



# JN0-351<sup>Q&As</sup>

Enterprise Routing and Switching Specialist (JNCIS-ENT)

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## QUESTION 1

Exhibit

```
Exhibit

R1 - 10.100.24.2
R2 - 10.100.25.2
user@router# run show route protocol bgp 192.168.10.0/24
inet.0: 18 destinations, 20 routes (18 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both
192.168.10.0/24    *[BGP/170] 00:00:30, localpref 500
                  AS path: 64533 I, validation-state: unverified
                  > to 10.100.24.2 via ge-0/0/0.0
                  [BGP/170] 00:00:00, localpref 100
                  AS path: 64533 64533 64533 64533 64544 ?, validation-
state: unverified
                  > to 10.100.25.2 via ge-0/0/1.0
```

You are troubleshooting an issue where traffic to 192.168.10.0/24 is being sent to R1 instead of your desired path through R2.

Referring to the exhibit, what is the reason for the problem?

- A. R2's route is not the best path due to loop prevention.
- B. R2's route is not the best path due to a lower origin code.
- C. R1's route is the best path due to a higher local preference
- D. R1's route is the best path due to the shorter AS path.

Correct Answer: C

The exhibit shows the output of the command `show ip bgp`, which displays information about the BGP routes in the routing table<sup>1</sup>. The output shows two routes for the destination 192.168.10.0/24, one from R1 and one from R2. The route from R1 has a local preference of 200, while the route from R2 has a local preference of 100. Local preference is a BGP attribute that indicates the degree of preference for a route within an autonomous system (AS)<sup>2</sup>. A higher local preference means a more preferred route<sup>2</sup>. BGP uses a best path selection algorithm to choose the best route for each destination among multiple paths. The algorithm compares different attributes of the routes in a specific order of precedence<sup>3</sup>. The first attribute that is compared is weight, which is a Cisco-specific attribute that is local to the router<sup>3</sup>.



If the weight is equal or not set, the next attribute that is compared is local preference<sup>3</sup>. In this case, both routes have the same weight of 0, which means that they are learned from external BGP (eBGP) peers<sup>3</sup>. Therefore, the next attribute that is compared is local preference. Since R1's route has a higher local preference than R2's route, it is chosen as the best path and installed in the routing table<sup>3</sup>. The other attributes, such as origin code and AS path, are not considered in this case.

## QUESTION 2

You are troubleshooting OSPF issues on your device. You run a trace log and receive the error shown in the exhibit.

```
Apr 13 20:25:26.594363 OSPF sent Hello 10.0.1.11 -> 224.0.0.5 (ge-0/0/0.0 IFL 74 area 0.0.0.1)
Apr 13 20:25:26.594372   Version 2, length 44, ID 10.0.1.11, area 0.0.0.1
Apr 13 20:25:26.594375   mask 255.255.255.0, hello_ivl 10, opts 0x10, prio 128
Apr 13 20:25:26.594378   dead_ivl 40, DR 0.0.0.0, BDR 0.0.0.0
Apr 13 20:25:26.650504 OSPF built router LSA, area 0.0.0.1, link count 1
Apr 13 20:25:34.001413 OSPF rcvd Hello 10.0.1.1 -> 224.0.0.5 (ge-0/0/0.0 IFL 74 area 0.0.0.1)
Apr 13 20:25:34.001451   Version 2, length 44, ID 10.0.1.1, area 0.0.0.1
Apr 13 20:25:34.001454   checksum 0x0, authtype 0
Apr 13 20:25:34.001458   mask 255.255.255.0, hello_ivl 10, opts 0x12, prio 128
Apr 13 20:25:34.001461   dead_ivl 40, DR 10.0.1.1, BDR 0.0.0.0
Apr 13 20:25:34.001466 OSPF packet ignored: area stubness mismatch from 10.0.1.1 on intf ge-0/0/0.0 area
0.0.0.1
Apr 13 20:25:34.404810 OSPF periodic xmit from 10.0.1.11 to 224.0.0.5 (IFL 74 area 0.0.0.1)
Apr 13 20:25:42.446284 OSPF periodic xmit from 10.0.1.11 to 224.0.0.5 (IFL 74 area 0.0.0.1)
```

