

4A0-110^{Q&As}

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QUESTION 1

Two direct connected routers are running RIPv2, neighbors are up but there is no route in the RIP database. Review the configuration information below. What is the potential problem?

```
Node 1

router rip
group "test"
neighbor "toPod2"
exit
exit
```

```
Node 2

router rip
group "test"
neighbor "toPod1"
exit
exit
```

- A. System interface is not added to the RIP protocol
- B. No import policy is configured
- C. No export policy is configured
- D. Split-horizon has to be disabled in RIP
- E. Message-size has to be configured with a non-zero value

Correct Answer: C

QUESTION 2

VPRN 300 is confiugred on Node 3 and Node 4 with LDP as the transport. No VPN routes are exchanged between Node 3 and Node 4. What is the cause of the problem?



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Node 3

| Route Table (Se | rvise: 300) | | | | | ا حوامنا مع مع مع مع مع مع مع مع |
|-----------------|-------------|-------|-------|---------|--------|----------------------------------|
| Dest Address | Next Hop | Туре | Proto | Age | Metric | Pref |
| 30.1.1.0/24 | toCPE3 | Local | Local | 00h07m4 | 12s O | 0 |

Node 4

```
Route Table (Service: 300)

Dest Address Next Hop Type Proto Age Metric Pref

30.1.2.0/24 toCPE4 Local Local 00h00m05s 0 0
40.1.1.1/32 30.1.2.2 Remote Static 00h00m05s 1 5
```

Node 3

```
community "VPRN300IN" members "target:100:100"
community "VPRN300CUT" members "target:100:100" "target:200:200"
policy-statement "VPRN300IN"
    entry 10
       from
            community "VPRN300IN"
        exit
        action accept
        exit
    exit
exit
policy-statement "VPRN3000UT"
    entry 10
        action accept
            community add "VPRN3000UT"
       exit
    exit
exit
```

Node 3



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show service id 300 base ______ Service Basic Information Service Id : 300 Vpn Id : 0 : VPRN Service Type Customer Id : 1 Last Status Change: 04/28/2007 10:20:08 Last Mgmt Change : 04/30/2007 12:13:01 Admin State : Up Oper State : Up : 100:100 Route Dist. AS Number : None Router Id : 10.10.1.3 ECMP : Enabled ECMP Max Routes Max Routes Auto Bind : No Limit Vrf Target : target:100:101 Vrf Import : VPRN300IN : VPRN3000UT Vrf Export SAP Count SDP Bind Count Service Access & Destination Points AdmMTU OprMTU Adm Identifier Type sap:1/1/7:3.4 1522 1522 ging Up

Node 4

| # show service | id 300 base | | | |
|-----------------|-------------|--------|-----|--|
| Service Basic I | nformation | | | |
| | | | | |
| Service Id | : 300 | Vpn Id | : 0 | |
| Service Type | : VPRN | | | |

- A. VRF policy configured on Node 3 does not match with vrf-target configured on Node 4
- B. No SDP defined in the VPRN configuration on both nodes
- C. VRF-target mismatch on Node 3 and Node 4
- D. Route-distinguisher mismatch on Node 3 and Node 4
- E. Encapsulation type mismatch on SAPs on Node 3 and Node 4

Correct Answer: A

QUESTION 3

Which of the following debug statements can be used to troubleshoot if the OSPF adjacency is staying at xstart state? Select two answers.

- A. Debug router ospf rtm
- B. Debug router ospf packet dbdescr
- C. Debug router ospf neighbor
- D. Debug router ospf packet hello



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E. Debug router ospf spf

Correct Answer: BC

QUESTION 4

What MPLS tunnel label(s) will be used in the data packet traveling on LSP toR4 FRR leaving from Node 3 to Node 4?



