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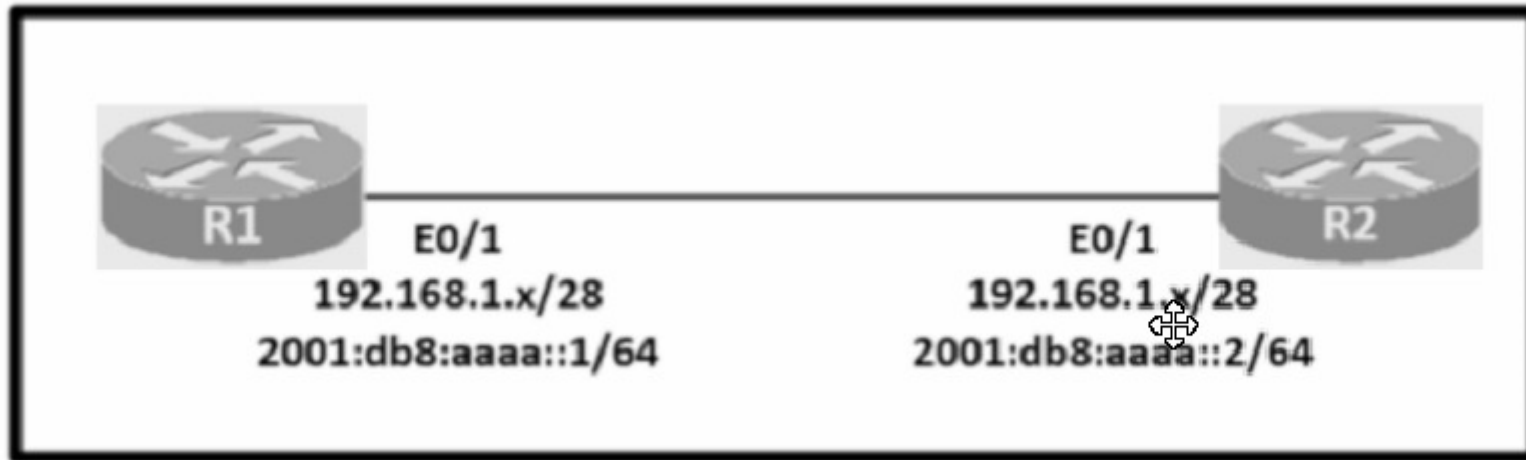
Question 1

Question Type: MultipleChoice

SIMULATION

Configure IPv4 and IPv6 connectivity between two routers. For IPv4, use a /28 network from the 192.168.1.0/24 private range. For IPv6, use the first /64 subnet from the 2001:0db8:aaaa::/48 subnet.

1. Using Ethernet0/1 on routers R1 and R2, configure the next usable/28 from the 192.168.1.0/24 range. The network 192.168.1.0/28 is unavailable.
2. For the IPv4 /28 subnet, router R1 must be configured with the first usable host address.
3. For the IPv4 /28 subnet, router R2 must be configured with the last usable host address.
4. For the IPv6 /64 subnet, configure the routers with the IP addressing provided from the topology.
5. A ping must work between the routers on the IPv4 and IPv6 address ranges.



Options:

A- See the Explanation below

Answer:

A

Explanation:

Answer as below configuration:

on R1

config terminal

ipv6 unicast-routing

inter eth0/1

ip address 192.168.1.1 255.255.255.240

ipv6 address 2001:db8:aaaa::1/64

no shutdown

end

copy running start

on R2

config terminal

ipv6 unicast-routing

inter eth0/1

ip address 192.168.1.14 255.255.255.240

ipv6 address 2001:db8:aaaa::2/64

not shut

end

copy running start

for test from R1

ping ipv6 2001:db8:aaaa::1

for test from R2

ping ipv6 2001:db8:aaaa::2

Question 2

Question Type: MultipleChoice

SIMULATION

Physical connectivity is implemented between the two Layer 2 switches, and the network connectivity between them must be configured

1. Configure an LACP EtherChannel and number it as 1; configure it between switches SW1 and SVV2 using interfaces Ethernet0/0 and Ethernet0/1 on both sides. The LACP mode must match on both ends
2. Configure the EtherChannel as a trunk link.
3. Configure the trunk link with 802.1 q tags.
4. Configure the native VLAN of the EtherChannel as VLAN 15.

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.

