300-165^{Q&As}

Implementing Cisco Data Center Infrastructure

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QUESTION 1

```
NEXUS(config) # ip access-list MGMT
NEXUS(config-acl) # 10 deny udp any 10.1.23.4/32 eq snmptrap
NEXUS(config-acl) # permit tcp any 10.1.23.4/32 eq 53

NEXUS(config) # interface Vlan10
NEXUS(config-if) # description MGMT SVI
NEXUS(config-if) # no shutdown
NEXUS(config-if) # ip address 10.1.10.1/24
NEXUS(config-if) # ip access-group MGMT

Nexus # show run | 1 snmp
snmp-server contact IT_Helpdesk
snmp-server location USA
snmp-server sourve-interface trap Vlan10
snmp-server user super network-admin auth sha
0x12345510f7bec0d79e2724de0a40
e8e268c6 priv 0x48e7aa877600f7bec0d79e2724de0a40e8e268c6 localizedkey
snmp-server enable traps cfs merge-failure
snmp-server enable traps aaa server-state-change
snmp-server enable traps hsrp state-change
snmp-server host prime01 informs version 3 priv cisco
snmp-server host 10.1.23.4 use-vrf default
```

Refer to the exhibit. You configure SNMP traps to be sent to a server. The server does not receive the traps. Which reason could cause this issue?

A. SNMPv3 is disabled

B. UDP port 162 is blocked by an ACL

C. The SNMP traffic uses the management VRF

D. TCP port 162 is blocked by a firewall

Correct Answer: A

QUESTION 2

Which option describes the atomic rollback feature in Cisco NX-OS is true?

A. Rollback is implemented only if no errors occur.

B. Rollback is implemented and any errors are skipped.

C. Rollback is implemented and stops if an error occurs.

D. Rollback is implemented instantly and there is no option to cancel the operation if errors are encountered.

Correct Answer: A

QUESTION 3

You enable the HSRP feature on a Cisco Nexus 7000 Series switch. You must ensure that the switch manages packets that are sent to the local vPC MAC address, remote vPC MAC address, and HSRP virtual MAC address. Which command should you run?

A. peer-gateway

B. hrsp preempt

C. map-server

D. peer-switch

Correct Answer: A

QUESTION 4

What is the result when the configured RTT of an FCIP link is smaller than the measured RTT?

A. The link might not be fully utilized.

B. The minimum available bandwidth for the link must be increased.

C. The link might be oversubscribed.

D. The TCP sliding window constantly resets.

Correct Answer: A

The configured round-trip-time parameter determines the window scaling factor of the TCP connection. This parameter is only an approximation. The measured RTT value overrides the round trip time parameter for window management. If the configured round-trip-time is too small compared to the measured RTT, then the link may not be fully utilized due to the window scaling factor being too small. Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/5_0/configuration/guides/ipsvc/nxos/ipsvc/cfcip.pdf

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QUESTION 5

VSANs and SAN Zoning have similar security goals, but also have different qualities. Drag the characteristic on the left to the appropriate column heading (VSAN or Zoning) on the right.

Select and Place:

VSANs and SAN Zoning have similar security goals, but also have different qualities. Drag the characteristic on the left to the appropriate column heading (VSAN or Zoning) on the right.

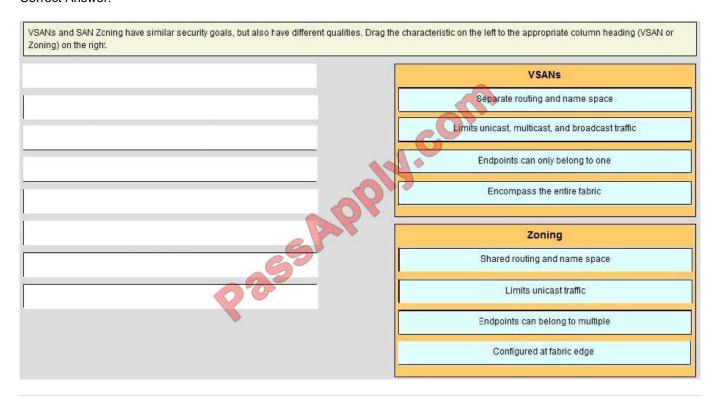|	VSANs
Limits unicast, multicast, and broadcast traffic	
Endpoints can only belong to one	
Shared routing and name space	
Limits unicast traffic	
Separate routing and name space	
Endpoints can belong to multiple	Zoning
Configured at fabric edge	
Encompass the entire fabric	

Correct Answer:

VSANs and SAN Zoning have similar security goals, but also have different qualities. Drag the characteristic on the left to the appropriate column heading (VSAN or Zoning) on the right.

