



Vendor: Alcatel-Lucent

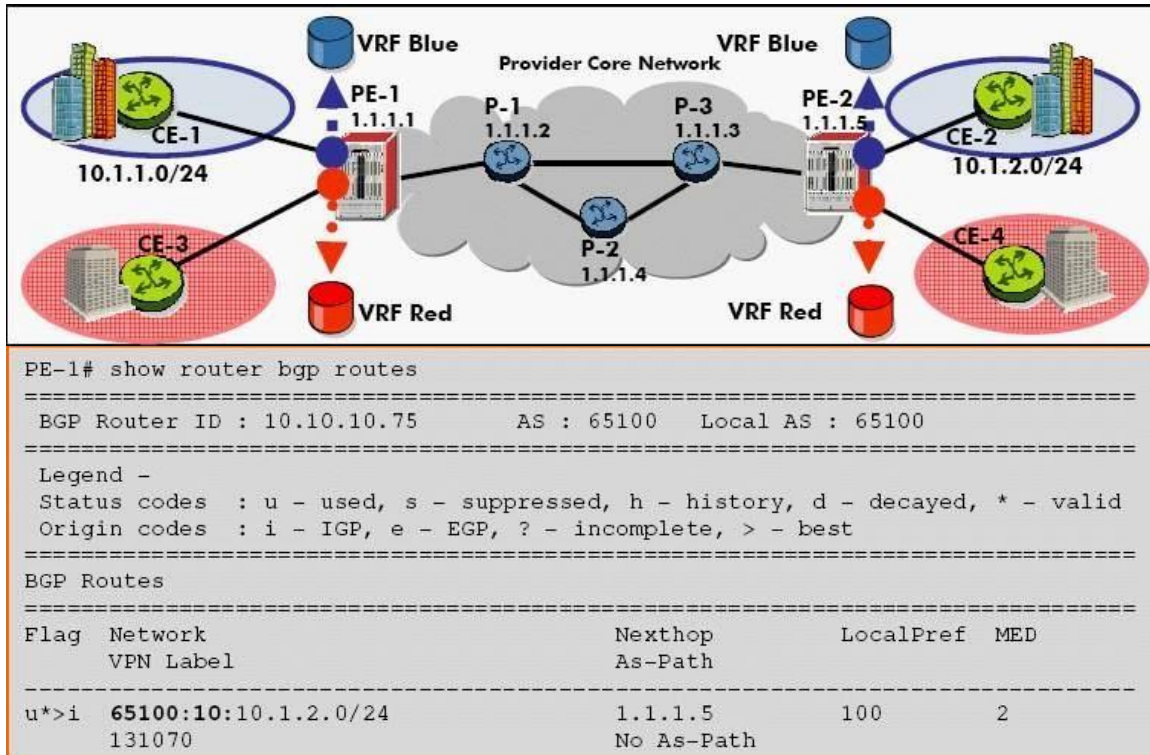
Exam Code: 4A0-106

Exam Name: Alcatel-Lucent Virtual Private Routed
Networks

Version: DEMO

QUESTION 1

Given the following VPRN topology: The VPRN service 10 is correctly configured and operational with OSPF as the PE to CE routing protocol at both customer sites. The OSPF database on CE-A contains Type 1 LSAs. These routes will appear as what LSA type on CE-B?



- A. These routes will not appear on CE-B
- B. type 1 LSAs
- C. type 3 LSAs
- D. type 5 LSAs
- E. type 7 LSAs

Answer: D

QUESTION 2

Which of the following statements best describes the output from an Alcatel-Lucent 7750 SR shown below?

- A. The As-Path is not present as it was removed with the s-override configuration command
- B. The As-Path is not present as it was removed with the o-as-path configuration command
- C. The As-Path is not present as a policy was configured to set it to the null value
- D. The As-Path is not present as VPN-IPv4 routes do not propagate the IPv4 As-Path BGP attribute

Answer: C

QUESTION 3

In the output from an Alcatel-Lucent 7750 SR shown below, what does the highlighted text represent?

```
A:PE-1# show router bgp routes
=====
BGP Router ID : 10.10.10.10      AS : 65100      Local AS : 65100
=====
Legend -
Status codes : u - used, s - suppressed, h - history, d - decayed, * - valid
Origin codes : i - IGP, e - EGP, ? - incomplete, > - best
=====
BGP Routes
=====
```

Flag	Network VPN Label	Nexthop As-Path	LocalPref	MED
u*>?	65100:10:10.1.2.0/24 131071	10.10.10.50 No As-Path	100	none
u*>?	65100:10:10.10.10.78/32 131071	10.10.10.50 No As-Path	100	none
u*>i	65100:10:10.32.1.0/24 131071	10.10.10.50 No As-Path	100	none

