



JN0-694^{Q&As}

Enterprise Routing and Switching Support, Professional (JNCSP-ENT)

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**QUESTION 1**

You have configured OSPF between two routers and the adjacency is not coming up. You confirm that the physical link between them is up and then run the commands shown in the exhibit on both routers. Which two configuration mistakes apply? (Choose two.)

```
user@R1> show ospf interface
Interface      State      Area      DR ID      BDR ID      Nbrs
fe-0/0/1.0     DR         0.0.0.1   1.1.1.1    0.0.0.0     0
Type: LAN, Address: 10.50.10.26, Mask: 255.255.255.252, MTU: 1500, Cost: 1
DR addr: 10.50.10.26, Priority: 128
Adj count: 0
Hello: 10, Dead: 40, ReXmit: 5, Not Stub
Auth type: None
Protection type: None
Topology default (ID 0) -> Cost: 0
```

```
user@R2> show ospf interface
Interface      State      Area      DR ID      BDR ID      Nbrs
fe-0/0/2.0     DR         0.0.0.2   1.1.1.2    0.0.0.0     0
Type: LAN, Address: 10.50.10.25, Mask: 255.255.255.252, MTU: 1500, Cost: 1
DR addr: 10.50.10.25, Priority: 128
Adj count: 0
Hello: 20, Dead: 80, ReXmit: 5, Not Stub
Auth type: None
Protection type: None
Topology default (ID 0) -> Cost: 1
```

- A. The hello timer is mismatched.
- B. The subnet is mismatched.
- C. The DR ID is mismatched.
- D. The area ID is mismatched.

Correct Answer: AD

QUESTION 2

-- Exhibit -user@router> show ospf database

```
Area 0.0.0.1 Type ID Adv Rtr Seq Age Opt Cksum Len Router 172.24.255.1 172.24.255.1 0x800000d4 182 0x22 0x59f3
36 Router 172.24.255.2 172.24.255.2 0x800000d4 177 0x22 0x57f2 36 Router *172.24.255.4 172.24.255.4 0x800000dc
176 0x22 0x75fa 72 Network 172.24.124.2 172.24.255.2 0x80000007 177 0x22 0x7957 36 Summary 172.24.13.0
172.24.255.1 0x80000004 2370 0x22 0x3f62 28 Summary 172.24.23.0 172.24.255.1 0x80000002 471 0x22 0xdeb9 28
Summary 172.24.255.1 172.24.255.1 0x800000cb 2037 0x22 0x2bbb 28 Summary 172.24.255.2
```

```
172.24.255.2 0x800000cc 487 0x22 0x19ca 28 Summary 172.24.255.3 172.24.255.1 0x80000003 140 0x22 0xb2f9 28
```



```
OSPF AS SCOPE link state database Type ID Adv Rtr Seq Age Opt Cksum Len Extern *1.47.82.0 172.24.255.4
0x80000002 1037 0x22 0x4225 36 Extern *100.0.0.0 172.24.255.4 0x80000001 2643 0x22 0xfc88 36
```

```
user@router> show ospf neighbor Address Interface State ID Pri Dead
```

```
172.24.124.2 ge-0/0/1.0 Full 172.24.255.2 128 36
```

```
172.24.124.1 ge-0/0/1.0 Full 172.24.255.1 128 30
```

```
user@router> show ospf interface ge-0/0/1.0 extensive Interface State Area DR ID BDR ID Nbrs ge-0/0/1.0 PtToPt
0.0.0.1 0.0.0.0 0.0.0.0 2 Type: P2MP, Address: 172.24.124.4, Mask: 255.255.255.0, MTU: 1500, Cost: 1 Adj count: 2
Hello: 10, DeaD. 40, ReXmit: 5, Not Stub Auth type: None Protection type: None Topology default (ID 0) -> Cost: 1
user@router> show route protocol ospf table inet.0
```

```
inet.0: 11133 destinations, 11135 routes (11133 active, 0 holddown, 0 hidden) + = Active Route, - = Last Active, * = Both
```

```
224.0.0.5/32 *[OSPF/10] 1w0d 00:01:14, metric 1 MultiRecv -- Exhibit -
```

Click the Exhibit button.

Referring to the exhibit, why are the OSPF routes missing from the routing table for this router?

