

➤ **Vendor: Cisco**

➤ **Exam Code: 200-301**

➤ **Exam Name: CCNA - Cisco Certified Network Associate**

➤ **New Updated Questions from [Braindump2go](https://www.braindump2go.com) (Updated in [June/2022](#))**

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QUESTION 668

Refer to the exhibit. Which change to the configuration on Switch2 allows the two switches to establish an EtherChannel?

```
Switch1#show etherchannel summary
Flags:  D - down          P - in port-channel
        I - stand-alone  s - suspended
        H - Hot-standby (LACP only)
        R - Layer3       S - Layer2
        U - in use       f - failed to allocate aggregator
        u - unsuitable for bundling
        w - waiting to be aggregated
        d - default port

Number of channel-groups in use: 1
Number of aggregators:           1
Group  Port-channel  Protocol    Ports
-----+-----+-----+-----
1      Po1(SD)          LACP        Fa0/2(I) Fa0/1(I)

Switch1#show run
Building configuration...
interface Port-channel1
!
interface FastEthernet0/1
channel-group 1 mode passive
!
interface FastEthernet0/2
channel-group 1 mode passive

Switch2#show run
Building configuration...
interface Port-channel1
!
interface FastEthernet0/1
channel-group 1 mode passive
!
interface FastEthernet0/2
channel-group 1 mode passive
```

- A. Change the protocol to EtherChannel mode on.
- B. Change the LACP mode to active
- C. Change the LACP mode to desirable
- D. Change the protocol to PAqP and use auto mode

Answer: B

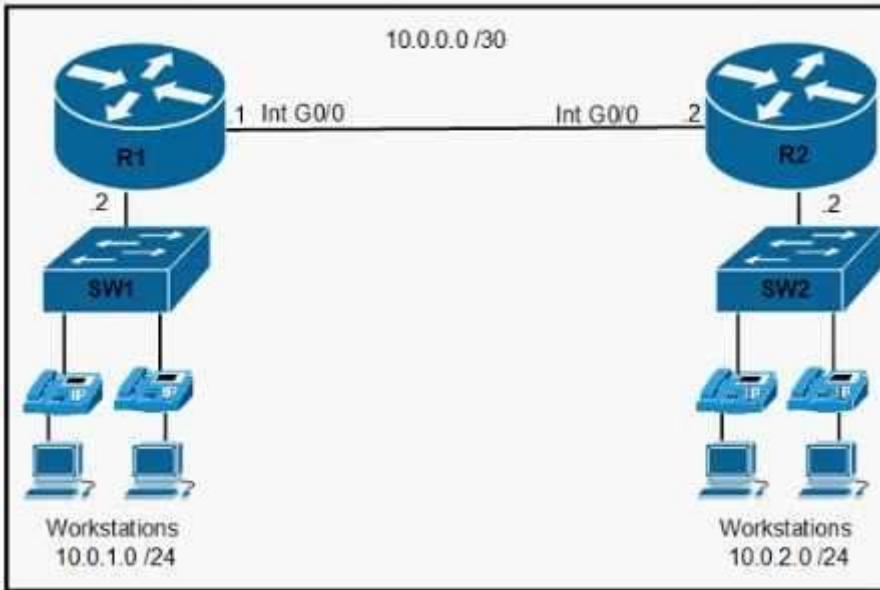
QUESTION 669

Refer to the exhibit. An engineer is asked to configure router R1 so that it forms an OSPF single-area neighbor relationship with R2.

Which command sequence must be implemented to configure the router?

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- router ospf 10
network 10.0.0.0 0.0.0.3 area 0
network 10.0.2.0 0.0.0.255 area 0
- router ospf 10
network 10.0.0.0 0.0.0.3 area 0
network 10.0.1.0 0.0.0.255 area 0
- router ospf 100
network 10.0.0.0 0.0.0.3 area 0
network 10.0.2.0 255.255.255.0 area 0
- router ospf 100
network 10.0.0.0 0.0.0.252 area 0
network 10.0.1.0 0.0.0.255 area 0

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: B

QUESTION 670

What is a function performed by a web server?

- A. provide an application that is transmitted over HTTP
- B. send and retrieve email from client devices
- C. authenticate and authorize a user's identity
- D. securely store files for FTP access

Answer: A

QUESTION 671

What is the collapsed layer in collapsed core architectures?

