



4A0-103^{Q&As}

Alcatel-Lucent Multiprotocol Label Switching

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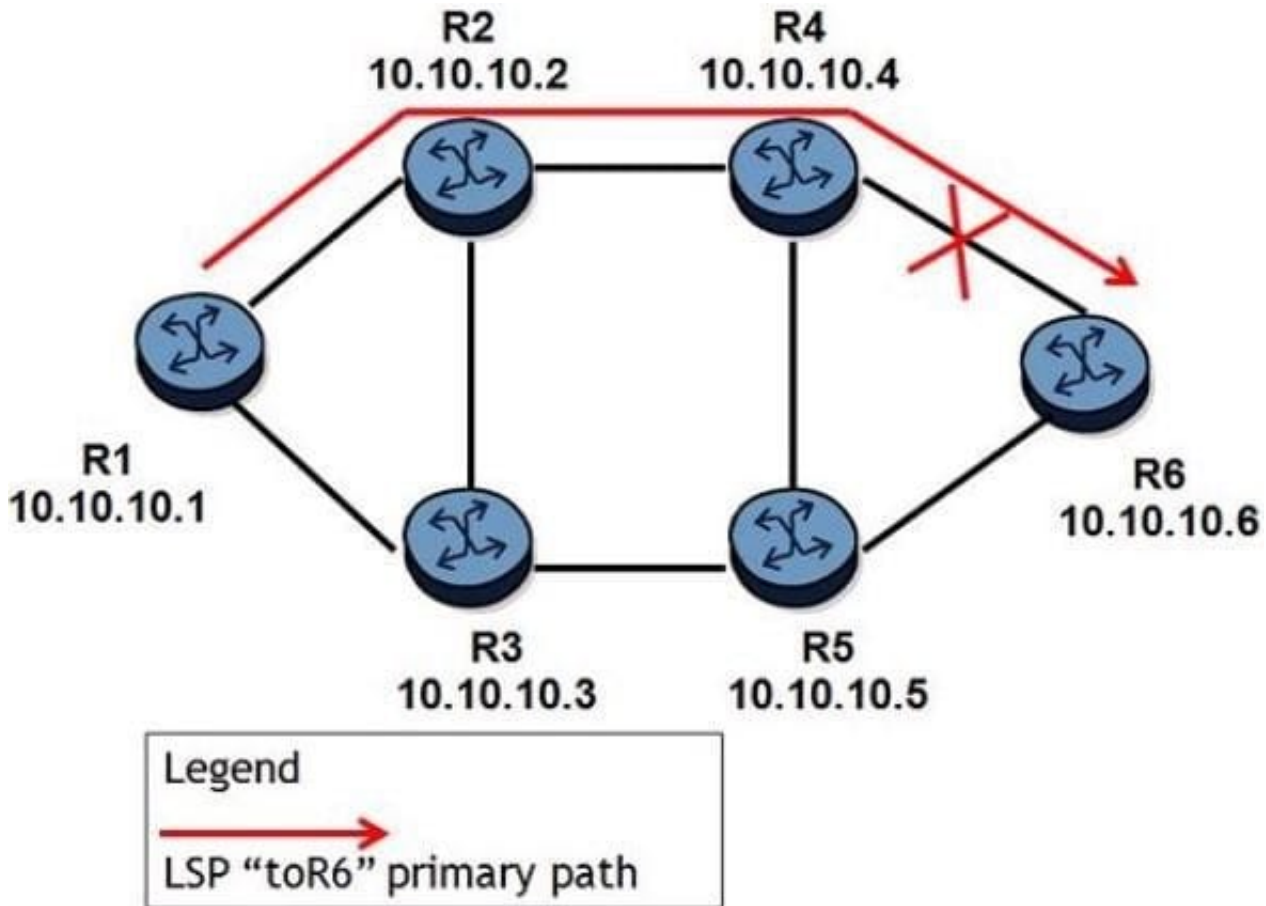
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QUESTION 1

Click on the exhibit.



