



**Free Questions for 350-401 by certsinside**

**Shared by Wagner on 09-08-2024**

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# Question 1

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**Question Type:** MultipleChoice

---

SIMULATION

21:-

Guidelines

Topology

Tasks

OSPF is partially configured. Complete the OSPF configurations to achieve these goals:

1. Configure R3 to always be the DR in Area 20. Do not change the router ID.
2. Configure R2 and R10 so they do not participate in a DR/BDR election process in Area 10.

R2

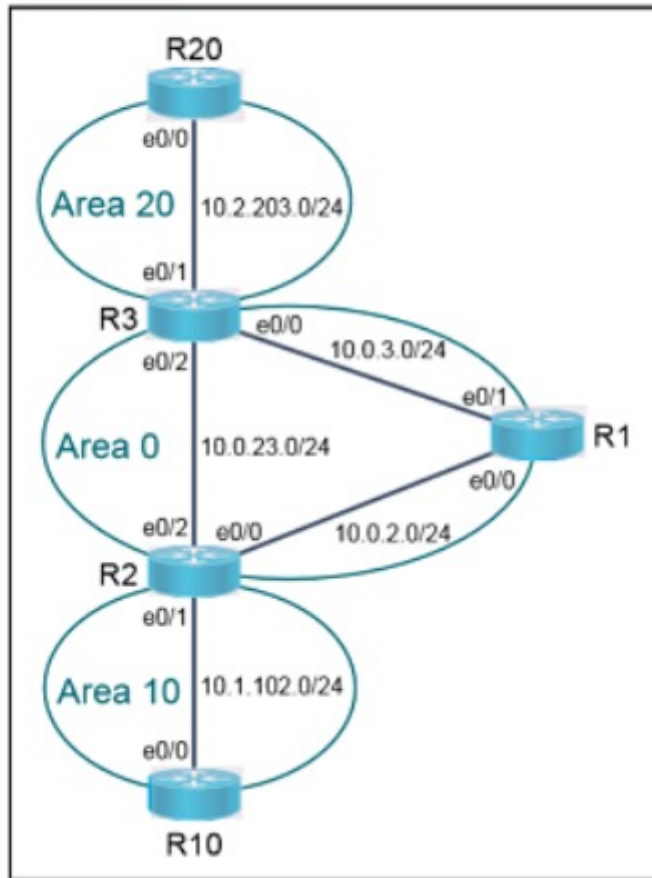
R3

R1

R10

R20

```
R10>en
R10#conf t
Enter configuration commands, one per line. End with CNTL
R10(config)#interface et0/0
R10(config-if)#ip ospf priority
```



R10  
R10  
Ent  
R10  
R10

Options:

---

A- See the solution below in Explanation

**Answer:**

---

A

**Explanation:**

---

Solution:

R3

Int e0/1

Ip ospf priority 255

End

Copy run start

R2

Int e0/1

Ip ospf network point-to-point

End

Copy run start

R10

Int e0/0

Ip ospf network point-to-point

End

Copy run start

OR

## Question 2

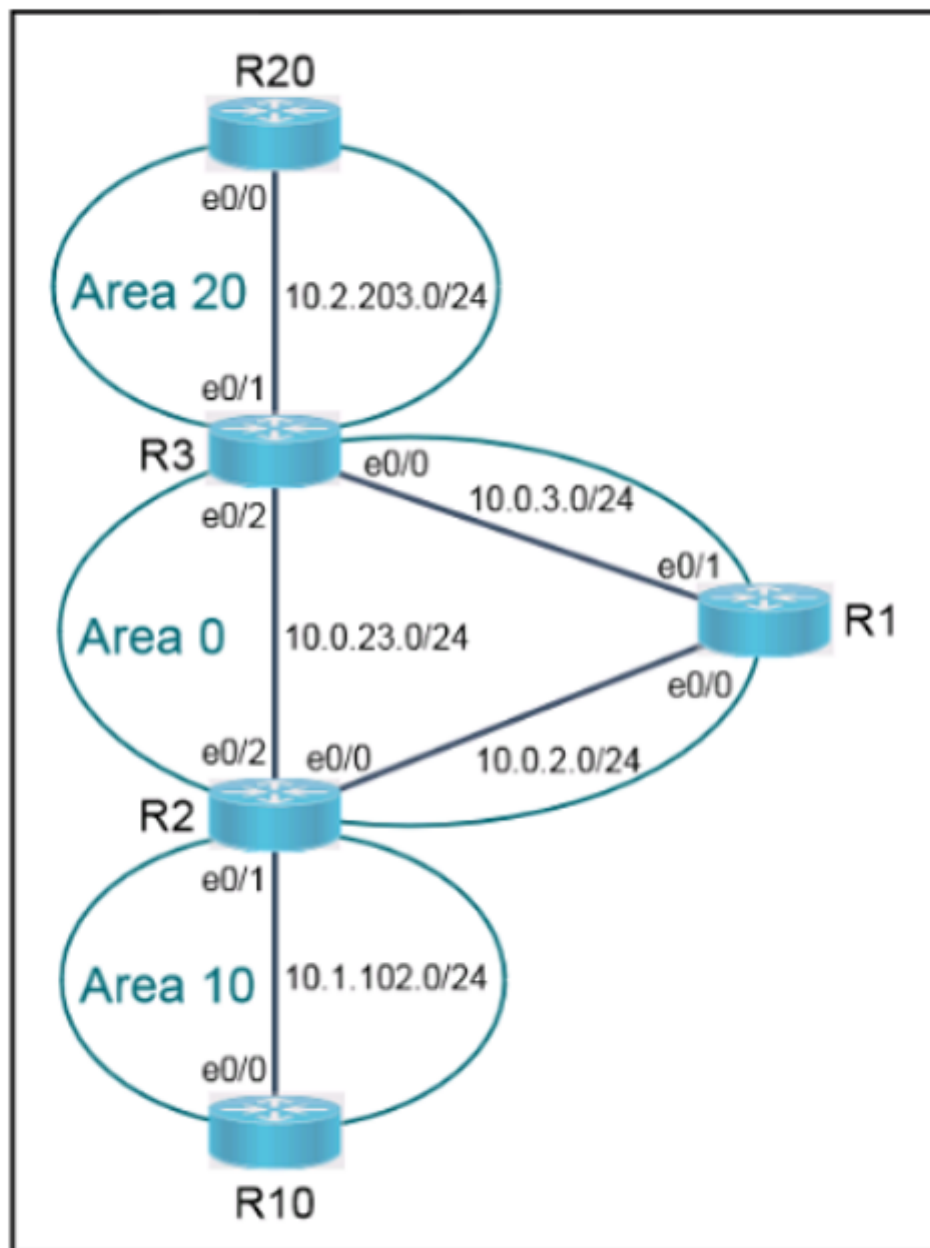
---

**Question Type:** MultipleChoice

---

SIMULATION

20:-



OSPF is partially configured. Complete the OSPF configurations on the ABR routers to achieve these goals:

