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Interconnecting Cisco Networking Devices Part 2 (ICND2)

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QUESTION 1

The internetwork infrastructure of company XYZ consists of a single OSPF area as shown in the graphic. There is concern that a lack of router resources is impeding internetwork performance. As part of examining the router resources, the OSPF DRs need to be known. All the router OSPF priorities are at the default and the router IDs are shown with each router.
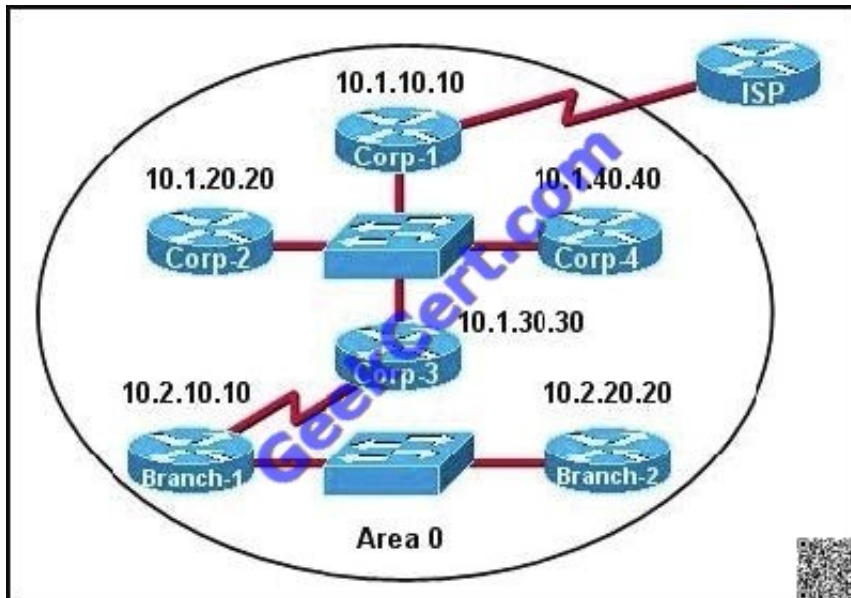
Which routers are likely to have been elected as DR? (Choose two.)

A. Corp-1

B. Corp-2

C. Corp-3

D. Corp-4

E. Branch-1

F. Branch-2

Correct Answer: DF

There are 2 segments on the topology above which are separated by Corp-3 router. Each segment will have a DR so we have 2 DRs.

To select which router will become DR they will compare their router-IDs. The router with highest (best) router-ID will become DR. The router-ID is chosen in the order below:

The highest IP address assigned to a loopback (logical) interface.

If a loopback interface is not defined, the highest IP address of all active router\'s physical interfaces will be chosen.
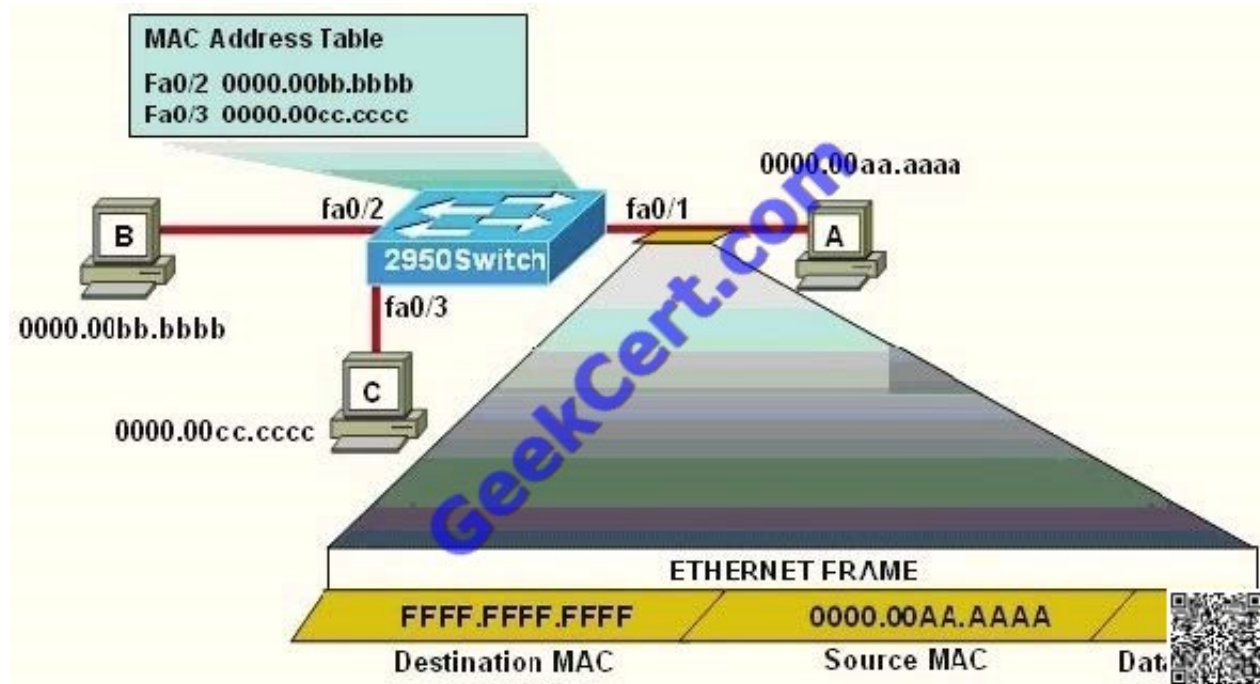
In this question, the IP addresses of loopback interfaces are not mentioned so we will consider IP addresses of all active router\'s physical interfaces. Router Corp- 4 (10.1.40.40) and Branch-2 (10.2.20.20) have highest "active" IP addresses