An LSP path is established on router R1 toward router R6. After router R4 detects that the link between routers R4 and R6 goes down, which of the following will affect the failure propagation time?

- A. The time router R4 takes to send a PATH Error message toward the head-end router.
- B. The time router R4 takes to detect RSVP Hello message timeout from router R6.
- C. The time router R4 takes to send a RESV Error message to the head-end router.
- D. The time router R1 takes to signal an alternate path through router R3.

Correct Answer: A

QUESTION 2

Which of the following is NOT a characteristic of MPLS?

- A. It provides the ability to establish connection oriented paths over a connectionless IP network.



- B. It provides a mechanism to engineer network traffic patterns independently of IP routing tables.
- C. It will work over most physical layer protocols.
- D. It can use GRE tunnels to transport data from many different protocols over an IP network.

Correct Answer: D

QUESTION 3

Click on the exhibit button below.

```
configure router mpls
  path "to-PE2"
    hop 1 10.48.1.1 strict
    hop 2 10.1.3.1 strict
    hop 3 10.1.2.2 strict
    hop 4 10.32.1.2 strict
  no shutdown
exit
lsp "LSP-to-PE2"
  to 10.1.4.78
  cspf
  exit
  primary "to-PE2"
  exit
  no shutdown
exit
no shutdown
```

Given the configuration below, which of the following commands would enable fast reroute on the LSP? Choose two answers

- A. This configuration already is configured for FRR.
- B. fast-reroute facility
- C. fast-reroute one-to-one
- D. secondary
- E. standby



Correct Answer: BC

QUESTION 4

Which of the following are characteristics of ECMP LSPs in LDP? Choose three answers

- A. Liberal label retention mode
- B. T-LDP enabled with peers to which load balancing is desired.
- C. ECMP enabled in the config>router context.
- D. Hashing used to select the egress label.
- E. Export policy applied to advertise multiple labels for a given FEC.

Correct Answer: ACE

QUESTION 5

The destination IP address of a received unlabeled packet is successfully matched in the FIB. Which of the following is FALSE?

- A. A POP label stack operation may be performed.
- B. The outgoing interface and next-hop address will be determined from the FIB.
- C. The packet can be forwarded as a labeled or unlabeled packet.
- D. A PUSH label stack operation may be performed.

Correct Answer: A

QUESTION 6

Click on the exhibit button below.



Exhibit

```
A:MPLS_R1# show router rsvp session originate
```

From	To	Tunnel ID	LSP ID	Name	State
10.10.10.1	10.10.10.2	19	8910	toR2-9::loose	Up
10.10.10.1	10.10.10.2	18	38096	toR2-8::loose	Up
10.10.10.1	10.10.10.2	17	32464	toR2-7::loose	Up
10.10.10.1	10.10.10.2	16	53256	toR2-6::loose	Up

Sessions : 4

Close File Comment Help

Which fields in this output uniquely identify the RSVP session belonging to a single LSP? (Choose three)

- A. Tunnel ID
- B. Name
- C. LSP ID
- D. To

Correct Answer: ABC

QUESTION 7

Click on the exhibit.



```
lsp "LSP-toR6"  
  to 10.10.10.6  
  cspf  
  primary "Path-1"  
  exit  
  secondary "Path-2"  
    standby  
    path-preference 10  
  exit  
  secondary "Path-3"  
    standby  
    path-preference 20  
  exit  
  secondary "Path-4"  
  exit  
no shutdown
```

Both Path-1 and Path-2 are down. If Path-2 becomes available again, how does the headend router select the secondary LSP path?

- A. The router will switch to Path-2 because it is the first secondary path configured in the list.
- B. The router will not switch to Path-2 because the current path has the longest uptime.
- C. The router will switch to Path-2 because it is a more preferred path.
- D. The router will not switch to Path-2 because the router will not revert to another secondary path.