VSANs
- Separate routing and name space
- Limits unicast, multicast, and broadcast traffic
- Endpoints can only belong to one
- Encompass the entire fabric

Zoning
- Shared routing and name space
- Limits unicast traffic
- Endpoints can belong to multiple
- Configured at fabric edge

QUESTION 6

```
Nexus_7k (config)# feature port-security
Nexus_7k (config-if)# interface Ethernet 2/1
Nexus_7k (config-if)# switchport port-security max 3
Nexus_7k (config-if)# switchport port-security
violation protect
```

Refer to the exhibit. Which two options are results of the configuration on the Cisco Nexus switch? (Choose two.)

A. Port security on the Ethernet 2/1 interface uses the sticky method for MAC address learning.

B. When the interface receives a packet triggering the violation, the interface is error disabled.

C. When the interface receives a packet triggering the violation, a syslog message is logged, address learning continues, and all traffic continues to be forwarded.

D. When the interface receives a packet triggering the violation, address learning is stopped and ingress traffic from nonsecure MAC addresses is dropped.

E. Port security on the Ethernet 2/1 interface uses the dynamic method for MAC address learning.

Correct Answer: DE

QUESTION 7

Which command activates the port security database for VSAN 1 regardless of conflicts?

A. port-security commit vsan 1

B. no port-security auto-learn vsan 1

C. port-security activate vsan 1 force

D. port-security database vsan 1

Correct Answer: C

QUESTION 8

Which two components do you enable to allow the creation of an f-port-channel-trunk? (Choose two.)

A. f-port-channel-trunk

B. LACP

C. NPIV

D. NPV

E. LLDP

Correct Answer: CD

QUESTION 9

Refer to the exhibit.

```
track 1 interface ethernet 1/2 line-protocol
interface ethernet 1/1
  ipv6 address 2001:DB8:0021:0001:/64
  hsrp version 2
  hsrp 1 ipv6
    ip autoconfig
    track 1 decrement 50
```

Which statement about the result of the configuration is true?

A. The virtual IPv6 address is derived from the physical IPv6 address of the interface.

B. Hello packets are sent by using an address of 224.0.0.102.

C. Hello packets are sent by using an address of FF02::66.

D. The virtual MAC address is derived from the physical IPv6 address of the interface.

Correct Answer: D

QUESTION 10

Which option must be enabled to implement manual MACsec?

A. CTS and dot1x

B. MSDP and dot1x

C. CTS and MSDP

D. CTS and private VLAN

Correct Answer: A

Reference: http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst4500/15-1/XE_330SG/configuration/guide/config/
swmacsec.html

QUESTION 11

Which option must be configured when you implement a vPC?

A. the CCL link, peer link, and vPC member interfaces

B. the peer keepalive link, peer link, and vPC member interfaces

C. the VSL link, peer link, and vPC member interfaces

D. the VSS link, peer link, and vPC member interfaces

Correct Answer: B

QUESTION 12

Which statement about core-edge SAN topology is true?

A. Converged FCoE links connect the core and edge MDS switches.

B. The SAN core connects to the network aggregation layer.

C. Separate links with the same I/O are used for SAN and LAN traffic.

D. Storage devices are accessed via FCoE over the LAN network.

Correct Answer: B

The Aggregation layer of the data center provides connectivity for the Access layer switches in the server farm, an aggregates them into a smaller number of interfaces to be connected into the Core layer. In most data center environments, the Aggregation layer is the transition point between the purely Layer 3 routed Core layer, and the Layer 2switched Access layer. 802.1Q trunks extend the server farm VLANs between Access and Aggregation layers. The Aggregation layer also provides a common connection point to insert services into the data flows between clients and servers, or between tiers of servers in a multi-tier application.

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