Options:

A- See the Explanation below

Answer:

A

Explanation:

Answer as below configuration:

On SW1:

```
conf terminal
```

```
vlan 15
```

```
exit
```

```
interface range eth0/0 - 1
```

```
channel-group 1 mode active
```

```
exit
```

```
interface port-channel 1
```

```
switchport trunk encapsulation dot1q
```

```
switchport mode trunk
```

```
switchport trunk native vlan 15
```

```
end
```

```
copy run start
```

```
on SW2:
```

```
conf terminal
```

```
vlan 15
```

```
exit
```

```
interface range eth0/0 - 1
```

```
channel-group 1 mode active
```

```
exit
```

```
interface port-channel 1
```

```
switchport trunk encapsulation dot1q
```

```
switchport mode trunk
```


switchport trunk native vlan 15

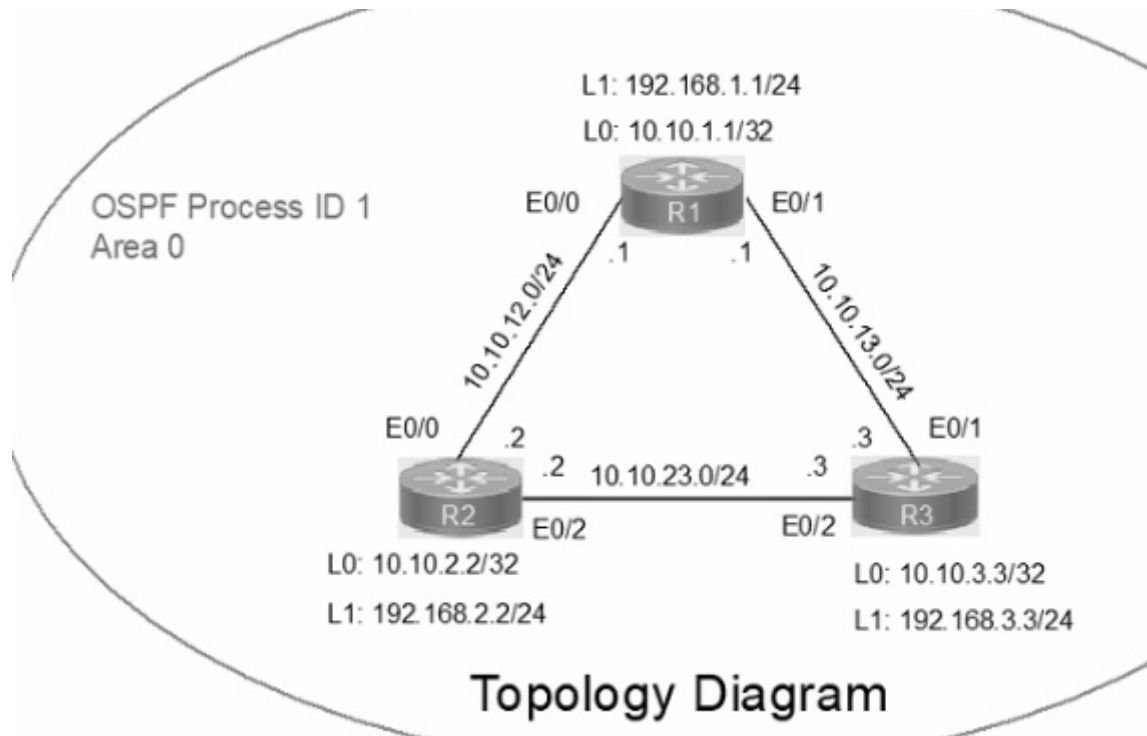
end

copy run start

Question 3

Question Type: MultipleChoice

SIMULATION



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 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.

Options:

A- See the Explanation below

Answer:

A

Explanation:

Answer as below configuration:

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

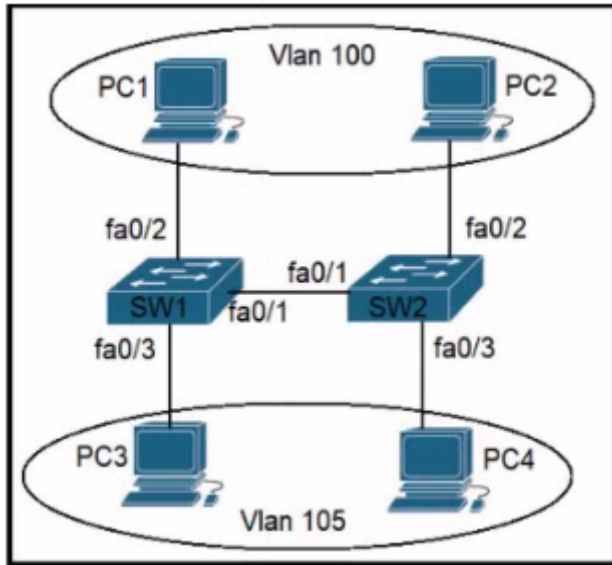
duplex auto


```
!  
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  
  
!
```

Question 4

Question Type: MultipleChoice

Refer to the exhibit.



