

## Exam Questions 350-601

Implementing and Operating Cisco Data Center Core Technologies

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#### NEW QUESTION 1

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 2

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 3

Refer to the exhibit.

```
N7K-1
interface Vlan165
  no shutdown
  no ip redirects
  ip address 10.16.165.2/27
  no ipv6 redirects
  hsrp version 2
  hsrp 165
    preempt
    priority 150
    ip 10.16.165.1

vpc domain 100
  role priority 100
  peer-keepalive destination 10.1.1.2 source 10.1.1.1
vrf default
  delay restore 60
  peer-gateway
  auto-recovery
  ip arp synchronize

N7K-2
interface Vlan165
  no shutdown
  no ip redirects
  ip address 10.16.165.3/27
  no ipv6 redirects
  hsrp version 2
  hsrp 165
    priority 50
    ip 10.16.165.1

vpc domain 100
  role priority 200
  peer-keepalive destination 10.1.1.1 source 10.1.1.2
vrf default
  delay restore 60
  peer-gateway
  auto-recovery
  ip arp synchronize
```

Which statement about the default gateway configuration of the vPC is true?

- A. Either switch can act as the active default gateway.
- B. N7K-1 acts as the default gateway for all traffic.
- C. N7K-2 forwards traffic that is destined for the default gateway by using the peer link.
- D. N7K-2 acts as the default gateway for all traffic.

**Answer:** A

#### NEW QUESTION 4

Refer to the exhibit.

```
Start time: Mon Apr 15 09:23:01 2019
Last election time: Mon Apr 15 09:24:24 2019
A: UP, PRIMARY
B: UP, SUBORDINATE
A: memb state UP, lead state PRIMARY, mgmt services state: UP
B: memb state UP, lead state SUBORDINATE, mgmt services state: UP
heartbeat state PRIMARY_OK
INTERNAL NETWORK INTERFACES:
eth1, UP
eth2, UP
HA NOT READY
No device connected to this Fabric Interconnect
```

What must be connected to clear the HA NOT READY status?

- A. Layer 1-Layer 2 ports
- B. server chassis
- C. management ports
- D. network uplinks

**Answer: B**

#### NEW QUESTION 5

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 6

Host1 is in VLAN100 located in DataCenter1 and Host2 is in VLAN200 located in DataCenter2. Which OTV VLAN mapping configuration allows Layer 2 connectivity between these two hosts?

- A. DC1:
- ```
interface Overlay1
  otv extend-vlan 100
  otv vlan mapping 100 to 200
```

DC2:

```
interface Overlay1
  otv extend-vlan 100
  otv vlan mapping 100 to 200
```

- B. DC1:
- ```
interface Overlay1
  otv extend-vlan 100
  otv vlan mapping 100 to 200
```

DC2:

```
interface Overlay1
  otv extend-vlan 200
```

- C. DC1:
- ```
interface Overlay1
  otv extend-vlan 100
```

DC2:

```
interface Overlay2
  otv extend-vlan 200
```

- D.

DC1:

```
interface Overlay1
  otv extend-vlan 100
```

DC2:

```
interface Overlay1
  otv extend-vlan 200
```

Answer: A

#### NEW QUESTION 7

Refer to the exhibit.

```
switch(config)# interface Ethernet 2/2
switch(config)# ip address 172.23.231.240/23
switch(config)# ip verify unicast source reachable-via rx
```

What is configured as a result of running these commands?

- A. loose unicast RPF
- B. strict unicast RPF
- C. IP Source Guard
- D. reverse lookup for outbound packets

Answer: B

#### NEW QUESTION 8

Which configuration implements static ingress replication?

