200-301 Q&As

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

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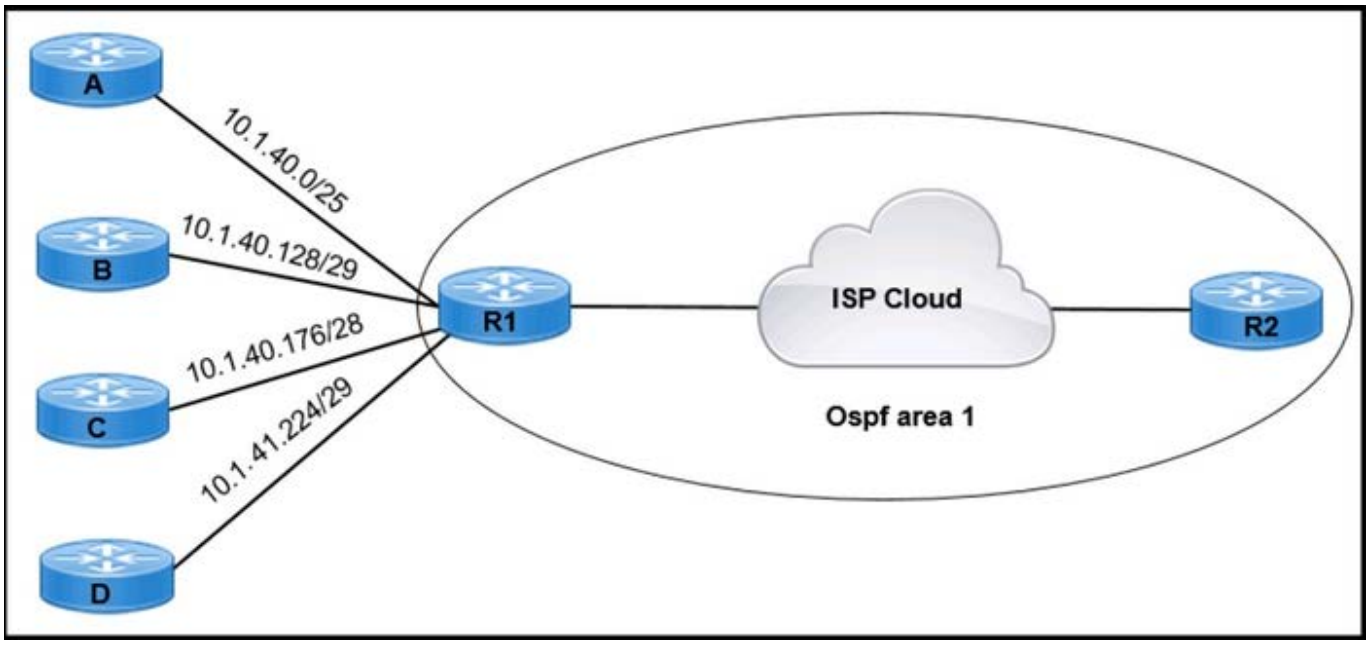
QUESTION 1

Refer to the exhibit.



Router R1 receives static routing updates from routers A, B, C, and D. The network engineer wants R1 to advertise static routes in OSPF area 1. Which summary address must be advertised in OSPF?

A. 10.1.41.0/25

B. 10.1.40.0/24

C. 10.1.40.0/25

D. 10.1.40.0/23

Correct Answer: D

QUESTION 2

Refer to me exhibit. Which action is taken by the router when a packet is sourced from 10.10.10.2 and destined for 10.10.10.16?

```
Router1#show ip route
Gateway of last resort is not set
   209.165.200.0/27 is subnetted, 1 subnets
B     209.165.200.224 [20/0] via 10.10.12.2, 00:09:57
   10.0.0.0/8 is variably subnetted, 4 subnets, 3 masks
C     10.10.10.0/28 is directly connected, GigabitEthernet0/0
C     10.10.11.0/30 is directly connected, FastEthernet2/0
O     10.10.13.0/24 [110/2] via 10.10.10.1, 00:08:34, GigabitEthernet0/0
C     10.10.12.0/30 is directly connected, GigabitEthernet0/1
```

A. It uses a route that is similar to the destination address

B. It discards the packets.

C. It floods packets to all learned next hops.

D. It Queues the packets waiting for the route to be learned.

Correct Answer: B

Referring to routing table, 10.10.10.0/28 supports network from 10.10.10.0-10.10.10.15.

