

Open

```
32# show ip route
* output omitted*
172.16.0.0/16 is variably subnetted, 2 subnets, 2 masks
C 172.16.0.0/24 is directly connected, GigabitEthernet0/0
L 172.16.1.1/32 is directly connected, GigabitEthernet0/1
O IA 192.168.1.1/24 [110/2] via 192.168.1.1, 00:07:07, GigabitEthernet0/0
  192.168.1.1 is directly connected, GigabitEthernet0/0
  192.168.1.2/32 is directly connected, GigabitEthernet0/0
  192.168.1.3/32 is directly connected, GigabitEthernet0/0
  192.168.1.4/32 is directly connected, GigabitEthernet0/0
  192.168.1.5/32 is directly connected, GigabitEthernet0/0
  192.168.1.6/32 [110/2] via 192.168.1.2, 00:06:07, GigabitEthernet0/0
  192.168.1.7/32 is directly connected, GigabitEthernet0/0
O 2 0.0.0.0/0 [110/1] via 192.168.1.1, 00:04:03, GigabitEthernet0/0
```

- The network was learned from a router within the same area as R2.*
- The network was learned through summary LSAs from an ABR.
- The network can be reached through the GigabitEthernet0/0 interface.
- This network should be used to forward traffic toward external networks.

7. A network administrator is verifying a multi-area OSPF configuration by checking the routing table on a router in area 1. The administrator notices a route to a network that is connected to a router in area 2. Which code appears in front of this route in the routing table within area 1?

- C
- O
- E2
- IA*

8. Which three steps in the design and implementation of a multiarea OSPF network are considered planning steps? (Choose three.)

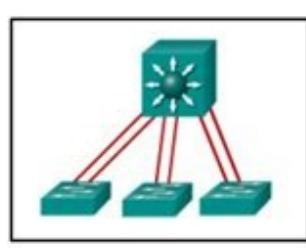
- Verify OSPF.
- Configure OSPF.
- Define the OSPF parameters.*
- Gather the required parameters.*
- Troubleshoot the configurations.
- Define the network requirements.*

9. A network administrator is implementing OSPF in a portion of the network and must ensure that only specific routes are advertised via OSPF. Which network statement would configure the OSPF process for networks 192.168.4.0, 192.168.5.0, 192.168.6.0, and 192.168.7.0, located in the backbone area, and inject them into the OSPF domain?

- r1(config-router)# network 192.168.0.0 0.0.0.255 area 1
- r1(config-router)# network 192.168.4.0 0.0.0.255 area 1
- r1(config-router)# network 192.168.5.0 0.0.0.255 area 0
- r1(config-router)# network 192.168.4.0 0.0.0.255 area 0
- r1(config-router)# network 192.168.6.0 0.0.0.255 area 0

10. The network administrator has been asked to summarize the routes for a new OSPF area. The networks to be summarized are 172.16.8.0, 172.16.10.0, and 172.16.12.0 with

1. Refer to the exhibit. Which switching technology would allow each access layer switch link to be aggregated to provide more bandwidth between each Layer 2 switch and the Layer 3 switch?



- HSRP
- PortFast
- Trunking
- EtherChannel*

2. What is the most cost-effective method of solving interface congestion that is caused by a high level of traffic between two switches?

- add more VLANs to reduce broadcast domains
- implement a port channel
- insert a router between the switches

3. Which two load balancing methods can be implemented with EtherChannel technology? (Choose two.)

- destination IP to destination IP
- destination IP to destination MAC
- source MAC to destination MAC
- destination IP to source MAC
- destination MAC to source MAC

4. Which statement is true of Ether-Channel implementation?

- EtherChannel operates only at Layer 2
- PPP cannot be used in conjunction with EtherChannel
- A trunk port can be part of an EtherChannel bundle.
- EtherChannel can support a maximum of ten separate links.