- A.

```
interface nve 1
  member vni 3716135
  ingress-replication protocol bgp
```
- B.

```
interface nve 1
  member vni 3716135
  peer vtep 10.0.0.4
```
- C.

```
interface nve 1
  member vni 3716135
  peer vtep 10.0.0.4
  ingress-replication protocol static
  peer-ip 10.0.0.4
```
- D.

```
interface nve 1
  member vni 3716135
  ingress-replication protocol static
  peer-ip 10.0.0.4
```

Answer: D

#### NEW QUESTION 9

Refer to the exhibit.



```
OTV-Site1# show otv
OTV Overlay Information
Site Identifier 0000.0000.0111
Overlay interface Overlay200
VPN name: Overlay200
VPN state: UP
Extended vlans: 178 2500-2563 (Total:65)
Join interface(s): Eth1/2 (20.1.1.1)
Site vlan: 1999 (up)
AED-Capable: Yes
Capability: Unicast-Only
Is Adjacency Server: Yes
Adjacency Server(s): 20.1.1.1/20.2.1.1
```

A network engineer is setting up a multihomed OTV network. The first site has been set up with a primary and secondary adjacency server. Which configuration must be added on the remote OTV AEDs site? A.

- A. **interface Overlay200**  
**otv join-interface Ethernet1/2**  
**otv extend-vlan 178. 2500-2563**  
**otv use-adjacency-server 20.1.1.1 unicast-only**
- B. **interface Overlay200**  
**otv join-interface Ethernet1/2**  
**otv extend-vlan 178. 2500-2563**
- C. **interface Overlay200**  
**otv join-interface Ethernet1/2**  
**otv extend-vlan 178. 2500-2563**  
**otv use-adjacency-server 20.1.1.1 20.2.1.1 unicast-only**
- D. **interface Overlay200**  
**otv join-interface Ethernet1/2**  
**otv extend-vlan 178. 2500-2563**  
**otv adjacency-server unicast-only**

Answer: C

#### NEW QUESTION 10

Due to a major version change, an engineer must perform a software upgrade on a Cisco Nexus Series switch. Which two technologies can be implemented to reduce disruptions to the network during the upgrade? (Choose two.)

- A. vPC
- B. HSRP
- C. VDC
- D. MLAG
- E. PAgP

Answer: AC

#### NEW QUESTION 10

What are two capabilities of the Cisco Network Assurance Engine? (Choose two.)

- A. It validates that devices comply with network security policies.
- B. It predicts the impact of changes to the network.
- C. It predicts the network load on a data center.
- D. It ensures that network performance meets an SLA.
- E. It verifies the speed of network packet flows by using telemetry.

Answer: AB

#### NEW QUESTION 14

What is an advantage of streaming telemetry over SNMP?

- A. on-change traps sent to a receiver
- B. periodic push-based subscription messages
- C. periodic polling of the device status
- D. MD5-based authentication on polling

**Answer:** B

#### NEW QUESTION 15

An engineer wants to create a backup of Cisco UCS Manager for disaster recovery purposes.  
 What are two characteristics of a full state backup of a Cisco UCS Manager database? (Choose two.)

- A. contains all of the runtime states and statuses but not the configurations
- B. performs a complete binary dump of the database as a .bin file
- C. performs a complete binary dump of the database as a .sql file
- D. performs a complete binary dump of the database as a .txz file
- E. contains all of the configurations

**Answer:** BE

#### NEW QUESTION 18

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 20

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 24

Where is the witness deployed in a two-node Cisco HyperFlex Edge deployment?

- A. to the HyperFlex Edge two-node cluster
- B. to Cisco Intersight
- C. to a third-party cloud provider
- D. to an additional server with network access to HyperFlex Edge

**Answer:** B

#### NEW QUESTION 26

When the default firmware package is set to a new version, which type of policy determines the timing of server reboots during the firmware upgrade?

- A. diagnostics
- B. maintenance
- C. local disk
- D. BIOS

**Answer:** B

#### NEW QUESTION 27

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 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 37

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 42

An engineer must implement a Cisco UCS system at a customer site. One of the requirements is to implement SAN boot. The storage system maps the source WWPN to a unique LUN. Which method does Cisco recommend to configure the SAN boot?

- A. Define the vHBAs as bootable and leave the boot target definition empty.
- B. Create a SAN boot policy in which every initiator is mapped to a different target LUN.
- C. Define the vHBAs as bootable and leave the default values on the boot target definition.
- D. Create a SAN boot policy in which every initiator is mapped to the same target LUN.

**Answer:** D

#### NEW QUESTION 44

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 46

DRAG DROP

Drag and drop the characteristics from the left onto the correct storage systems on the right.