An engineer configures interface fa0/1 on SW1 and SW2 to pass traffic from two different VLANs. For security reasons, company policy requires the native VLAN to be set to a nondefault value. Which configuration meets this requirement?

A)

```
Switch(config-if)#switchport mode trunk
Switch(config-if)#switchport trunk encapsulation isl
Switch(config-if)#switchport trunk allowed vlan 100,105
Switch(config-if)#switchport trunk native vlan 1
```

B)

```
Switch(config-if)#switchport mode access
Switch(config-if)#switchport trunk encapsulation dot1q
Switch(config-if)#switchport access vlan 100,105
Switch(config-if)#switchport trunk native vlan 3
```

C)

```
Switch(config-if)#switchport mode dynamic
Switch(config-if)#switchport access vlan 100,105
Switch(config-if)#switchport trunk native vlan 1
```

D)

```
Switch(config-if)#switchport mode trunk
Switch(config-if)#switchport trunk encapsulation dot1q
Switch(config-if)#switchport trunk allowed vlan 100,105
Switch(config-if)#switchport trunk native vlan 3
```

Options:

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

Answer:

D

Explanation:

Topic 5, Simulations / Lab

Question 5

Question Type: MultipleChoice

Which cable type must be used when connecting a router and switch together using these criteria?

- * Pins 1 and 2 are receivers and pins 3 and 6 are transmitters
- * Auto detection MDi-X is unavailable

Options:

- A-** straight-through
- B-** rollover
- C-** crossover

D- console

Answer:

B

Question 6

Question Type: MultipleChoice

Refer to the exhibit.

```
router# show ip route
....
D 172.16.32.0/26 [90/25789217] via 10.0.0.1
R 172.16.32.0/24 [120/4] via 10.0.0.2
O 172.16.32.0/19 [110/229840] via 10.0.0.3
C 172.16.32.32/32 is directly connected, Loopback0
C 172.16.32.4/30 is directly connected, GigabitEthernet0/0
```

A packet sourced from 172.16.32.254 is destined for 172.16.32.8. What is the subnet mask of the preferred destination route?

Options:

A- 255.255.224.0

B- 255.255.255.0

C- 255.255.255.192

D- 255.255.255.252

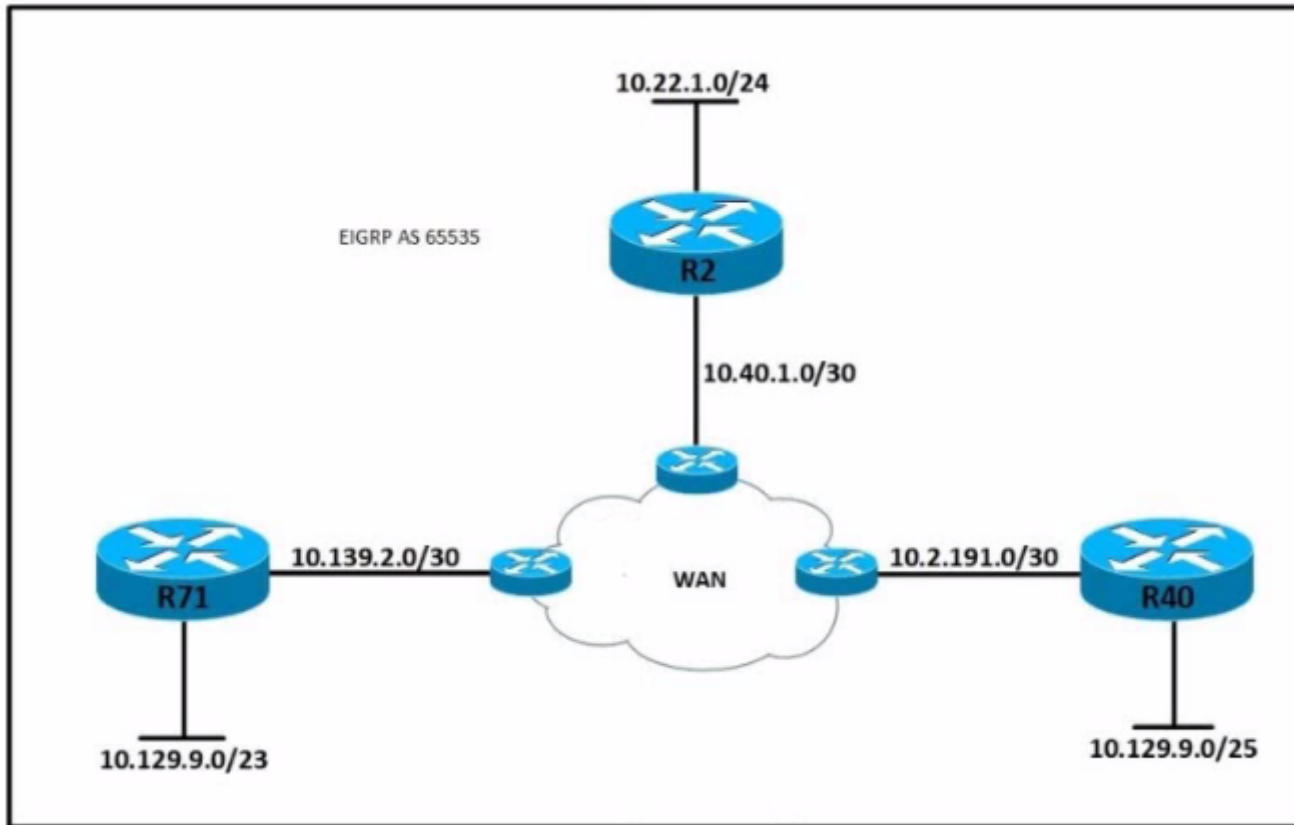
Answer:

