



351-001^{Q&As}

CCIE Routing and Switching Written

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QUESTION 1

Refer to the exhibit.

```
vrf definition one
 rd 1:1
  route-target export 100:1
  route-target import 100:1
 !
 address-family ipv4
  route-target import 100:2
 exit-address-family
 !
 address-family ipv6
  route-target export 100:3
  route-target import 100:3
 exit-address-family
```

Which statement is true about a VPNv4 prefix that is present in the routing table of vrf one and is advertised from this router?

- A. The prefix is advertised only with route target 100:1.
- B. The prefix is advertised with route targets 100:1 and 100:2.
- C. The prefix is advertised only with route target 100:3.
- D. The prefix is not advertised.
- E. The prefix is advertised with route targets 100:1, 100:2, and 100:3.

Correct Answer: A

The route target used for prefix advertisements to other routers is defined on the route-target export command, which shows 100:1 in this case for VPNv4 routes.

QUESTION 2

Which option is the default maximum age of the MAC address table?

- A. 300 seconds
- B. 500 seconds
- C. 1200 seconds
- D. 3600 seconds

Correct Answer: A



To configure the maximum aging time for entries in the Layer 2 table, use the mac-address-table aging-time command in global configuration mode.

Syntax Description

seconds

MAC address table entry maximum age. Valid values are 0, and from 5 to 1000000 seconds. Aging time is counted from the last time that the switch detected the MAC address. The default value is 300 seconds.

Reference:

http://www.cisco.com/c/en/us/td/docs/ios/lanswitch/command/reference/lsw_book/lsw_m1.html

html

QUESTION 3

Refer to the exhibit.

```
Internet Protocol Version 4, Src: 10.149.4.110 (10.149.4.110), Dst: 192.168.3.1 (192.168.3.1)
  Version: 4
  Header length: 20 bytes
  Differentiated Services Field: 0x00 (DSCP 0x00: Default; ECN: 0x00: Not-ECT (Not ECN-Capable Transport))
  Total Length: 60
  Identification: 0x64ac (25772)
  Flags: 0x00
  Fragment offset: 0
  Time to live: 1
  Protocol: ICMP (1)
  Header checksum: 0x8269 [correct]
  Source: 10.149.4.110 (10.149.4.110)
  Destination: 192.168.3.1 (192.168.3.1)
Internet Control Message Protocol
  Type: 8 (Echo (ping) request)
  Code: 0
  Checksum: 0x4d3d [correct]
  Identifier (BE): 1 (0x0001)
  Identifier (LE): 256 (0x0100)
  Sequence number (BE): 30 (0x001e)
  Sequence number (LE): 7680 (0x1e00)
  Data (32 bytes)
0000  61 62 63 64 65 66 67 68 69 6a 6b 6c 6d 6e 6f 70  abcdefghijklmnop
0010  71 72 73 74 75 76 77 61 62 63 64 65 66 67 68 69  qrstuvwabcdefghi
      Data: 6162636465666768696a6b6c6d6e6f707172737475767761...
      [Length: 32]
```



ICMP Echo requests from host A are not reaching the intended destination on host B. What is the problem?

- A. The ICMP payload is malformed.
- B. The ICMP Identifier (BE) is invalid.
- C. The negotiation of the connection failed.
- D. The packet is dropped at the next hop.
- E. The link is congested.



Correct Answer: D

Here we see that the Time to Live (TTL) value of the packet is one, so it will be forwarded to the next hop router, but then dropped because the TTL value will be 0 at the next hop.

QUESTION 4

Which option describes how a VTPv3 device responds when it detects a VTPv2 device on a trunk port?

- A. It sends VTPv3 packets only.
- B. It sends VTPv2 packets only.
- C. It sends VTPv3 and VTPv2 packets.
- D. It sends a special packet that contains VTPv3 and VTPv2 packet information.

Correct Answer: C

When a VTP version 3 device on a trunk port receives messages from a VTP version 2 device, the VTP version 3 device sends a scaled-down version of the VLAN database on that particular trunk in a VTP version 2 format. A VTP version 3 device does not send out VTP version 2-formatted packets on a trunk port unless it first receives VTP version 2 packets on that trunk. If the VTP version 3 device does not receive VTP version 2 packets for an interval of time on the trunk port, the VTP version 3 device stops transmitting VTP version 2 packets on that trunk port. Even when a VTP version 3 device detects a VTP version 2 device on a trunk port, the VTP version 3 device continues to send VTP version 3 packets in addition to VTP version 2 packets, to allow two kinds of neighbors to coexist on the trunk. VTP version 3 sends VTP version 3 and VTP version 2 updates on VTP version 2-detected trunks.

Reference: <http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst6500/ios/12-2SX/configuration/guide/book/vtp.html>

QUESTION 5

Which authentication types does OSPF support?

- A. null and clear text
- B. MD5 only
- C. MD5 and clear text
- D. null, clear text, and MD5
- E. clear text only

Correct Answer: D



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