

# Cisco

## Exam Questions 350-601

Implementing and Operating Cisco Data Center Core Technologies



### NEW QUESTION 1

DRAG DROP

An engineer is implementing NetFlow on a Cisco Nexus 7000 Series Switch.

Drag and drop the NetFlow commands from the left into the correct order they must be entered on the right.

Select and Place:

|                                                                                                |        |
|------------------------------------------------------------------------------------------------|--------|
| N7K-1(config)# interface <interface><br>N7K-1(config-if)# ip flow monitor NetflowMonitor input | Step 1 |
| N7K-1(config)# feature netflow                                                                 | Step 2 |
| N7K-1(config)# flow exporter NetflowMonitor<br>N7K-1(config)# flow record NetflowMonitor       | Step 3 |
| N7K-1(config)# flow monitor NetflowMonitor                                                     | Step 4 |

- A. Mastered  
 B. Not Mastered

**Answer: A**

**Explanation:**

|                                                                                                |                                                                                                |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| N7K-1(config)# interface <interface><br>N7K-1(config-if)# ip flow monitor NetflowMonitor input | N7K-1(config)# feature netflow                                                                 |
| N7K-1(config)# feature netflow                                                                 | N7K-1(config)# flow exporter NetflowMonitor<br>N7K-1(config)# flow record NetflowMonitor       |
| N7K-1(config)# flow exporter NetflowMonitor<br>N7K-1(config)# flow record NetflowMonitor       | N7K-1(config)# flow monitor NetflowMonitor                                                     |
| N7K-1(config)# flow monitor NetflowMonitor                                                     | N7K-1(config)# interface <interface><br>N7K-1(config-if)# ip flow monitor NetflowMonitor input |

### NEW QUESTION 2

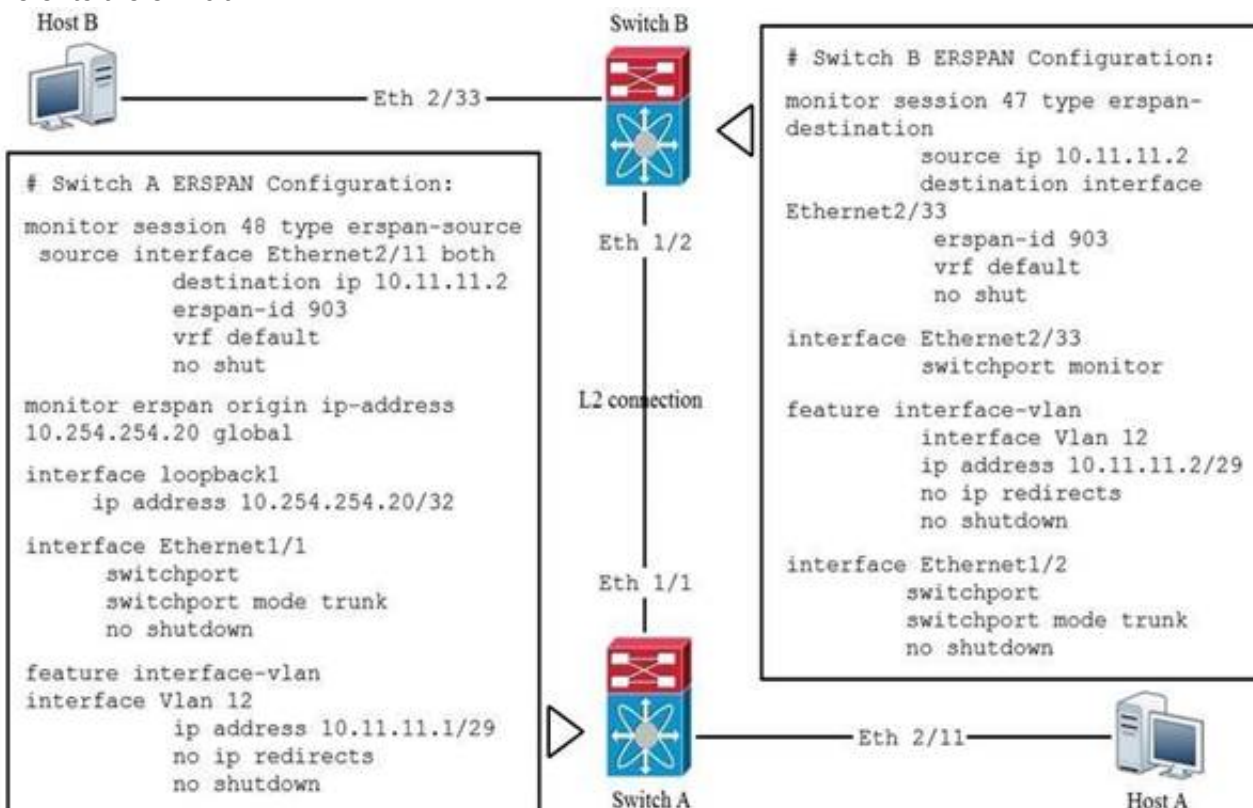
Which virtual MAC address is the default for HSRP version 2 group 10?

