

# Free Questions for 300-510 by certsdeals

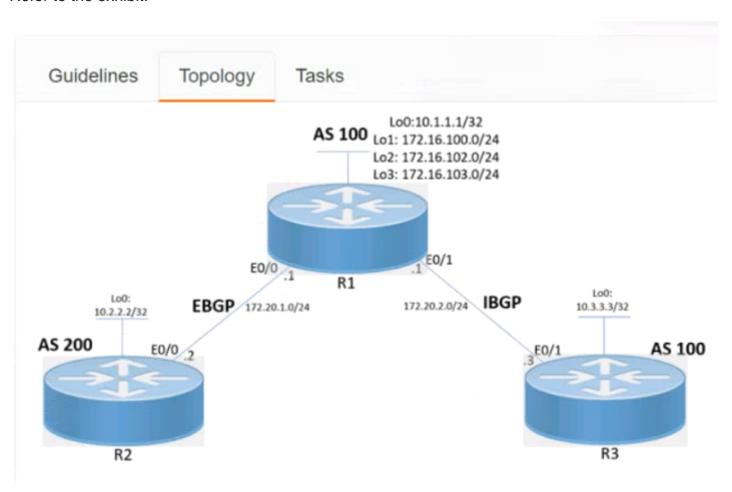
Shared by Castro on 20-10-2022

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## **Question 1**

### **Question Type:** MultipleChoice



Troubleshoot and configure BGP according to the topology to achieve these goals:

- 1. R1 and R3 establishes IBGP connectivity using Loopback addresses. The updates should come from Loopback0.
- 2. R3 should be able to ping loopback0 interface of R2. These changes must be accomplished through BGP.
- 3. R1 advertises only the summary route of 172.16.100.0/22 to R2 and R3.

Submit feedback about this item.

### **Options:**

### A- Explanation:

Solution:-

R1

Router bgp 100

Neigh 10.3.3.3 remote-as 100

Neigh 10.3.3.3 update-source loopback0

Address-family ipv4

Neigh 10.3.3.3 next-hop-self

Aggregate-address 172.16.100.0 255.255.252.0 summary-only

Copy run start

R3

Router bgp 100

Neigh 10.1.1.1 remote-as 100

Neigh 10.1.1.1 update-source loopback 0

Copy run start

Verification:-

```
R3#ping 10.2.2.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.2.2.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1
/1/1 ms
R3#
```

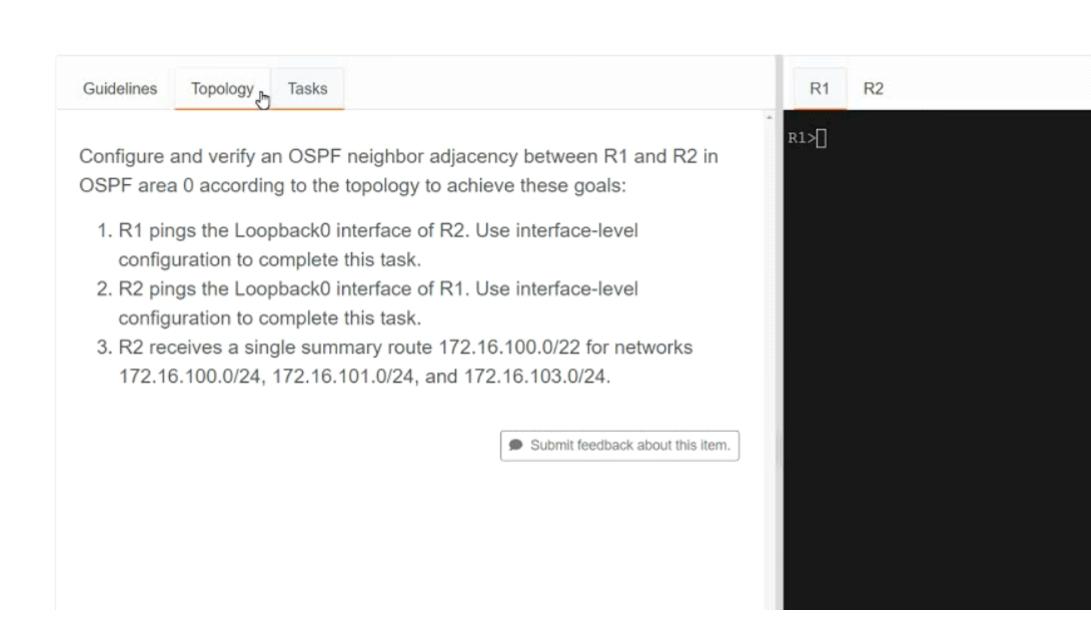
```
R3#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mob
ile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF in
ter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA externa
1 type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2
- IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-
user static route
       o - ODR, P - periodic downloaded static route, H - NHR
P, 1 - LISP
       a - application route
       + - replicated route, % - next hop override, p - overr
ides from PfR
Gateway of last resort is not set
      10.0.0.0/32 is subnetted, 3 subnets
         10.1.1.1 [1/0] via 172.20.2.1
         10.2.2.2 [200/0] via 10.1.1.1, 00:00:19
C
         10.3.3.3 is directly connected, Loopback0
      172.16.0.0/22 is subnetted, 1 subnets
         172.16.100.0 [200/0] via 10.1.1.1, 00:00:02
В
      172.20.0.0/16 is variably subnetted, 3 subnets, 2 masks
         172.20.1.0/24 [200/0] via 10.1.1.1, 00:00:19
В
C
         172.20.2.0/24 is directly connected, Ethernet0/1
         172.20.2.3/32 is directly connected, Ethernet0/1
R3#
```

