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Vendor:Alcatel-Lucent

Exam Code:4A0-110

Exam Name:Alcatel-Lucent Advanced
Troubleshooting

Version:Demo

QUESTION 1

VPRN 300 is configured on Node 3 and Node 4 with LDP and MP-BGP. No route can be found in the VPRN 300 routing table on both Nodes. What is the cause of the problem?

Node 3

```
config>service>vprn 300
  autonomous-system 100
  spoke-sdp 34
  vrf-target export target:100:101 import target:100:100
  interface "toCPE4" create
    address 30.1.2.1/24
    sap 1/1/3 create
  exit
exit
no shutdown
```

Node 4

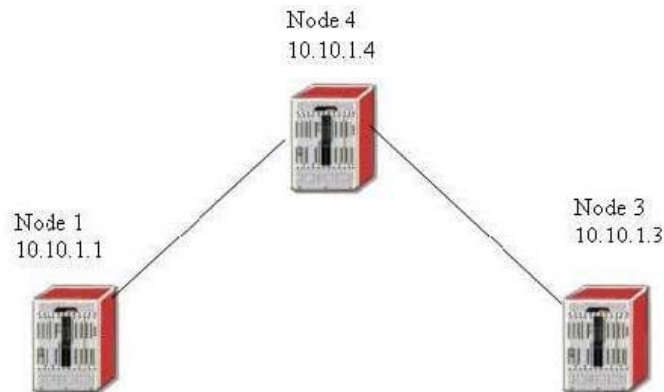
```
config>service>vprn 300
  spoke-sdp 43
  vrf-target export target:100:100 import target:100:101
  interface "toCPE3" create
    address 30.1.1.1/24
    sap 1/1/7:3.4 create
  exit
  static-route 5.5.5.5/32 next-hop 30.1.1.2
no shutdown
```

- A. No static route configured on Node 4
- B. No LDP defined in the VPRN configuration on both nodes
- C. VRF-target does not match on Node 3 and Node 4
- D. Route-distinguisher configuration is missing on Node 3 and Node 4
- E. Encapsulation type on the SAP does not match on Node 3 and Node 4

Correct Answer: D

QUESTION 2

LSP toNode3 is configured on Node1, all hops configured in the lsp path and lsp destination address are reachable via IGP. Both primary and secondary LSP paths are down with failure code equal toRoute ToDestination. What is the potential cause of this problem?



```

config>router>
  mpls
  interface "system"
  exit
  interface "toPod4"
  exit
  interface "toPod3"
  exit
  path "toNode3-strict"
    hop 1 10.10.1.4 strict
    hop 2 10.10.1.3 strict
  no shutdown
  exit
  path "toNode3-loose"
  no shutdown
  exit
  lsp "toNode3"
  to 10.10.1.3
  cspf
  primary "toPod3-strict"
  exit
  secondary "toPod3-loose"
  standby
  exit
  no shutdown
  exit
  no shutdown
  
```

- A. A loose hop has to be configured in path toNode3-loose
- B. The secondary path should not be configured as standby path
- C. No traffic engineering information is exchanged by the IGP protocol
- D. CSPF cannot be enabled with strict hop path
- E. MPLS should not be enabled on interface toPod3

Correct Answer: C

QUESTION 3

Based on the following CLI Output, why is the path toPod3-loose down?

- A. Path toPod3-loose is down because it is secondary path with no standby configured
- B. Path toPod3-loose is down because there is no explicit hop specified

- C. Path toPod3-loose is down because CSPF is not enabled
- D. Path toPod3-loose is down because the destination address 0.10.1.3 is not reachable
- E. Path toPod3-loose is not down because the failure code is oError

Correct Answer: A

QUESTION 4

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
- E. Debug router ospf spf

Correct Answer: BC

QUESTION 5

Which command is used to view alarms of all severity levels on the Alcatel 7x50?

- A. Show log log-id 99
- B. Show alarm
- C. Show log filter-id 1
- D. Show log log-id 100
- E. Show log 99

Correct Answer: A

QUESTION 6

The mesh-sdp binding for a VPLS configured on Node 1 is down with an error serviceMTUMismatch. One sap is configured in the VPLS and it is up with default mtu 1514. The LDP binding display on Node 1 shows that there is a mismatch on the MTU value. What are the required configurations on Node 1 to bring the VPLS up?