1. The route for R1 Loopback 0 should not be advertised into Area 10. Use the partially configured prefix list to accomplish the task. Do not use the **area 0** command under the **router ospf** configuration section to accomplish the task.
2. The route for R20 loopback 0 should not be advertised out of area 20. Use the partially configured prefix list to accomplish this task. Do not use the **area 0** command under the **router ospf** configuration section to accomplish this task.

```
R2 con0 i
```

Options:



A- See the solution below in Explanation

## Answer:

---

A

## Explanation:

---

R2

```
R2#sh run | s route|pref
router ospf 10
  router-id 10.0.1.2
  area 10 filter-list prefix deny_R1_Lo0 in
  network 10.0.1.0 0.0.0.255 area 0
  network 10.0.2.0 0.0.0.255 area 0
  network 10.0.23.0 0.0.0.255 area 0
  network 10.1.102.0 0.0.0.255 area 10
ip prefix-list deny_R1_Lo0 seq 1 deny 10.0.1.1/32
ip prefix-list deny_R1_Lo0 seq 2 permit 0.0.0.0/0 le 32
R2#
R2#
R2#wr
Building configuration...
```

R3

```
R3# sh run | s route|pref
router ospf 10
  router-id 10.0.1.3
  area 20 filter-list prefix deny_R20_Lo0 out
  network 10.0.1.0 0.0.0.255 area 0
  network 10.0.3.0 0.0.0.255 area 0
  network 10.0.23.0 0.0.0.255 area 0
  network 10.2.203.0 0.0.0.255 area 20
  ip prefix-list deny_R20_Lo0 seq 1 deny 10.2.1.1/32
  ip prefix-list deny_R20_Lo0 seq 2 permit 0.0.0.0/0 le 32
R3#
R3#
R3#
R3#
R3#
R3#
R3#wr
Building configuration...
[cont]
```

## Question 3

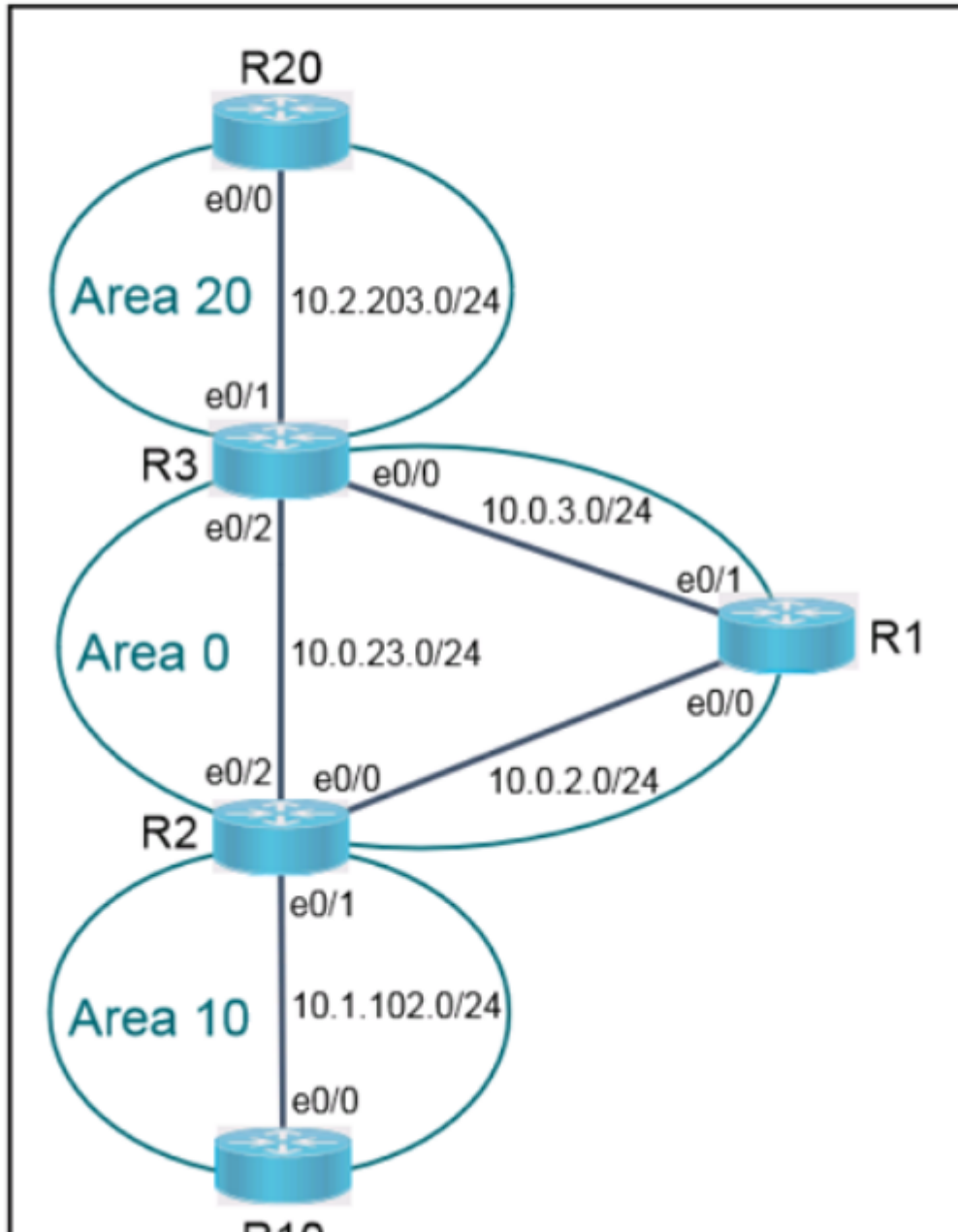
---

Question Type: MultipleChoice

---

SIMULATION

19:-



R1#

Guidelines

Topology

Tasks

R2

R3

OSPF is partially configured. Complete the OSPF configurations to achieve these goals:

1. Configure OSPF on router R1 according to the topology so that all networks are advertised. Do not use the network statement under the "router ospf" configuration section to accomplish this task.
2. Configure a single command on the ABR routers to ensure only one summary route is advertised to area 0.