- A. mismatching OSPF interface type with the neighbor
- B. MTU mismatch with the neighbor
- C. incorrect IP address configured on the interface
- D. no Type 4 LSAs in the OSPF database

Correct Answer: A

QUESTION 3

```
-- Exhibit -Jun 12 02:56:06 R1 rpd[60735]: RPD_OSPF_NBRDOWN: OSPF neighbor 10.50.10.25 (realm ospf-v2
fe0/0/4.0 area 0.0.0.0) state changed from Full to Init due to 1WayRcvd (event reason: neighbor is in one-way mode)
Jun 12 02:59:36 R1 rpd[60735]: RPD_OSPF_NBRUP: OSPF neighbor 10.50.10.25 (realm ospf-v2 fe0/0/4.0 area
0.0.0.0) state changed from Init to ExStart due to 2WayRcvd (event reason: neighbor detected this router) Jun 12
02:59:36 R1 rpd[60735]: RPD_OSPF_NBRUP: OSPF neighbor 10.50.10.25 (realm ospf-v2 fe0/0/4.0 area 0.0.0.0) state
changed from Exchange to Full due to ExchangeDone (event reason: DBD exchange of slave completed) -- Exhibit -
```

Click the Exhibit button.

You notice that there is a problem with the OSPF adjacency between two routers, R1 and R2. The relevant system logs from R1 are shown in the exhibit.

What would cause this behavior?

- A. R2 was dropping R1's OSPF hello packets.
- B. R1 was dropping R2's OSPF hello packets.
- C. R1's interface went down and came back up.



D. There is an OSPF hello timer mismatch between the two routers.

Correct Answer: A

QUESTION 4

```
-- Exhibit -user@router# run show log ospf-test ... Jun 10 22:35:38.598494 OSPF sent Hello 10.100.0.1 -> 224.0.0.5 (ge-1/0/3.1000 IFL 77 area 0.0.0.0) Jun 10 22:35:38.598520 Version 2, length 44, ID 10.100.1.2, area 0.0.0.0 Jun 10 22:35:38.598543 mask 255.255.255.252, hello_ivl 10, opts 0x2, prio 128 Jun 10 22:35:38.598564 dead_ivl 32, DR 10.100.0.1, BDR 0.0.0.0 Jun 10 22:35:41.522956 OSPF periodic xmit from 10.200.26.1 to 224.0.0.5 (IFL 2684276196 area 0.0.0.1) Jun 10 22:35:42.798220 OSPF rcvd Hello 10.100.0.2 -> 224.0.0.5 (ge-1/0/3.1000 IFL 77 area 0.0.0.0) Jun 10 22:35:42.798311 Version 2, length 48, ID 10.100.1.1, area 0.0.0.0 Jun 10 22:35:42.798334 checksum 0x0, authtype 0 Jun 10 22:35:42.798356 mask 255.255.255.252, hello_ivl 10, opts 0x2, prio 128 Jun 10 22:35:42.798377 dead_ivl 40, DR 10.100.0.2, BDR 10.100.0.1 Jun 10 22:35:45.189034 OSPF rcvd Hello 10.100.0.2 ->
```

```
224.0.0.5 (ge-1/0/3.1000 IFL 77 area 0.0.0.0) Jun 10 22:35:45.189097 Version 2, length 44, ID 10.100.1.1, area 0.0.0.0 Jun 10 22:35:45.189118 checksum 0x0, authtype 0 Jun 10 22:35:45.189140 mask 255.255.255.252, hello_ivl 10, opts 0x2, prio 128 Jun 10 22:35:45.189162 dead_ivl 40, DR 10.100.0.2, BDR 0.0.0.0 Jun 10 22:35:45.196969 OSPF DR is 10.100.1.2, BDR is 0.0.0.0 Jun 10 22:35:45.197050 OSPF sent Hello 10.200.26.1 -> 224.0.0.5 (ge-1/0/0.0 IFL 69 area 0.0.0.1) Jun 10 22:35:45.197076 Version 2, length 44, ID 10.100.1.2, area 0.0.0.1 Jun 10 22:35:45.197098 mask 255.255.255.252, hello_ivl 10, opts 0x2, prio 128 Jun 10 22:35:45.197119 dead_ivl 40, DR 10.200.26.1, BDR 0.0.0.0 Jun 10 22:35:46.746900 OSPF periodic xmit from 10.100.0.1 to 224.0.0.5 (IFL 2684276196 area 0.0.0.0) -- Exhibit -
```

Click the Exhibit button.

Referring to the exhibit, what is preventing the OSPF neighborship with two directly connected routers using interface ge-1/0/3 from reaching the full state?

- A. dead interval mismatch
- B. authentication type mismatch
- C. subnet mismatch
- D. hello interval mismatch

Correct Answer: A

QUESTION 5

You are monitoring a network that is configured with PIM sparse mode. An end user's PC (PC1) joins a multicast stream. The stream never switches from the rendezvous-point tree (RPT) to the shortest-path tree (SPT).

Which two statements explain this behavior? (Choose two.)

- A. An interface on the SPT is not configured for PIM.
- B. The designated router for PC1's LAN does not have a route to the multicast source.
- C. This is the normal operation of PIM sparse mode.
- D. This is a source-specific multicast (SSM) stream.



Correct Answer: AB

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