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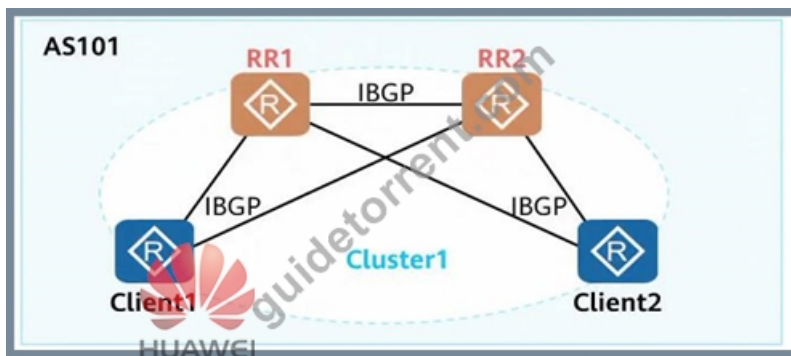
## H12-831\_V1.0-ENU Valid Test Question, Reliable H12-831\_V1.0-ENU Test Pass4sure

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## Huawei HCIP-Datacom-Advanced Routing & Switching Technology V1.0 Sample Questions (Q31-Q36):

### NEW QUESTION # 31

As shown in the figure, in a medium-sized network, BGP generally deploys dual RRs to improve R reliability. When deploying dual RRs, the ClusterIDs of the two RRs are generally set to be the same. What is the reason for this?



- A. Prevent the client from receiving too many routes and causing it to run out of memory
- B. prevent suboptimal
- **C. Prevent RR from receiving too many routes and causing insufficient memory**
- D. prevent loops

**Answer: C**

#### NEW QUESTION # 32

In OSPFv3, the LSA whose propagation range is an area has () types. (Fill in Arabic teaching characters only)

**Answer:**

Explanation:  
129

#### NEW QUESTION # 33

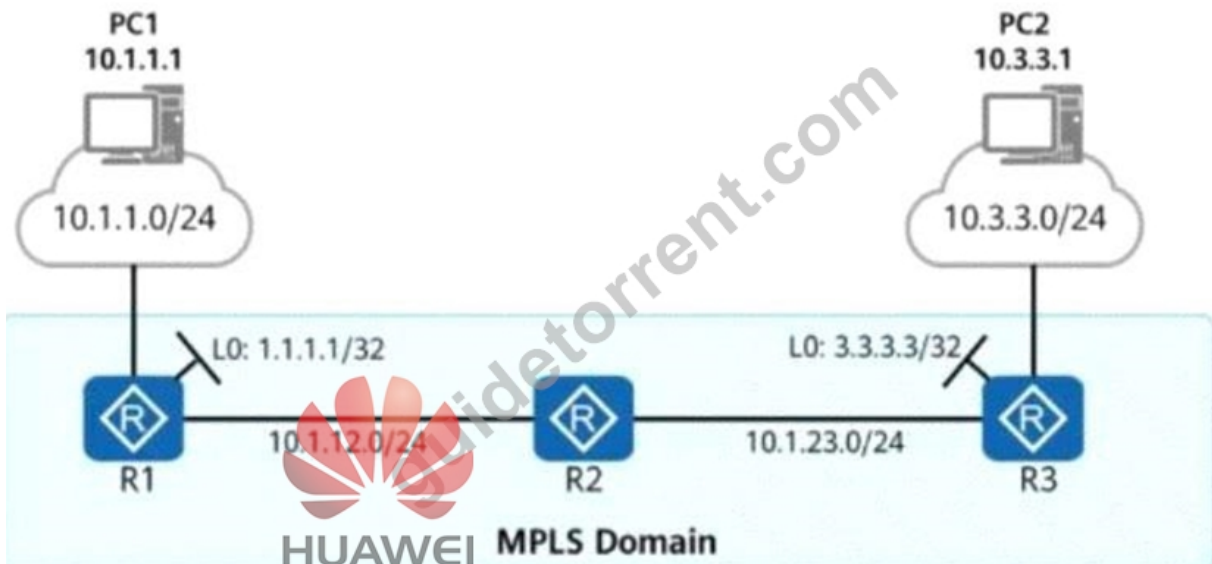
If faced with a complex network failure, and it is estimated that the troubleshooting cannot be completed in a short period of time, and the user urgently needs to restore the availability of the network, then the correct approach is.

- A. Always try to troubleshoot without informing the user of the current troubleshooting difficulty
- B. Tell the user it's not possible
- **C. Communicate with users whether it is possible to skip the faulty node and build an alternative network environment**
- D. Directly build an alternative network environment without notifying customers

**Answer: C**

#### NEW QUESTION # 34

On the network shown in the figure, an administrator first completes the routing configuration and then enables MPLS and LDP on R1, R2, and R3 and their interconnected interfaces. In this manner, traffic from PC1 to PC2 can be forwarded based on MPLS. Which of the following routing configurations can implement this function?