R1#

**Options:**

---

A- See the solution below in Explanation

### Answer:

---

A

### Explanation:

---

R1

en

Conf t

Router ospf 10

Router-id 10.x.x.x -- lo0 address

Int range lo0, e0/0-1

Ip ospf 10 area 0

Exit

wr

R2

Router ospf 10

Area 10 range 10.1.0.0 255.255.0.0

exit

wr

R3

Router ospf 10

Area 10 range 10.2.0.0 255.255.0.0

Exit

Wr

OR

## Question 4

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**Question Type:** MultipleChoice

---

SIMULATION

18:-

Guidelines

Topology

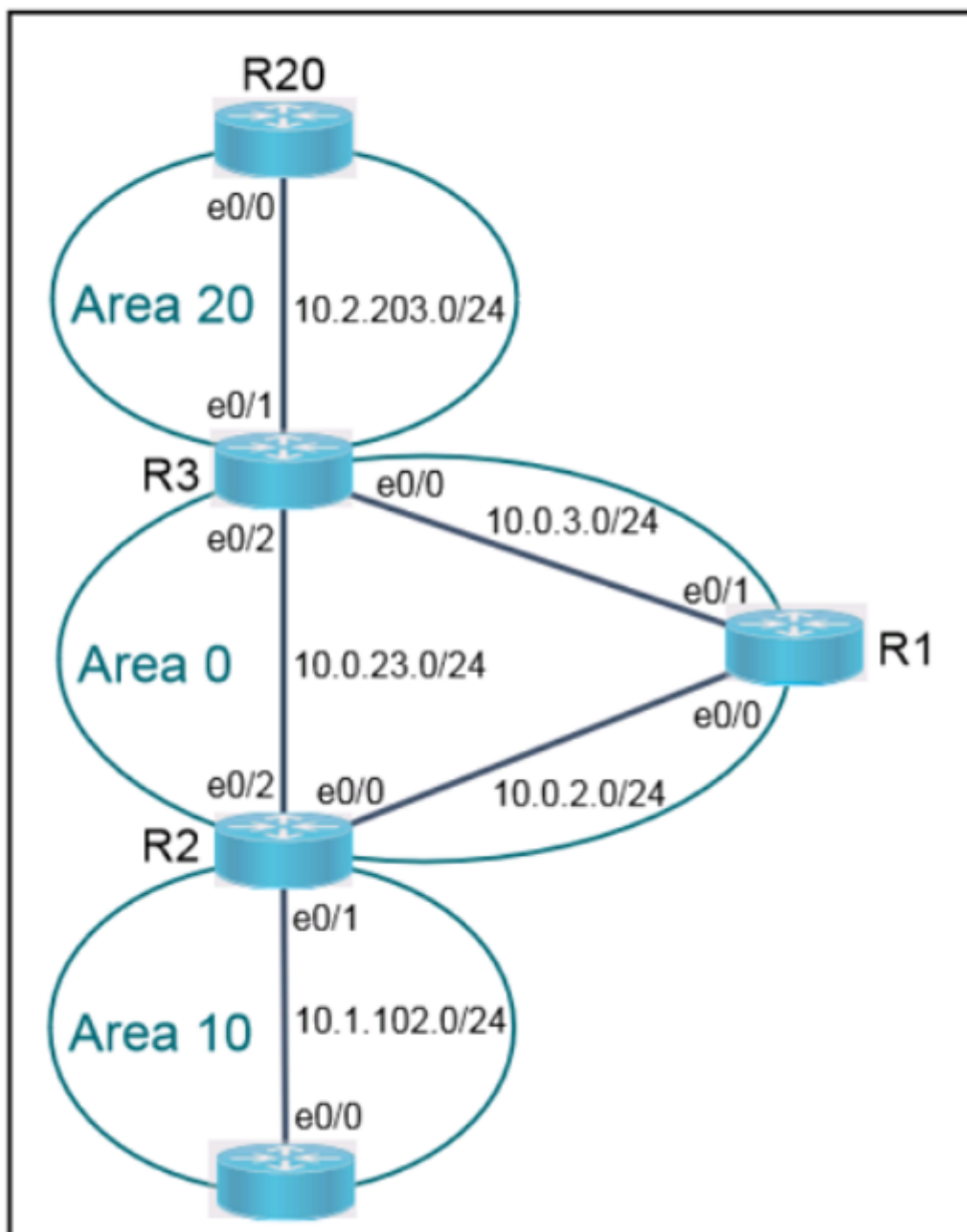
Tasks

R2

R3

R1

R



R2>



OSPF is partially configured on all devices. Complete the configurations to achieve these goals:

1. Configure R2 to always be the DR in Area 10. Do not change the router ID.
2. Configure a single command on R2 to summarize area 10 routes into a single route.

```
R2>
```

## Options:

---

A- See the solution below in Explanation

## Answer:

---

A

## Explanation:

---

```
Z.  
R2(config)#int et0/1  
R2(config-if)#ip ospf pro  
R2(config-if)#ip ospf pri  
R2(config-if)#ip ospf priority 255  
R2(config-if)#
```

```
R2(config)#router ospf 10  
R2(config-router)#area 10 ran  
R2(config-router)#area 10 range 10.1.0.0 255.255.0.0  
R2(config-router)#  
R2(config-router)#
```

```
2.  
R3(config)#int et0/1  
R3(config-if)#ip ospf net  
R3(config-if)#ip ospf network po  
R3(config-if)#ip ospf network point-to-po  
R3(config-if)#ip ospf network point-to-point  
R3(config-if)#  
*Nov 15 13:23:04.026: %OSPF-5-ADJCHG: Process 10, Nbr 10.  
1.1 on Ethernet0/1 from FULL to DOWN, Neighbor Down: Inte  
ace down or detached  
*Nov 15 13:23:04.027: %OSPF-4-NET_TYPE_MISMATCH: Received  
ello from 10.2.1.1 on Ethernet0/1 indicating a potential  
network type mismatch  
R3(config-if)#  
*Nov 15 13:23:04.027: %OSPF-5-ADJCHG: Process 10, Nbr 10.  
1.1 on Ethernet0/1 from LOADING to FULL, Loading Done  
R3(config-if)#exit  
R3(config)#int et0/1  
R3(config-if)#ip ospf net  
R3(config-if)#ip ospf network po  
R3(config-if)#ip ospf network point-to-po  
R3(config-if)#ip ospf network point-to-point  
R3(config-if)#
```

VERIFICATION: -

```
1.2 on Ethernet0/0 from LOADING to FULL, Loading Done
R10#sh ip ospf neighbor

Neighbor ID      Pri   State           Dead Time   Address
  Interface
10.0.1.2         255   FULL/DR         00:00:38   10.1.102.
2   Ethernet0/0
R10#
R10#
```