- A. 0000.5E00.0110  
 B. 0000.0C9F.F00A  
 C. 3716.1350.1C0A  
 D. 0000.0C9F.F010

**Answer: B**

### NEW QUESTION 3

Refer to the exhibit.



Which statement about the ERSPAN configuration in this environment is true?

- A. The session number of the source of ERSPAN spanned traffic must have a session ID of 47 for the traffic analyzer to receive the traffic.
- B. Host B is the source of ERSPAN spanned traffic and host A is the traffic analyzer.
- C. The session number of the source of ERSPAN spanned traffic must have a session ID of 48 for the traffic analyzer to receive the traffic.
- D. Host A is the source of ERSPAN spanned traffic and host B is the traffic analyzer.

**Answer:** D

#### NEW QUESTION 4

Which mroute state is created when Bidirectional PIM is deployed at a site?

- A. \*.G
- B. MVPN Type-6
- C. MVPN Type-7
- D. S.G

**Answer:** A

#### NEW QUESTION 5

Which adjacency server configuration makes two OTV edge devices located in the same site bring up the dual- site adjacency?

- A. Nexus-1:

```
interface Ethernet1/2
ip address 20.1.1.1/24
```

```
interface Overlay200
otv use-adjacency-server 20.1.1.2 unicast-only
otv join-interface Ethernet1/2
```

Nexus-2:

```
interface Ethernet1/2
ip address 20.1.1.2/24
```

```
interface Overlay200
otv use-adjacency-server 20.1.1.1 unicast-only
otv join-interface Ethernet1/2
```

- B. Nexus-1:

```
interface Ethernet1/2
ip address 20.1.1.1/24
```

```
interface Overlay200
otv adjacency-server unicast-only
otv join-interface Ethernet1/2
```

Nexus-2:

```
interface Ethernet1/2
ip address 20.1.1.2/24
```

```
interface Overlay200
otv join-interface Ethernet1/2
otv adjacency-server unicast-only
otv use-adjacency-server 20.1.1.1 unicast-only
```

- C.

Nexus-1:

```
interface Ethernet1/2  
ip address 20.1.1.1/24
```

```
interface Overlay200  
otv adjacency-server unicast-only  
otv join-interface Ethernet1/2
```

Nexus-2:

```
interface Ethernet1/2  
ip address 20.1.1.2/24
```

```
intevrface Overlay200  
otv adjacency-server unicast-only  
otv join-interface Ethernet1/2
```

D. Nexus-1:

```
interface Ethernet1/2  
ip address 20.1.1.1/24
```

```
interface Overlay200  
otv use-adjacency-server 20.1.1.1 unicast-only  
otv adjacency-server unicast-only  
otv join-interface Ethernet1/2
```

Nexus-2:

```
interface Ethernet1/2  
ip address 20.1.1.2/24
```

```
interface Overlay200  
otv use-adjacency-server 20.1.1.2 unicast-only  
otv adjacency-server unicast-only  
otv join-interface Ethernet1/2
```

Answer: B

#### NEW QUESTION 6

The engineer must configure SPAN on a Cisco Nexus 5000 Series Switch to get a capture of the traffic from these applications for an in-depth packet analysis. Which two SPAN characteristics must be considered? (Choose two.)