C

Question 7

Question Type: MultipleChoice

Refer to the exhibit.



All routers in the network are configured correctly, and the expected routes are being exchanged among the routers. Which set of routes are learned from neighbors and installed on router 2?

A)

- 10.40.1.0/30
- 10.139.2.0/30
- 10.2.191.0/30
- 10.129.9.0/25

B)

10.129.9.0/23
10.139.2.0/30
10.2.191.0/30
10.129.9.0/25

10.129.9.0/23
10.139.2.0/30
10.129.9.0/25
10.22.1.0/24

D)

10.129.9.0/23
10.40.1.0/30
10.2.191.0/30
10.129.9.0/25

Options:

A- Option A

B- Option B

C- Option C

D- Option D

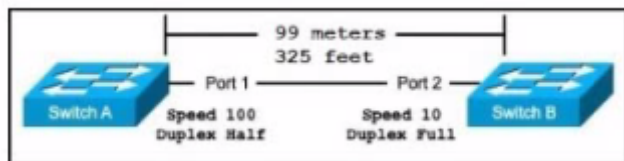
Answer:

A

Question 8

Question Type: MultipleChoice

Exhibit.



The switches are connected via a Cat5 Ethernet cable that was successfully tested. The Interfaces are configured as access ports and are both in a 'down' status. What is the cause of this issue?

Options:

- A- The switches are configured with incompatible duplex settings.
- B- The distance between the two switches is not supported by Cat5.
- C- The speed settings on the switches are mismatched.
- D- The portfast command is missing from the configuration.

Answer:

C

Question 9

Question Type: MultipleChoice

Which mechanism allows WPA3 to provide a higher degree of security than its predecessors?

Options:

- A- special-character support in preshared Keys
- B- SAE password-based key exchange
- C- automatic device pairing
- D- certificate-based authentication

Answer:

B

Question 10

Question Type: MultipleChoice

A router received three destination prefixes:10.0.0/18, and 10.0.0/24. When the show ip route command is executed, which output does it return?

A)

Gateway of last resort is 172.16.1.1 to network 0.0.0.0
o E2 10.0.0.0/8 [110/5] via 192.168.1.1, 0:01:00, Ethernet0

B)

Gateway of last resort is 172.16.1.1 to network 0.0.0.0
o E2 10.0.0.0/8 [110/5] via 192.168.1.1, 0:01:00, Ethernet0
o E2 10.0.0.0/16[110/5] via 192.168.2.1, 0:01:00, Ethernet1
o E2 10.0.0.0/24[110/5] via 192.168.3.1, 0:01:00, Ethernet2

C)

Gateway of last resort is 172.16.1.1 to network 0.0.0.0
o E2 10.0.0.0/24[110/5] via 192.168.3.1, 0:01:00, Ethernet2

D)

Gateway of last resort is 172.16.1.1 to network 0.0.0.0
o E2 10.0.0.0/16[110/5] via 192.168.2.1, 0:01:00, Ethernet1
o E2 10.0.0.0/24[110/5] via 192.168.3.1, 0:01:00, Ethernet2

Options:

A- Option A

B- Option B

C- Option C

D- Option D

Answer:

A

Question 11

Question Type: MultipleChoice

Refer to the exhibit.

```
{  
  "interfaces": ["ethernet8/3", "ethernet8/4", "ethernet8/5"]  
}
```

Which types of JSON data is shown

Options:

A- Object

B- Sequence

C- String

D- boolean

Answer:

C

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