OR

## Question 5

---

**Question Type:** MultipleChoice

---

SIMULATION

17:-

Guidelines

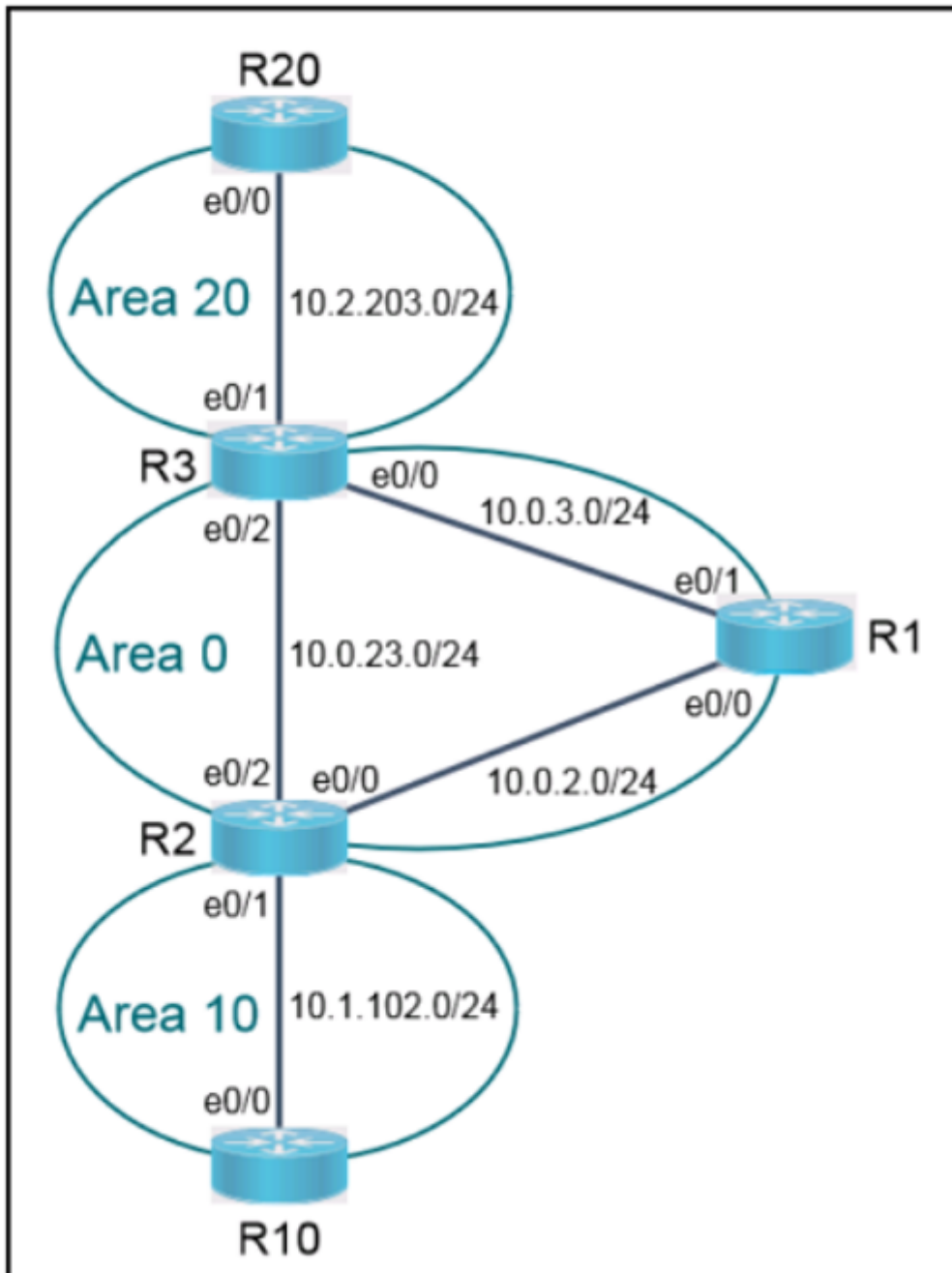
Topology

Tasks

R2

R3

R1



R2>

Guidelines

Topology

Tasks

OSPF is partially configured. Complete the OSPF configurations to achieve these goals:

1. Configure R3 and R20 so they do not participate in a DR/BDR election process in Area 20.
2. Configure R10 so it is always the DR for Area 10. Do not change the router ID.

R2

R3

R1

```
R2>
```

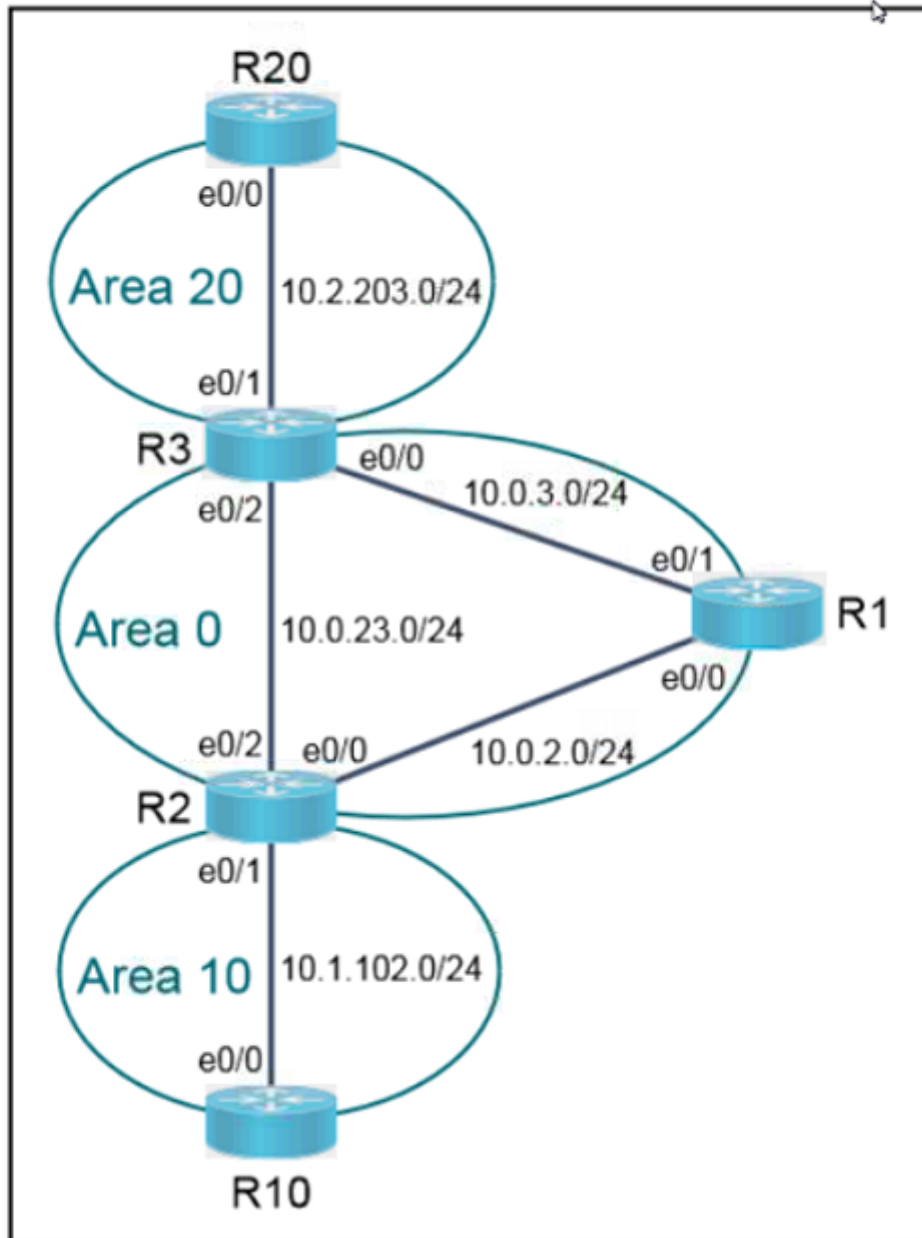
OSPF is partially configured. Complete the OSPF configurations to achieve these goals:

1. Configure R3 and R20 so they do not participate in a DR/BDR election process in Area 20.
2. Configure R10 so it is always the DR for Area 10. Do not change the router ID.