- A. SPAN source ports can be monitored in multiple SPAN sessions.
- B. The Ethernet, FC, vFC, port channel, SAN port channel can be used as SPAN source ports.
- C. A SPAN source port cannot be a destination SPAN port.
- D. Only Ethernet, FC, vFC, port channel port types can be used as SPAN source ports.
- E. The rx/tx option is available for VLAN or VSAN SPAN sessions.

Answer: BC

#### NEW QUESTION 7

Refer to the exhibit.

```
Nexus# show vpc peer-keepalive | i Keepalive
--Keepalive interval : 1000 msec
--Keepalive timeout : 5 seconds
--Keepalive hold timeout : 3 seconds
--Keepalive vrf : management
--Keepalive udp port : 3200
--Keepalive tos : 192

Nexus# ethanalyzer local interface mgmt limit-captured-frames 1000

Capturing on mgmt0
2019-06-15 12:01:51.242597 192.168.254.11 -> 192.168.254.3 ICMP Echo (ping) request
2019-06-15 12:01:51.242860 192.168.254.3 -> 192.168.254.11 ICMP Echo (ping) reply
2019-06-15 11:50:15.975474 192.168.254.1 -> 192.168.254.3 TCP 47540 > bootps [SYN] Seq=0 Win=1024 Len=0 MSS=1460
2019-06-15 11:50:15.975547 192.168.254.3 -> 192.168.254.1 TCP 29 > 47540 [RST, A CK] Seq=1 Ack=1 Win=0 Len=0
2019-06-15 11:50:15.975564 192.168.254.1 -> 192.168.254.3 TCP 47540 > 44 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
2019-06-15 11:50:15.975924 192.168.254.1 -> 192.168.254.3 TCP 47540 > discard [SYN] Seq=0 Win=1024 Len=0 MSS=1460
2019-06-15 11:50:15.976027 192.168.254.1 -> 192.168.254.3 TCP 47540 > 97 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
2019-06-15 11:50:15.976381 192.168.254.1 -> 192.168.254.3 TCP 47540 > 35 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
2019-06-15 11:50:16.661845 192.168.254.3 -> 192.168.254.4 UDP Source port: 3200 Destination port: 3200
2019-06-15 11:50:16.761147 00:8e:73:a2:41:13 -> 01:80:c2:00:00:00 STP Conf. Root = 8192/10/ec:e1:a9:df:6c:80 Cost = 22 Port = 0x8013
2019-06-15 11:50:16.853248 192.168.254.4 -> 192.168.254.3 UDP Source port: 3200 Destination port: 3200
2019-06-15 11:50:17.326253 192.168.254.1 -> 192.168.254.3 SSH Encrypted request packet len=52
2019-06-15 11:50:17.327313 192.168.254.3 -> 192.168.254.1 SSH Encrypted response packet len=1348
2019-06-15 11:50:17.377246 192.168.254.4 -> 239.255.70.83 UDP Source port: 7546 Destination port: 7546
2019-06-15 11:50:17.552215 192.168.254.1 -> 192.168.254.3 TCP 14139 > ssh [ACK] Seq=365 Ack=11277 Win=63546 Len=0
2019-06-15 11:50:17.661764 192.168.254.3 -> 192.168.254.4 UDP Source port: 3200 Destination port: 3200
2019-06-15 11:50:17.653242 192.168.254.4 -> 192.168.254.3 UDP Source port: 3200 Destination port: 3200
2019-06-15 11:50:17.872637 8c:60:4f:aa:c2:e1 -> 01:80:c2:00:00:0e LLDP Chassis : d = 8c:60:41:aa:c2:e1 Port Id = mgmt0 TTL = 120
2019-06-15 11:50:08.173056 192.168.256.3 -> 192.168.254.2 NTP NTP client
2019-06-15 11:50:08.173256 192.168.256.2 -> 192.168.254.3 NTP NTP server
```

A flapping link issue has been reported on the vPC keepalive link. A packet capture has been activated on the Cisco Nexus switch. What is the destination IP address of the vPC keepalive packets that are sent by the switch?