- A. core and WAN
- B. access and WAN
- C. distribution and access
- D. core and distribution

Answer: D

QUESTION 672

Which set of 2.4 GHz nonoverlapping wireless channels is standard in the United States?

- A. channels 2, 7, 9, and 11
- B. channels 1, 6, 11, and 14
- C. channels 2, 7, and 11
- D. channels 1, 6, and 11

Answer: D

QUESTION 673

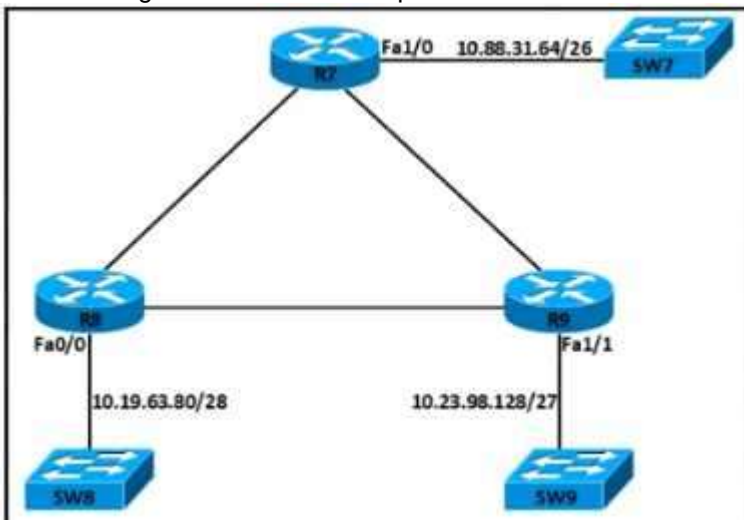
An engineer is installing a new wireless printer with a static IP address on the Wi-Fi network. Which feature must be enabled and configured to prevent connection issues with the printer?

- A. client exclusion
- B. passive client
- C. DHCP address assignment
- D. static IP tunneling

Answer: C

QUESTION 674

Refer to the exhibit. Each router must be configured with the last usable IP address in the subnet. Which configuration fulfills this requirement?



R7#
interface FastEthernet1/0
ip address 10.88.31.126 255.255.255.240

R8#
interface FastEthernet0/0
ip address 10.19.63.94 255.255.255.192

R9#
interface FastEthernet1/1
ip address 10.23.98.158 255.255.255.248

R7#
interface FastEthernet1/0
ip address 10.88.31.127 255.255.255.240

R8#
interface FastEthernet0/0
ip address 10.19.63.95 255.255.255.192

R9#
interface FastEthernet1/1
ip address 10.23.98.159 255.255.255.248

R7#
interface FastEthernet1/0
ip address 10.88.31.126 255.255.255.192

R8#
interface FastEthernet0/0
ip address 10.19.63.94 255.255.255.240

R9#
interface FastEthernet1/1
ip address 10.23.98.158 255.255.255.224

R7#
interface FastEthernet1/0
ip address 10.88.31.127 255.255.255.192

R8#
interface FastEthernet0/0
ip address 10.19.63.95 255.255.255.240

R9#
interface FastEthernet1/1
ip address 10.23.98.159 255.255.255.224

- A. Option A
- B. Option B
- C. Option C
- D. Option D

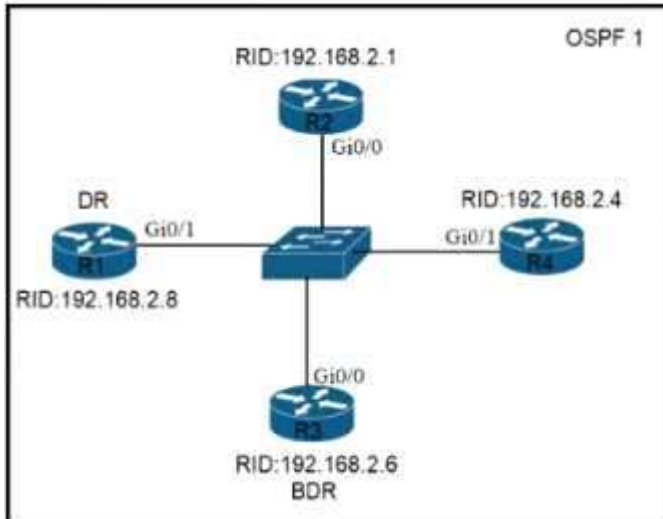
Answer: C

QUESTION 675

Refer to the exhibit. All routers in the network are configured R2 must be the DR.