Correct Answer: C

QUESTION 8

Click on the exhibit button below.



```
Exhibit
A:PE-1# show router ldp bindings active
=====
Legend: (S) - Static
=====
LDP Prefix Bindings (Active)
=====
Prefix                Op    IngLbl  EgrLbl  EgrIntf  EgrNextHop
-----
10.10.10.60/32        Push  --      131067  1/2/1    10.16.1.1
10.10.10.61/32        Push  --      131071  1/2/1    10.16.1.1
10.10.10.62/32        Push  --      131070  1/2/1    10.16.1.1
10.10.10.66/32        Push  --      131069  1/2/1    10.16.1.1
10.10.10.67/32        Pop   131071  --      --      --
10.10.10.156/32       Push  --      131066  1/2/1    10.16.1.1
=====
No. of Prefix Bindings: 6
=====
A:PE-1#
```

Close File Comment Help

Consider the output shown; what table is displayed?

- A. RIB
- B. FIB
- C. LIB
- D. LFIB

Correct Answer: D

QUESTION 9

Which of the following describes constraint-based routing?

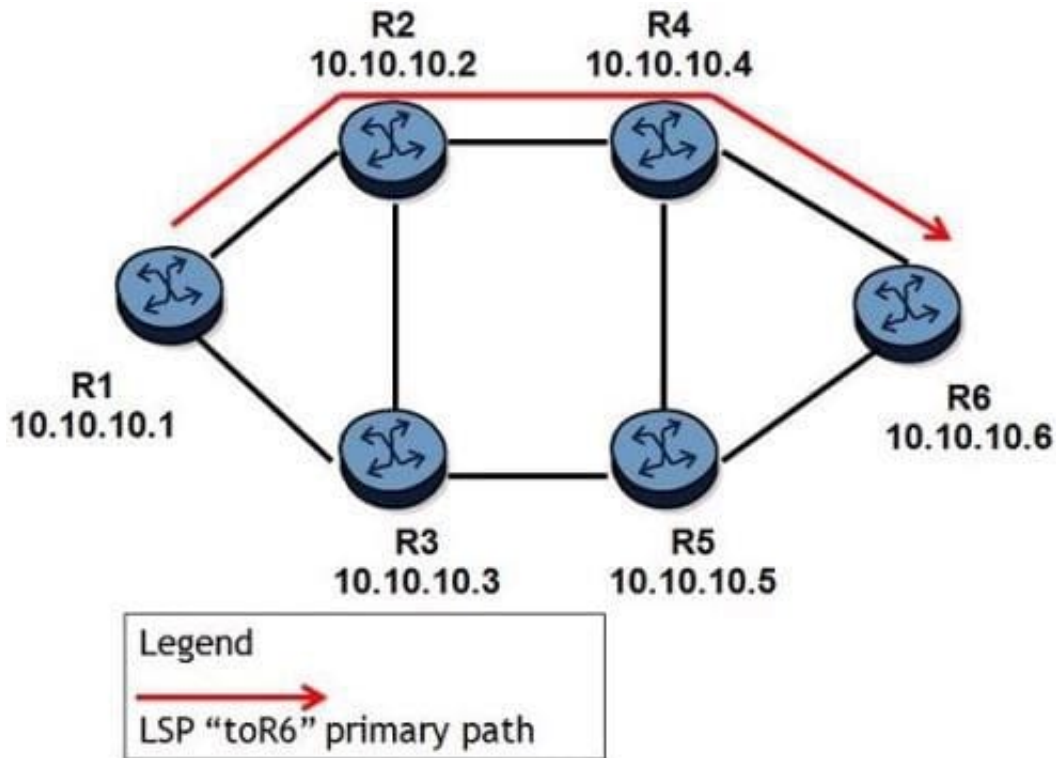
- A. A mechanism that implements opaque LSAs.
- B. A mechanism that computes routes based on specified requirements.
- C. A mechanism that ensures the IGP best route is used.
- D. A mechanism that enables LDP signaling to use a route other than the IGP best route.