- A. 192.168.254.4
- B. 192.168.254.1
- C. 192.168.254.2
- D. 239.255.70.83

**Answer: A**

#### NEW QUESTION 8

Refer to the exhibit.

```
Nexus(config)# show checkpoint summary
User Checkpoint Summary
-----
1) BeforeL3:
Created by admin
Created at Mon, 15:25:08 31 Dec 2018
Size is 9,345 bytes
Description: None

System Checkpoint Summary
-----
2) system-fm-vrrp:
Created by admin
Created at Fri, 09:57:02 14 Jun 2019
Size is 20,865 bytes
Description: Created by Feature Manager.

3) system-fm-hsrp_engine:
Created by admin
Created at Fri, 09:57:28 14 Jun 2019
Size is 20,852 bytes
Description: Created by Feature Manager.
```

What is the reason the system-fm-vrrp checkpoint was created?

- A. The VRRP process crashed and the checkpoint was automatically created.
- B. The VRRP service restarted and the checkpoint was automatically created.
- C. The network administrator manually created it.
- D. The VRRP-enabled feature has been disabled.

**Answer: D**

#### NEW QUESTION 9

Which method must a network engineer use to upgrade the BIOS firmware or a Cisco UCS standalone C-Series rack-mount server?

- A. Use the U-ACPI Interface.
- B. Use the Cisco host upgrade utility.
- C. Use the Cisco hardware upgrade utility.
- D. Use the Cisco host firmware policy.

**Answer: B**

#### NEW QUESTION 10

An engineer is implementing an import operation in Cisco UCS Manager. What is the impact of performing this operation?

- A. Information can be modified on the management plane only.
- B. A configuration can be imported from a higher release to a lower release.
- C. An import operation can be scheduled.
- D. Only a configuration file that was exported from the same Cisco UCS Manager can be imported.

**Answer:** A

#### NEW QUESTION 10

An engineer is seeking the most optimal on demand CPU performance while configuring the BIOS settings of a UCS C-series rack mount server. What setting will accomplish this goal?

- A. C6 Retention
- B. C6 non-Retention
- C. C2 state
- D. C0/C1 state

**Answer:** A

#### NEW QUESTION 13

Refer to the exhibit.



Which two Cisco UCS components are upgraded as a result of the configuration? (Choose two.)

- A. IOMs
- B. Cisco UCS Manager
- C. board controller
- D. adapters
- E. BIOS

**Answer:** AC

#### NEW QUESTION 16

A network engineer is adding a Cisco HyperFlex data platform to the Cisco Intersight management portal. Which two components are required for Intersight to claim the Cisco HyperFlex data platform? (Choose two.)

- A. device FQDN
- B. device claim code
- C. device public IP address
- D. device ID
- E. device serial number

**Answer:** BD

#### NEW QUESTION 19

Refer to the exhibit.

```
UCS-A# scope adapter 1/1/1
UCS-A# /chassis/server/adapter # show image
Name                               Type      Version   State
-----
ucs-m81kr-vic.2.2.1b.bin           Adapter   2.2(1b)   Active

UCS-A# /chassis/server/adapter # update firmware 2.2(1b)
UCS-A# /chassis/server/adapter* # activate firmware 2.2(1b)
set-startup-only
UCS-A# /chassis/server/adapter* # commit-buffer
UCS-A# /chassis/server/adapter #
```

What is the result of this series of commands?

- A. It reboots the server immediately.
- B. It activates the firmware on the next adapter boot.
- C. It updates the firmware on adapter 1/1/1 immediately.
- D. It verifies the firmware update on the server.

**Answer:** B

NEW QUESTION 20

Which two hypervisors does Cisco HyperFlex support? (Choose two.)

- A. OpenStack
- B. Citrix XenServer
- C. VMware vSphere
- D. RedHat KVM
- E. Microsoft Hyper-V

Answer: CE

NEW QUESTION 21

Which statement about the impact of a rolling EPLD upgrade on a Cisco MDS 9000 Series Switch is true?

- A. The upgrade can be performed from the standby supervisor module.
- B. Only the modules that are being upgraded are disrupted.
- C. All modules on the switch are disrupted.
- D. An EPLD upgrade is nondisruptive.

Answer: B

NEW QUESTION 26

Which two statements about the process of performing an EPLD upgrade on a Cisco MDS 9000 Series Switch are true? (Choose two.)

- A. The upgrade can be performed from the standby supervisor module.
- B. The upgrade process disrupts only the module that is being upgraded.
- C. The active supervisor can be upgraded.
- D. If an upgrade is interrupted, the upgrade continues after a connection is restored.
- E. Modules must be online to be upgraded.