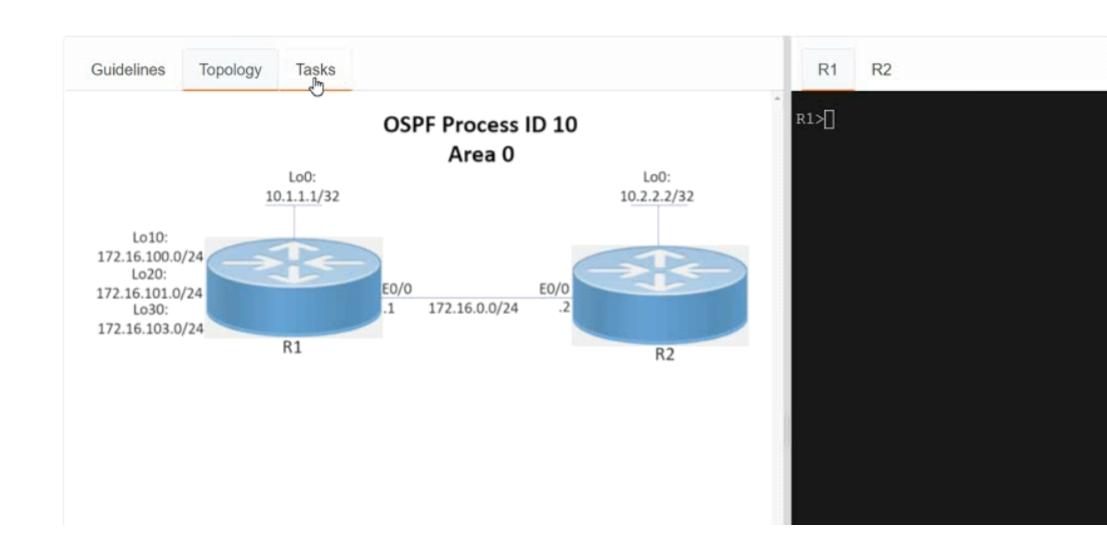
### **Answer:**

Α

## **Question 2**

**Question Type:** MultipleChoice





```
R1>en
R1#sh run
Building configuration...
Current configuration: 1302 bytes
version 15.8
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
hostname R1
boot-start-marker
boot-end-marker
no aaa new-model
clock timezone PST -8 0
mmi polling-interval 60
no mmi auto-configure
no mmi pvc
 --More--
```

```
!
interface Loopback0
ip address 10.1.1.1 255.255.255.255
!
interface Loopback10
ip address 172.16.100.1 255.255.255.0
ip ospf 10 area 1
!
interface Loopback20
ip address 172.16.101.1 255.255.255.0
ip ospf 10 area 1
!
interface Loopback30
ip address 172.16.103.1 255.255.255.0
ip ospf 10 area 1
!
```

```
interface Loopback10
 ip address 172.16.100.1 255.255.255.0
 ip ospf 10 area 1
interface Loopback20
 ip address 172.16.101.1 255.255.255.0
 ip ospf 10 area 1
interface Loopback30
 ip address 172.16.103.1 255.255.255.0
 ip ospf 10 area 1
interface Ethernet0/0
 ip address 172.16.0.1 255.255.255.0
 ip ospf 10 area 0
 duplex auto
interface Ethernet0/1
 no ip address
 shutdown
 duplex auto
interface Ethernet0/2
 no ip address
 shutdown
 duplex auto
interface Ethernet0/3
 no ip address
 shutdown
 duplex auto
router ospf 10
 router-id 10.1.1.1
```

```
R1 R2
```

```
R2>
R2>
R2>
R2>
R2>en
R2#sh run
Building configuration...
Current configuration: 1059 bytes
version 15.8
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
hostname R2
boot-start-marker
boot-end-marker
no aaa new-model
clock timezone PST -8 0
mmi polling-interval 60
no mmi auto-configure
no mmi pvc
 --More--
```

```
!
!
!
!
interface Loopback0
ip address 10.2.2.2 255.255.255
!
interface Ethernet0/0
ip address 172.16.0.2 255.255.255.0
ip ospf 10 area 0
duplex auto
!
interface Ethernet0/1
no ip address
shutdown
duplex auto
!
interface Ethernet0/2
no ip address
```

```
R1 R2
interface Ethernet0/0
 ip address 172.16.0.2 255.255.255.0
 ip ospf 10 area 0
 duplex auto
interface Ethernet0/1
 no ip address
 shutdown
 duplex auto
interface Ethernet0/2
 no ip address
 shutdown
 duplex auto
interface Ethernet0/3
 no ip address
 shutdown
 duplex auto
router ospf 10
 router-id 10.2.2.2
ip forward-protocol nd
no ip http server
no ip http secure-server
ipv6 ioam timestamp
```

control-plane

### **Options:**

**A-** Explanation:

Solution:-

R1

Int loopback0

Ip ospf 10 area 0

Int loopback10

Ip ospf network point-to-point

Int loopback20

Ip ospf network point-to-point

Int loopback30

Ip ospf network point-to-point

Router ospf 10