Correct Answer: B

QUESTION 10



Click on the exhibit.



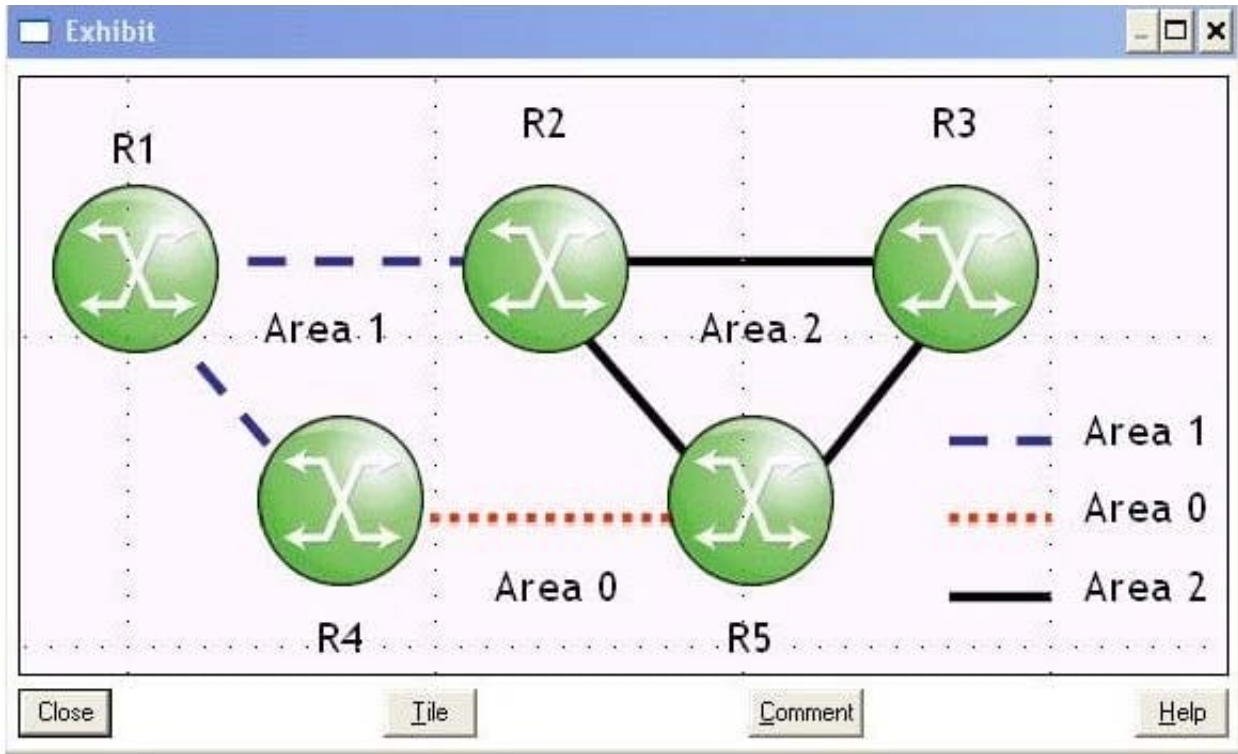
The LSP "toR6" is configured with a fully strict path on an Alcatel-Lucent 7750 SR. Which of the following configurations is required to enable fast reroute for this LSP?

- A. Enable fast-reroute on all routers along the path. R1, R2, R4, and R6.
- B. Enable both link-protection and node-protection on router R1.
- C. Enable fast-reroute with either one-to-one or facility mode on this LSP.
- D. Enable link-protection only on router R4.

Correct Answer: C

QUESTION 11

Click on the exhibit button below.



Consider the following:

- Routers R1 and R4 are in Area 1.

Routers R1 and R4 are in Area 1.