Select and Place:



|                                                                  |
|------------------------------------------------------------------|
| expensive and complex to manage                                  |
| moderately expensive and simple to configure                     |
| most resilient, highly scalable,<br>and high-performance storage |
| appliance providing file system access                           |
| lacks scalability, performance,<br>and advanced features         |

|     |
|-----|
| NAS |
|     |
|     |
|     |
| SAN |
|     |
|     |

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

|                                                                  |
|------------------------------------------------------------------|
| expensive and complex to manage                                  |
| moderately expensive and simple to configure                     |
| most resilient, highly scalable,<br>and high-performance storage |
| appliance providing file system access                           |
| lacks scalability, performance,<br>and advanced features         |

|                                                                  |
|------------------------------------------------------------------|
| NAS                                                              |
| lacks scalability, performance,<br>and advanced features         |
| moderately expensive and simple to configure                     |
| appliance providing file system access                           |
| SAN                                                              |
| expensive and complex to manage                                  |
| most resilient, highly scalable,<br>and high-performance storage |

#### 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

An engineer is implementing NPV mode on a Cisco MDS 9000 Series Switch.  
Which action must be taken?

- A. NPIV must be enabled on the upstream switch.  
B. The FCNS database must be disabled in the fabric.  
C. A port channel must be configured to the upstream switch.  
D. All switches in the fabric must be Cisco MDS switches.

Answer: A

#### 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 60

An administrator needs to configure an automated policy to shut down a link when a given threshold is exceeded on MDS switch. Which feature needs to be used?

- A. RMON
- B. EEM
- C. Call Home
- D. Scheduler

**Answer: B**

#### NEW QUESTION 62

What is an advantage of using Ansible for automation as compared to Puppet and Chef?

- A. Ansible performs automation without installing a software agent on the target node.
- B. Ansible abstracts a scenario so that one set of configuration settings can be used across multiple operating systems.
- C. Ansible automates the enforcement of configuration settings.
- D. Ansible configures a set of CLI commands on a device by using NETCONF.

**Answer: A**

#### NEW QUESTION 64

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 67

A POAP-enabled Cisco Nexus switch will not enter POAP mode.  
 Which two conditions should be verified? (Choose two.)

- A. No startup configuration is available.
- B. The switch is in bootup process.
- C. The license file is missing on the switch.
- D. Bootflash must contain a special directory named POAP with poap.py file.
- E. No Cisco NX-OS image is present on the bootflash.

**Answer: AB**

#### NEW QUESTION 70

An engineer enters these commands while in EEM on a Cisco Nexus 9000 Series Switch  
event manager applet Backup-config event timer watchdog time 1800 name timer event cli match "copy running-config startup-config" What is the result of applying this configuration?

- A. It generates an error because no action is mentioned.
- B. It executes the copy running-config startup-coring command.
- C. It saves the running configuration every 1800 seconds.
- D. It blocks the copy running-config startup-config command.

**Answer:** A

#### NEW QUESTION 73

An engineer is asked to modify an overridden policy by changing the number of FCNS database entries to 1500 and then generate a message.  
What Configuration will accomplish this task?

- A. event manager applet fcns\_policyevent fcns entries max-per-switch 1500action 1.0 syslog priority warnings msg FCNS DB entries have reached the EEM limit action2.0 policy-default
- B. event manager applet fcns\_policy override fcns\_entries\_max\_per\_switchaction 1.0 syslog priority errors "CNS DB entries have reached the EEM limit" action 2.0 policy-default
- C. event manager applet fcns\_policy override fcns\_entries\_max\_per\_switchevent fcns entries max-per-switch 1500action 1.0 syslog priority warnings msg FCNS DB entries have reached the EEM limit
- D. event manager applet fcns\_policy action 1.0 syslog priority warnings msg FCNS DB entries have reached the EEM limit action 2.0 event-default

**Answer:** C

#### NEW QUESTION 74

Refer to the exhibit.

```
<?xml version="1.0" encoding="UTF-8"?><imdata totalCount="1"><error  
code="403" text="Token was invalid (Error: Token timeout)"/></imdata>
```

An engineer configures a new application profile using REST API and receives this error message. Which method can be used before the application profile can be configured?

