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Alcatel-Lucent Advanced Troubleshooting

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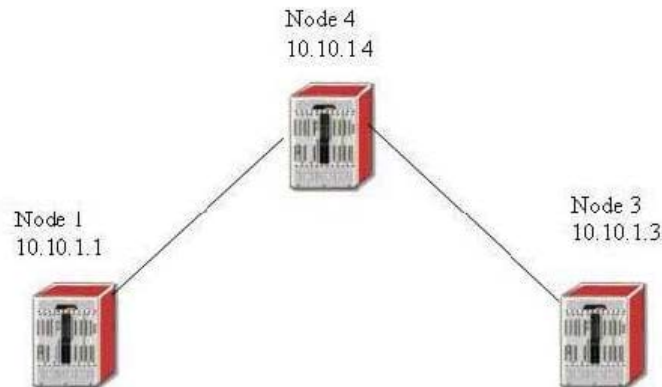Following Questions and Answers are all new published by Alcatel-Lucent Official Exam Center

QUESTION 1

Based on the show display below, what should be done to further trouble the LSP problem? Choose all valid actions.


```
# shcw router mpls lsp toNode3 path toNode3 detail
===============================================================================
MPLS LSP toNode3 Path   (Detail)
===============================================================================
Legend :
    @ - Detour Available            # - Detour In Use
    k - Bandwidth Protected         n - Node Protected
===============================================================================
-------------------------------------------------------------------------------
LSP toNode3 Path toNode3
-------------------------------------------------------------------------------
LSP Name    : toNode3              Path LSP ID     : 1
From        : 10.10.1.1            To              : 10.10.1.3
Adm State   : Up                   Oper State      : Down
Path Name   : toNode3              Path Type       : Primary
Path Admin  : Up                   Path Oper       : Down
OutInterface: n/a                  Out Label       : n/a
Path Up Time: 0d 00:00:00          Path Dn Time    : 0d 00:01:12
Retry Limit : 0                    Retry Timer     : 30 sec
RetryAttempt: 1                    Next Retry In   : 19 sec
Bandwidth   : No Reservation       Oper Bandwidth  : 0 Mbps
Hop limit   : 255
Record Route: Record               Record Label    : Record
Oper MTU    : 9198                 Negotiated MTU  : 9198
Adaptive    : Enabled              MBB State       : N/A
Include Grps:                      Exclude Grps    :
None                               None
Path Trans  : 8                    CSPF Queries    : 0
Failure Code: noRouteToDestination Failure Node    : 10.10.1.1
ExplicitHops:
    10.10.1.4       -> 10.10.1.3
Actual Hops :
    No Hops Specified
```

A. Check all the interface filters to make sure no LDP protocol is blocked

B. Check all management filters to make sure no RSVP-TE protocol is blocked

C. Verify all explicit hops are reachable via IGP

D. Make sure MPLS is enabled on all appropriate interfaces

E. Make sure LDP is enabled on all appropriate interfaces

Correct Answer: BCD

QUESTION 2

Which command can be used to view all interfaces configured under VPRN 300?

A. Show router interfaces

B. Show router interface vprn 300

C. Show router 300 interfaces

D. Show service vprn 300 interfaces

E. Show service id 300 interfaces

Correct Answer: C

QUESTION 3

Based on the following configuration, which of the following statements are true? Choose all that apply.

Node 1

Node 2   Node 4
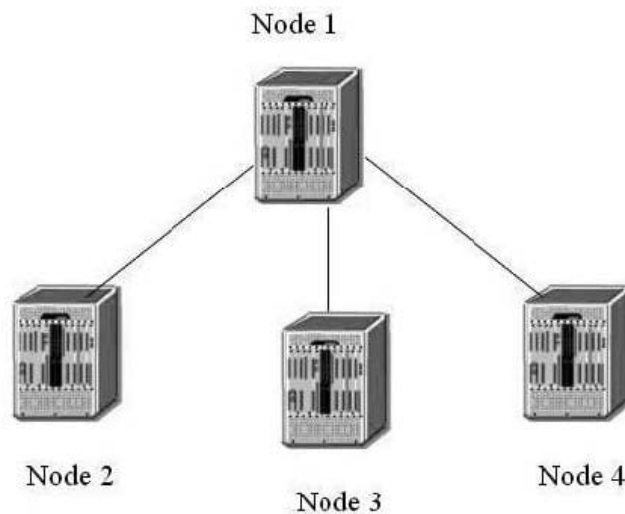
Node 3

```
Node-1

    config>router>ospf#
        area 0.0.0.0
            interface "to-Node-2"
                metric 50
                authentication-key "DoGpEhE4333mNp52Iug6Z82" hash2
            interface "to-Node-3"
                metric 50
        area 0.0.0.1
            nssa
                originate-default-route
            interface "to-Node-4"
                metric 50
```

```
Node-2

    config>router>ospf#
        area 0.0.0.0
            interface "to-Node-1"
                authentication-key " Sb77iS4bFCeH2Arm5iaFuHAxNbn1Ag82" hash2
```

```
Node-3

    config>router>ospf#
        area 0.0.0.3
            interface "to-Node-1"
                hello-interval 15
```

```
Node-4

    config>router>ospf#
        area 0.0.0.1
            interface "to-Node-1"
                metric 50
```