Node 3

| ### Detour Available # - Detour In Use b - Bandwidth Protected n - Node Protected LSP toR4FRR Path toPod4 LSP Name : toR4FRR | UDIA (AD . D/PPP P | | | | | |
|--|---|--------------------|---------------|--|--|--|
| # - Detour Available # - Detour In Use b - Bandwidth Protected n - Node Protected LSP toR4FRR Path toPod4 LSP Name : toR4FRR Path LSP ID : 17 To : 10.10.1.4 Adam State : Up Path Name : toPod4 Path Type : Primary Path Admin : Up Out Label : n/a Path Dp Time: Od CO:06:15 Path Dn Time : Od 00:00:06 Retry Limit : O Retry Timer : 30 sec Next Patry In : 6 sec Next Patry In : 0 will patry In the second In | 4G 1.16 G 280 | | | | | |
| b - Bandwidth Protected n - Node Protected LSP toR4FRR Path toPod4 LSP Name : toR4FRR Path toPod4 LSP Name : toR4FRR Path toPod4 LSP Name : toR4FRR Path LSP ID : 17 From : 10.10.1.3 To : 10.10.1.4 Adm State : Up Path Name : toPcd4 Path Type : Primary Path Admin : Up Out Interface: n/a Out Label : n/a Path Jp Time: 0d C0:06:15 Path Dn Time : 0d 00:00:0 Retry Limit : 0 Retry Timer : 30 sec Retry Limit : 0 Retry Timer : 30 sec RetryAttempt: 3 Next Retry In : 6 sec Bandwidth : No Reservation Oper Bandwidth : 0 Mbps Hop Limit : 255 Record Route: Record Record Record Label : Record Oper MTU : 9196 Negotiated MTU : 9198 Adaptive : Enakled MBB State : N/A Include Grps: None Path Trans : 19 CSPF Queries : 6 ExplicitHops: 10.10.1.4 Actual Hops : 10.15.2(10.1C.1.3) # -> 10.1.5.2(10.1C.1.3) # -> 10.1.5.2(10.1C.1.4) Record Label : 131068 # show router mpls bypass-tunnel MPLS 3ypass Tunnels To State Out I/F Out Label Reserved Protecte BW (Kbps) LSP Cour | | | | | | |
| b - Bandwidth Protected n - Node Protected Second Se | @ - Detour Available | # - Detour In Use | | | | |
| LSP toR4FRR Path toPod4 LSP Name : toR4FRR | b - Bandwidth Protected | n - Node Protected | | | | |
| LSP Name : toR4FRR | | | | | | |
| LSP Name : toR4FRR | | | | | | |
| From : 10.10.1.3 To : 10.10.1.4 Adm State : Up | LSP tok4rkk Path toPod4 | | | | | |
| Adm State : Up Path Name : toPcd4 | LSP Name : toR4FRR | Path LSP ID | : 17 | | | |
| Path Name : toPcd4 | | | | | | |
| Path Admin : Up | Adm State : Up | Oper State | : Up | | | |
| Out Label : n/a Path Jp Time: Od CO:06:15 | Path Name : toPcd4 | | | | | |
| Path Jp Time: Od CO:06:15 Retry Limit: O Retry Limit: O Retry Attempt: 3 Retry Timer : 30 sec RetryAttempt: 3 Retry Timer : 30 sec RetryAttempt: 3 Retry Timer : 30 sec Next Retry In : 6 sec Record Route: Reservation Oper Bandwidth : O Mops Record Route: Record Record Label : Record Oper MTU : 9198 Adaptive : Enakled MBB State : N/A Include Grps: Record Route: Record Record Label : Record None None Path Trans : 19 CSPF Queries : 6 Failure Code: badNode Failure Node : 10.1.5.1 ExplicitHops: 10.10.1.4 Actual Hops: 10.1.5.2(10.1C.1.3) % # -> 10.1.4.2(10.1C.1.4) Record Label : 131068 # show router mpls bypass—tunnel MPLS 3ypass Tunnels To State Out I/F Out Label Reserved Protecte BW (Kbps) LSP Cour | Path Admin : Up | Path Oper | : Up | | | |
| Retry Limit: 0 | OutInterface: n/a | Out Label | : n/a | | | |
| Next Retry In | Path Jp Time: Od CO:06:15 | Path Dn Time | : Od 00:00:00 | | | |
| # Show router mpls bypass-tunnel Bandwidth: No Keservation Oper Bandwidth: O Mbps Oper Bandwidth: O Mbps Record Route: Record Record Label: N/\(\lambda\) Nogotiated MTU: 9198 Negotiated MTU: 9198 Negotiated MTU: 9198 Negotiated MTU: 9198 Record Label: N/\(\lambda\) Record Grps: Record Grps: Record Label: Nogotiated MTU: 9198 Record Label: N/\(\lambda\) Record Label: N/\(\lambda\) Record Label: 10.1.5.1 Record Label: 131068 # show router mpls bypass-tunnel MPLS 3ypass Tunnels To State Out I/F Out Label Reserved Protecte BW (Kbps) LSP Cour | Retry Limit : O | Retry Timer | : 30 sec | | | |
| Hop Limit : 255 Record Route: Record | RetryAttempt: 3 | Next Retry In | : 6 sec | | | |