Gateway of last resort is not set

So traffic destined to 10.10.10.16 will be discarded.

QUESTION 3

What is the purpose of classifying network traffic in QoS?

A. configures traffic-matching rules on network devices

B. services traffic according to its class

C. identifies the type of traffic that will receive a particular treatment

D. writes the class identifier of a packet to a dedicated field in the packet header

Correct Answer: C

QUESTION 4

Refer to the exhibit.

```
%AMDP2_FE-5-COLL: AMDP2/FE 0/0/[DEC], Excessive collisions, TDR=[DEC], TRC=[DEC]
%DEC21140-5-COLL: [chars] excessive collisions
%ILACC-5-COLL: Unit [DEC], excessive collisions. TDR=[DEC]
%LANCE-5-COLL: Unit [DEC], excessive collisions. TDR=[DEC]
%PQUICC-5-COLL: Unit [DEC], excessive collisions. Retry limit [DEC] exceeded
%PQUICC_ETHER-5-COLL: Unit [DEC], excessive collisions. Retry limit [DEC] exceeded
```

What is occurring on this switch?

A. Frames are dropped after 16 failed transmission attempts

B. The internal transmit buffer is overloaded

C. A high number of frames smaller than 64 bytes are received

D. An excessive number of frames greater than 1518 bytes are received

Correct Answer: A

The retransmission algorithm helps to ensure that the packets do not retransmit at the same time. However, if the two devices retry at nearly the same time, packets can collide again; the process repeats until either the packets finally pass onto the network without collisions, or 16 consecutive collisions occur and the packets are discarded.

QUESTION 5

Guidelines

This is a lab item in which tasks will be performed on virtual devices:

1.

Refer to the Tasks tab to view the tasks for this lab item.

2.

Refer to the Topology tab to access the device console(s) and perform the tasks.

3.

Console access is available for all required devices by clicking the device icon or using the tab(s) above the console window.

4.

All necessary preconfigurations have been applied.

5.

Do not change the enable password or hostname for any device.

6.

Save your configurations to NVRAM before moving to the next item.