Guidelines

Topology

Tasks





### Options:

---

A- See the solution below in Explanation

### Answer:

---

A

### Explanation:

---

Solution:

```
R20#sh run int e0/0
Building configuration...

Current configuration : 112 bytes
!
interface Ethernet0/0
 ip address 10.2.203.20 255.255.255.0
 ip ospf network point-to-point
 duplex auto
end
```

Copy run start

```
R3#sh run int e0/1
Building configuration...

Current configuration : 111 bytes
!
interface Ethernet0/1
 ip address 10.2.203.3 255.255.255.0
 ip ospf network point-to-point
 duplex auto
end
```

Copy run start

```
R10#sh run int e0/0
Building configuration...

Current configuration : 102 bytes
!
interface Ethernet0/0
 ip address 10.1.102.10 255.255.255.0
 ip ospf priority 255
 duplex auto
end
```

Copy run start

Verification:-

```
R10#
R10#clear ip ospf process
Reset ALL OSPF processes? [no]: yes
R10#
*Nov 17 10:21:39.702: %OSPF-5-ADJCHG: Process 10, Nbr 10.0.
1.2 on Ethernet0/0 from FULL to DOWN, Neighbor Down: Interf
ace down or detached
*Nov 17 10:21:39.703: %OSPF-5-ADJCHG: Process 10, Nbr 10.0.
1.2 on Ethernet0/0 from LOADING to FULL, Loading Done
R10#
```

```
R10#show ip ospf nei
R10#show ip ospf neighbor

Neighbor ID      Pri   State           Dead Time   Address
Interface
10.0.1.2         1    FULL/DR         00:00:34   10.1.102.
2    Ethernet0/0
R10#
```

OR

## Question 6

---

Question Type: MultipleChoice

---

## SIMULATION

16: -

The operations team started configuring network devices for a new site. R10 and R20 are preconfigured with the CORP VRF. R10 has network connectivity to R20. Complete the configurations to achieve these goals:

1. Extend the CORP VRF between R10 and R20 using Tunnel0.
2. Configure static routing on R10 and R20 so that users in VLAN 100 and VLAN 101 that belong to the CORP VRF are able to communicate with each other. Tunnel0 should be the only interface used to route traffic for the CORP VRF.

```
R10>
```

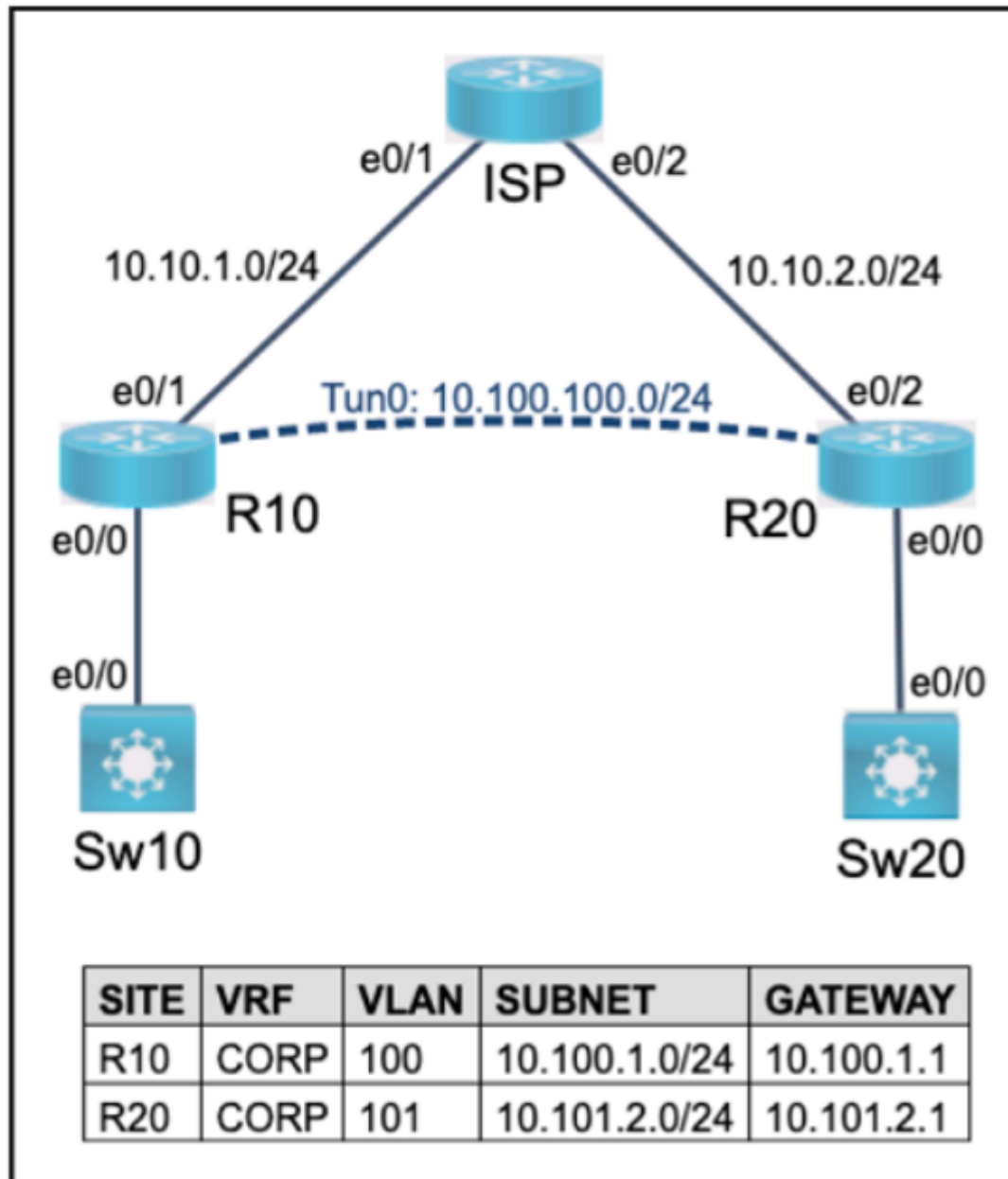
OR

The operations team started configuring network devices for a new site. R10 and R20 are preconfigured with the CORP VRF. R10 has network connectivity to R20. Complete the configurations to achieve these goals:

1. Extend the CORP VRF between R10 and R20 using Tunnel0.
2. Protect Tunnel0 using the preconfigured profile
3. Configure static routing on R10 and R20 so that users in VLANs100 and 101 that belong to the CORP VRF are able to communicate with each other. Tunnel0 should be the only interface used to route traffic for the CORP VRF







R10&gt;

**Options:**

---

A- See the solution below in Explanation

**Answer:**

---

A

**Explanation:**

---

Solution:

R10

```
interface Tunnel0
 vrf forwarding CORP
 ip address 10.100.100.1 255.255.255.0
 tunnel source Ethernet0/1
 tunnel destination 10.10.2.1
 tunnel protection ipsec profile MyProfile
end

R10#
R10#
R10#
R10#
R10#
R10#
R10#conf t
Enter configuration commands, one per line. End with CNTL/
Z.
R10(config)#ip route vrf CORP 10.101.2.0 255.255.255.0 tu0
```

Copy run start

R20

```
interface Tunnel0
  vrf forwarding CORP
  ip address 10.100.100.2 255.255.255.0
  tunnel source Ethernet0/2
  tunnel destination 10.10.1.1
  tunnel protection ipsec profile MyProfile
end

R20#
R20#
R20#conf t
Enter configuration commands, one per line. End with CNTL/
Z.
R20(config)#
R20(config)#
R20(config)#
R20(config)#
R20(config)#
R20(config)#ip route vrf CORP 10.100.1.0 255.255.255.0 tu0
```

Copy run start

Verification:

```
R10#
R10#ping vrf CORP 10.101.2.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.101.2.1, timeout is 2
seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max =
4/5/6 ms
```

## Question 7

---

**Question Type:** MultipleChoice

---

SIMULATION

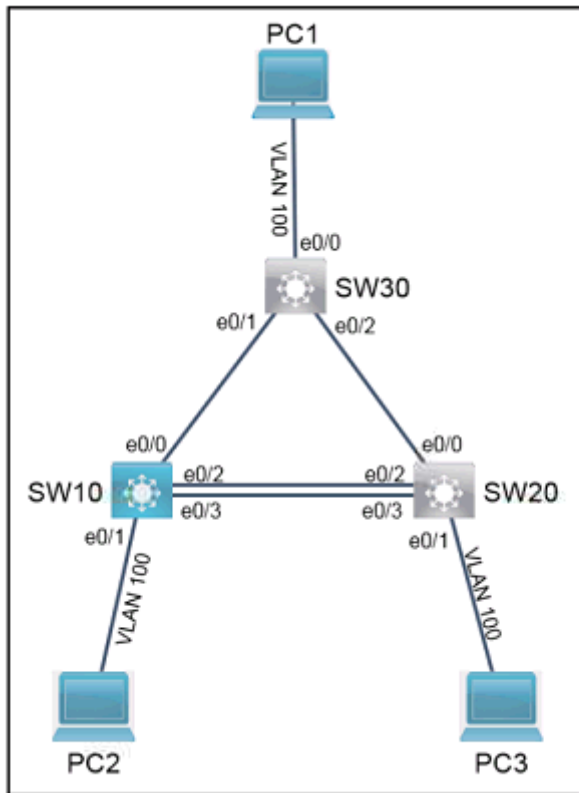
15: -

The operations team started configuring network devices for a new site. Complete the configurations to achieve these goals:

1. Configure interface e0/1 on SW10 so that packet forwarding begins immediately after the link-state moves to UP.
2. The trunk between SW10 and SW30 is not operational. It should actively attempt to convert to a trunk but it does not. Troubleshoot the issues and ensure PC2 can ping PC1 (10.10.100.10) across the link.
3. The LACP port channel between SW10 and SW20 is not operational. Troubleshoot the issues and ensure PC2 can ping PC3 (10.10.100.30) across the port-channel.

**Note:** No access is provided to SW20 or SW30. Resolve these issues by making changes only to SW10. Traffic on all trunks should be restricted to only active VLANs.

---



**Options:**

A- See the solution below in Explanation

**Answer:**

A

## Explanation:

---

Solution:

```
SW10#sh run int e0/1
Building configuration...

Current configuration : 110 bytes
!
interface Ethernet0/1
 switchport access vlan 100
 switchport mode access
 spanning-tree portfast edge
end
```

```
SW10(config)#int e0/0
SW10(config-if)#sw
SW10(config-if)#switchport mo
SW10(config-if)#switchport mode tru
SW10(config-if)#switchport mode trunk
SW10(config-if)#
```

SW10

Int ran e02/-3

Channel-group 10 mode active

Verification:



```
PC2#ping 10.10.100.10
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.10.100.10, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 1/1/1 ms
PC2#ping 10.10.100.30
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.10.100.30, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 1/1/1 ms
PC2#
```

## Question 8

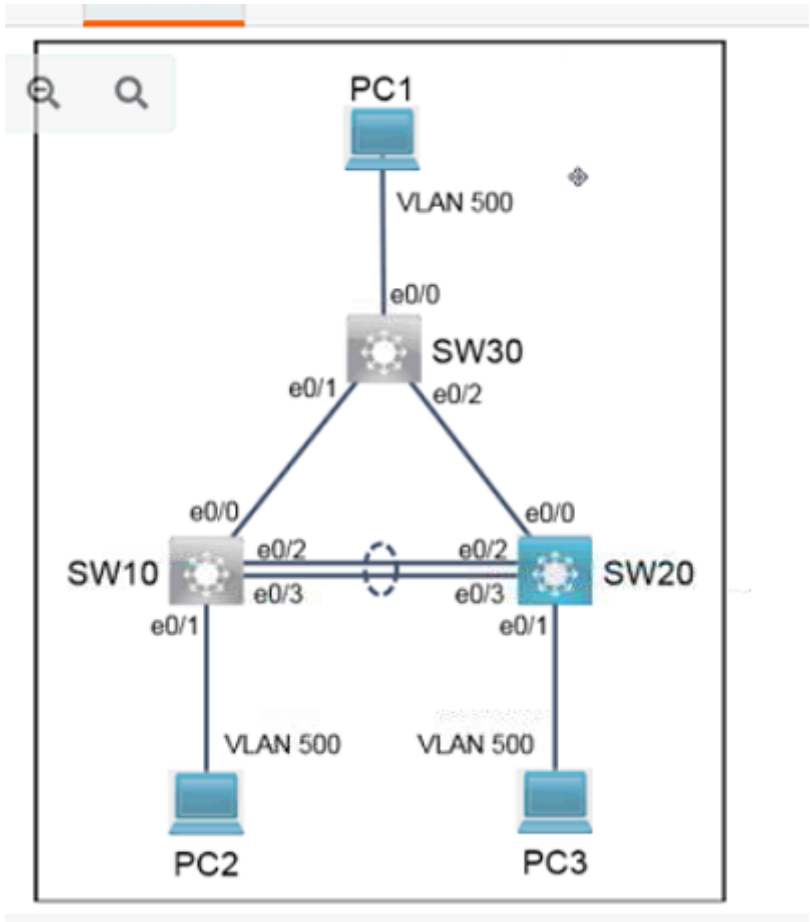
---

**Question Type:** MultipleChoice

---

SIMULATION

14: -



The operations team started configuring network devices for a new site. Complete the configurations to achieve these goals:

1. Configure Rapid PVST+ on SW20.
2. The trunk between SW20 and SW30 is not operational. Troubleshoot the issue and ensure PC3 can ping PC1 (10.10.100.10) across the link.
3. The LACP port channel between SW10 and SW20 is not operational. Troubleshoot the issue and ensure PC3 can ping PC2 (10.10.100.20) across the port channel.

