



200-105^{Q&As}

Interconnecting Cisco Networking Devices Part 2 (ICND2)

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QUESTION 1

What is the maximum cost for hello and dead packets in OSPF? (Choose two)

- A. hello 10
- B. hello 60
- C. dead 40
- D. dead 120

Correct Answer: AC

QUESTION 2

Which four options are the HSRP states for a router? (Choose four.)

- A. standby
- B. speak
- C. listen
- D. learn
- E. primary
- F. secondary

Correct Answer: ABCD

Reference: <http://www.cisco.com/c/en/us/support/docs/ip/hot-standby-router-protocol-hsrp/10583-62.html#anc16>

QUESTION 3

Which type of EIGRP route entry describes a feasible successor?

- A. a backup route, stored in the routing table
- B. a primary route, stored in the routing table
- C. a backup route, stored in the topology table
- D. a primary route, stored in the topology table

Correct Answer: C

Feasible Successors

A destination entry is moved from the topology table to the routing table when there is a feasible successor. All minimum



cost paths to the destination form a set. From this set, the neighbors that have an advertised metric less than the current

routing table metric are considered feasible successors.

Feasible successors are viewed by a router as neighbors that are downstream with respect to the destination.

These neighbors and the associated metrics are placed in the forwarding table.

When a neighbor changes the metric it has been advertising or a topology change occurs in the network, the set of feasible successors may have to be re-evaluated. However, this is not categorized as a route recomputation. Feasible

successor is a route whose Advertised Distance (AD) is less than the Feasible Distance (FD) of the current best path. A feasible successor is a backup route, which is not stored in the routing table but, stored in the topology table.

Reference:

http://www.cisco.com/en/US/tech/tk365/technologies_tech_note09186a0080093f07.shtml

QUESTION 4

Which port state is introduced by Rapid-PVST?

- A. learning
- B. listening
- C. discarding
- D. forwarding

Correct Answer: C

Spanning Tree from PVST+ to Rapid-PVST Migration Configuration Example PVST+ is based on IEEE802.1D Spanning Tree Protocol (STP). But PVST+ has only 3 port states (discarding, learning and forwarding) while STP has 5 port states (blocking, listening, learning, forwarding and disabled). So discarding is a new port state in PVST+.

STP (802.1D) Port State	RSTP (802.1w) Port State	Is Port Included in Active Topology?	Is Port Learning MAC Addresses?
Disabled	Discarding	No	No
Blocking	Discarding	No	No
Listening	Discarding	Yes	No
Learning	Learning	Yes	Yes
Forwarding	Forwarding	Yes	Yes

Background Information 802.1D Spanning Tree Protocol (STP) has a drawback of slow convergence. Cisco Catalyst



switches support three types of STPs, which are PVST+, rapid-PVST+ and MST. PVST+ is based on IEEE802.1D standard and includes Cisco proprietary extensions such as BackboneFast, UplinkFast, and PortFast. Rapid-PVST+ is based on IEEE 802.1w standard and has a faster convergence than 802.1D. RSTP (IEEE 802.1w) natively includes most of the Cisco proprietary

enhancements to the 802.1D Spanning Tree, such as BackboneFast and UplinkFast.

Rapid-PVST+ has these unique features:

Uses Bridge Protocol Data Unit (BPDU) version 2 which is backward compatible with the 802.1D STP, which uses BPDU version 0.

All the switches generate BPDUs and send out on all the ports every 2 seconds, whereas in 802.1D STP only the root bridge sends the configuration BPDUs.

Port Roles--Root port, designated port, alternate port and backup port.

Port States--Discarding, Learning, and Forwarding.

Port Types--Edge Port (PortFast), Point-to-Point and Shared port.

Rapid-PVST uses RSTP to provide faster convergence. When any RSTP port receives legacy 802.1D BPDU, it falls back to legacy STP and the inherent fast convergence benefits of 802.1w are lost when it interacts with legacy bridges.

Reference:

http://www.cisco.com/en/US/products/hw/switches/ps708/products_configuration_example09186a00807b0670.shtml

http://www.cisco.com/en/US/tech/tk389/tk621/technologies_white_paper09186a0080094cfa.shtml

QUESTION 5

Which two statements about the BGP network command are true? (Choose two.)

- A. It must be configured to enable BGP between neighbors
- B. It references a connected interface
- C. It must match the subnet and mask of a route in the routing table
- D. It references the routing table
- E. It can specify a different subnet mask than the mask configured on the interface

Correct Answer: CD

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