so they will become DRs.

QUESTION 2

Refer to the exhibit.

The following commands are executed on interface fa0/1 of 2950Switch.

2950Switch(config-if)# switchport port-security 2950Switch(config-if)# switchport port-security mac-address sticky
2950Switch(config-if)# switchport port-security maximum 1 The Ethernet frame that is shown arrives on interface fa0/1.
What two functions will occur when this frame is received by 2950Switch? (Choose two.)

A. The MAC address table will now have an additional entry of fa0/1 FFFF.FFFF.FFFF.

B. Only host A will be allowed to transmit frames on fa0/1.

C. This frame will be discarded when it is received by 2950Switch.

D. All frames arriving on 2950Switch with a destination of 0000.00aa.aaaa will be forwarded out fa0/1.

E. Hosts B and C may forward frames out fa0/1 but frames arriving from other switches will not be forwarded out fa0/1.

F. Only frames from source 0000.00bb.bbbb, the first learned MAC address of 2950Switch, will be forwarded out fa0/1.

Correct Answer: BD

QUESTION 3

Which statement describes an EIGRP feasible successor route?

A. A primary route, added to the routing table

B. A backup route, added to the routing table

C. A primary route, added to the topology table

D. A backup route, added to the topology table

Correct Answer: D

QUESTION 4

Instructions

To configure the router (**Gotha**) click on the console host icon that is connected to a router by a serial console cable (shown in the diagram as a dashed black line).

You can click on the buttons below to view the different windows.

Each of the windows can be minimized by clicking on the [-]. You can also reposition a window by dragging it by the title bar.

The "Tab" key and most commands that use the "Control" or "Escape" keys are not supported and are not necessary to complete this simulation. The **help** command does not display all commands of the help system.

Scenario

Central Florida Widgets recently installed a new router in their Gotha office. Complete the network installation by performing the initial router configurations and configuring RIPv2 routing using the router command line interface (CLI) on the Gotha router.

Configure the router per the following requirements:

Name of the router is **Gotha**
Enable-secret password is **mi222ke**
The password to access user EXEC mode using the console is **G8tors1**
The password to allow telnet access to the router is **dun63lap**
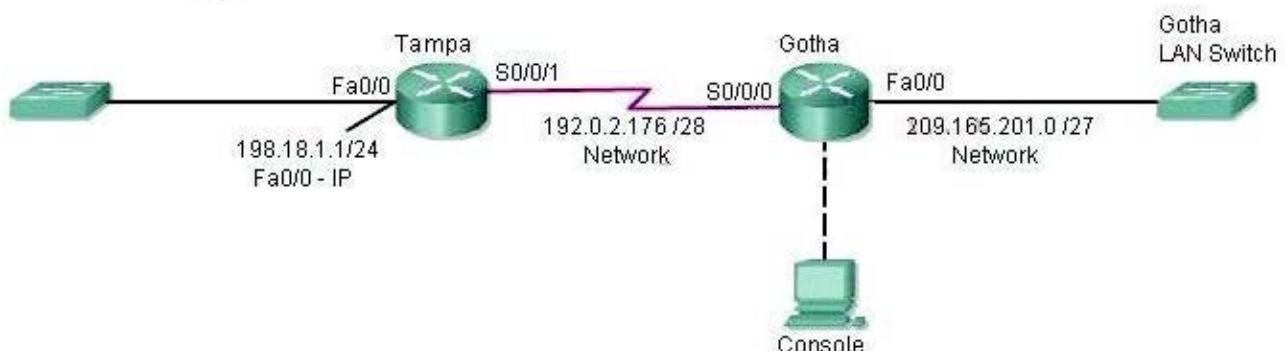IPv4 addresses must be configured as follows:
    Ethernet network **209.165.201.0 /27** - router has **fourth** assignable host address in subnet.
    Serial network is **192.0.2.176 /28** - router has **last** assignable host address in the subnet.
Interfaces should be enabled.
Routing protocol is **RIPv2**.