- A. The LDP identifier
- B. The Service identifier
- C. The Route TargetC.The Route TargetC.The Route Target
- D. The Route DistinguisherD.The Route DistinguisherD.The Route Distinguisher
- E. The tunnel labelE.The tunnel labelE.The tunnel label

Answer: D

QUESTION 4

When configuring BGP as the PE-CE protocol on an Alcatel-Lucent 7750 SR, the configuration on the CE is done under the _____ context and the PE configuration is under the _____ context.

```
A:CE-1# show router bgp routes
=====
BGP Router ID : 10.10.10.76      AS : 65200      Local AS : 65200
=====
Legend -
Status codes : u - used, s - suppressed, h - history, d - decayed, * - valid
Origin codes : i - IGP, e - EGP, ? - incomplete, > - best
=====
BGP Routes
=====
```

Flag	Network VPN Label	Nexthop As-Path	LocalPref	MED
u*>?	10.1.2.0/24	10.16.1.1 65100 65100	none	none
u*>?	10.10.10.78/32	10.16.1.1 65100 65100	none	none
u*>i	10.32.1.0/24	10.16.1.1 65100	none	none

- A. global, router
- B. router, router
- C. service, router
- D. router, service
- E. service, service
- F. router, global

Answer: D

QUESTION 5

Assuming that as-override has been used, which of the following statements describes the most likely location of prefix 10.1.2.0/24, based on the output from an Alcatel-Lucent 7750 SR shown below?

```
1. PE-1# configure service
2. PE-1>config>service# sdp 42 mpls create
3. PE-1>config>service>sdp$ far-end 1.1.1.5
4. PE-1>config>service>sdp$ lsp "To-PE2"
5. PE-1>config>service>sdp$ no shutdown
6. PE-1>config>service>sdp$ exit
7. PE-1>config>service# vprn 100
8. PE-1>config>service>vprn# spoke-sdp 42 create
9. PE-1>config>service>vprn>sdp$ exit
10. PE-1>config>service>vprn# exit
11. PE-1>config>service# exit
12. PE-1>config# router ldp shut
13. PE-1>config# exit
```

- A. It is located in an Autonomous System directly connected to this router
- B. There is a single Autonomous System between the local AS and the AS that originated the prefix
- C. There are two Autonomous Systems between the local AS and the AS that originated the prefix
- D. There may be two or more Autonomous Systems between the local AS and the AS that originated the prefix
- E. It is located in Autonomous System 65100

Answer: B

QUESTION 6

An SDP has been configured for a VPRN service using an existing MPLS LSP and the configuration shown below. Which of the statements below is true about the configuration on an Alcatel-Lucent 7750 SR?

- A. The configuration is incomplete as the uto-bind command is missing
- B. The configuration is incomplete as the ignaling off command is missing
- C. The configuration is incorrect as VPRN service does not support spoke-sdp configuration using MPLS LSPs
- D. The configuration is incorrect as Line 8 should be poke-sdp 42 mpls create
- E. The configuration is complete and correct

Answer: B

QUESTION 7

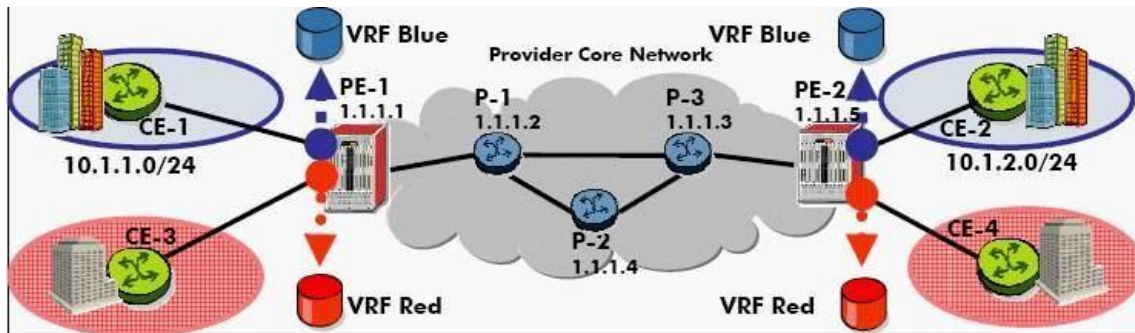
True or False? An advantage of using BGP as the PE-CE protocol is that route policies are no longer required to control the exchange of routes from BGP to MP-BGP.

- A. True
- B. False

Answer: B

QUESTION 8

Which of the following commands on an Alcatel-Lucent 7750 SR will verify connectivity for a VPRN service <service-id> when issued from the PE?



