



351-001^{Q&As}

CCIE Routing and Switching Written

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QUESTION 1

Refer to the exhibit.

```
CHAP: Unable to validate Response. Username <username> not found.
```

Which command can you enter to resolve this error message on a peer router?

- A. username password
- B. ppp chap
- C. aaa authorization exec if-authenticated
- D. aaa authorization network if-authenticated

Correct Answer: A

QUESTION 2

What is the purpose of Route Target Constraint?

- A. to avoid using route reflectors in MPLS VPN networks
- B. to avoid using multiple route distinguishers per VPN in MPLS VPN networks
- C. to be able to implement VPLS with BGP signaling
- D. to avoid sending unnecessary BGP VPNv4 or VPNv6 updates to the PE router
- E. to avoid BGP having to perform route refreshes

Correct Answer: D

Some service providers have a very large number of routing updates being sent from RRs to PEs, using considerable resources. A PE does not need routing updates for VRFs that are not on the PE; therefore, the PE determines that many

routing updates it receives are "unwanted." The PE can filter out the unwanted updates using Route Target Constraint.

Reference:

http://www.cisco.com/c/en/us/td/docs/ios/ios_xe/iproute_bgp/configuration/guide/2_xe/irg_xe_book/irg_rt_filter_xe.html.

QUESTION 3

What is Nagle's algorithm used for?



- A. To increase the latency
- B. To calculate the best path in distance vector routing protocols
- C. To calculate the best path in link state routing protocols
- D. To resolve issues caused by poorly implemented TCP flow control.

Correct Answer: D

Silly window syndrome is a problem in computer networking caused by poorly implemented TCP flow control. A serious problem can arise in the sliding window operation when the sending application program creates data slowly, the receiving application program consumes data slowly, or both. If a server with this problem is unable to process all incoming data, it requests that its clients reduce the amount of data they send at a time (the window setting on a TCP packet). If the server continues to be unable to process all incoming data, the window becomes smaller and smaller, sometimes to the point that the data transmitted is smaller than the packet header, making data transmission extremely inefficient. The name of this problem is due to the window size shrinking to a "silly" value. When there is no synchronization between the sender and receiver regarding capacity of the flow of data or the size of the packet, the window syndrome problem is created. When the silly window syndrome is created by the sender, Nagle's algorithm is used. Nagle's solution requires that the sender sends the first segment even if it is a small one, then that it waits until an ACK is received or a maximum sized segment (MSS) is accumulated.

Reference: http://en.wikipedia.org/wiki/Silly_window_syndrome

QUESTION 4

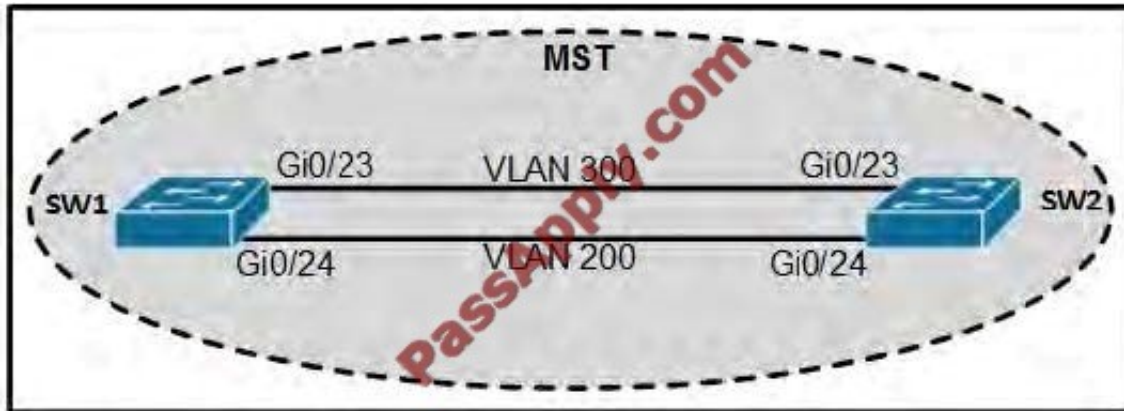
Which two statements about MLD are true? (Choose two.)

- A. MLD is a subprotocol of ICMPv6.
- B. When a single link supports multiple interfaces, only one interface is required to send MLD messages.
- C. MLD is a subprotocol of PIMv6.
- D. When a single link supports multiple interfaces, all supported interfaces are required to send MLD messages.
- E. There are three subtypes of MLD query messages.
- F. The code section in the MLD message is set to 1 by the sender and ignored by receivers.

Correct Answer: AB

QUESTION 5

Refer to the exhibit.



The VLAN-to-MST mapping is shown. (Assume SW1 acts as root for all possible MST instances.) spanning-tree mst configuration name MST revision 2 instance 0 vlan 1-200,301-4094 instance 1 vlan 201-300 ! If this topology is deployed, which action is required for traffic to flow on VLAN 200 and 300?

- A. Map VLAN 300 to instance 0.
- B. Map VLAN 200 to instance 2.
- C. Move instance 0 root to SW2.
- D. Move instance 1 root to SW2.
- E. Map both VLANs to instance 2.

Correct Answer: B

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