A. No OPSF adjacency found on Node 1

B. Full OSPF adjacency between Node-1 and Node-2

C. Full OSPF adjacency between Node-1 and Node-3

D. Full OSPF adjacency between Node-1 and Node-4

E. OSPF is enabled on Node 1

Correct Answer: BE

QUESTION 4

Node 1 and Node 2 are directly connected running LDP. The system ip address of Node 2 is 10.10.10.1.2. Based on the following display, why is the sdp down?

```
Node 1

show service sdp 40 detail
-----------------------------------------------------------------------
 Sdp Id 40  -(10.10.1.2)
-----------------------------------------------------------------------
SDP Id                  : 40
Admin Path MTU          : 0          Oper Path MTU       : 0
Far End                 : 10.10.1.2  Delivery            : LDP
Admin State             : Up         Oper State          : Down
Signaling               : TLDP       VLAN VC Etype       : 0x8100
Acct. Pol               : None       Collect Stats       : Disabled
Last Status Change      : 12/18/2006 16:29:39   Adv. MTU Over.  : No
Last Mgmt Change        : 12/15/2006 14:49:51
Flags                   : TransportTunnDown

KeepAlive Information :
Admin State             : Disabled   Oper State          : Disabled
Hello Time              : 10         Hello Msg Len       : 0
Hello Timeout           : 5          Unmatched Replies   : 0
Max Drop Count          : 3          Hold Down Time      : 10
Tx Hello Msgs           : 0          Rx Hello Msgs       : 0


LDP Sessions
=======================================================================
Peer LDP Id      Adj Type State      Mesg Sent  Mesg Recv  Up Time
-----------------------------------------------------------------------
10.10.1.2:0      Targeted Established 31285      116633     3d 04:25:55
```

A. Local SDP id does not match with the remote sdp id.

B. Far End IP address is not reachable.

C. Keepalive has to be enable on the SDP.

D. LDP is not enable on the remote node\\'s interface.

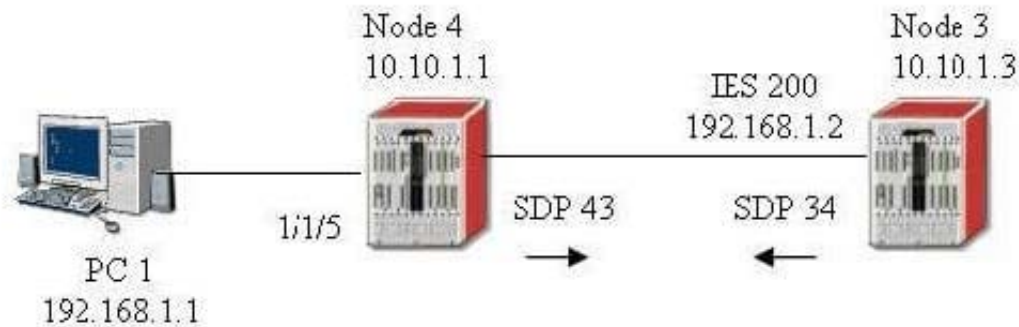E. Targeted LDP session is disabled on the remote node.

Correct Answer: A

QUESTION 5

A spoke-sdp terminated IES configured on Node 3 is down due on SDP serviceMTUMismatch error. The same error is found on the corresponding SDP on Node 4. The VPLS is using the default service MTU. Which MTU value should be

modified to bring the SDP up on both Nodes?

A. IP MTU of the IES Interface on Node3

B. Port MTU on Node 3 and Node 4

C. SDP Path MTU on Node 3 and Node 4

D. Service MTU on Node 4

E. Path MTU on Node 3 and Node 4

Correct Answer: A

QUESTION 6

If a router needs to support services offering of 1514 byte service payload over POS with MPLS FRR, what is the physical MTU size required on the network ports?