Area 1 range 172.16.100.0 255.255.252.0

Copy run start

Verification: -

```
R2#sh ip route ospf
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BG
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS lev
e1-2
       ia - IS-IS inter area, * - candidate default, U - per-user static
 route
       o - ODR, P - periodic downloaded static route, H - NHRP, 1 - LISP
       a - application route
       + - replicated route, % - next hop override, p - overrides from P
fR
Gateway of last resort is not set
      10.0.0.0/32 is subnetted, 2 subnets
         10.1.1.1 [110/11] via 172.16.0.1, 00:02:25, Ethernet0/0
      172.16.0.0/16 is variably subnetted, 3 subnets, 3 masks
         172.16.100.0/22 [110/11] via 172:16.0.1, 00:00:50, Ethernet0/0
O IA
R2#
```

#### **Answer:**

## **Question 3**

### **Question Type:** MultipleChoice

Which type of BGP attribute does a route reflector attach to routes learned from iBGP peers that allows them to be accepted by other iBGP peers, thereby eliminating the need for a full-mesh BGP topology?

### **Options:**

- A- well-known mandatory
- **B-** optional transitive
- **C-** well-known discretionary
- D- optional non transitive

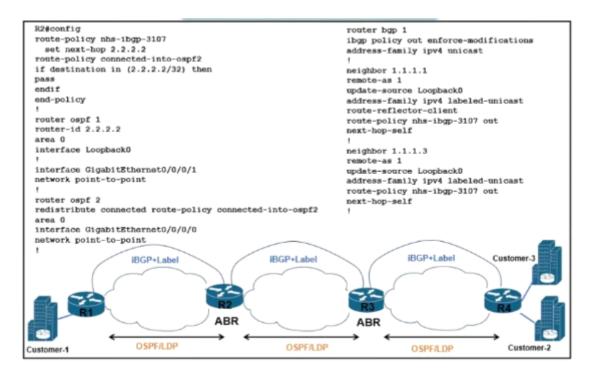
#### **Answer:**

D

### **Question 4**

**Question Type:** MultipleChoice

Refer to the exhibit.



There is a connectivity issue between Customer-1 and Customer-2 File servers between the customers cannot send critical data R3 routes are missing from the routing table on the Customer-1 router All interlaces on Customer-1 are up Which configuration must be applied to router R2 to correct the problem?

orouter bgp 1
address-family vpnv4 unicast
allocate-label all

orouter bgp 1
vrf one
rd 1:1
address-family ipv4 unicast
allocate-label all

orouter bgp 1
neighbor
remote-as 1
update-source Loopback0
address-family ipv4 labeled-unicast
allocate-label all

orouter bgp 1
address-family ipv4 unicast
allocate-label all

### **Options:**

A- Option A

**B-** Option B

C- Option C

D- Option D

### **Answer:**

D

## **Question 5**

Refer to the exhibit.

```
ip route 0.0.0.0 0.0.0.0 192.168.0.1 router isis redistribute static
```

An administrator is troubleshooting Internet access issues on a customer's network. After applying this ISIS configuration to R1, the administrator notices that it fails to redistribute the default route into IS-IS. After checking the connectivity between the ISIS router and the ISP router the engineer confirmed there is Layer 3 connectivity between them Which action should be taken to correct the problem?

