Question 1

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
```

Options:

A- Option A

B- Option B

C- Option C

D- Option D

Answer:

A

Question 2

Question Type: **MultipleChoice**

IP connectivity and OSPF are preconfigured on all devices where necessary. Do not make any changes to the IP addressing or OSPF. The company policy uses connected interfaces and next hops when configuring static routes except for load balancing or redundancy without floating static. Connectivity must be established between subnet 172.20.20.128/25 on the Internet and the LAN at 192.168.0.0/24 connected to SW1:

1. Configure reachability to the switch SW1 LAN subnet in router R2.

2. Configure default reachability to the Internet subnet in router R1.

3. Configure a single static route in router R2 to reach to the Internet subnet considering both redundant links between routers R1 and R2. A default route is NOT allowed in router R2.

4. Configure a static route in router R1 toward the switch SW1 LAN subnet where the primary link must be through Ethernet0/1. and the backup link must be through Ethernet0/2 using a floating route. Use the minimal administrative distance value when required.

Options:

A- Explanation:

Answer as below configuration:

On R2:

Enable

Conf t

Ip route 192.168.1.0 255.255.255.0 10.10.31.1

On R1:

Enable

Conf t

Ip route 0.0.0.0 0.0.0.0 10.10.13.3

On R2

Ip route 172.20.20.128 255.255.255.128 e0/2

Ip route 172.20.20.128 255.255.255.128 e0/1

On R1

Ip route 192.168.0.0 255.255.255.0 e0/1

Ip route 192.168.0.0 255.255.255.0 10.10.12.2 3

Save all configurations after every router from anyone of these command

Do wr

Or

Copy run start

Question 3

Question Type: MultipleChoice

Connectivity between three routers has been established, and IP services must be configured jn the order presented to complete the implementation Tasks assigned include configuration of NAT, NTP, DHCP, and SSH services.