Node 1

```
config>service>
  vpls 200
    sap 1/1/5 create
    exit
    spoke-sdp 43:200 create
    exit
    no shutdown

# show router ldp bindings
=====
LDP Service Bindings
=====
Type  VCId  SvcId  SDPId  Peer          IngLbl  EgrLbl  LMTU  RMTU
-----
V-Eth 200    200    43     10.10.1.3     131071U 131070  1500  9176
```

- A. Set the sap port mtu to 9176
- B. Set the service-mtu to 9176
- C. Set the service-mtu to 9190
- D. Set the sap port mtu to 9190
- E. Set the service-mtu to 1514

Correct Answer: CD

QUESTION 7

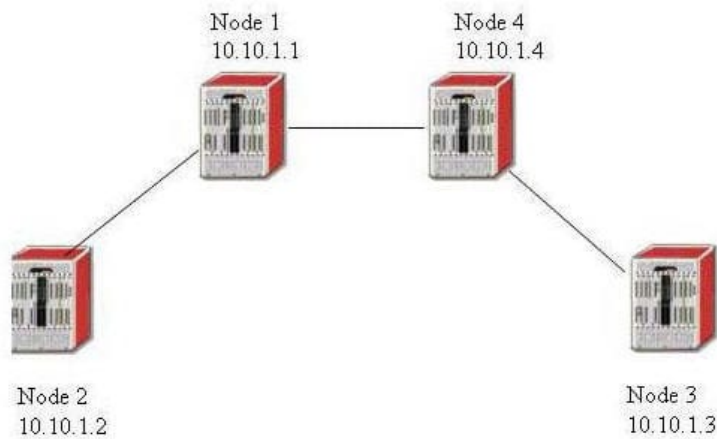
Due to same VPLS mis-configuration, traffic (e.g.ping) is not work between PC1 and PC 2. Choose the best explanation for the problem.

- A. MTU is not configured on all sdp
- 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. Spoke-sdp has to be used on all three nodes

Correct Answer: E

QUESTION 8

A SDP is created on Node-2 with the far end address set to Node-3. The SDP stays down on Node-2. Based on the following CLI output from Node 2, what is the caused of the problem?



Node 2

```

# show service sdp 106 detail
-----
Sdp Id 106 -(10.10.1.3)
-----
SDP Id          : 106
Admin Path MTU  : 0
Far End         : 10.10.1.3
Admin State     : Up
Signaling       : TLDP
Acct. Pol       : None
Last Status Change : 12/18/2006 17:16:36
Last Mgmt Change  : 12/18/2006 16:55:36
Flags           : TransportTunnDown
Oper Path MTU   : 0
Delivery        : LDP
Oper State      : Down
VLAN VC Etype   : 0x8100
Collect Stats   : Disabled
Adv. MTU Over.  : No

# show router ldp session
=====
LDP Sessions
=====
Peer LDP Id      Adj Type State      Mesg Sent  Mesg Recv  Up Time
-----
10.10.1.1:0      Both   Established  36658      121998     3d 07:56:35
10.10.1.3:0      Targeted Established  540         541        0d 00:48:38
10.10.1.4:0      Targeted Established  1183        1183       0d 01:47:15

# show router ldp bindings active
=====
Legend: (S) - Static
=====
LDP Prefix Bindings (Active)
=====
Prefix          Op   IngLbl  EgrLbl  EgrIntf  EgrNextHop
-----
10.10.1.1/32    Push --      131071  1/1/3    10.1.2.1
10.10.1.2/32    Pop  131071  --      --        --
10.10.1.4/32    Push --      131070  1/1/3    10.1.2.1
=====
No. of Prefix Bindings: 3
  
```

- A. No LDP link session between Node 2 and Node 4
- B. No LDP link session between Node 4 and Node 3
- C. No LDP link session between Node 1 and Node 4
- D. No LDP link session between Node 3 and Node 2
- E. None of the above