### **Options:**

- A- Associate the default route with a VRF
- B- Add the default-information originate command to the configuration
- C- Configure the default route under any routing protocol other than IS-IS
- D- Configure R1 as a Layer 1 router

#### **Answer:**

В

### **Question 6**

**Question Type:** MultipleChoice

```
R2
R1
interface FastEthernet0/0
                                    interface FastEthernet0/0
 ip address 192.168.1.1
                                     ip address 192.168.1.2
 255.255.255.0
                                     255.255.255.0
 ip ospf authentication
                                     ip ospf authentication-key Cisco
 ip ospf authentication-key Cisco
                                     ip ospf 1 area 0
 ip ospf 1 area 0
                                     speed auto
 speed auto
                                     duplex auto
 duplex auto
                                    router ospf 1
router ospf 1
                                     log-adjacency-changes
 log-adjacency-changes
                                     area 0 authentication
 area 0 authentication
                                    message-digest
message-digest
```

While applying the configurations on two routers an engineer notices that OSPF adjacency Between them remains down Through the ping test the engineer confirmed that both me routers have Layer 3 reachability between them Which action should me engineer take to make the adjacencies to full?

### **Options:**

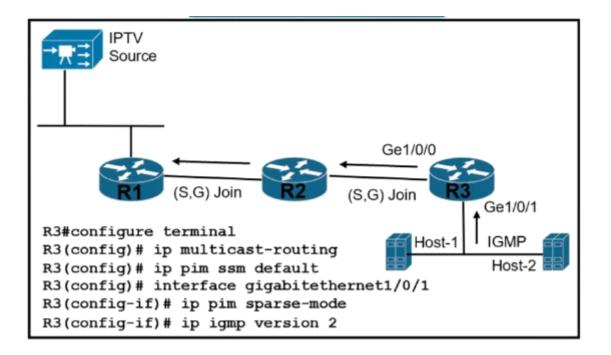
- A- Enter the command ip ospf authentication in R2 interface
- B- Enable OSPF just inside the router OSPF process not in the interfaces of any router
- C- Delete the area 0 authentication message-digest command from the OSPF process in R1
- D- Delete the area 0 authentication message-digest command from the OSPF process in R2

#### **Answer:**

Α

### **Question 7**

**Question Type:** MultipleChoice



A customer reports that Host-1 is failing to receive streaming traffic from the IPTV source. The engineer has confirmed that hosts on router R2 are receiving traffic normally and that Host-1 is correctly sending subscription messages to join the IPTV stream. Which action must the engineer take to correct the problem?

### **Options:**

- A- Configure IP PIM SSM and IGMP version 2 under interface GigatxtEthernet 1/0/1 on R3
- B- Configure IGMP version 3 under interface GigabitEthernet 1/(V1 on R3
- C- Remove IP PIM SSM and IGMP from interface GigaEthernet 1/0/1 on R3 and configure under global configuration

D- Remove IP PIM SSM from the global configuration on R3 and configure it under the GigabitEthernet 1/0/1 interface

### **Answer:**

В

### **Question 8**

#### **Question Type:** MultipleChoice

An engineer is troubleshooting slow performance issues on a customer's network after the last multicast configuration change was applied on it While checking the running configuration on the router the engineer notices there are many ip igmp join-group commands applied on several interfaces of the router which caused the high CPU utilization usage. What action must the engineer take to solve this issue?