1. All traffic sent from R3 to the R1 Loopback address must be configured for NAT on R2. All source addresses must be translated from R3 to the IP address of Ethernet0/0 on R2, while using only a standard access list named NAT To verify, a ping must be successful to the R1 Loopback address sourced from R3. Do not use NVI NAT configuration.

2. Configure R1 as an NTP server and R2 as a client, not as a peer, using the IP address of the R1 Ethernet0/2 interface. Set the clock on the NTP server for midnight on January 1, 2019.

3. Configure R1 as a DHCP server for the network 10.1.3.0/24 in a pool named TEST. Using a single command, exclude addresses 1-10 from the range. Interface Ethernet0/2 on R3 must be issued the IP address of 10.1.3.11 via DHCP.

4. Configure SSH connectivity from R1 to R3, while excluding access via other remote connection protocols. Access for user root and password Cisco must be set on router R3 using RSA and 1024 bits. Verify connectivity using an SSH session from router R1 using a destination address of 10.1.3.11. Do NOT modify console access or line numbers to accomplish this task.

Options:

A- Explanation:

Answer as below configuration:

conf t

R1(config)#ntp master 1

R2(config)#ntp server 10.1.2.1

Exit

Router#clock set 00:00:00 jan 1 2019

ip dhcp pool TEST

network 10.1.3.0 255.255.255.0

ip dhcp exluded-address 10.1.3.1 10.1.3.10

R3(config)#int e0/3

R3(config)#int e0/2

ip address dhcp

no shut
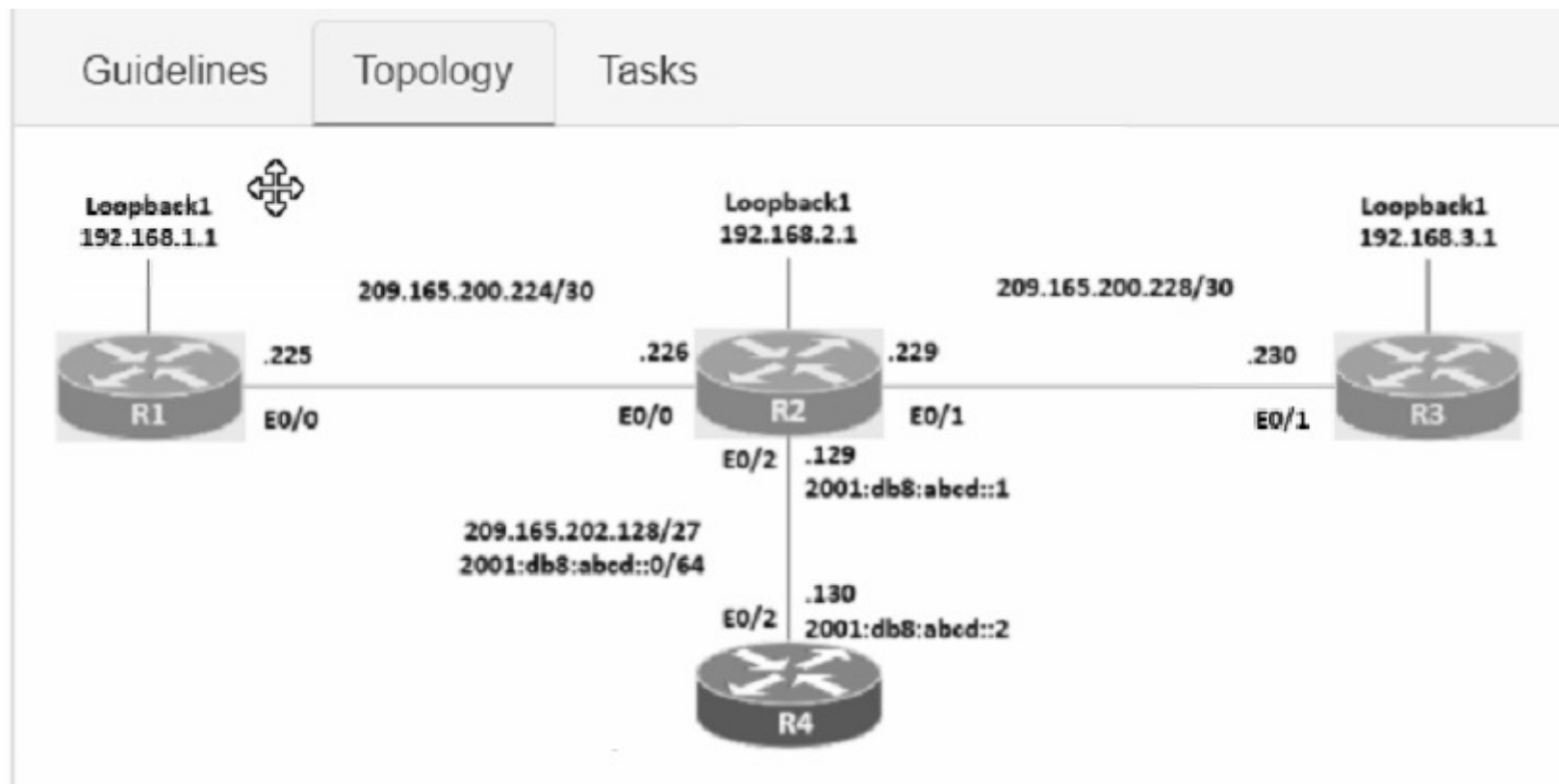
crypto key generate RSA

1024

Copy run start

Question 4

Question Type: **MultipleChoice**

Connectivity between four routers has been established. IP connectivity must be configured in the order presented to complete the implementation. No dynamic routing protocols are included.

1. Configure static routing using host routes to establish connectivity from router R3 to the router R1 Loopback address using the source IP of 209.165.200.230.