After the engineer connected the devices, R1 was elected as the DR.

Which command sequence must be configure on R2 to Be elected as the DR in the network?



- ☐ R2(config)#interface gi0/0
R2(config-if)#ip ospf priority 1
- ☐ R2(config)#interface gi0/0
R2(config-if)#ip ospf priority 100
- ☐ R2(config)#router ospf 1
R2(config-router)#router-id 10.100.100.100
- ☐ R2(config)#router ospf 1
R2(config-router)#router-id 192.168.2.7

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: B

QUESTION 676

An engineer is configuring data and voice services to pass through the same port. The designated switch interface fastethernet0/1 must transmit packets using the same priority for data when they are received from the access port of the IP phone.

Which configuration must be used?

- A. `interface fastethernet0/1`
`switchport priority extend cos 7`
- B. `interface fastethernet0/1`
`switchport voice vlan untagged`
- C. `interface fastethernet0/1`
`switchport voice vlan dot1p`
- D. `interface fastethernet0/1`
`switchport priority extend trust`

Answer: A

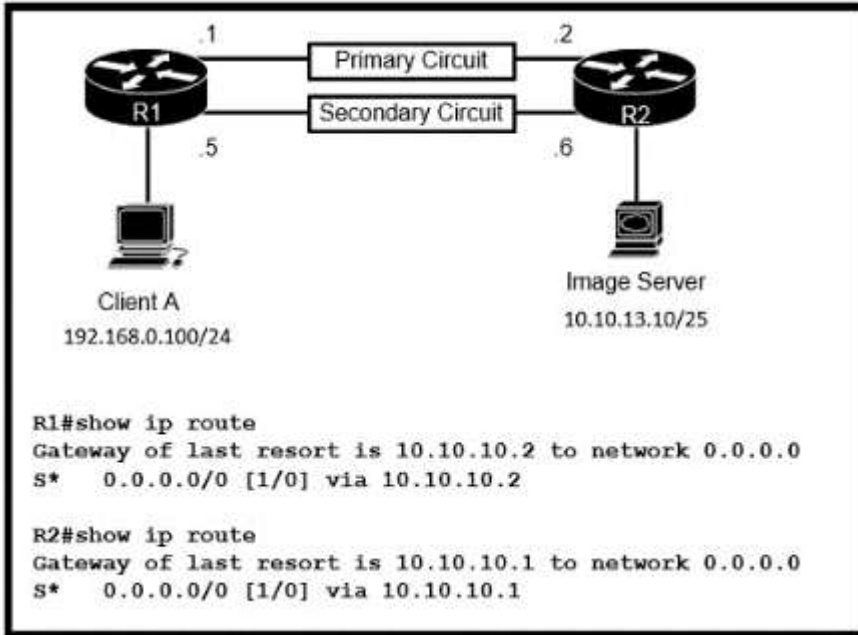
QUESTION 677

Refer to the exhibit Routers R1 and R2 have been configured with their respective LAN interfaces The two circuits are operational and reachable across WAN.

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Which command set establishes failover redundancy if the primary circuit goes down?



- ☐ R1(config)#ip route 10.10.13.10 255.255.255.255 10.10.10.2
- ☐ R2(config)#ip route 192.168.0.100 255.255.255.255 10.10.10.1
- ☒ R1(config)#ip route 0.0.0.0 0.0.0.0 10.10.10.6 2
- ☐ R2(config)#ip route 0.0.0.0 0.0.0.0 10.10.10.5 2
- ☐ R1(config)#ip route 10.10.13.10 255.255.255.255 10.10.10.6
- ☐ R2(config)#ip route 192.168.0.100 255.255.255.255 10.10.10.5
- ☐ R1(config)#ip route 0.0.0.0 0.0.0.0 10.10.10.6
- ☐ R2(config)#ip route 0.0.0.0 0.0.0.0 10.10.10.5

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: B

QUESTION 678

What is the MAC address used with VRRP as a virtual address?