5. What is an advantage of using LACP?

- increases redundancy to Layer 3 devices

1. At which layer of the OSI model does multiplexing take place?

- Layer 1*
- Layer 2
- Layer 3
- Layer 4

2. Which command can be used to view the cable type that is attached to a serial interface?

- Router#config# show interfaces*
- Router#config# show controllers*
- Router#config# show ip interface brief

3. Which field marks the beginning and end of an HDLC frame?

- Data
- Address
- Control
- Flag

4. Which serial IOS interface state will be shown if no serial cable is attached to the router but everything else has been correctly configured and turned on?

- Serial 0/0 is up, line protocol is up
- Serial 0/0 is up, line protocol is down
- Serial 0/0 is up (looped)
- Serial 0/0 is down (looped)
- Serial 0/0 is administratively down, line protocol is down

5. Which is an advantage of using PPP on a serial link instead of HDLC?

- option for authentication*
- option for compression
- fixed-size frames
- option for session establishment

6. What are three components of PPP? (Choose three.)

- encapsulation
- multiplex
- LCP
- authentication
- NCP
- compression
- HDLC-like framing*

7. How does PPP interoperate with different network layer protocols?

- by using separate NCPs
- by negotiating with the network layer header

4. Which three statements are advantages of using automatic summarization? (Choose three.)

- It maximizes the number of routes in the routing table.
- It increases the size of routing updates.
- It ensures that traffic for multiple subnets uses one path through the internetwork.*
- It minimizes instability in disconiguous networks.
- It decreases the number of entries in the routing table.*

5. Refer to the exhibit. Which two routes will be advertised to the router ISP if autosummarization is disabled? (Choose two.)

```
R2# show ip route
* output omitted*
Gateway of last resort is 209.165.200.224 to network 0.0.0.0

0.0.0.0/0 is variably subnetted, 6 subnets, 2 masks
C 10.1.1.0/24 is directly connected, FastEthernet0/0
  10.1.1.0/24 via 10.1.1.1, 00:06:04, FastEthernet0/0
D 10.1.3.0/24 [90/31720] via 10.1.1.6, 00:06:04, FastEthernet0/0
  10.1.3.0/24 is directly connected, FastEthernet0/0
C 10.1.4.0/30 [90/31720] via 10.1.1.1, 00:06:04, FastEthernet0/0
  10.1.4.0/30 [90/31720] via 10.1.1.1, 00:06:04, FastEthernet0/0
  10.1.4.0/30 via 10.1.1.1, 00:06:04, FastEthernet0/0
  209.165.200.0/24 is subnetted, 1 subnets
    209.165.200.224 is directly connected, FastEthernet0/1
  0.0.0.0/0 [110/1] via 10.1.1.1, 00:06:04, FastEthernet0/0
```

- 10.1.0.0/16*
- 10.1.2.0/24*
- 10.1.3.0/24
- 10.1.4.0/28
- 10.1.4.0/30*

6. Which address best summarizes the IPv6 addresses 2001:DB8:ACAD::48,

- 2001:DB8:ACAD::48
- 2001:DB8:ACAD::47
- 2001:DB8:ACAD::49*
- 2001:DB8:ACAD::48
- 2001:DB8:ACAD::47

7. What is a characteristic of manual route summarization?

- requires high bandwidth utilization for the routing updates

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1. What are two structured engineering principles necessary for successful implementation of a network design? (Choose two.)
 - quality of service
 - **resiliency***
 - **modularity***
 - security
 - availability
 2. What is an important first consideration when starting to design a network?
 - access security
 - type of applications
 - **size of the network***
 - protocols to be used
 3. Which two devices would commonly be found at the access layer of the hierarchical enterprise LAN design model? (Choose two.)
 - **access point***
 - firewall
 - **Layer 2 switch***
 - Layer 3 device
 - modular switch
 4. In which layer of the hierarchical enterprise LAN design model would PoE for VoIP phones and access points be considered?
 - **access***
 - core
 - data link
 - distribution
 - physical

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