Tampa
Fa0/0   S0/0/1
198.18.1.1/24
Fa0/0 - IP

192.0.2.176 /28
Network

Gotha
S0/0/0   Fa0/0

209.165.201.0 /27
Network

Gotha
LAN Switch

Console

Attention:

In practical examinations, please note the following, the actual information will prevail.

1. Name of the router is xxx

2. Enable secret password is xxx

3. Password In access user EXEC mode using the console is xxx

4. The password to allow telnet access to the router is xxx

5. IP information

Correct Answer: Router>enable

Explanation

Explanation/Reference:

Router>enable

Router#config terminal

Router(config)#hostname Gotha

Gotha(config)#enable secret mi222ke

Gotha(config)#line console 0

Gotha(config-line)#password G8tors1

Gotha(config-line)#exit

Gotha(config)#line vty 0 4

Gotha(config-line)#password dun63lap

Gotha(config-line)#login

Gotha(config-line)#exit

Gotha(config)#interface fa0/0

Gotha(config-if)#no shutdown

Gotha(config-if)#ip address 209.165.201.4 255.255.255.224

Gotha(config)#interface s0/0/0

Gotha(config-if)#ip address 192.0.2.190 255.255.255.240

Gotha(config-if)#no shutdown

Gotha(config-if)#exit

Gotha(config)#router rip

Gotha(config-router)#version 2

Gotha(config-router)#network 209.165.201.0

Gotha(config-router)#network 192.0.2.176

Gotha(config-router)#end

Gotha#copy running-config startup-config

QUESTION 5

What information does a router running a link-state protocol use to build and maintain its topological database? (Choose two.)

A. hello packets

B. SAP messages sent by other routers

C. LSAs from other routers

D. beacons received on point-to-point links

E. routing tables received from other link-state routers

F. TTL packets from designated routers

Correct Answer: AC

Link State Routing Protocols

http://www.ciscopress.com/articles/article.asp?p=24090andseqNum=4

Link state protocols, sometimes called shortest path first or distributed database protocols, are built around a well-known algorithm from graph theory, E. W.

Dijkstra\\'a shortest path algorithm.

Examples of link state routing protocols are:

Open Shortest Path First (OSPF) for IP

The ISO\\'s Intermediate System to Intermediate System (IS-IS) for CLNS and IP DEC\\'s DNA Phase V Novell\\'s NetWare Link Services Protocol (NLSP)

Although link state protocols are rightly considered more complex than distance vector protocols, the basic functionality is not complex at all:

1.

Each router establishes a relationship--an adjacency--with each of its neighbors.

2.

Each router sends link state advertisements (LSAs), some

3.

Each router stores a copy of all the LSAs it has seen in a database. If all works well, the databases in all routers should be identical.

4.

The completed topological database, also called the link state database, describes a graph of the internetwork. Using the Dijkstra algorithm, each router calculates the shortest path to each network and enters this information into the route table.

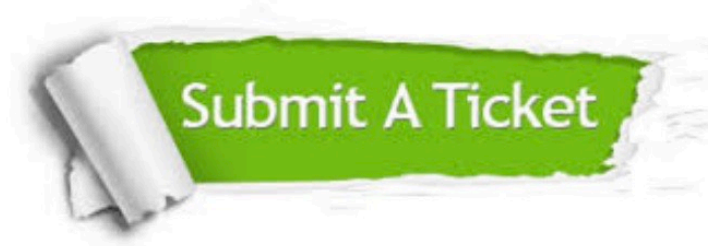To Read the Whole Q&As, please purchase the Complete Version from Our website.

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Please provide as much detail as possible so we can best assist you.
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