Answer: AB

NEW QUESTION 27

Which two statements about the process at upgrading an EPLD on a Cisco MDS 9000 Series Switch are correct? (Choose two.)

- A. EPLDs can be upgraded only to the latest EPLD image.
- B. EPLD upgrades can be completed without powering down the module during the upgrade.
- C. An upgrade verification identifies the impact of each EPLD upgrade.
- D. The EPLDs for all the modules on a switch must be upgraded at the same time.
- E. EPLDs can be upgraded without replacing the hardware.

Answer: CE

NEW QUESTION 31

DRAG DROP

An engineer is configuring VNTag between a virtualized server and a Cisco Nexus 5500 Series switch. Drag and drop the configuration steps from the left into the correct order on the right.  
Select and Place:

|                                                                                |        |
|--------------------------------------------------------------------------------|--------|
| Configure support for VNTag mode on the interface that connects to the server. | Step 1 |
| Configure the vNICs of the server.                                             | Step 2 |
| Configure the server to support NIV mode.                                      | Step 3 |
| Enable the virtualization feature set.                                         | Step 4 |
| Configure the port profile.                                                    | Step 5 |
| Install the virtualization feature set.                                        | Step 6 |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

|                                                                                |                                                                                |
|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Configure support for VNTag mode on the interface that connects to the server. | Install the virtualization feature set.                                        |
| Configure the vNICs of the server.                                             | Enable the virtualization feature set.                                         |
| Configure the server to support NIV mode.                                      | Configure the port profile.                                                    |
| Enable the virtualization feature set.                                         | Configure support for VNTag mode on the interface that connects to the server. |
| Configure the port profile.                                                    | Configure the vNICs of the server.                                             |
| Install the virtualization feature set.                                        | Configure the server to support NIV mode.                                      |

#### NEW QUESTION 32

Multiple roles are applied to a user on the Cisco MDS 9000 Series Switch.  
Which statement is true?

- A. The last role assigned takes precedence over previous roles.
- B. Access to a command takes priority over being denied access to a command.
- C. Any commands that have conflicting settings between roles are denied.
- D. The first role assigned takes precedence over subsequent roles.

**Answer:** B

#### NEW QUESTION 35

Refer to the exhibit.

```
FI-1# scope org /
FI-1 /org # create maint-policy maintenance
FI-1 /org/maint-policy* # set reboot-policy timer-automatic
FI-1 /org/maint-policy* # set soft-shutdown-timer never
```

Which action must be taken before the maintenance policy can be committed?

- A. Specify a maintenance time by selecting a schedule.
- B. Associate a service profile to the maintenance policy.
- C. Set the soft shutdown timer to a specific time.
- D. Set the policy to apply the changes on the next reboot.

**Answer:** A

#### NEW QUESTION 39

What is an advantage of NFS as compared to Fibre Channel?

- A. NFS removes the impact of IP overhead.
- B. NFS enables thin provisioning for LUNs.
- C. NFS provides direct access to the underlying storage hardware.
- D. NFS provides the dynamic allocation of storage capacity.