Consider the following:

Routers R4 and R5 in Area 0.

Routers R5 and R3 are in Area 2.

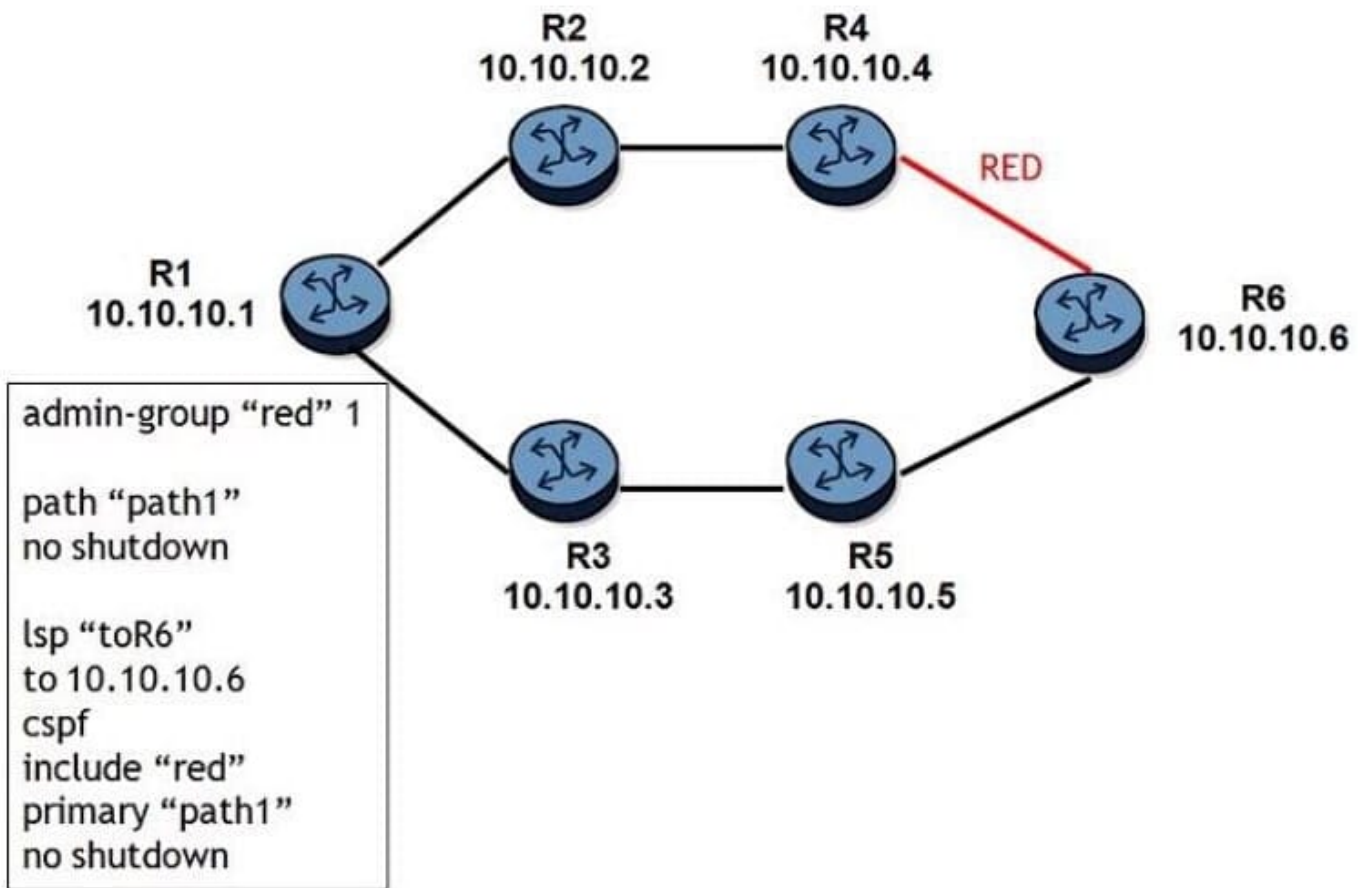
To support LDP-over-RSVP tunnels between routers R1 and R3 over path R1-R4-R5-R3, with which routers will router R5 require targeted sessions? (Choose two)

- A. Router R1
- B. Router R4
- C. Router R2
- D. Router R3

Correct Answer: BD

QUESTION 12

Click on the exhibit.