| Record Route: Record Oper MTU : 9198 Adaptive : Enakled | | Oper Bandwidth | : O Mops | | | |
| Oper NTU 9198 Negotiated MTU 9198 Adaptive Enakled MBB State : N/\lambda Include Grps: Exclude Grps : None None Path Trans 19 CSPF Queries : 6 Failure Code: badNode Failure Node : 10.1.5.1 ExplicitHops: 10.10.1.4 Actual Hops: 10.1.5.2 (10.1C.1.3) % # -> 10.1.4.2 (10.1C.1.4) Record Label : 131068 # show router mpls bypass-tunnel # show router mpls bypass-tunnel MPLS 3ypass Tunnels To State Out I/F Out Label Reserved Protected BW (Kbps) LSP Cour | Hop Limit : 255 | | | | | |
| Adaptive : Enabled MBB State : N/A Include Grps: Exclude Grps : None None Path Trans : 19 CSPF Queries : 6 Failure Code: badNode Failure Node : 10.1.5.1 ExplicitHops: | | | | | | |
| Exclude Grps : None | Oper MTU : 9198 | | | | | |
| None Path Trans : 19 CSPF Queries : 6 Failure Code: badNode ExplicitHops: 10.10.1.4 Actual Hops: 10.1.5.2(10.1C.1.3) % # -> 10.1.4.2(10.1C.1.4) # show router mpls bypass-tunnel MPLS 3ypass Tunnels To State Out I/F Out Label Reserved Protecte BW (Kbps) LSP Cour | | | | | | |
| # Show router mpls bypass-tunnel # State Out I/F Out Label Reserved Protecte Date | | | : | | | |
| Failure Code: badNode Failure Node : 10.1.5.1 ExplicitHops: 10.10.1.4 Actual Hops: 10.1.5.2(10.1C.1.3) § # -> 10.1.4.2(10.1C.1.4) Record Label : 131068 # show router mpls bypass-tunnel MPLS 3ypass Tunnels To State Out I/F Out Label Reserved Protecte BW (Kbps) LSP Cour | | | | | | |
| ExplicitHops: 10.10.1.4 Actual Hops: 10.1.5.2(10.1C.1.3) | | | | | | |
| 10.10.1.4 Actual Hops: 10.1.5.2(10.1C.1.3) | | Failure Node | : 10.1.5.1 | | | |
| Actual Hops: 10.1.5.2(10.1C.1.3) | | | | | | |
| 10.1.5.2(10.1C.1.3) U # -> 10.1.4.2(10.1C.1.4) Record Label : 131068 # show router mpls bypass-tunnel MPLS 3ypass Tunnels To State Out I/F Out Label Reserved Protecte BW (Kbps) LSP Cour | | | | | | |
| -> 10.1.4.2(10.1C.1.4) Record Label : 131068 # show router mpls bypass-tunnel MPLS 3ypass Tunnels To State Out I/F Out Label Reserved Protecte BW (Kbps) LSP Cour | [Mail Mail Mail Mail Mail Mail Mail Mail | | | | | |
| # show router mpls bypass-tunnel MPLS 3ypass Tunnels To State Out I/F Out Label Reserved Protecte BW (Kbps) LSP Cour | | | 404060 | | | |
| # show router mpls bypass-tunnel MPLS 3ypass Tunnels To State Out I/F Out Label Reserved Protecte BW (Kbps) LSP Cour | HT - HT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | |
| MPLS 3ypass Tunnels To State Out I/F Out Label Reserved Protecte BW (Kbps) LSP Cour | | | | | | |
| MPLS 3ypass Tunnels To State Out I/F Out Label Reserved Protecte BW (Kbps) LSP Cour | # show router male hunass-tunnel | | | | | |
| To State Out I/F Out Label Reserved Protecte BW (Kbps) LSP Cour | , but I carel inpit by pass cannot | | | | | |
| To State Out I/F Out Label Reserved Protecte BW (Kbps) LSP Cour | | | | | | |
| To State Out I/F Out Label Reserved Protecte BW (Kbps) LSP Cour | 10. 11. 11. 11. 11. 11. 11. 11. 11. 11. | | | | | |
| BW (Kbps) LSP Cour | | | | | | |
| | state out 1/F | | | | | |
| 10.1.4.2 Active 1/1/6 131069 0 2 | | (A) Wd | | | | |
| 2000年2017年2017年 | 10.1.4.2 Active 1/1/6 | 131069 0 | 2 | | | |

- A. 131069 131068
- B. 131068 3
- C. 131069



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D. 131068

E. No label is used in the data packet

Correct Answer: A

QUESTION 5

A CSPF LSP with no bandwidth requirement is established from Node 1 (10.10.1.1) to Node 2 (10.10.1.2). OSPF-TE is enabled on all routers in the network. What commands can be used on Node 1 to determine if another LSP can be established to Node 2 with 400M bandwidth requirement? Choose all that apply.

- A. Show router lsp detail
- B. Show router ospf database detail
- C. Show router ospf opaque-database detail
- D. Tools perform router mpls cspf to 10.10.1.2 bandwidth 400
- E. Tools dump router mpls Ispinfo

Correct Answer: CD

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