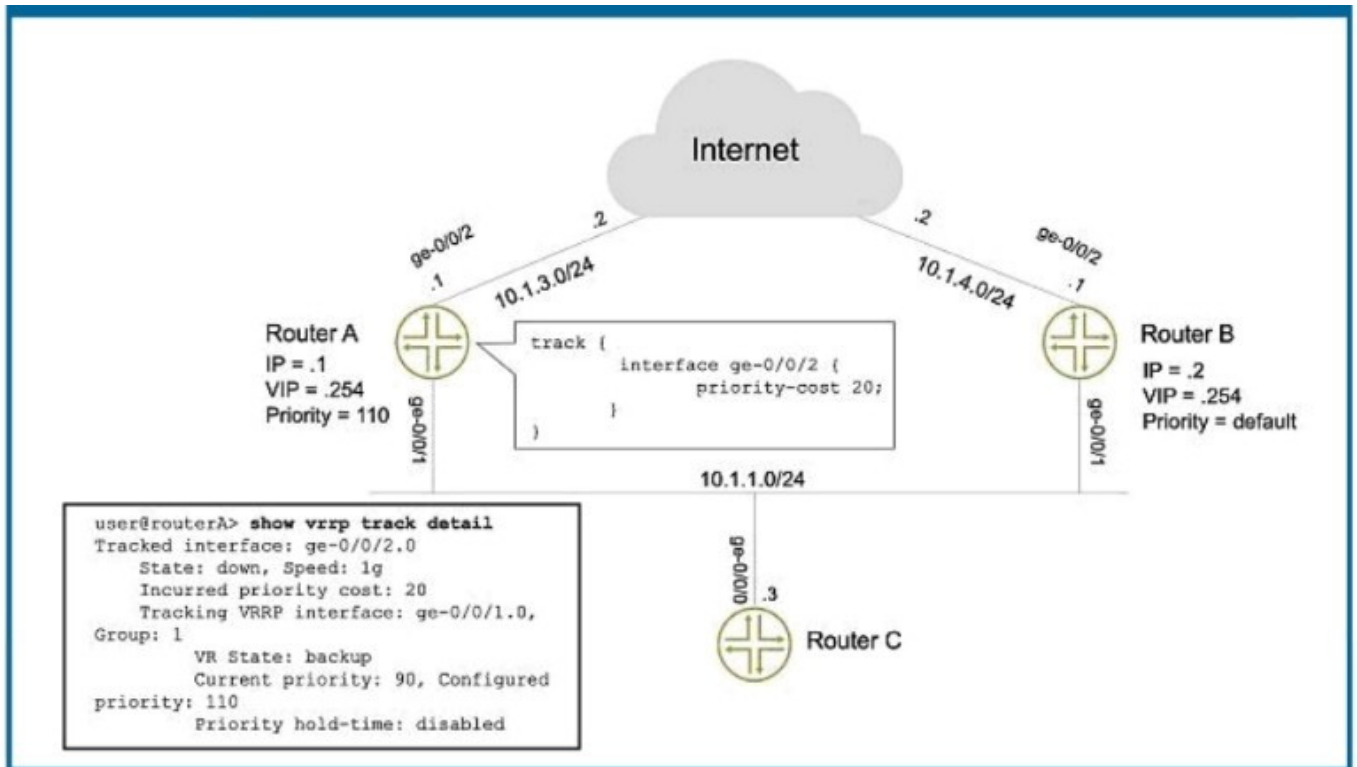
What would cause this error?

- A. missing route policy
- B. stub area mismatch
- C. MD5 authentication error
- D. subnet mismatch

Correct Answer: B

## QUESTION 3

Referring to the exhibit, which interface is assigned the active VIP?



- A. Router A ge-0/0/2
- B. Router B ge-0/0/1
- C. Router A ge-0/0/1
- D. Router B ge-0/0/2

Correct Answer: B

#### QUESTION 4

Click the Exhibit button.

```
user@router> show ospf neighbor
```

Address	Interface	State	ID	Pri
Dead				
172.16.248.214	xe-0/0/2.0	2-Way	172.16.248.14	128
39				

Referring to the exhibit, which statement is correct?

- A. The router is acting as the DR.
- B. The router is acting as the BDR.
- C. The router is acting as a DROther.



D. The router is not able to establish an adjacency.

Correct Answer: C

---

#### QUESTION 5

Exhibit.



## Exhibit



```
user@host> show route hidden detail
inet.0: 25 destinations, 26 routes (24 active, 0 holddown, 1
hidden)
Restart Complete
127.0.0.1/32 (1 entry, 0 announced)
    Direct Preference: 0
        Next hop type: Interface
        Next-hop reference count: 1
        Next hop: via lo0.0, selected
        State: <Hidden Martian Int>
        Local AS:      1
        Age: 4:27:37
        Task: IF
        AS path: I

private1__inet.0: 2 destinations, 3 routes (2 active, 0
holddown, 0 hidden)

red.inet.0: 6 destinations, 8 routes (4 active, 0 holddown, 3
hidden)
Restart Complete

10.5.5.5/32 (1 entry, 0 announced)
    BGP      Preference: 170/-101
        Route Distinguisher: 10.4.4.4:4
        Next hop type: Unusable
        Next-hop reference count: 6
        State: <Secondary Hidden Int Ext>
        Local AS:      1 Peer AS:      1
        Age: 3:45:09
        Task: BGP_1.10.4.4.4+2493
        AS path: 100 I
        Communities: target:1:999
        VPN Label: 100064
        Localpref: 100
        Router ID: 10.4.4.4
        Primary Routing Table bgp.13vpn.0
```



Referring to the exhibit, why is the route for 10.5.5.5 hidden?

- A. It is an L3VPN route.
- B. The next hop cannot be resolved.
- C. It has an invalid community.
- D. It is a Martian route.

Correct Answer: B

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