A. 1524

B. 1536

C. 1540

D. 1514

E. 1528

Correct Answer: E

QUESTION 7

VPRN 300 is configured on Node 4. BGP is being used as the PE-CE routing protocol. Node 2 is the CE router. The BGP session is not established between Node 4 and Node 2. What is missing in the configuration?
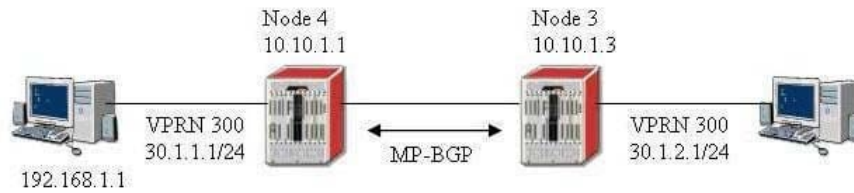
Node 2

```
# config>router>bgp
          group "vrf"
              local-as 400
              neighbor 30.1.2.1
                  peer-as 100

# show router bgp neighbor 30.1.2.1

===============================================================================
BGP Neighbor
===============================================================================
-------------------------------------------------------------------------------
Peer   : 30.1.2.1
Group : vrf
-------------------------------------------------------------------------------
Peer AS              : 100            Peer Port          : 0
Peer Address         : 30.1.2.1
Local AS             : 400            Local Port         : 0
Local Address        : 0.0.0.0
Peer Type            : External
State                : Active         Last State         : Connect
Last Event           : openFail
Last Error           : Cease
Local Family         : IPv4
Remote Family        : Unused

Remote Family        : Unused
Hold Time            : 90             Keep Alive         : 30
Active Hold Time     : 0              Active Keep Alive  : 0
Cluster Id           : None
Preference           : 170            Num of Flaps       : 0
Recd. Paths          : 0
```

Node 4

```
# config>service>vprn 300
          route-distinguisher 200:200
          auto-bind ldp
          vrf-target target:100:100
          interface "toCPE4" create
              address 30.1.2.1/24
              sap 1/1/3 create
              exit
          exit
          static-route 40.1.1.1/32 next-hop 30.1.2.2
          bgp
              group "vrf"
                  type external
                  local-as 100
                  neighbor 30.1.2.2
                      peer-as 400
                  exit
              exit
          exit
          no shutdown
# show router 300 bgp neighbor 30.1.2.2

===============================================================================
BGP Neighbor
===============================================================================
-------------------------------------------------------------------------------
Peer : 30.1.2.2        Group : vrf
-------------------------------------------------------------------------------
Peer AS          : 400            Peer Port          : 0
Peer Address     : 30.1.2.2
Local AS         : 100            Local Port         : 0
```

A. Type external has to be configured on Node 2 under group vrf

B. Autonomous-system has to be configured on Node 4 under vprn 300

C. Router-id has to be configured on Node 4 under vprn 300

D. Router-id has to be added under BGP on Node 2

E. EBGP will not work under VPRN

Correct Answer: B

QUESTION 8

Based on the configuration below, which statement best describes the reason why VPLS 101 is not up on all three nodes.

Node 2
10.10.1.2

Node 1
10.10.1.1

Node 3
10.10.1.3
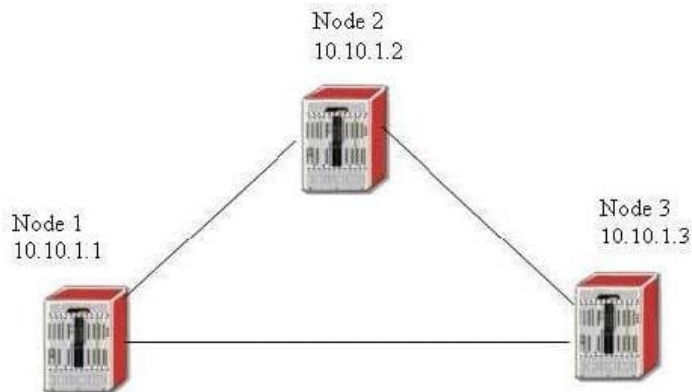
```
Node-1

config>service>
          vpls 101
          stp
              shutdown
          exit
          sap 1/1/5 create
          exit
          spoke-sdp 30:30 create
          exit
          no shutdown
          sdp 30
          far-end 10.10.1.2
          ldp
          keep-alive
              shutdown
          exit
          no shutdown
```

```
Node-2

config>service>
          vpls 101
          stp
```

```
                shutdown
        exit
        spoke-sdp 40:40 create
        exit
        spoke-sdp 50:50 create
        exit
        no shutdown
        sdp 40
        far-end 10.10.1.1
        ldp
        keep-alive
                shutdown
        exit
        no shutdown
        sdp 50
        far-end 10.10.1.3
        ldp
        keep-alive
                shutdown
        exit
        no shutdown
```

Node-3
```
config>service>
        vpls 101
        stp
                shutdown
        exit
        sap 1/1/5 create
        exit
        spoke-sdp 60:60 create
        exit
        no shutdown
        sdp 60
        far-end 10.10.1.2
        ldp
        keep-alive
                shutdown
        exit
        no shutdown
```

A. Service VC id has to match on all three nodes

B. SDP id has to match on all three nodes

C. STP has to be enabled on all three nodes

D. No SAP is configured on Node-2

E. Mesh-sdp has to be used on all three nodes

Correct Answer: A

QUESTION 9

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 10

Which command should be used to enable automatic synchronization for all software images and configuration on the Alcatel 7x50?

A. Admin redundancy synchronization boot-env

B. Admin redundancy synchronization config

C. Configure redundancy synchronize boot-env

D. Configure redundancy synchronize config

E. It is enabled by default

Correct Answer: C

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