**Note:** No access is provided to SW10 or SW30. Resolve these issues by making changes only to SW20. Traffic on all trunks should be restricted to only active VLANs.

### Options:

---

**A-** See the solution below in Explanation

### Answer:

---

A

## Explanation:

---

Solution:

SW20

Conf t

Spanning-tree mode rapid-pvst

No int po10

```
SW20(config)#int ran e0/2-3
SW20(config-if-range)#cha
SW20(config-if-range)#channel-g
SW20(config-if-range)#channel-group 10 mode active
```

No shut

exit

Int e0/0

No switchport mode access

```
interface Ethernet0/0
 switchport trunk allowed vlan 500
 switchport trunk encapsulation dot1q
 switchport mode trunk
end
```

Copy run start

Verification:

```
PC3#  
PC3#ping 10.10.100.20  
Type escape sequence to abort.  
Sending 5, 100-byte ICMP Echos to 10.10.100.20, timeout is 2  
seconds:  
.!!!!  
Success rate is 80 percent (4/5), round-trip min/avg/max = 1  
/1/1 ms
```

## Question 9

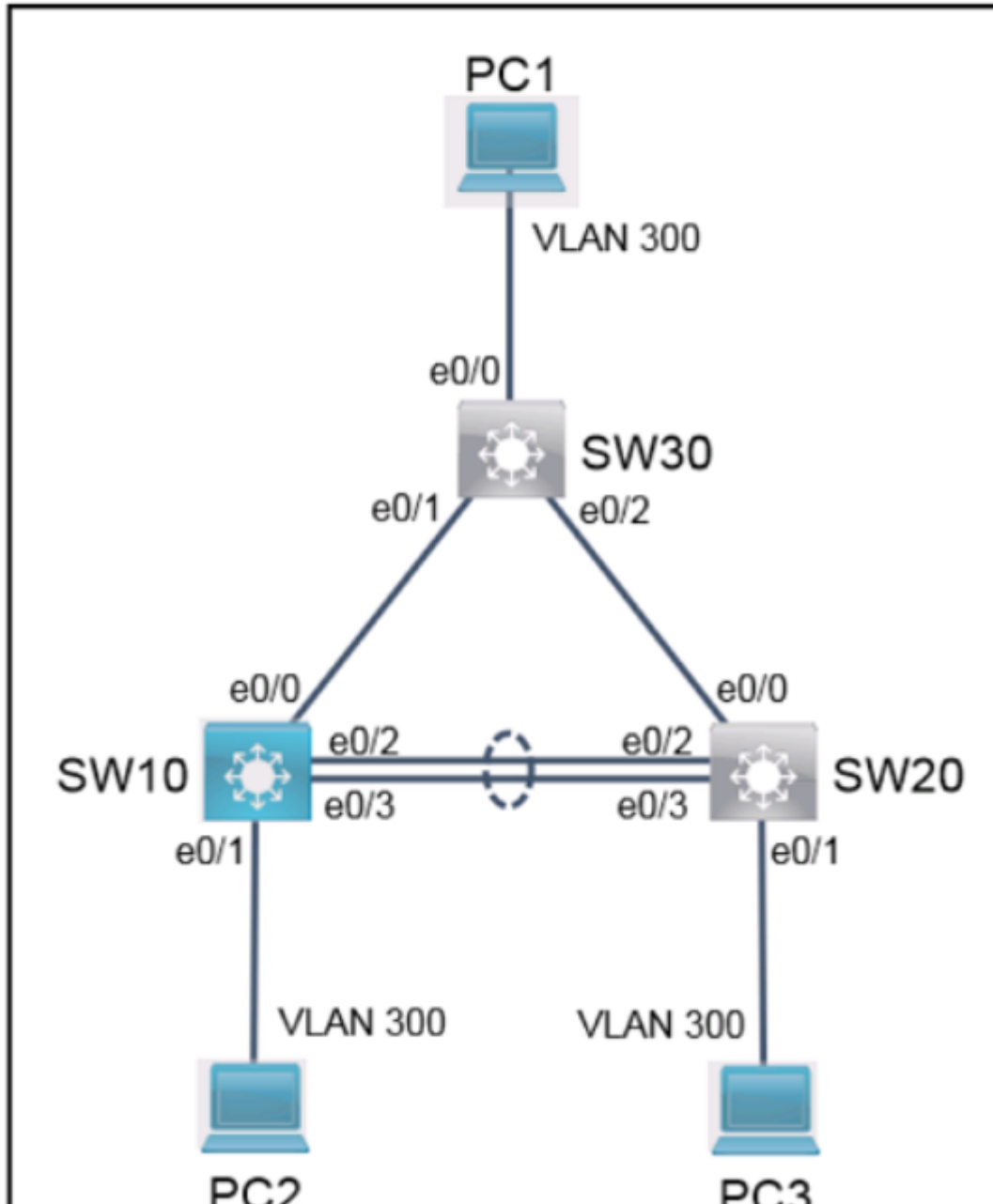
---

**Question Type:** MultipleChoice

---

SIMULATION

13: -



```
SW10>  
SW10>  
SW10>  
SW10>
```



The operations team started configuring network devices for a new site. Complete the configurations to achieve these goals:

1. The trunk between SW10 and SW30 is not operational. Troubleshoot the issue and ensure PC2 can ping PC1 (10.10.100.10) across the link.
2. Configure SW10 interface E0/0 for aggressive unidirectional link detection.
3. The LACP port-channel between SW10 and SW20 is not operational. Troubleshoot the issue and ensure that PC2 can ping PC3 (10.10.100.30) across the port-channel.