**Answer:** B

#### NEW QUESTION 40

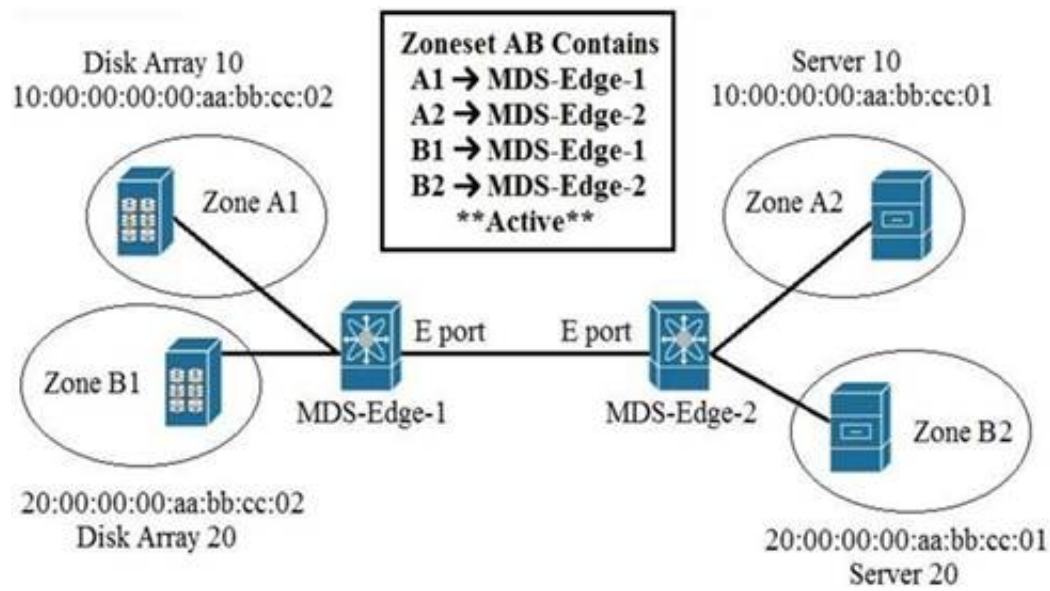
In an FCoE environment, for which two sets of data must an interface that implements the PAUSE mechanism always provision sufficient ingress buffer? (Choose two.)

- A. frames that were sent with high credit
- B. frames that were sent on the link but not yet received
- C. frames that were processed and transmitted by the transmitter after the PAUSE frame left the sender
- D. frames that were processed and transmitted by the transmitter before the PAUSE frame left the sender
- E. frames that were sent on the link and received

**Answer:** BD

#### NEW QUESTION 41

Refer to the exhibit.



An engineer is implementing zoning on two Cisco MDS switches. After the implementation is finished, E Ports that connect the two Cisco MDS switches become isolated. What is wrong with the implementation?

- A. Zones are local to the MDS switch and name service must be used to activate the connection between E Ports.
- B. Different zone set names must be configured on both MDS switches.
- C. Zones must have the same name on both MDS switches for the E Ports to function.
- D. E Ports on both MDS switches must be configured as F Ports for the zoning to function.

**Answer: A**

#### NEW QUESTION 44

An engineer is implementing FCoE.

Which aspect of DCBXP on a Cisco Nexus switch affects this implementation?

- A. It requires that LLDP transmit and LLDP receive are enabled on the FCoE interface.
- B. It uses the Cisco Fabric Services protocol to exchange parameters between two peer links.
- C. It provides the authentication of peers on the Cisco Nexus switch.
- D. It always is enabled on 10/100-Mbps native Ethernet ports.

**Answer: A**

#### NEW QUESTION 48

Which statement about the MAC address that the FCoE Initialization Protocol chooses for use by an E-Node in an FCoE implementation is true?

- A. The FCoE Initialization Protocol uses a 24-bit FC-MAP and concatenates a 24-bit Fibre Channel ID to create a fabric-provided MAC address.
- B. The FCoE Initialization Protocol uses the burned-in MAC address of the converged network adapter for all FCoE operations.
- C. FCoE does not use a MAC address
- D. The FCoE Initialization Protocol is used to acquire a Fibre Channel ID, and the address is used for all FCoE communications in the same way as Fibre Channel Protocol.
- E. The FCoE Initialization Protocol uses 01.00.0C as the first 24 bits of the MAC address and appends a 24-bit Fibre Channel ID to derive a full 48-bit FCoE MAC address.

**Answer: AB**

#### NEW QUESTION 51

Which statement about monitoring Fibre Channel traffic on a Cisco UCS 6332 Fabric Interconnect is true?

- A. Fibre Channel traffic can be monitored only on one vHBA per server.
- B. Fibre Channel traffic can be monitored as it is encapsulated as FCoE.
- C. The monitoring of Fibre Channel traffic is limited to the default VSAN.
- D. The destination port for monitoring must be an unassigned Fibre Channel port.

**Answer: A**

#### NEW QUESTION 56

Which two statements about modifying Cisco UCS user accounts are true? (Choose two.)

- A. Disabling a user account maintains all of the data in the Cisco UCS Fabric Interconnect.
- B. The admin account can be used to log on by using SSH only.
- C. The password of the user account must contain a minimum of 10 characters.
- D. Local user accounts override the same account on a remote authentication server, such as TACACS, RADIUS, or LDAP.
- E. The password of the user account expires in 30 days.

