Free Questions for 200-301 by certsinside

Shared by Mueller on 18-01-2024

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Question 1

Refer to exhibit.
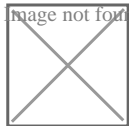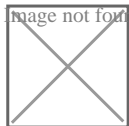

IP connectivity and OSPF are preconfigured on all devices where necessary. Do not make any changes to the IP addressing or OSPF. The company policy uses connected interfaces and next hops when configuring static routes except for load balancing or redundancy without floating static. Connectivity must 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) See the Explanation below

Answer:

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
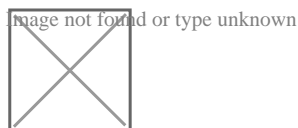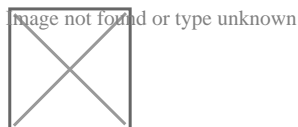
Do wr

Or

Copy run start

Question 2

Refer to exhibit.

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) See the Explanation below

Answer:

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

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Question 3

Refer to exhibit.

Three switches must be configured for Layer 2 connectivity. The company requires only the designated VLANs to be configured on their respective switches and permitted accross any links between switches for security purposes. Do not modify or delete VTP configurations.

The network needs two user-defined VLANs configured:

VLAN 110: MARKETING

VLAN 210: FINANCE

1. Configure the VLANs on the designated switches and assign them as access ports to the interfaces connected to the PCs.

2. Configure the e0/2 interfaces on Sw1 and Sw2 as 802.1q trunks with only the required VLANs permitted.

3. Configure the e0/3 interfaces on Sw2 and Sw3 as 802.1q trunks with only the required VLANs permitted.

Options:

A) See the Explanation below

Answer:

A

Explanation:

Answer as below configuration:

Sw1

enbale

config t

Vlan 210

Name FINANCE

Inter e0/1

Switchport access vlan 210

do wr

Sw2

Enable

config t

```
Vlan 110

Name MARKITING

Int e0/1

Switchport acees vlan 110

do wr

Sw3

Enable

config t

Vlan 110

Name MARKITING

Vlan 210

Name FINANCE

Int e0/0

Switchport access vlan 110

Int e0/1
```

Switchport access vlan 210

Sw1

Int e0/1

Switchport allowed vlan 210

Sw2

Int e0/2

Switchport trunk allowed vlan 210

Sw3

Int e0/3

Switchport trunk allowed vlan 210
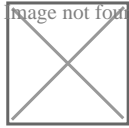
Switchport trunk allowed vlan 210,110

Question 4

Question Type: **MultipleChoice**

Refer to exhibit.

All physical cabling between the two switches is installed. Configure the network connectivity between the switches using the designated VLANs and interfaces.

1. Configure VLAN 100 named Compute and VLAN 200 named Telephony where required for each task.

2. Configure Ethernet0/1 on SW2 to use the existing VLAN named Available.

3. Configure the connection between the switches using access ports.

4. Configure Ethernet0/1 on SW1 using data and voice VLANs.

5. Configure Ethemet0/1 on SW2 so that the Cisco proprietary neighbor discovery protocol is turned off for the designated interface only.

Options:

A) See the Explanation below

Answer:

A

Explanation:

Answer as below configuration:

on sw1

enable

conf t

vlan 100

name Compute

vlan 200

name Telephony

int e0/1

switchport voice vlan 200

switchport access vlan 100

int e0/0

switchport mode access

do wr

on sw2

Vlan 99

Name Available

Int e0/1

Switchport access vlan 99

do wr

Question 5

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.

Options:

A) See the Explanation below

Answer:

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

Question 6

Question Type: **MultipleChoice**

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.
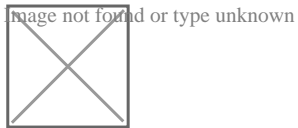
Options:

A) See the Explanation below

Answer:

A

Explanation:

Answer as below configuration:

on R1

config terminal

ipv6 unicast-routing

inter eth0/1

ip addre 192.168.1.1 255.255.255.240

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

not shut

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 7

Question Type: MultipleChoice

Refer to exhibit.

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 8

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:

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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) See the Explanation below

Answer:

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
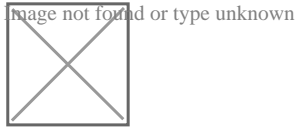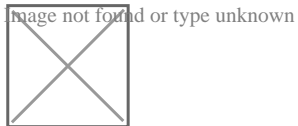
Do wr

Or

Copy run start

Question 9

Refer to the exhibit.

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?

Options:

A) Option A

B) Option B
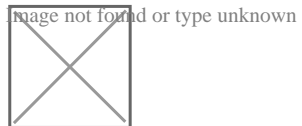
C) Option C

D) Option D

Answer:

B

Question 10

Question Type: **MultipleChoice**

Refer to the exhibit.

Refer to the exhibit Router R1 Fa0/0 is unable to ping router R3 Fa0'1. Which action must be taken in router R1 to help resolve the configuration issue?

Options:

A) set the default network as 20.20.20.0/24

B) set the default gateway as 20.20.20.2

C) configure a static route with Fa0/1 as the egress interface to reach the 20.20.20.0/24 network

D) configure a static route with 10.10.10.2 as the next hop to reach the 20.20.20.0/24 network

Answer:

D

Question 11

Question Type: **MultipleChoice**

Refer to the exhibit.

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

Image not found or type unknown

Options:

A) Option A

B) Option B

C) Option C

D) Option D

Answer:

B