



# 300-165<sup>Q&As</sup>

Implementing Cisco Data Center Infrastructure

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### QUESTION 1

Which Cisco MDS feature needs to be enabled for Cisco TrustSec FC Link Encryption to work?

- A. feature Trust-Sec
- B. feature ESP
- C. feature FC-TSLE
- D. feature FC-SP
- E. feature DHCHAP

Correct Answer: D

Reference: [http://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/5\\_0/configuration/guides/sec/fm/sec/fctrstsec.html#wp1294831](http://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/5_0/configuration/guides/sec/fm/sec/fctrstsec.html#wp1294831)

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### QUESTION 2

Which two reasons explain why a server on VLAN 10 is unable to join a multicast stream that originates on VLAN 20? (Choose two.)

- A. IGMP snooping and mrouter are not enabled on VLAN 10.
- B. VLAN 20 has no IGMP snooping querier defined and VLAN 10 has no mrouter.
- C. The mrouter on VLAN 20 does not see the PIM join.
- D. The mrouter must be on VLAN 10 and VLAN 20.

Correct Answer: AC

IGMP snooping is a mechanism to constrain multicast traffic to only the ports that have receivers attached. The mechanism adds efficiency because it enables a Layer 2 switch to selectively send out multicast packets on only the ports that need them. Without IGMP snooping, the switch floods the packets on every port. The switch "listens" for the exchange of IGMP messages by the router and the end hosts. In this way, the switch builds an IGMP snooping table that has a list of all the ports that have requested a particular multicast group. The mrouter port is simply the port from the switch point of view that connects to a multicast router. The presence of at least one mrouter port is absolutely essential for the IGMP snooping operation to work across switches.

All Catalyst platforms have the ability to dynamically learn about the mrouter port. The switches passively listen to either the Protocol Independent Multicast (PIM) hellos or the IGMP query messages that a multicast router sends out periodically. <http://www.cisco.com/c/en/us/support/docs/switches/catalyst-6500-series-switches/68131-cat-multicast-prob.html>

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### QUESTION 3

What must be enabled on the interface of a multicast-enabled device to support the Source Specific Multicast feature?



- A. IGMP version 3
- B. IGMP version 2
- C. IGMP version 1
- D. PIM

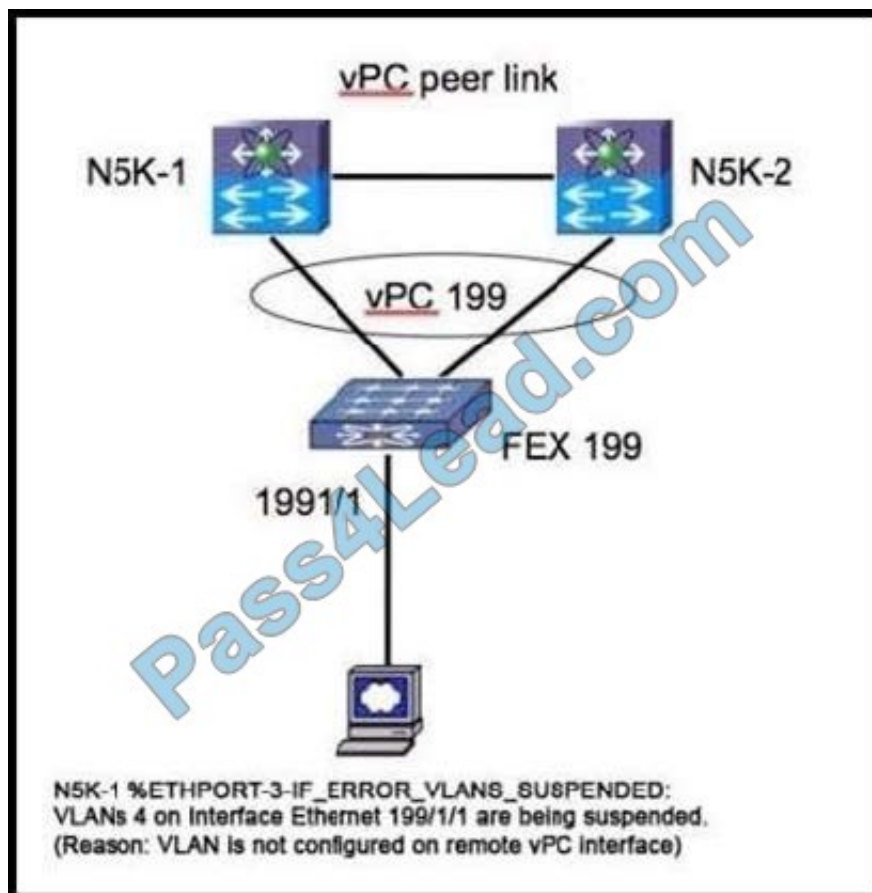
Correct Answer: A

IGMP is the Internet Engineering Task Force (IETF) standards track protocol used for hosts to signal multicast group membership to routers. Version 3 of this protocol supports source filtering, which is required for SSM. To run SSM with IGMPv3, SSM must be supported in the Cisco IOS router, the host where the application is running, and the application itself. IGMP v3lite and URD are two Cisco-developed transition solutions that enable the immediate development and deployment of SSM services, without the need to wait for the availability of full IGMPv3 support in host operating systems and SSM receiver applications. IGMP v3lite is a solution for application developers that allows immediate development of SSM receiver applications switching to IGMPv3 as soon as it becomes available. URD is a solution for content providers and content aggregators that enables them to deploy receiver applications that are not yet SSM enabled (through support for IGMPv3). IGMPv3, IGMP v3lite, and URD interoperate with each other, so that both IGMP v3lite and URD can easily be used as transitional solutions toward full IGMPv3 support in hosts.

[http://www.cisco.com/c/en/us/td/docs/ios/12\\_2/ip/configuration/guide/fipr\\_c/1cfssm.html](http://www.cisco.com/c/en/us/td/docs/ios/12_2/ip/configuration/guide/fipr_c/1cfssm.html)

#### QUESTION 4

Refer to the exhibit. Which corrective action is taken to resolve the problem?





- A. Trunk four VLANs on interface ethernet 199/1/1.
- B. Use the shut and no shut interface ethernet 199/1/1 so that the VLANs come up.
- C. Place interface ethernet 199/1/1 in VLAN 4 in the N5K-2 configuration.
- D. Prune all but four VLANs from vPC 199.
- E. Add VLAN 4 to vPC 199.

Correct Answer: C

Place interface ethernet 199/1/1 in VLAN 4 in the N5K-2 configuration.

#### QUESTION 5

```
switchA(config) # ntp access-group serve-only 30
switchA(config) # ip access-list 10
switchA(config-acl) # 10 permit ip host
100.1.1.1 any
SwitchA(config) # ip access-list 20
switchA(config-acl) # 10 permit ip host
100.4.4.4 any
switchA(config) # ip access-list 30
switchA(config-acl) # 10 permit ip host
100.6.6.6 any
switchA(config) # ip access-list 40
switchA(config-acl) # 10 permit ip host
100.2.2.2 any
```

Refer to the exhibit. The local switchA is allowed to receive NTP control queries from which peer?

- A. 100.4.4.4
- B. 100.2.2.2
- C. 100.1.1.1
- D. 100.6.6.6

Correct Answer: D



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