**Note:** No access is provided to SW20 or SW30. Resolve these issues by making changes only to SW10. Traffic on all trunks should be restricted to only active VLANs

```
SW10>  
SW10>  
SW10>  
SW10>□
```



### **Options:**

---

**A-** See the solution below in Explanation

### **Answer:**

---

A

### **Explanation:**

---

SOLUTION: -

SW10

Conf t

Default int e0/0

Int e0/0

No sh

Switchport trunk encap dot1q

Switchport mode trunk

Ulld port aggressive

Switchport trunk allowed vlan add 300

No sh

Ex

```
Enter configuration commands, one per line. End with CNTL/Z.
SW10(config)#no int port 10
SW10(config)#
*Nov 17 09:59:50.402: %EC-5-CANNOT_BUNDLE1: Port-channel Po10 is
own, port Et0/3 will remain stand-alone.
SW10(config)#
*Nov 17 09:59:52.403: %LINK-5-CHANGED: Interface Ethernet0/2, cha
ged state to administratively down
*Nov 17 09:59:52.403: %LINK-5-CHANGED: Interface Ethernet0/3, cha
ged state to administratively down
SW10(config)#int ran
SW10(config)#int range et
SW10(config)#int range ethernet 0/2 - 3
SW10(config-if-range)#chan
SW10(config-if-range)#channel-gr
SW10(config-if-range)#channel-group 10 mo
SW10(config-if-range)#channel-group 10 mode ac
SW10(config-if-range)#channel-group 10 mode active
Creating a port-channel interface Port-channel 10

SW10(config-if-range)#no shut
SW10(config-if-range)#
```

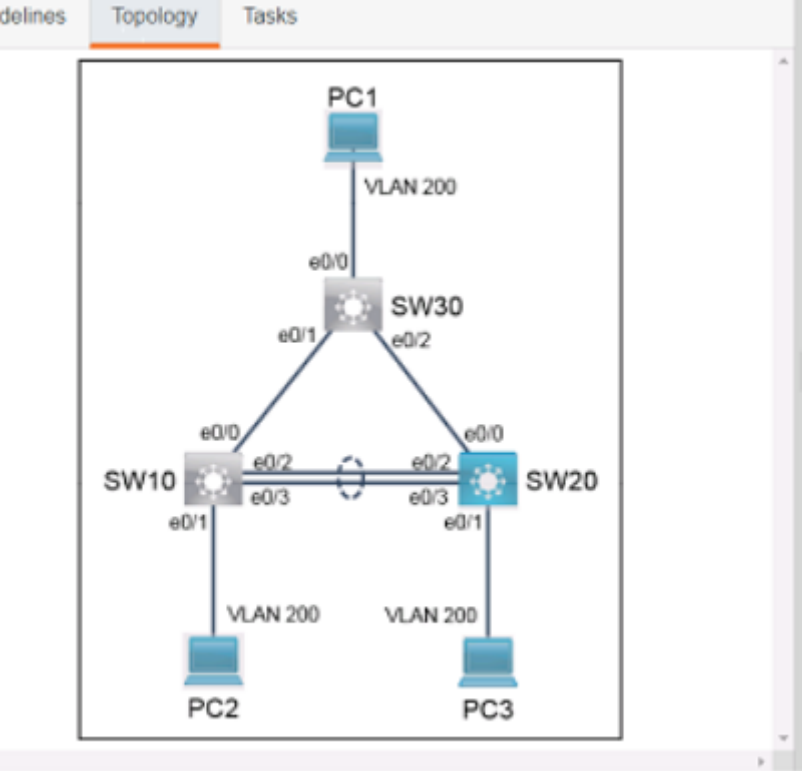
OR

# Question 10

Question Type: MultipleChoice

SIMULATION

12: -



recording

Guidelines Topology **Tasks**

The operations team started configuring network devices for a new site. Complete the configurations to achieve these goals:

1. Configure SW20 to utilize 32-bit values when calculating spanning-tree port cost.
2. The trunk between SW20 and SW30 is not operational. Troubleshoot the issue and ensure PC3 can ping PC1 (10.10.100.10) across the link.
3. The LACP port channel between SW10 and SW20 is not operational. Troubleshoot the issue and ensure PC3 can ping PC2 (10.10.100.20) across the port channel.

**Note:** No access is provided to SW10 or SW30. Resolve these issues by making changes only to SW20. Traffic on all trunks should be restricted to only active VLANs.

### Options:

---

A- See the solution below in Explanation

### Answer:

---

A

## Explanation:

---

SOLUTION: -

```
SW20(config)#spanning-tree pathcost me  
SW20(config)#spanning-tree pathcost method long  
SW20(config)#
```

```
SW20#config t  
Enter configuration commands, one per line. End with CNTL  
Z.  
SW20(config)#defa  
SW20(config)#default int et0/0  
Interface Ethernet0/0 set to default configuration  
SW20(config)#int et0/0  
SW20(config-if)#sw  
SW20(config-if)#switchport tr  
SW20(config-if)#switchport trunk all  
SW20(config-if)#switchport trunk allowed v  
SW20(config-if)#switchport trunk allowed vlan 200  
SW20(config-if)#sw  
SW20(config-if)#switchport tr  
SW20(config-if)#switchport trunk en  
SW20(config-if)#switchport trunk encapsulation dot  
SW20(config-if)#switchport trunk encapsulation dot1q  
SW20(config-if)#sw  
SW20(config-if)#switchport mod  
SW20(config-if)#switchport mode tr  
SW20(config-if)#switchport mode trunk  
SW20(config-if)#
```

```
2.  
SW20(config)#no int po 10  
SW20(config)#
```

```
SW20(config-if-range)#  
SW20(config)#int range ethernet 0/2 - 3  
SW20(config-if-range)#chan  
SW20(config-if-range)#channel-gr  
SW20(config-if-range)#channel-group 10 mo  
SW20(config-if-range)#channel-group 10 mode ac  
SW20(config-if-range)#channel-group 10 mode active  
Creating a port-channel interface Port-channel 10  
  
SW20(config-if-range)#no shut  
SW20(config-if-range)#
```

```
SW20#copy run start  
SW20#copy run startup-config  
Destination filename [startup-config]?  
Building configuration...  
Compressed configuration from 1464 bytes to 876 bytes[OK]  
SW20#
```

VERIFICATION: -

```
SW20#show etherchannel summary
Flags: D - down          P - bundled in port-channel
       I - stand-alone  s - suspended
       H - Hot-standby (LACP only)
       R - Layer3       S - Layer2
       U - in use       N - not in use, no aggregation
       f - failed to allocate aggregator

       M - not in use, minimum links not met
       m - not in use, port not aggregated due to minimum
links not met
       u - unsuitable for bundling
       w - waiting to be aggregated
       d - default port

       A - formed by Auto LAG

Number of channel-groups in use: 1
Number of aggregators:          1

Group  Port-channel  Protocol    Ports
-----+-----+-----+-----
10     Po10 (SU)      LACP        Et0/2 (P)  Et0/3 (P)

SW20#
```

```
PC3#  
PC3#ping 10.10.100.20  
Type escape sequence to abort.  
Sending 5, 100-byte ICMP Echos to 10.10.100.20, timeout is  
2 seconds:  
.!!!!  
Success rate is 80 percent (4/5), round-trip min/avg/max =  
1/1/1 ms  
PC3#
```

OR



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