2. Configure an IPv4 default route on router R2 destined for router R4.

3. Configure an IPv6 default router on router R2 destined for router R4.

Loopback1
192.168.1.1

Loopback1
192.168.2.1

Loopback1
192.168.3.1

209.165.200.224/30

209.165.200.228/30

.225

.226   R2   .229

.230

R1

E0/0

E0/0   E0/1

E0/1   R3

E0/2   .129

2001:db8:abcd::1

209.165.202.128/27
2001:db8:abcd::0/64

.130

E0/2   2001:db8:abcd::2

R4

Options:

A- Explanation:

Answer as below configuration:

1.- on R3

config terminal

ip route 192.168.1.1 255.255.255.255 209.165.200.229

end

copy running start

2.- on R2

config terminal

ip route 0.0.0.0 0.0.0.0 209.165.202.130

end

copy running start

3.- on R2

config terminal

ipv6 route ::/0 2001:db8:abcd::2

end

copy running start

Answer:

A

Question 5

Question Type: MultipleChoice

Which WAN topology has the highest degree of reliability?

Answer:

A

Question 6

Question Type: MultipleChoice

Which command do you enter so that a switch configured with Rapid PVST + listens and learns for a specific time period?

Options:

A- switch(config)#spanning-tree vlan 1 max-age 6

B- switch(config)#spanning-tree vlan 1 hello-time 10

C- switch(config)#spanning-tree vlan 1 priority 4096

D- switch(config)#spanning-tree vlan 1 forward-time 20

Answer:

D

Explanation:

Forward time : Determines how long each of the listening and learning states last before the port begins forwarding.

Switch(config)# [no] spanning-tree vlan vlan_ID forward-time forward_time Configures the forward time of a VLAN. The forward_time value can be from 4 to 30 seconds.

https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst4500/12-2/15-02SG/configuration/guide/config/spantree.html#56177
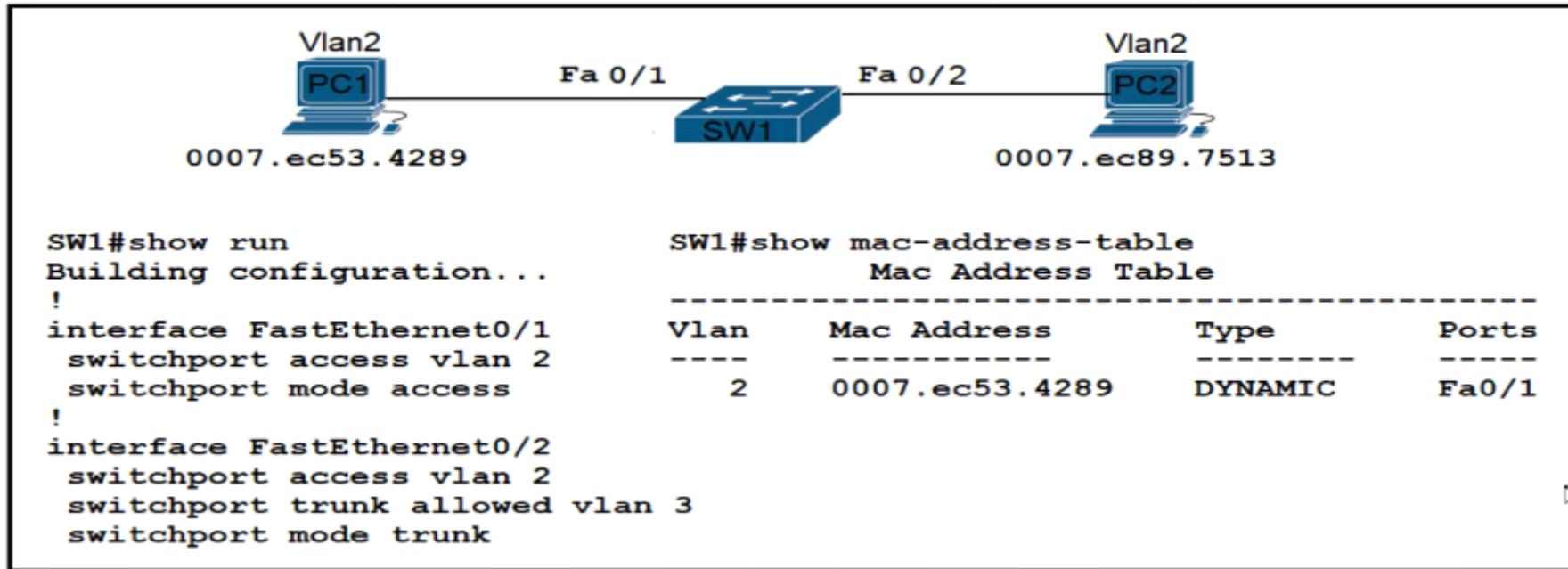
Question 7

Question Type: **MultipleChoice**

Refer to the exhibit.

