300-615 ^{Q&As}

Troubleshooting Cisco Data Center Infrastructure (DCIT)

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QUESTION 1

Refer to the exhibit.

```
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"
```

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

QUESTION 2

What does this adapter output indicate? adapter 1/6/1 (fls): 2# lunlist 9 vnic: 9 lifid: 6

-FLOGI State : flogi est (fc_id Oxac0e04)

-PLOGI Sessions

-WWNN 50:0a:09:83:8d:53:43:44 WWPN 50:0a:09:83:8d:53:43:44 fc_id 0x000000

-LUN\\'s configured (SCSI Type, Version, Vendor, Serial No.)

-LUN ID: Ox0000000000000000 access failure -REPORT LUNs Query Response

-

Nameserver Query Response -WWPN: 54:b1:6a:94:64:3e:73:44

A.

The configured initiator LUN ID does not match the configured target LUN ID

B.

The target device configuration does not allow the initiator to access the LUN

C.

The port types between the target and initiator are incorrectly configured

D.

The target of the configured zone does not match the target of the configured boot order

Correct Answer: D

QUESTION 3

Refer to the exhibit.

```
N9K# show interface vfc2
vfc2 is trunking
    Bound interface is Ethernet 101/1/2
    ...
    Port mode is TF
    Port vsan is 102
    Trunk vsans (admin allowed and active) (102)
    Trunk vsans (up)                        ()
    Trunk vsans (isolated)                  ()
    Trunk vsans (initializing)              (102)
    ...

N9K# show lldp interface 101/1/2
Interface information:
    Enable (tx/rx/dcbx): Y/Y/Y    Port Mac address: ca:e9:f5:21:c2:0d
N9K# |
```

The FCoE traffic fails to traverse the vfc2 interface. The VSAN 102 is configured for vfc2. Which action resolves the issue?

A. Enable LLDP on the interface vfc2

B. Activate DCBX on the N9K switch

C. Activate DCBX on the interface e101/1/2

D. Enable LLDP on the neighbor switch

Correct Answer: D

QUESTION 4

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 Setuo 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

QUESTION 5

An engineer enables the packet postcards feature on a Cisco Nexus 9000 Series Switch but receives the error message

"Error: Cannot configure postcard when inband-telemetry is configured."

Which action resolves the issue?

A. Disable the telemetry feature

B. Disable the software-telemetry feature

C. Disable the hardware-telemetry feature

D. Disable the inband-telemetry feature

Correct Answer: C

Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/92x/programmability/guide/b-cisco-nexus-9000-series-nx-os-programmability-guide-92x/b-cisco-nexus-9000-series-nx-os-programmability-guide92x_chapter_0100001.html

QUESTION 6

Refer to the exhibit.

```
vrf context BLUE
   address-family ipv4 unicast
      route-target export 65000:65000
vrf context RED
   address-family ipv4 unicast
      route-target import 65000:65000
!
interface Vlan1000
   no shutdown
   vrf member RED
   no ip redirects
   ip address 10.10.1.254/24
!
ip prefix-list RED_TO_BLUE_PL seq 5 permit 10.10.1.254/24
!
route-map RED_TO_BLUE_RM permit 10
   match ip address RED_TO_BLUE_PL
   set community 65500:65000
!
router bgp 65000
   log-neighbor-changes
   address-family ipv4 unicast
   vrf RED
      router-id 10.255.255.255
      address-family ipv4 unicast
         redistribute direct route-map RED_TO_BLUE_RM
!
```

The expected routes are not being leaked as expected from VRF RED to VRF BLUE. Which action resolves the issue?