Options:

- A. `nginx`  
`CopyEdit`  
R1  
`bgp 65000`  
`router-id 1.1.1.1`  
`peer 3.3.3.3 as-number 65000`  
`peer 3.3.3.3 connect-interface LoopBack 0`  
`network 10.1.1.0 24`  
R3  
`bgp 65000`  
`router-id 3.3.3.3`  
`peer 1.1.1.1 as-number 65000`  
`peer 1.1.1.1 connect-interface LoopBack 0`  
`network 10.3.3.0 24`
- B. `nginx`  
`CopyEdit`  
R1  
`ospf 1`  
`area 0`  
`network 1.1.1.1 0.0.0.0`  
`network 10.1.12.0 0.0.0.255`  
`network 10.1.1.0 0.0.0.255`  
R2  
`ospf 1`  
`area 0`  
`network 2.2.2.2 0.0.0.0`  
`network 10.1.12.0 0.0.0.255`  
`network 10.1.23.0 0.0.0.255`  
R3  
`ospf 1`  
`area 0`  
`network 3.3.3.3 0.0.0.0`  
`network 10.1.23.0 0.0.0.255`  
`network 10.3.3.0 0.0.0.255`
- C. `nginx`  
`CopyEdit`  
R1  
`ospf 1`  
`area 0`  
`network 1.1.1.1 0.0.0.0`  
`network 10.1.12.0 0.0.0.255`

```
R2
ospf 1
area 0
network 2.2.2.2 0.0.0.0
network 10.1.12.0 0.0.0.255
network 10.1.23.0 0.0.0.255
```

```
R3
ospf 1
area 0
network 3.3.3.3 0.0.0.0
network 10.1.23.0 0.0.0.255
```

- D. nginx  
CopyEdit

```
R2
ospf 1
area 0
network 2.2.2.2 0.0.0.0
network 10.1.12.0 0.0.0.255
network 10.1.23.0 0.0.0.255
R3
ospf 1
area 0
network 3.3.3.3 0.0.0.0
network 10.1.23.0 0.0.0.255
bgp 65000
router-id 3.3.3.3
peer 1.1.1.1 as-number 65000
peer 1.1.1.1 connect-interface LoopBack 0
network 10.3.3.0 24
ip ip-prefix 1 index 10 permit 10.1.1.0 24
route recursive-lookup tunnel ip-prefix 1
```

**Answer: B**

Explanation:

Comprehensive and Detailed In-Depth Explanation:

This question is based on MPLS (Multiprotocol Label Switching) and its interaction with routing protocols

. The goal is to ensure PC1 (10.1.1.1) can communicate with PC2 (10.3.3.1) over MPLS. Let's analyze each option carefully.

1## Understanding MPLS Routing Requirements

To forward traffic using MPLS and LDP, we need:

- \* An IGP (Interior Gateway Protocol) like OSPF or IS-IS to advertise network reachability.
- \* Loopback interfaces advertised in OSPF to establish LDP neighbor relationships.
- \* Consistent MPLS LDP enablement on all links in the MPLS domain.
- \* End-to-end IP reachability between loopbacks (since LDP uses the loopback for label distribution).

2## Option A (Correct Answer) Analysis

This configuration enables OSPF on all routers (R1, R2, and R3) across the MPLS domain:

# All networks are advertised in OSPF area 0, ensuring IP reachability. # Loopback interfaces (1.1.1.1, 2.2.2.2, 3.3.3.3) are included, which is required for MPLS LDP peer establishment. # PC1's network (10.1.1.0/24) and PC2's network (10.3.3.0/24) are properly advertised, ensuring end-to-end connectivity. # R1, R2, and R3 have OSPF neighbor relationships, meaning LDP can use OSPF routes for label switching.

# Conclusion: Option A meets all MPLS forwarding requirements and is the correct answer.

3## Why Other Options Are Incorrect

# Option B (Incorrect)

- \* Uses BGP instead of OSPF, which is not optimal for MPLS forwarding in a simple MPLS domain.
- \* LDP requires an IGP like OSPF or IS-IS to work efficiently.
- \* BGP alone does not establish LDP label bindings between R1, R2, and R3.

# Option C (Incorrect)

- \* Mixes OSPF and BGP, causing routing inconsistency.
- \* Uses ip ip-prefix and recursive lookup, which is unnecessary in a standard MPLS domain.
- \* BGP does not distribute labels dynamically like an IGP with LDP.

# Option D (Incorrect)

- \* R1 does not advertise the 10.1.1.0/24 network, meaning PC1's network is not reachable.
- \* R3 does not advertise the 10.3.3.0/24 network, meaning PC2's network is not reachable.
- \* Missing essential routing entries for full end-to-end reachability.

References:

# HCIP-Datcom Advanced Routing & Switching Technology# Huawei Official MPLS and LDP Configuration Guide# Huawei Enterprise Networking Documentation

### NEW QUESTION # 35

As shown in the figure, the operator's BGP/MPLS IP VPN backbone network builds SP through DP. If you want to implement user X If the two sites communicate through the BGP/MPLS IPVPN network, PE1 and PE2 must use a 32-bit masked loopback interface address to establish an MP-IBGP peer relationship.

- A. True
- B. False

Answer: A

### NEW QUESTION # 36

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