Correct Answer: B

QUESTION 9

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 10

A LSP is configured with one primary path and one secondary path as below. What configuration is required to make the LSP non-revertive. Choose the best answer.

```
config>router>mpls>
  path "toRouter3-loose"
    no shutdown
  path "toRouter3-backup"
    hop 1 10.10.1.2 loose
    no shutdown
  lsp toRouter3
    to 10.10.1.3
    cspf
    primary "toRouter3-loose"
      bandwidth 600
    secondary "toRouter3-backup"
      standby
      bandwidth 600
      no shutdown
```

- A. Turn off CSPF and remove all the bandwidth reservations
- B. Remove the primary path and configure both paths as secondary
- C. Under asp toRouter3? configure on-revertive
- D. It is not possible to configure the LSP as non-revertive
- E. MPLS fast re-route has to be enabled to make it non-revertive

Correct Answer: B

QUESTION 11

Which one of the following routes should be the best BGP route according to the Alcatel VPRN route selection criteria?

```
# show router 300 bgp routes

Legend -
Status codes : s - suppressed, h - history, d - decayed, * - valid
Origin codes : i - IGP, e - EGP, ? - incomplete,

=====
BGP Routes
=====
Flag  Network      Nexthop      LocalPref  MED
     VPN Label
-----
*i  10.1.4.0/24  30.1.2.2     none       200
                        400
*e  10.1.4.0/24  30.1.3.2     none       none
                        400 500
*?  10.1.4.0/24  30.1.4.2     none       none
                        400
*?  10.1.4.0/24  30.1.5.2     none       100
                        400
*i  10.1.4.0/24  30.1.6.2     none       100
                        400 500
```

- A. The 1st route
- B. The 2nd route
- C. The 3rd route
- D. The 4th route
- E. None of the above

Correct Answer: D

QUESTION 12

Two routers are physically connected to each other with ISIS configured. No ISIS adjacency can be found on both routers. Ping works fine on the local and the remote interface addresses on both routers. Review the configuration information shown below. Which of the following statements best describe the cause of the problem? Select one answer only.

Node-1

```
# show router isis interface
=====
Interface                Level CircID Oper State  L1/L2 Metric
-----
to-Node-2                L1    2      Up         10/-
=====

ISIS Status
=====
System Id       : 0100.1000.1001
Admin State    : Up
Ipv4 Routing   : Enabled
Last Enabled   : 12/14/2006 14:44:59
Level Capability : L1L2
Authentication Check : True
Authentication Type : None
Adjacency Check : loose
L1 Auth Type   : none
L2 Auth Type   : none
L1 CSNP-Authenticati*: Enabled
L1 HELLO-Authenticat*: Enabled
L1 PSNP-Authenticati*: Enabled
L1 Wide Metrics : Disabled
L2 Wide Metrics : Disabled
L1 LSPs        : 1
L2 LSPs        : 3
Last SPF       : 12/14/2006 14:47:16
SPF Wait      : 10 sec (Max)  1000 ms (Initial)  1000 ms (Second)
Export Policies : None
Area Addresses : None
```

Node-2

```
# show router isis interface
=====
Interface                Level CircID Oper State  L1/L2 Metric
-----
toPod1                  L1    3      Up         10/-
=====

Interfaces : 1
=====

ISIS Status
=====
System Id       : 0100.1000.1002
Admin State    : Up
Ipv4 Routing   : Enabled
Ipv6 Routing   : Disabled
Last Enabled   : 12/14/2006 09:57:41
Level Capability : L1L2
Authentication Check : True
Authentication Type : None
Adjacency Check : loose
L1 Auth Type   : none
L2 Auth Type   : none
L1 CSNP-Authenticati*: Enabled
L1 HELLO-Authenticat*: Enabled
L1 PSNP-Authenticati*: Enabled
L1 Wide Metrics : Disabled
L2 Wide Metrics : Disabled
L1 LSPs        : 1
L2 LSPs        : 3
Last SPF       : 12/14/2006 10:00:35
SPF Wait      : 10 sec (Max)  1000 ms (Initial)  1000 ms (Second)
Export Policies : None
Area Addresses : None
```

- A. The ISIS interface level configured does not match the ISIS level capability supported on the routers
- B. The ISIS authentication check is enabled but there is no authentication type and password configured
- C. ISIS Area addresses are not configured on both routers

D. L1 wide Metrics are disabled on the routers

E. ISIS Circuit id does not match on Node-1 and Node-2

Correct Answer: C