A. Include the "le 32" knob under the RED_TO_BLUE_ACL prefix list.

B. Change the route targets under the VRFs.

C. Configure VRF BLUE under the BGP configuration.

D. Set the community to 65000:65000 under the route map.

Correct Answer: D

QUESTION 7

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:

Both the kernel firmware version by using the bootflash.	1
Ensure that the management image is linked correctly.	2
Load the system image.	3
Reboot the switch, and press Ctrl+L to display the loader prompt as the switch boots.	4
Run the dir command.	5

Correct Answer:

Reboot the switch, and press Ctrl+L to display the loader prompt as the switch boots.
Run the dir command.
Both the kernel firmware version by using the bootflash.
Ensure that the management image is linked correctly.
Load the system image.

QUESTION 8

Refer to the exhibit.

```
N5K-1# show running-config aaa all
!
version 7.0(2)N2(1)
logging level aaa 5
aaa authentication login default group radius
aaa authentication login console group radius
aaa authorization ssh-publickey default local
aaa authorization ssh-certificate default local
aaa accounting default local
aaa user default-role
aaa authentication login default fallback error local
aaa authentication login console fallback error local
aaa authentication login error-enable
no aaa authentication login mschap enable
no aaa authentication login mscapv2 enable
no aaa authentication login chap enable
```

A functioning trunk port Ethernet1/48 exists between two identical Cisco Nexus 5000 Series Switches. The interfaces on the switches support the MACsec feature and are configured identically. The trunk port stops functioning. Which action should be taken to resolve the issue?

A. Disable and then enable the port

B. Enable the license for the trunk ports to support MACsec

C. Lower the MTU value to less than 9216 bytes

D. Configure the PMK with a length of 2048 bytes

Correct Answer: B

QUESTION 9

Refer to the exhibit.
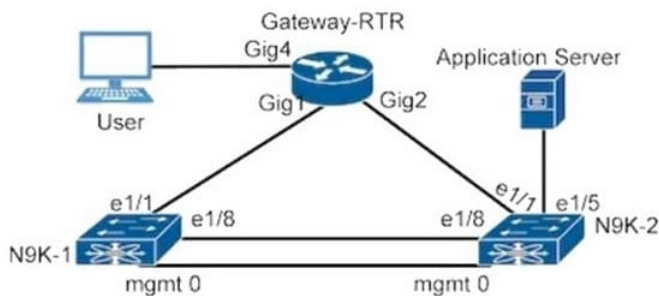
```
hostname Gateway-RTR
interface Port-channel1
  ip address 10.1.1.1 255.255.255.0
interface GigabitEthernet1
  no ip address
  channel-group 1 mode active
interface GigabitEthernet2
  no ip address
  channel-group 1 mode active
interface GigabitEthernet4
  ip address 192.168.1.254 255.255.255.0
!
ip route 172.16.1.0 255.255.255.0 10.1.1.2
```

```
hostname N9K-1
vpc domain 100
peer-switch
role priority 80
peer-keepalive destination
1.1.1.2 source 1.1.1.1
interface Vlan10
ip address 10.1.1.3/24
hsrp 1
preempt
priority 110
ip 10.1.1.2
interface Vlan20
ip address 172.16.1.252/24
hsrp 1
preempt
priority 110
ip 172.16.1.254
interface port-channel1
switchport access vlan 10
spanning-tree port type edge
vpc 1
interface port-channel2
switchport access vlan 20
spanning-tree port type edge
vpc 2
interface Ethernet1/1
switchport access vlan 10
spanning-tree port type edge
channel-group 1 mode active
interface Ethernet1/5
switchport access vlan 20
spanning-tree port type edge
channel-group 2
```

```
hostname N9K-2
vpc domain 100
peer-switch
role priority 90
peer-keepalive destination
1.1.1.1 source 1.1.1.2
interface Vlan10
ip address 10.1.1.4/24
hsrp 1
preempt
priority 90
ip 10.1.1.2
interface Vlan20
ip address 172.16.1.253/24
hsrp 1
preempt
priority 90
ip 172.16.1.254
interface port-channel1
switchport access vlan 10
spanning-tree port type edge
vpc 1
interface port-channel2
switchport access vlan 20
spanning-tree port type edge
vpc 2
interface Ethernet1/1
switchport access vlan 10
spanning-tree port type edge
channel-group 1 mode active
interface Ethernet1/5
switchport access vlan 20
spanning-tree port type edge
channel-group 2
```

A network engineer is troubleshooting an issue where a user reports that they failed to reach the business application server while N9K-1 is down. Which action resolves the issue?