- A. oam vprn-ping <service-id> source <source-ip> destination <destination-ip>
- B. oam <service-id> vprn-ping source <source-ip> destination <destination-ip>
- C. vprn-ping router <service-id> <destination-ip>
- D. ping <destination-ip> source <source-ip>

Answer: A

QUESTION 9

What mechanism allows routes to be shared between customers in different VPRNs?

- A. The routes to be shared are identified by common route targets
- B. The routes to be shared are identified by common route distinguishers
- C. The routes to be shared are identified by common AS numbers
- D. The routes to be shared are identified by common VPN labels

Answer: A

QUESTION 10

When a Service Provider offers VPRN services to its customers, which of the following functions are expected to be the responsibility of the Service Provider? (Choose three)

- A. Distributing the customer generated labels between sites
- B. Distributing the customer routing information between sites
- C. Distributing the customer? routing

information between sites

- C. Forwarding the customer originated data packets to the appropriate destination
- D. Forwarding the provider originated data packets to the appropriate customer site
- E. Providing secure layer 3 routing exchange between sites

Answer: BCE

QUESTION 11

If you are configuring MP-BGP routing for MPLS Layer 3 VPNs, when should the redistribute connected command be used?

- A. when the customer requires a static default route to be advertised
- B. when the PE is supporting more than one VRF instance for the same customer CE
- C. when the customer does not have CE routers and the PE is the default gateway
- D. every time the MP-BGP redistribution function is enabled

Answer: C

QUESTION 12

In a central services topology, which routes do client VRFs contain?

- A. routes from the client site, but not from the server site
- B. routes from the server site, but not from the client site
- C. routes from both the client site and the server site
- D. only EBGp routes from either the client site or the server site

Answer: C

QUESTION 13

In a VPRN, how does the service provider ensure that customer addresses are unique when multiple customers use the same address space?

- A. It is the customer responsibility to ensure their address space is unique
- B. The Route Distinguisher ensures that addresses are unique between customers.
- C. The Route Target ensures that addresses are unique between customers
- D. The provider will advise the customers to change their addresses
- E. The provider will use NAT to ensure that addresses are unique between customers

Answer: B

QUESTION 14

Which of the following statements is true regarding the Route Distinguisher? (Choose three)

- A. It is an 8 byte value containing 3 fields
- B. The Route Distinguisher must have the same value as the Route Target.
- C. The Administrator field contains either an AS number or an IP number
- D. To ensure uniqueness, Route Distinguishers are assigned by the IANA.

- E. The Route Distinguisher is not used if the customer addresses do not overlap
- F. The Assigned Number field must contain a public IP address

Answer: ABC

QUESTION 15

In a VPRN, which of the following are supported as PE-CE routing methods on the Alcatel-Lucent 7750 SR? (Choose four).

- A. Static
- B. RIP
- C. OSPF
- D. IS-IS
- E. MP-BGP
- F. BGP

Answer: ABCF

QUESTION 16

Which method does the Alcatel-Lucent 7750 SR use for the allocation of VPRN labels?

- A. One label per route
- B. One label per next-hop
- C. One label per VRF
- D. One label per prefix
- E. One label per tunnel

Answer: C

QUESTION 17

In a provider core consisting of 6 PE and 4 P routers, what is the minimum number of BGP sessions required in total for correct operation of VPRN services?

- A. 0
- B. 5
- C. 10
- D. 15
- E. 45

Answer: D

QUESTION 18

At what point does the Route Target become associated with a route?

- A. When the route is first received at the P from the PE
- B. When the route from the CE is populated into the VRF at the PE
- C. When the route from the PE is populated into the VRF at the CE
- D. When the route is propagated from the PE to the CE

E. When the route is exported into the MP-BGP table from the VRF

Answer: E

QUESTION 19

For what purpose can the ip vrf sitemap route-map-name command be used?

- A. applies a route map for setting the SOO
- B. applies a route map for setting the Down Bit
- C. applies a route map for setting the Routing Bit
- D. applies a route map for setting the RD
- E. applies a route map for setting the RT
- F. applies a route map for setting the VRF name

Answer: A

QUESTION 20

Within the VRF configuration mode, the import map and the export map commands are used for which purpose?

- A. to reference the import and export route-maps that are used to limit the maximum number of routes in a VRF
- B. to reference the import and export route-maps that are used to selectively specify additional criteria for route-targets import and export
- C. to reference the import and export route-maps that are used to filter the routes that are redistributed into MPBGP
- D. to reference the import and export route-maps that are used to set loop avoidance parameters such as SOO
- E. mandatory VRF commands to specify the import and export route-targets

Answer: B

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