



# 642-661<sup>Q&As</sup>

CCIP Configuring BGP on Cisco Routers (BGP)

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**QUESTION 1**

Why can using the ip tcp path-mtu-discovery command improve BGP convergence?

- A. Smaller MSS sizes may reduce BGP convergence times.
- B. BGP is enabled to fragment its large update packets.
- C. The BGP memory requirements on routers are reduced.
- D. Single packet sizes in TCP sessions are limited.
- E. BGP is allowed to use a larger TCP window size.

Correct Answer: E

---

**QUESTION 2**

Based on the following show ip bgp neighbor 10.1.1.1 output, what is the neighbor relationship?

```
R-1 #show ip bgp neighbor 10.1.1.1 BGP neighbor is 10.1.1.1, remote AS 65002, external link Index 2, Offset 0, Mask 0x4 BGP version 4, remote router ID 12.1.2.3 Neighbor under common administration BGP state = Established, table version = 5, up for 00:09:15 Last read 00:00:16, hold time is 180, keepalive interval is 60 seconds Minimum time between advertisement runs is 30 seconds Received 13 messages, 0 notifications, 0 in queue Sent 13 messages, 0 notifications, 0 in queue Prefix advertised 1, suppressed 0, withdrawn 0 Connections established 1; dropped 0 Last reset never 1 accepted prefixes consume 32 bytes 0 history paths consume 0 bytes External BGP neighbor may be up to 255 hops away
```

- A. Neighbor 10.1.1.1 is a regular EBGP neighbor.
- B. Neighbor 10.1.1.1 is an Intra-Confederation IBGP neighbor.
- C. Neighbor 10.1.1.1 is an Intra-Confederation EBGP neighbor.
- D. Neighbor 10.1.1.1 is an IBGP neighbor that belongs to the same AS as R-1.

Correct Answer: C

---

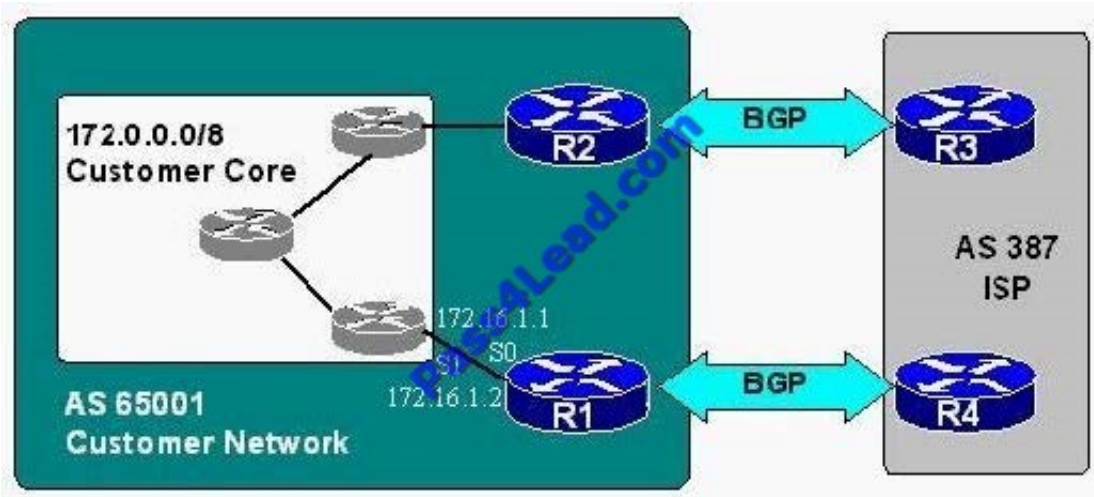
**QUESTION 3**

Which two configuration commands will complete the BGP configuration on R1 so it will conditionally announce the 172.0.0.0/8 prefix to R4 via BGP? (Choose two.)hostname R1!!output omitted!1.

```
_____router bgp
```

```
65001neighbor 172.16.1.1 remote-as 65001neighbor 2.2.2.2 remote-as 65001neighbor 4.4.4.4 remote-as 3872.
```

```
_____!
```



- A. 2. network 172.0.0.0 mask 255.0.0.0
- B. 1. ip route 172.0.0.0 255.0.0.0 172.16.1.1
- C. 2. network 172.16.0.0 auto-summary
- D. 1. ip route 172.0.0.0 255.0.0.0 null0 255
- E. 1. ip route 172.0.0.0 255.0.0.0 null0
- F. 2. aggregate-address 172.0.0.0 mask 255.0.0.0

Correct Answer: AB

#### QUESTION 4

Which three of these statements describe a transit AS? (Choose three.)

- A. It uses recursive routing lookup when forwarding packets toward external destinations.
- B. Core IGP can be scaled using route reflectors.
- C. It uses IGP routing information to reach the BGP next-hop.
- D. Core IGP stability can be improved using BGP route dampening.
- E. BGP split horizon and synchronization are disabled.
- F. All core routers run IBGP and IGP.

Correct Answer: ACF

#### QUESTION 5



```
Router # show ip bgp 172.31.1.0
```

```
BGP routing table entry for 172.31.1.0/24, version 15 Paths: (2 available, best #2, table Default-IF-Routing-Table)
```

```
Advertised to non peer-group peers:
```

```
10.1.0.2 10.200.200.3 10.200.200.4 172.31.11.1
```

```
65100
```

```
172.31.1.1 from 10.1.0.2 (10.200.200.2)
```

```
Origin IGP, metric 0, localpref 100, valid, internal 65100
```

```
172.31.1.1 from 172.31.1.1 (172.31.1.1)
```

```
Origin IGP, metric 0, localpref 100, valid, external, best
```

Based on the output shown in the exhibit, which two statements are correct? (Choose two)

- A. The eBGP route to 172.31.1.0/24 is preferred over the iBGP route to 172.31.1.0/24.
- B. 172.31.1.1 is an iBGP peer.
- C. 10.1.0.2 is an iBGP peer.
- D. 10.200.200.3 is an eBGP peer.

Correct Answer: AC

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