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# 200-301<sup>Q&As</sup>

Implementing and Administering Cisco Solutions (CCNA) (Include Newest Simulation Labs)

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**QUESTION 1**

What describes the functionality of southbound APIs?

A. They enable communication between the controller and the network device.

B. They communicate with the management plane.

C. They use HTTP messages to communicate.

D. They convey information from the controller to the SDN applications.

Correct Answer: A

**QUESTION 2**

Which DSCP per-hop forwarding behavior is divided into subclasses based on drop probability?

A. expedited

B. default

C. assured

D. class-selector

Correct Answer: C

The DSCP per-hop forwarding behavior that is divided into subclasses based on drop probability is the Assured Forwarding (AF) behavior. The AF behavior is divided into 4 subclasses (AF1, AF2, AF3, and AF4), each with 3 drop

probabilities. Each forwarding class provides 3 drop precedences, which allow different levels of drop probability to be assigned to packets with different DSCP values.

Therefore, the AF behavior is used to provide a differentiated quality of service for network traffic by dividing it into subclasses based on drop probability.

**QUESTION 3**

Refer to the exhibit.
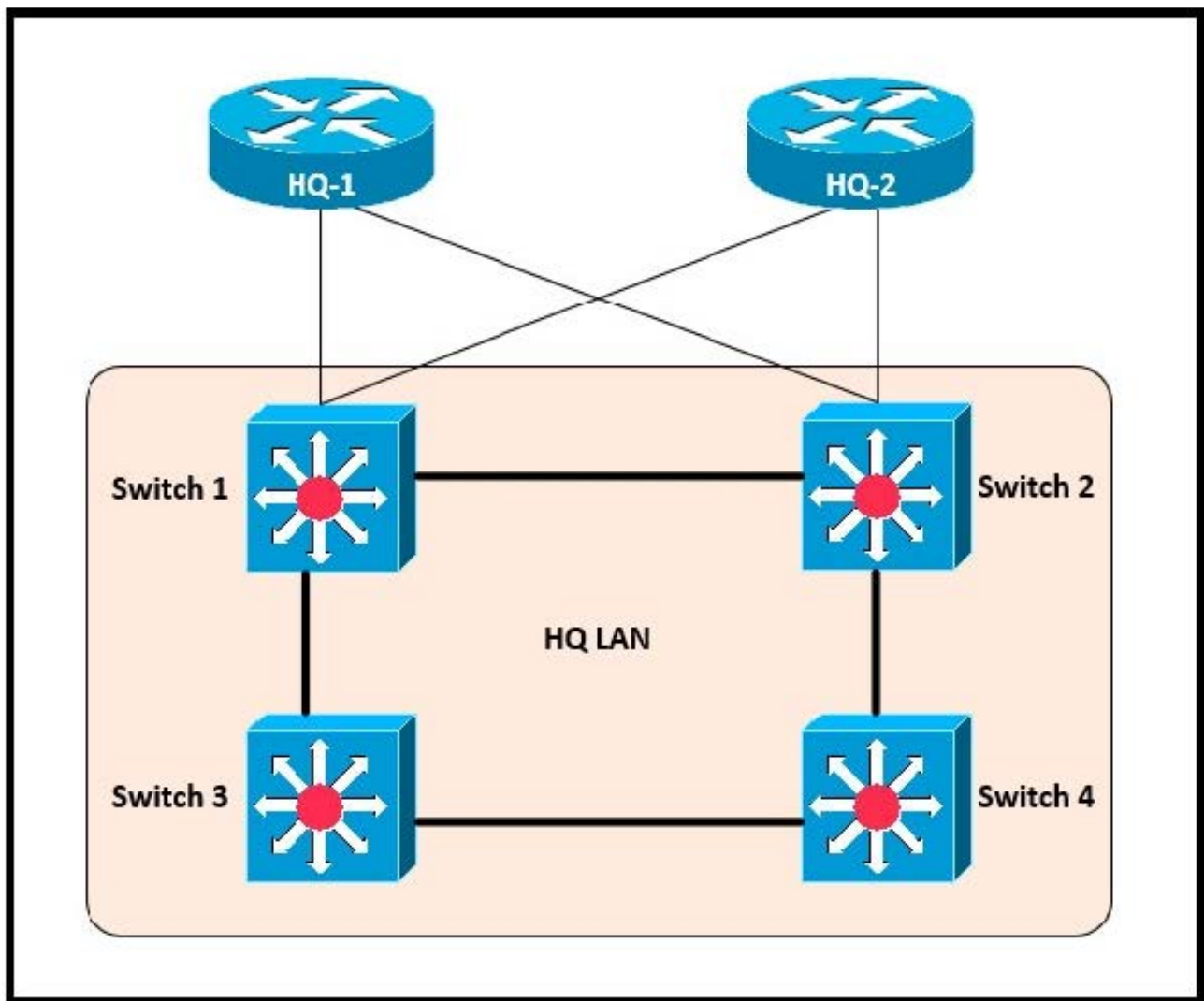
After the election process, what is the root bridge in the HQ LAN?

1.

Switch 1: 0C:E0:38:81:32:58

2.

Switch 2: 0C:0E:15:22:1A:61

3.

Switch 3: 0C:0E:15:1D:3C:9A

4.

Switch 4: 0C:E0:19:A1:4D:16

A. Switch 1

B. Switch 2

C. Switch 3

D. Switch 4

Correct Answer: C

The root bridge is determined by the lowest bridge ID, which consists of the priority value and the MAC address. Because the priority values of all of the switches are not avalable, the MAC address is used to determine the root bridge. Because S3 has the lowest MAC address, S3 becomes the root bridge.

**QUESTION 4**

DRAG DROP

Drag the IPv6 DNS record types from the left onto the description on the right.

Select and Place:

| AAAA | | aliases one name to another |
| CNAME | | associates the domain serial number with its owner |
| NS | | correlates a domain with its authoritative name servers |
| PTR | | correlates a host name with an IP address |
| SOA | | supports reverse name lookups |

Correct Answer:

https://ns1.com/resources/dns-types-records-servers-andqueries#:~:text=Address%20Mapping%20record%20(A%20Record,a%20hostname%20to%20another%20hostname.

**QUESTION 5**

Refer to the exhibit. If R1 receives a packet destined to 172.16.1.1, to which IP address does it send the packet?

A. 192.168.14.4

B. 192.168.12.2

C. 192.168.13.3

D. 192.168.15.5

Correct Answer: A

Route to 172.16.1.1 is not in the routing table so traffic will be sent to the default route (Gateway of last resort) 192.168.14.4

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