vlan 10-11                            otv extend-vlan 10-11
 no shutdown                                      no shutdown
```

The OTV adjacency fails to come up. Which set of commands on each switch resolves the issue?

A. otv extend-vlan 5 otv site-vlan 5

B. otv extend-vlan 5 no otv site-vlan 5-10,11

C. otv extend-vlan 5 no otv extend-vlan 11

D. no otv site-vlan 5,10-11 otv site-vlan 5

Correct Answer: D