A. Change the priority value of the N9K-2 switch to 120.

B. Remove the peer-switch feature from the N9K-2 switch.

C. Remove the VPC configuration from the application server interface configuration.

D. Configure the peer-gateway feature on both Cisco Nexus switches.

Correct Answer: C

QUESTION 10

Refer to the exhibit.

```
18 SNMP packets input
        0 Bad SNMP versions
        18 Unknown community name
        0 Illegal operation for community name supplied
        0 Encoding errors
        0 Number of requested variables
        0 Number of altered variables
        0 Get-request PDUs
        0 Get-next PDUs
        0 Set-request PDUs
        0 No such name PDU
        0 Bad value PDU
        0 Read Only PDU
        0 General errors
        0 Get Responses
        0 Unknown Context name
 0 SNMP packets output
        0 Trap PDU
        0 Too big errors (Maximum packet size 1500)
        0 No such name errors
        0 Bad values errors
        0 General errors
        0 Get Requests
        0 Get Next Requests
        0 Set Requests
        0 Get Responses
        0 Silent drops


Community                 Group / Access          context    acl_filter
_____                  _____         _____    _____
public                    network-operator


_____
                SNMP USERS
_____

User                      Auth  Priv(enforce) Groups                acl_filter
_____                     ____  _____ _____                _____
admin                     md5   des(no)       network-admin
```

The monitoring team reports an inability to access the devices after a new centralized management integration. Which action resolves the issue?

A. Enable SHA authentication for the admin user

B. Update the community string

C. Modify the SNMP ACL to allow the incoming request packets

D. Change the admin user permissions to write

Correct Answer: B

QUESTION 11

The external routes fail to propagate to leaf switches in Cisco ACI fabric Which two actions resolve the issue? (Choose two.)

A. Enable the VTEP pool in the fabric

B. Assign an MP-BGP AS number to the fabric.

C. Specify the spine nodes as route reflectors

D. Associate the correct contract to the L30ut.

E. Configure an MP-BGP area.

Correct Answer: BC

QUESTION 12

Refer to the exhibit.

```
event manager applet INTERFACE_TRACK
    description "Send SNMP trap when interface is flapping"
    event syslog occurs 3 period 10 pattern "ETHPORT-5-IF_DOWN"
    action 1.0 snmp-trap strdata "INTERFACE IS FLAPPING"
```

A network administrator created an EEM script to alert network management about flapping interfaces on a Cisco Nexus Series Switch. The applet must run when an interface flaps three times within 10 minutes. The EEM script fails to run as expected. Which action resolves the issue?

A. Use integer data within the SNMP trap.

B. Change the event period to 600.

C. Configure a policy-default action.

D. Associate a scheduler to the EEM script.

Correct Answer: B

QUESTION 13

Refer to the exhibit.

```
n7k-1(config)# no role feature-group name test_feature_group1
ERROR: Feature group is in use. Can't remove the feature group
n7k-1(config)# show role | egrep role:|feature-group
  1        permit read-write feature-group        test_feature_group1
n7k-1(config)#
```

A network administrator must delete a feature group from a Cisco Nexus 5000 Series Switch. Which action resolves the issue?