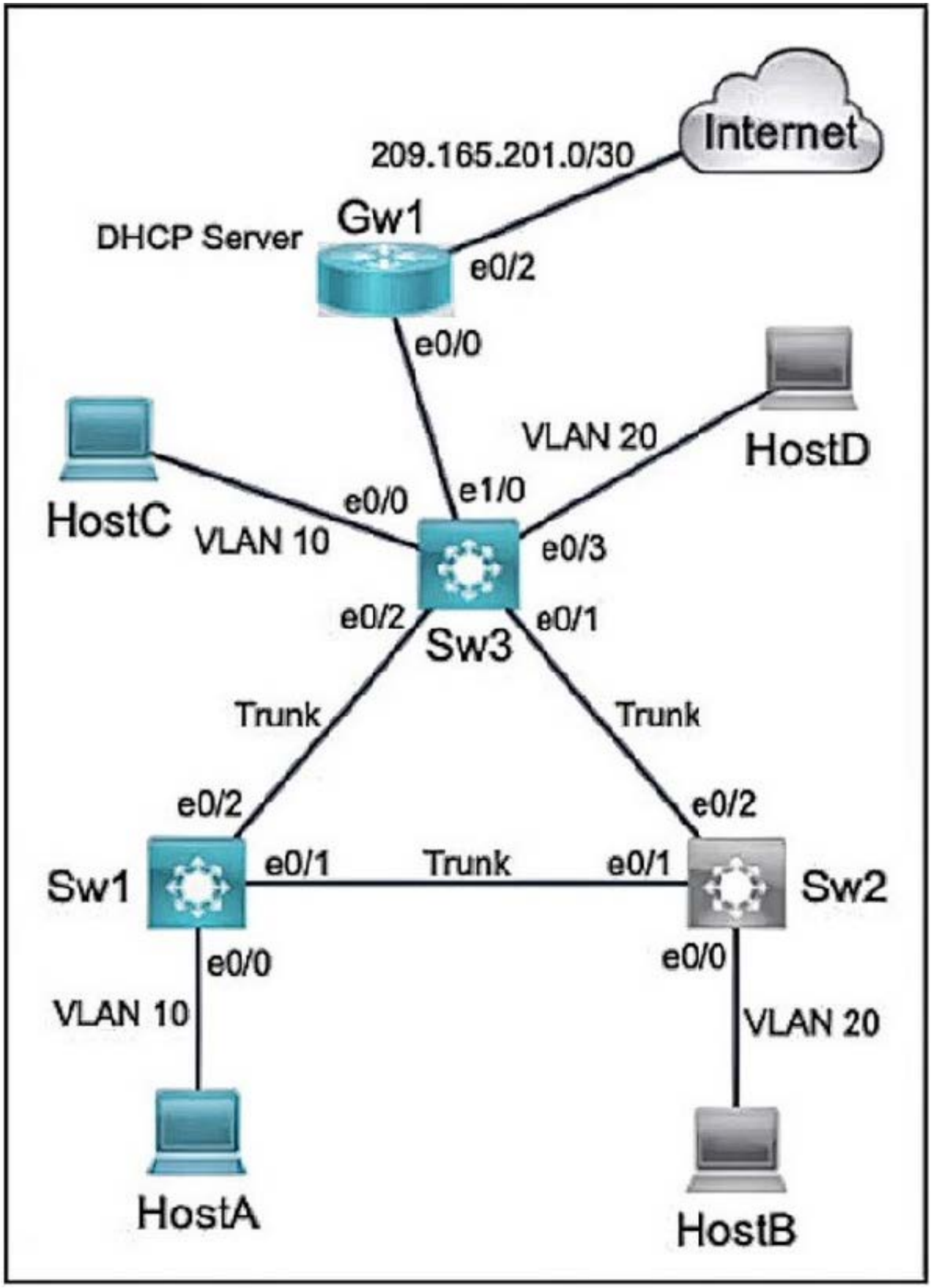
7.

Click Next at the bottom of the screen to submit this lab and move to the next question.

8.

When Next is clicked the lab closes and cannot be reopened.

Topology


Internet
209.165.201.0/30
Gw1
DHCP Server
e0/2
e0/0
HostD
VLAN 20
HostC
e0/0
e1/0
VLAN 10
e0/3
e0/2
Sw3
e0/1
Trunk
Trunk
e0/2
e0/2
Sw1
e0/1
Trunk
e0/1
Sw2
e0/0
e0/0
VLAN 10
VLAN 20
HostA
HostB

Tasks

Refer to the topology. All physical cabling is in place. Configure local users accounts, modify the Named ACL (NACL), and configure DHCP Snooping. The current contents of the NACL must remain intact.

Task 1

Configure a local account on Gw1 with telnet access only on virtual ports 0-4. Use the following information:

1.

Username: wheel

2.

Password: lock3path

3.

Algorithm type: Scrypt

4.

Privilege level: Exec mode

Task 2

Configure and apply a NACL on Gw1 to control network traffic from VLAN 10:

1.

Name: CORP_ACL

2.

Allow BOOTP and HTTPS

3.

Restrict all other traffic and log the ingress interface, source MAC address, the packet\\'s source and destination IP addresses, and ports

Task 3

Configure Sw1:

1.

Enable DNCP Snooping for VLAN 10

2.