- A. 00-00-0C-07-AD-89
- B. 00-00-5E-00-01-0a
- C. 00-07-C0-70-AB-01
- D. 00-C6-41-93-90-91

Answer: B

QUESTION 679

Which port type supports the spanning-tree portfast command without additional configuration?

- A. access ports
- B. Layer 3 main Interfaces

- C. Layer 3 suninterfaces
- D. trunk ports

Answer: A

QUESTION 680

Which type of traffic is sent with pure iPsec?

- A. broadcast packets from a switch that is attempting to locate a MAC address at one of several remote sites
- B. multicast traffic from a server at one site to hosts at another location
- C. spanning-tree updates between switches that are at two different sites
- D. unicast messages from a host at a remote site to a server at headquarters

Answer: D

QUESTION 681

Refer to the exhibit. A packet is being sent across router R1 to host 172.163.3.14. To which destination does the router send the packet?

```
R1# show ip route | begin gateway
Gateway of last resort is 209.165.200.246 to network 0.0.0.0
S* 0.0.0.0/0 [1/0] via 209.165.200.246, Serial0/1/0
    is directly connected, Serial0/1/0
    172.16.0.0/16 is variably subnetted, 2 subnets, 2 masks
S   172.16.3.0/24 [1/0] via 207.165.200.250, Serial0/0/0
O   172.16.3.0/28 [110/84437] via 207.165.200.254, 00:00:28, Serial0/0/1
    207.165.200.0/24 is variably subnetted, 6 subnets, 2 masks
C   207.165.200.244/30 is directly connected, Serial0/1/0
L   207.165.200.245/32 is directly connected, Serial0/1/0
C   207.165.200.248/30 is directly connected, Serial0/0/0
L   207.165.200.249/32 is directly connected, Serial0/0/0
C   207.165.200.252/30 is directly connected, Serial0/0/1
L   207.165.200.253/32 is directly connected, Serial0/0/1
```

- A. 207.165.200.246 via Serial0/1/0
- B. 207.165.200.254 via Serial0/0/1
- C. 207.165.200.254 via Serial0/0/0
- D. 207.165.200.250 via Serial0/0/0

Answer: B

QUESTION 682

A Cisco engineer must configure a single switch interface to meet these requirements:

- accept untagged frames and place them in VLAN 20
 - accept tagged frames in VLAN 30 when CDP detects a Cisco IP phone.
- Which command set must the engineer apply?

- A.

```
switchport mode dynamic desirable
switchport access vlan 20
switchport trunk allowed vlan 30
switchport voice vlan 30
```

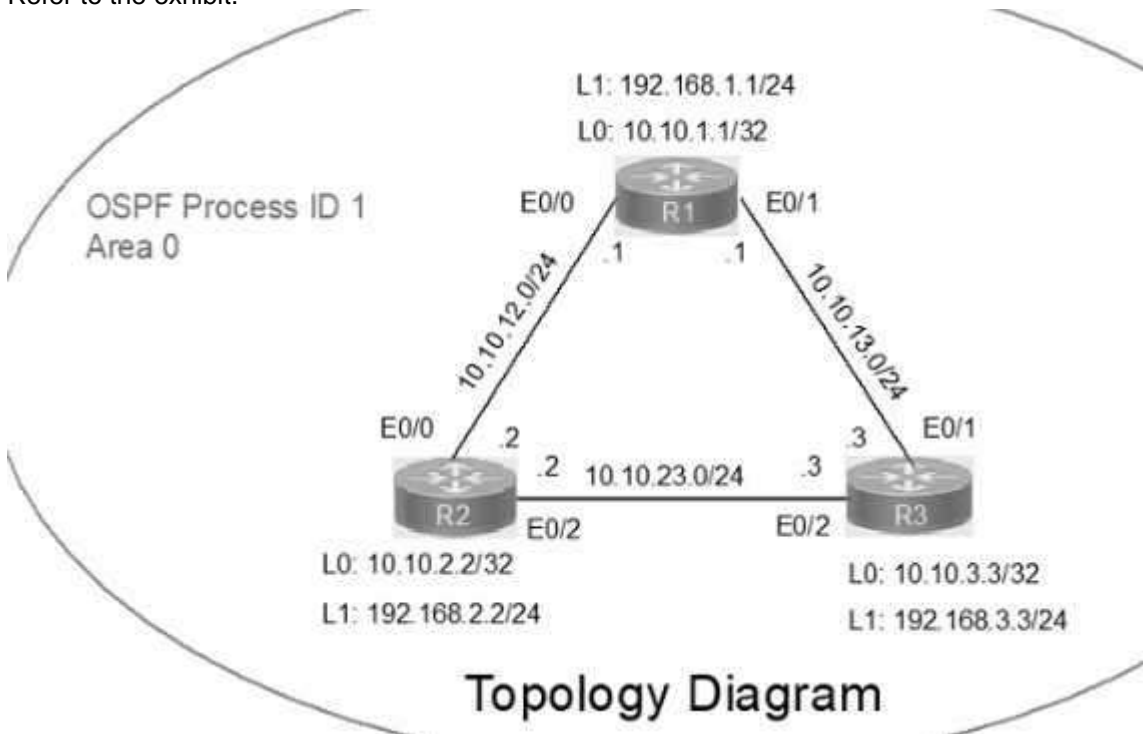
- B. `switchport mode dynamic auto`
`switchport trunk native vlan 20`
`switchport trunk allowed vlan 30`
`switchport voice vlan 30`
- C. `switchport mode access`
`switchport access vlan 20`
`switchport voice vlan 30`
- D. `switchport mode trunk`
`switchport access vlan 20`
`switchport voice vlan 30`