A. Detach the association with the no rule command within the role configuration mode

B. Detach the association with the no role command within the feature-group configuration mode

C. Detach the association with the no rule command within the feature-group configuration

D. Detach the association with the no role command within the role configuration mode

Correct Answer: A

QUESTION 14

Refer to the exhibit.

```
ficl-mgmt-A# show cluster state
Cluster Id: 0xfe92119409cf1111-0x81a200defbec3111
A: UP, PRIMARY
B: UP, SUBORDINATE

ficl-mgmt-A(nxos)# show fex 1 detail  | exclude Down
FEX: 1 Description: FEX0001    state: Online
    Pinning-mode: static     Max-links: 1
    Fabric port for control traffic: Eth1/4
    FCoE Admin: false
    FCoE Oper: true
    FCoE FEX AA Configured: false
    Fabric interface state:
        Eth1/1 - Interface Up. State: Active
        Eth1/2 - Interface Up. State: Active
        Eth1/3 - Interface Up. State: Active
        Eth1/4 - Interface Up. State: Active
    Fex Port          State     Fabric Port
            Eth1/1/1     Up         Eth1/1
            Eth1/1/3     Up         Eth1/1
            Eth1/1/5     Up         Eth1/2
            Eth1/1/7     Up         Eth1/2
            Eth1/1/9     Up         Eth1/3
           Eth1/1/11     Up         Eth1/3
           Eth1/1/13     Up         Eth1/4
           Eth1/1/15     Up         Eth1/4
           Eth1/1/17     Up         Eth1/1
           Eth1/1/19     Up         Eth1/1
           Eth1/1/21     Up         Eth1/2
           Eth1/1/23     Up         Eth1/2
           Eth1/1/33     Up         Eth1/4
```

A network engineer needs to capture traffic from the VMs that utilize the IOM host interface Eth1/1/23 of a Cisco UCS B-Series chassis. A traffic analyzer is used to get traffic captured from the Eth1/4 interface of the subordinate fabric interconnect. The network engineer notices that traffic is not captured on the traffic analyzer. Which action resolves the issue?

A. Span the traffic from the Eth 1/2 of the subordinate fabric interconnect

B. Span the traffic from the Eth 1/2 of the primary fabric interconnect

C. Span the traffic from the Eth 1/4 of the subordinate fabric interconnect

D. Span the traffic from the Eth 1/4 of the primary fabric interconnect

Correct Answer: B

QUESTION 15

Refer to the exhibit.

```
key chain hsrp-keys
    key 0
        key-string 7 cisco123
        accept-lifetime 00:00:00 Jun 01 2018 23:59:59 Sep 01 2020
        send-lifetime 00:00:00 Jun 01 2018 23:59:59 Nov 01 2020
    key 1
        key-string 7 cisco456
        accept-lifetime 00:00:00 Oct 01 2018 23:59:59 Dec 12 2020
        send-lifetime 00:00:00 Sep 01 2018 23:59:59 Nov 01 2020
interface ethernet 1/1
    hsrp 11
        authenticate md5 key-chain hsrp-keys
```

28614: Feb 11 12:31:47.318 OTC: HSRP: V111 Grp 11 Hello out 10.10.10.2 Active pri 100 vIP 10.10.10.128615: Feb 11 12:31:48.568 UTC: HSRP: V111 Grp 11 Hello in 10.10.10.3 Active pri 110 vIP 10.10.10.128616: Feb 11 12:31:48.568 OTC: HSRP: v111 GrP 11 Auth failed for Hello pkt from 10.10.10.3, No key for this key ID28617: Feb 11 12:31:48.568 UTC: *HSRP-4-BADAUTH: Bad authentication from 10.10.10.3, group 11, remote state Active

A network engineer notices a sudden interruption to the HSRP adjacency between the switches. The packet loss is reported on the servers for which the default gateway is set as the virtual IP of the HSRP. All servers on the VLAN can exchange ping messages. Which configuration set must be applied on the HSRP peers to resolve the adjacency issue?

A. key 0accept-lifetime 00:00:00 Oct 01 2018 23:59:59 Sep 01 2020

B. key 0send-lifetime 00:00:00 Oct 01 2018 23:59:59 Sep 01 2020

C. key 1send-lifetime 00:00:00 Jun 01 2018 23:59:59 Sep 01 2022

D. key 1accept-lifetime 00:00:00 Jun 01 2018 23:59:59 Sep 01 2020

Correct Answer: D

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