- A. GET to aaaListDomains
- B. POST to aaaRefresh
- C. POST to aaaLogin
- D. POST to aaaLogout

**Answer:** C

#### NEW QUESTION 78

An engineer is asked to manage a large-scale data center and collect information from multiple Cisco NX-OS devices using Cisco NX-OS Data Management Engine model.

Which technology should be used to accomplish this goal?

- A. NETCONF
- B. NX Yang
- C. NX-API REST
- D. JSON-RPC

**Answer:** C

#### NEW QUESTION 79

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 83

Which feature must be enabled to support the use of JSON and XML encodings when a Cisco Nexus 7000 Series Switch is deployed?

- A. Bash shell
- B. NX-API
- C. Open Agent Container
- D. LLDP

**Answer:** B

#### NEW QUESTION 86

An engineer must configure RBAC in Cisco UCS Manager in an existing data center environment.

Which two roles can be used to configure LAN connectivity policies? (Choose two.)

- A. server-profile
- B. network-admin
- C. operations
- D. enable
- E. admin

**Answer:** BE

#### NEW QUESTION 87

An engineer is enabling port security on a Cisco MDS 9000 Series Switch.

Which feature of enabling port security on a Cisco MDS 9000 Series Switch must be considered?

- A. It can be distributed by using Cisco Fabric Services.
- B. It authorizes only the configured sWWN to participate in the fabric.
- C. It always learns about switches that are logging in.
- D. It binds the fabric at the switch level.

**Answer:** A

#### NEW QUESTION 92

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 93

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 97

A host in EPG Client wants to talk to a webserver in EPG Web. A contract with default settings is defined between EPG Client and EPG Web, which allows TCP communication initiated by the client toward the webserver with TCP destination port 80.

Which statement is true?

- A. If EPG Web is made a preferred group member, a contract between EPG Client and EPG Web is no longer required for the host in EPG Client to reach the webserver in EPG Web.
- B. If vzAny is configured to consume and provide a "deny all" contract, traffic between EPG Client and EPG Web is no longer allowed.
- C. The host in EPG Client can connect to TCP destination port 80 on the webserver in EPG We
- D. The webserver will not be able to initiate a separate TCP connection to a host port with TCP source port 80.
- E. The host in EPG Client can connect to TCP destination port 80 on the webserver in EPG We
- F. The webserver can initiate a separate TCP connection to a host port with TCP source port 80.

**Answer:** D

#### NEW QUESTION 99

An engineer is running an ACI fabric, has VMM integration with VMware vCenter, and wants to enable microsegmentation based on vCenter VM attributes. Which statement about microsegmentation is true?

- A. ACI does not support microsegmentation based on vCenter VM attribute
- B. You should use network attributes for microsegmentation.
- C. When enabled, microsegmentation performs distributed switching and routing on the ESXi hosts.
- D. Microsegmentation is supported only using AVE or AVS.
- E. An ACI microsegmented EPG automatically creates a port group with a private VLAN configured on a VMware vCenter distributed virtual switch.

**Answer:** D

#### NEW QUESTION 103

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 107

Refer to the exhibit.

```
NEXUS(config)# feature tacacs+
NEXUS(config)# tacacs-server timeout 5
NEXUS(config)# tacacs-server directed-request
NEXUS(config)# tacacs-server deadtime 0
NEXUS(config)# tacacs server host 10.1.50.20 port 49
NEXUS(config)# tacacs-server host 10.1.50.20 key 7 "Flwhgl23" timeout 1
NEXUS(config)# aaa group server tacacs+ ISE
NEXUS(config-tacacs+)# server 10.1.50.20
NEXUS(config-tacacs+)# deadtime 10
NEXUS(config-tacacs+)# use-vrf management
NEXUS(config-tacacs+)# source-interface mgmt 0
NEXUS(config)# aaa authentication login default group ISE
```

What is the result of implementing this configuration?

- A. The switch queries the TACACS+ server by using an encrypted text PAP login.
- B. The TACACS+ server uses the type-6 encrypted format.
- C. The switch queries the TACACS+ server by using a clear text PAP login.
- D. The timeout value on the TACACS+ server is 10 seconds.

Answer: D

NEW QUESTION 109

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