```
            Vlan2                                         Vlan2
            ┌────┐      Fa 0/1          Fa 0/2           ┌────┐
            │PC1 │                                       │PC2 │
            └────┘                   ┌──────┐            └────┘
         ▗▄▄▄▄▄▄▖                    │ SW1  │         ▗▄▄▄▄▄▄▖
       0007.ec53.4289                └──────┘       0007.ec89.7513
```

```
SW1#show run                      SW1#show mac-address-table
Building configuration...                 Mac Address Table
!                                 ------------------------------------------------
interface FastEthernet0/1         Vlan      Mac Address        Type        Ports
  switchport access vlan 2        ----      -----------        --------    -----
  switchport mode access            2       0007.ec53.4289     DYNAMIC     Fa0/1
!
interface FastEthernet0/2
  switchport access vlan 2
  switchport trunk allowed vlan 3
  switchport mode trunk
```

An engineer has started to configure replacement switch SW1. To verify part of the configuration, the engineer issued the commands as shown and noticed that the entry for PC2 is missing. Which change must be applied to SW1 so that PC1 and PC2 communicate normally?

A)

```
SW1(config)#interface fa0/2
SW1(config-if)#no switchport mode trunk
SW1(config-if)#no switchport trunk allowed vlan 3
SW1(config-if)#switchport mode access
```

B)

```
SW1(config)#interface fa0/1
SW1(config-if)#no switchport access vlan 2
SW1(config-if)#switchport trunk native vlan 2
SW1(config-if)#switchport trunk allowed vlan 3
```

C)

```
SW1(config)#interface fa0/1
SW1(config-if)#no switchport access vlan 2
SW1(config-if)#switchport access vlan 3
SW1(config-if)#switchport trunk allowed vlan 2
```

D)

```
SW1(config)#interface fa0/2
SW1(config-if)#no switchport access vlan 2
SW1(config-if)#no switchport trunk allowed vlan 3
SW1(config-if)#switchport trunk allowed vlan 2
```

Options:

A- Option A

B- Option B

C- Option C

D- Option D

Answer:

A

Question 8

Which type of API allows SDN controllers to dynamically make changes to the network?

Options:

A- northbound API

B- REST API

C- SOAP API

D- southbound API

Answer:

D

Explanation:

Cisco overview doc for SDN here: https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Data_Center/VMDC/SDN/SDN.html

Topic 3, Exam Pool C

Question 9

What is a function of a Layer 3 switch?

Options:

A- move frames between endpoints limited to IP addresses

B- transmit broadcast traffic when operating in Layer 3 mode exclusively

C- forward Ethernet frames between VLANs using only MAC addresses

D- flood broadcast traffic within a VLAN

Answer:

A

Question 10

What are two characteristics of a controller-based network? (Choose two)

Options:

A- The administrator can make configuration updates from the CLI

B- It uses northbound and southbound APIs to communicate between architectural layers

C- It moves the control plane to a central point.

D- It decentralizes the control plane, which allows each device to make its own forwarding decisions

E- It uses Telnet to report system issues.

Answer:

B, C

Question 11

Question Type: **MultipleChoice**

A network administrator enabled port security on a switch interface connected to a printer. What is the next configuration action in order to allow the port to learn the MAC address of the printer and insert it into the table automatically?

Options:

A- enable dynamic MAC address learning

B- implement static MAC addressing.

C- enable sticky MAC addressing

D- implement auto MAC address learning

Answer:

C

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