**Answer: AD**

#### NEW QUESTION 59

An engineer is converting a Cisco MDS switch to support NPIV mode.

What should be considered when implementing the solution?

- A. It requires mapping of external interface traffic.
- B. It must be enabled on VSAN 1 only.

- C. It must be enabled globally on all VSANs.
- D. It requires the FLOGI database to be disabled.

**Answer:** C

#### NEW QUESTION 64

A customer has a requirement for an automation solution that supports periodically acquiring configuration from a centralized server and aligning UCS servers to their desired state. Which open-source tool meets this requirement?

- A. SaltStack
- B. Kubernetes
- C. Puppet
- D. Terraform

**Answer:** C

#### NEW QUESTION 66

What is required for using Puppet in a Cisco NX-OS environment?

- A. OpenNP
- B. XML management interface
- C. NX-API
- D. Open Agent Container

**Answer:** D

#### NEW QUESTION 69

Refer to the exhibit.

```
Python Code:

import requests
import json

url='http://lab-93180bdlf-sw1/ins'
switchuser='dazfre'
switchpassword='Clscorox0'

myheaders={'content-type': 'application/json'}
payload={
    "ins_api": {
        "version": "1.0",
        "type": "cli_show",
        "chunk": "0",
        "sid": "1",
        "input": "configure terminal : feature hsrp",
        "output_format": "json"
    }
}
response = requests.post(url,data=json.dumps(payload),
headers=myheaders,auth=(switchuser,switchpassword))

print(response.text)

ERROR MESSAGE
{
  "ins_api" : {
    "type": "cli_show",
    "version": "1.0",
    "sid": "eoc",
    "outputs": [
      {
        "output": [
          {
            "clierror": "% invalid command\n",
            "input": "configure terminal",
            "msg": "input CLI command error",
            "code": "400"
          },
          {
            "clierror": "% invalid command\n",
            "input": "feature hsrp",
            "msg": "input CLI command error",
            "code": "400"
          }
        ]
      }
    ]
  }
}
```

Why does the Python code for Cisco NX-API print an error message?

- A. The JSON is not a supported format for the NX-API.
- B. The "type" is wrong in the header of the request and should be "cli\_conf"
- C. NX-API does not allow configuration for features via the requests module.
- D. The "type" is wrong in the body of the request and should be "cli\_conf"

**Answer:** C

#### NEW QUESTION 71

A network architect is asked to design and manage geographically distributed data centers across cities and decides to use a Multi-Site Orchestrator deployment. How many orchestrators should be deployed?

- A. 5
- B. 3
- C. 4

D. 2

Answer: B

NEW QUESTION 76

What is a feature of NFS?

- A. zone-based access control
- B. Kerberos-based security model
- C. block-based file access
- D. role-based access control

Answer: B

NEW QUESTION 77

Port security is enabled on a Cisco MDS 9000 Series Switch.  
Which statement is true?

- A. Port security can be enabled only globally and affects all VSANs.
- B. Any devices currently logged in must be added manually to the device database.
- C. Auto-learning is always enabled automatically when port security is enabled.
- D. Cisco Fabric Services must be disabled before enabling port security.

Answer: C

NEW QUESTION 82

When a strict CoPP policy is implemented, which statement describes an event during which packets are dropped?

- A. A large system image is copied to a switch by using the default VRF.
- B. Fifteen SSH sessions remain connected to the switch.
- C. A ping sweep is performed on a network that is connected through a switch.
- D. A web server that is connected to a switch is affected by a DDoS attack.

Answer: D

NEW QUESTION 85

DRAG DROP

Drag and drop the storage technologies from the left onto the correct descriptions on the right.  
Select and Place:

|          |                                                      |
|----------|------------------------------------------------------|
| NFSv2    | uses client machine authentication                   |
| Kerberos | uses users authentication                            |
| NFSv4    | authenticates clients and servers in NFSv4           |
| RADIUS   | authenticates clients to corporate directory systems |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

|          |          |
|----------|----------|
| NFSv2    | NFSv2    |
| Kerberos | NFSv4    |
| NFSv4    | Kerberos |
| RADIUS   | RADIUS   |

NEW QUESTION 90

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