### **Options:**

- A- Configure ip igmp static-group command on all interfaces
- B- Remove ip igmp join-group command on all unnecessary interfaces
- C- Configure all router interfaces to be process-switched by increasing the query interval

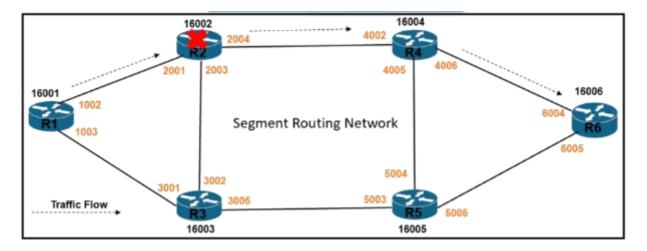
**D-** Remove unnecessary members from the IGMP group

### **Answer:**

В

## **Question 9**

### **Question Type:** MultipleChoice



Traffic flow from router R1 to router R6 is delay-sensitive It must consider potential link-failure and node-failure conditions Which configuration must an engineer apply to router R1 to route traffic to router R6 if router R2 fails?

- router ospf 1
   area 1
   interface GigabitEthernet0/0/1
   fast-reroute per-prefix
   fast-reroute per-prefix tiebreaker node-protecting index 100
   fast-reroute per-prefix tiebreaker srlg-disjoint index 200
- router ospf 1
   area 1
   interface GigabitEthernet0/0/1
   fast-reroute per-prefix
   fast-reroute per-prefix ti-lfa
   fast-reroute per-prefix tiebreaker node-protecting index 100
- router ospf 1
   area 1
   interface GigabitEthernet0/0/1
   fast-reroute per-prefix
   fast-reroute per-prefix ti-lfa
- router ospf 1
   area 1
   interface GigabitEthernet0/0/1
   fast-reroute per-prefix
   fast-reroute per-prefix ti-lfa
   fast-reroute per-prefix tiebreaker srlg-disjoint index 100

Options:			
A- Option A			
B- Option B			
C- Option C			
D- Option D			
Answer:			
В			·

## **Question 10**

**Question Type:** MultipleChoice

```
show ip route ospf
     192.168.1.0/24 [110/11] via 172.16.14.1, 01:17:30, Ethernet0/0
O IA 192.168.2.0/24 [110/21] via 172.16.14.1, 00:49:23, Ethernet0/0
O IA 192.168.3.0/24 [110/21] via 172.16.14.1, 00:47:37, Ethernet0/0
O IA 192.168.20.0/24 [110/21] via 172.16.14.1, 00:49:08, Ethernet0/0
O IA 192.168.21.0/24 [110/21] via 172.16.14.1, 01:11:23, Ethernet0/0
O IA 192.168.22.0/24 [110/21] via 172.16.14.1, 01:11:13, Ethernet0/0
O IA 192.168.23.0/24 [110/21] via 172.16.14.1, 01:11:03, Ethernet0/0
O IA 192.168.32.0/24 [110/21] via 172.16.14.1, 00:47:50, Ethernet0/0
O IA 192.168.33.0/24 [110/21] via 172.16.14.1, 01:04:37, Ethernet0/0
O IA 192.168.34.0/24 [110/21] via 172.16.14.1, 00:02:26, Ethernet0/0
O IA 192.168.35.0/24 [110/21] via 172.16.14.1, 00:02:16, Ethernet0/0
O IA 192.168.36.0/24 [110/21] via 172.16.14.1, 00:02:06, Ethernet0/0
O IA 192.168.37.0/24 [110/21] via 172.16.14.1, 00:01:56, Ethernet0/0
O IA 192.168.38.0/24 [110/21] via 172.16.14.1, 00:01:43, Ethernet0/0
O IA 192.168.39.0/24 [110/21] via 172.16.14.1, 00:01:28, Ethernet0/0
```

An engineer applied the summarization configuration on R1 for four networks (192.168.20.0/24 to 192.168.23.0/24) in area 1 and eight networks (192.168.32.0/24 to 192.168.39.0/24) in area 2 to stop the flooding of all the customer routes. While checking the routing table of R2, the engineer noticed that R1 is still sending only specific routes to R2. Which configuration should the engineer apply on R1 to summarize routes?

- R1(config)# router ospf 1 R1(config-router)# area 1 range 192.168.20.0 255.255.252.0 R1(config-router)# area 2 range 192.168.32.0 255.255.240.0
- R1(config)# router ospf 1 R1(config-router)# area 1 range 192.168.20.0 255.255.248.0 R1(config-router)# area 2 range 192.168.32.0 255.255.240.0
- R1(config)# router ospf 1 R1(config-router)# area 1 range 192.168.20.0 255.255.252.0 R1(config-router)# area 2 range 192.168.32.0 255.255.248.0
- R1(config)# router ospf 1 R1(config-router)# area 1 range 192.168.20.0 255.255.252.0 R1(config-router)# area 2 range 192.168.32.0 255.255.253.0

### **Options:**

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

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