Answer: C

QUESTION 683

Lab Simulation 1

Refer to the exhibit.



Guidelines

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

- Refer to the Tasks tab to view the tasks for this lab item
- Refer to the Topology tab to access the device console(s) and perform the tasks.
- Console access is available for all required devices by clicking the device icon or using the tab(s) above the console window.
- All necessary preconfigurations have been applied.
- Do not change the enable password or hostname for any device.
- Save your configurations to NVRAM before moving to the next item.
- Click Next at the bottom of the screen to submit this lab and move to the next question
- When Next is clicked, the lab closes and cannot be reopened

IP connectivity between the three routers is configured. OSPF adjacencies must be established.

1. Configure R1 and R2 Router IDs using the interface IP addresses from the link that is shared between them.
2. Configure the R2 links with a max value facing R1 and R3. R2 must become the DR. R1 and R3 links facing R2 must

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remain with the default OSPF configuration for DR election. Verify the configuration after clearing the OSPF process.

3. Using a host wildcard mask, configure all three routers to advertise their respective Loopback1 networks.

4. Configure the link between R1 and R3 to disable their ability to add other OSPF routers.

Answer:

```
on R1
conf terminal
interface Loopback0
ip address 10.10.1.1 255.255.255.255
!
interface Loopback1
ip address 192.168.1.1 255.255.255.0
!
interface Ethernet0/0
no shut
ip address 10.10.12.1 255.255.255.0
ip ospf 1 area 0
duplex auto
!
interface Ethernet0/1
no shut
ip address 10.10.13.1 255.255.255.0
ip ospf 1 area 0
duplex auto
!
router ospf 1
router-id 10.10.12.1
network 10.10.1.1 0.0.0.0 area 0
network 192.168.1.0 0.0.0.255 area 0
!
copy run star
```

```
-----
On R2
conf terminal
interface Loopback0
ip address 10.10.2.2 255.255.255.255
!
interface Loopback1
ip address 192.168.2.2 255.255.255.0
!
interface Ethernet0/0
no shut
ip address 10.10.12.2 255.255.255.0
ip ospf priority 255
ip ospf 1 area 0
duplex auto
!
interface Ethernet0/2
no shut
ip address 10.10.23.2 255.255.255.0
ip ospf priority 255
ip ospf 1 area 0
duplex auto
!
router ospf 1
network 10.10.2.2 0.0.0.0 area 0
network 192.168.2.0 0.0.0.255 area 0
!
copy runs start
```

On R3
conf ter
interface Loopback0
ip address 10.10.3.3 255.255.255.255
!
interface Loopback1
ip address 192.168.3.3 255.255.255.0
!
interface Ethernet0/1
no shut
ip address 10.10.13.3 255.255.255.0
ip ospf 1 area 0
duplex auto
!
interface Ethernet0/2
no shut
ip address 10.10.23.3 255.255.255.0
ip ospf 1 area 0
duplex auto
!
router ospf 1
network 10.10.3.3 0.0.0.0 area 0
network 192.168.3.0 0.0.0.255 area 0
!
copy run start
!