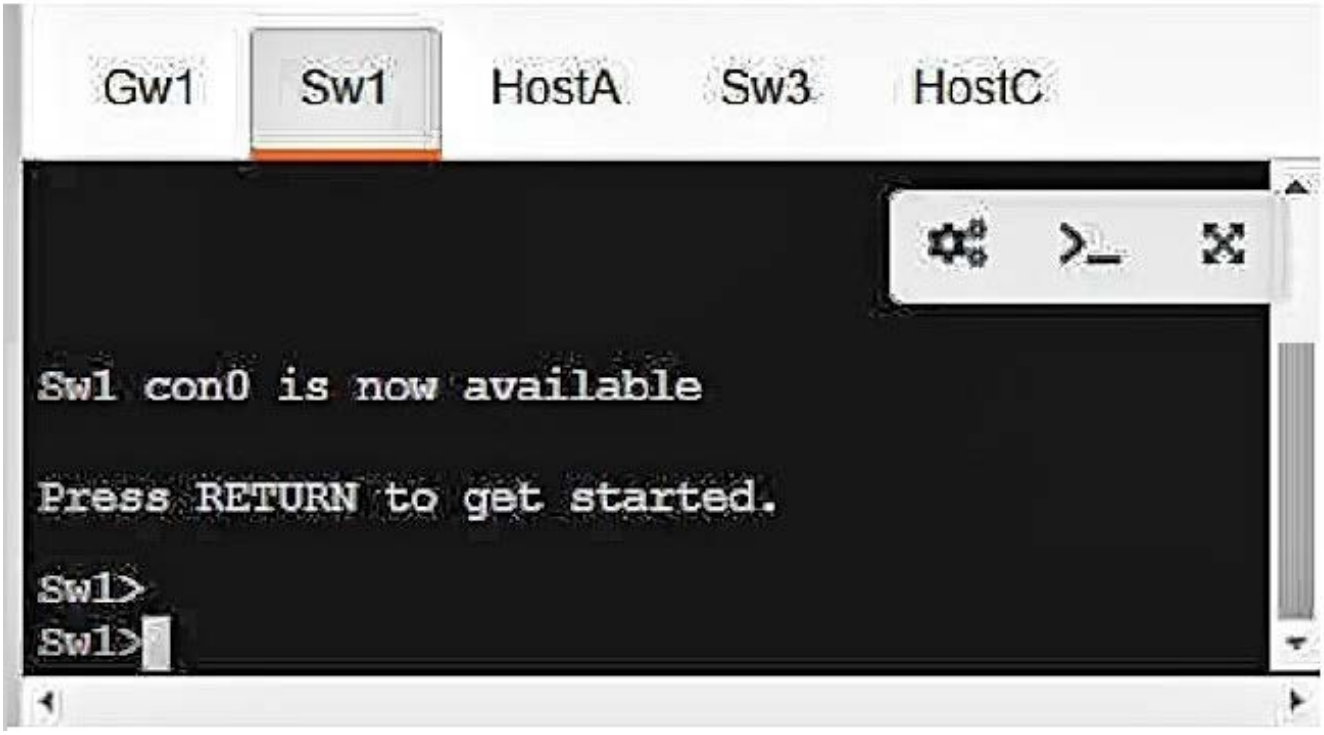
Disable DHCP Option-82 data insertion

3.

Enable DHCP Snooping MAC address verification

4.

Enable trusted interfaces



A. Check the below

B. Place Holder

C. Place Holder

D. Place Holder

Correct Answer: A

GW1:

R1(config)#username wheel privilege 15 algorithm-type scrypt secret lock3path

line vty 0 4

login local

transport input telnet

task2 on GW1: bootp = udp; https = tcp

access-list CORP_ACL permit udp any any eq bootp (67,68)

access-list CORP_ACL permit tcp any any eq https (443)

access-list CORP_ACL deny ip any any log

on the router Gw1 find the gateway-subinterface for Vlan10 (router ont the stick) and apply ACL

Gw1(config-subif)#ip access-group CORP_ACL in

task3 on Sw1:

Sw1(config)#ip dhcp snooping vlan 10

Sw1(config)#ip dhcp snooping verify mac-address

Sw1(config)#no ip dhcp snooping information option

Sw1(config)interface e0/2

Sw1(config-if)#ip dhcp snooping trust