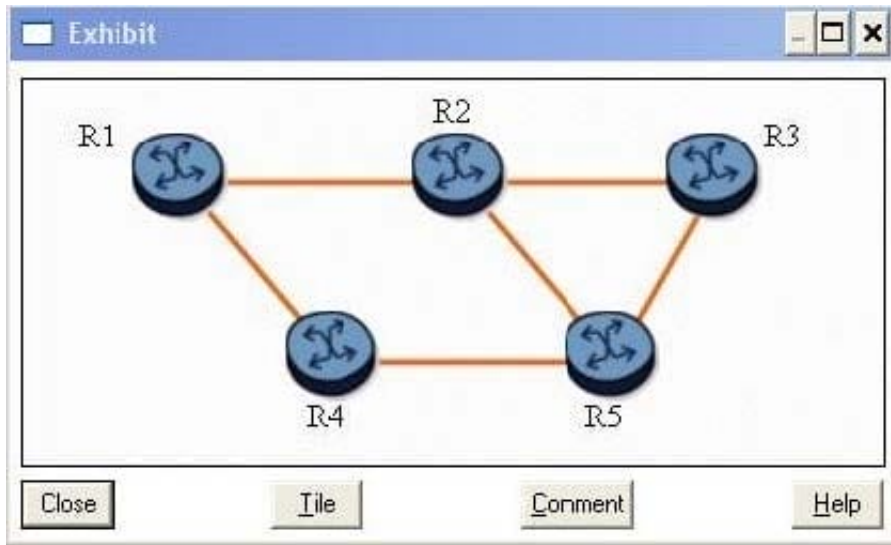
The link between routers R4 and R6 are configured with an admin group "red". What happens when the LSP is first signaled?

- A. The LSP will go through the path R1-R2-R4-R6.
- B. The LSP will go through the path R1-R3-R5-R6.
- C. The LSP is down because router R1 detects that no path can meet its constraints.
- D. The LSP is down because router R4 detects that no path can meet its constraints.

Correct Answer: C

QUESTION 13

Click on the exhibit button below.



Assuming that LSP R1-R2-R3 requests the default fast reroute configuration, which router becomes a DMP for the detour tunnels?

- A. Router R1
- B. Router R2
- C. Router R3
- D. Router R4
- E. Router R5

Correct Answer: E

QUESTION 14

Assume that, on the Alcatel-Lucent 7750 SR, an LSP is configured with one-to-one FRR and node protection. Which of the following statements are FALSE? (Choose two)

- A. Each PLR signals a detour LSP that avoids the downstream node. If the downstream node cannot be avoided, a detour LSP that avoids the downstream link is signaled.
- B. The detour LSP can take one or more hops before merging back on the protected LSP.
- C. The merge point of the protected LSP must be the next-next-hop node
- D. The ingress router will set the local protection desired flag in the session attribute object of the path message to inform all routers along the protected LSP path to establish detour LSPs.
- E. The label recording desired flag must be set in the session attribute object in order for the PLR to know what label to swap when using the detour LSP.

Correct Answer: CE



QUESTION 15

Which of the following is NOT an advantage of MPLS shortcuts for BGP traffic?

- A. It makes use of MPLS resiliency features available within an AS.
- B. It eliminates double route lookups on all routers within an AS.
- C. It eliminates the need to run IGP on all routers within an AS.
- D. It eliminates the need for an iBGP full mesh on all core routers.

Correct Answer: C

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