

300-510^{Q&As}

Implementing Cisco Service Provider Advanced Routing Solutions (SPRI)

Pass Cisco 300-510 Exam with 100% Guarantee

Free Download Real Questions & Answers **PDF** and **VCE** file from:

https://www.lead4pass.com/300-510.html

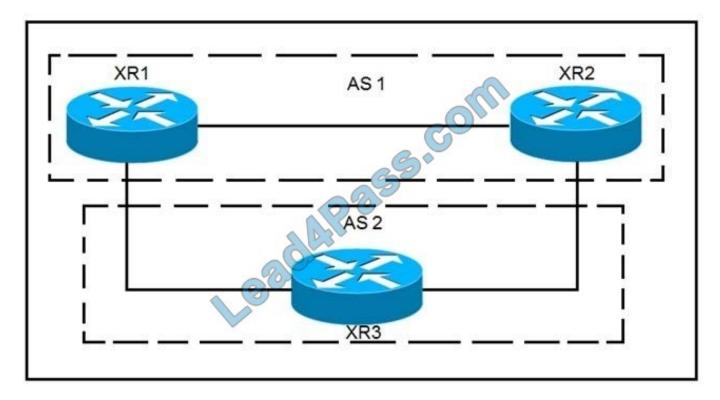
100% Passing Guarantee 100% Money Back Assurance

Following Questions and Answers are all new published by Cisco
Official Exam Center

- Instant Download After Purchase
- 100% Money Back Guarantee
- 365 Days Free Update
- 800,000+ Satisfied Customers



QUESTION 1



Refer to the exhibit. XR1 and XR2 are sending the prefix 10.11.11.0/24 to XR3. A configured policy on XR1 is incorrectly prepending AS path 11 11 12 12 onto this prefix. A network operator wants to add a policy onto XR3 that will not allow the falsely prepending prefix from being installed.

Which policy configuration applied to the XR3 neighbor configuration for XR1 can accomplish this requirement without impact to other or future received routes?



```
A route-policy NO_PREPEND
     if as-path passes-through '11' then
     pass
     else
     drop
     endif
    end-policy
B.
   route-policy NO_PREPEND
     if as-path prepends
     drop
                     SS.COM
     else
     pass
     endif
    end-policy
c. route-policy NO_PREPEND
     if as-path passes-through '1' then
     pass
     else
     drop
     endif
    end-policy
   route-policy NO PREPEND
    if as-path passes-through '11' then
     drop
    else
     pass
    endif
    end-policy
A. Option A
B. Option B
C. Option C
D. Option D
```

Correct Answer: D

2021 Latest lead4pass 300-510 PDF and VCE dumps Download

 $Reference: https://www.cisco.com/c/en/us/td/docs/routers/crs/software/crs_r4-1/routing/command/reference/b_routing_cr41crs/b_routing_cr41crs_chapter_01000.html \#wp3850885229$

QUESTION 2

R1#sh ip int bri Interface FastEthernet0/0 FastEthernet0/1	IP-Address 10.1.12.1 10.1.13.1	OK? Method Status YES manual up YES manual up	Protocol up up
R1#sh run s router bgp !			
router bgp 123 bgp log-neighbor-chang	os.		
neighbor TEST peer-gro	up		
neighbor TEST remote-a neighbor 10.1.12.2 peer			
neighbor 10.1.13.3 peer	-group IESI	G	
D2#ch in int hri		65°	
R2#sh ip int bri Interface	IP-Address	OK? Method Status	Protocol
FastEthernet0/0	10.1.12.2	YES manual up	up
R2#sh run s router bgp			
! router bgp 2	The same		
bgp log-neighbor-chang			
neighbor 10.1.12.1 remo	ote-as 123		
R3#sh ip int bri			10702 100 161
Interface FastEthernet0/1	IP-Address 10.1.13.3	OK? Method Status YES manual up	Protocol up
# 10 March 1	100000000000 0000		2000
R3#sh run s router bgp			
router bgp 3 bgp log-neighbor-chang			
neighbor 10.1.13.1 remo	ote-as 123		

Refer to the exhibit. R1 is directly connected to R2 and R3. R1 is in BGP AS 123, R2 is in BGP AS 2, and R3 is in BGP AS 3. Assume that there is no connectivity issue between R1, R2 and R1, R3. Which result between BGP peers R1, R2



2021 Latest lead4pass 300-510 PDF and VCE dumps Download

and R1, R3 is true?

- A. The BGP session does not come up between R1 and R2 and between R1 and R3.
- B. The BGP session comes up between R1 and R2 and between R1 and R3.
- C. The BGP session comes up between R1 and R3, but not between R1 and R2.
- D. The BGP session comes up between R1 and R2, but not between R1 and R3.

Correct Answer: B

QUESTION 3



```
RP/0/0/CPU/0:P1#
key chain BGP
key 1
accept-lifetime 13:14:06 february 14 1993 infinitive
send-lifetime 13:14:06 february 14 1993 infinitive
key-string password cisco123
cryptographic-algorithm MD5
router bap 1
address-family ipv4 unicast
 neychain BGP address-family ipv4 unicast
neighbor 192.168.13.3
RP/0/0/CPU/0:PE3#
key chain BGP
key 1
accept-lifetime 13:14:06 february 14 1993 infinitive
send-lifetime 13:14:06 february 14 1993 infinitive
key-string password cisco123
cryptographic-algorithm MD5
router bgp 1
address-family ipv4 unicast
neighbor 192.168.13.1
  remote-as 1
  keychain BGP
  address-family ipv4 unicast
```

Refer to the exhibit. P1 and PE3 Cisco IOS XR routers are directly connected and have this configuration applied. The

VCE & PDF Lead4Pass.com

https://www.lead4pass.com/300-510.html

2021 Latest lead4pass 300-510 PDF and VCE dumps Download

BGP session is not coming up. Assume that there is no IP reachability problem and both routers can open tcp port 179 to each other.

Which two actions fix the issue? (Choose two.)

- A. Change MD5 to HMAC-SHA1-12
- B. Change MD5 to HMAC-ESP
- C. Change MD5 to SHA-1
- D. Change MD5 to HMAC-MD5
- E. Remove the send and accept lifetime under key 1

Correct Answer: AD

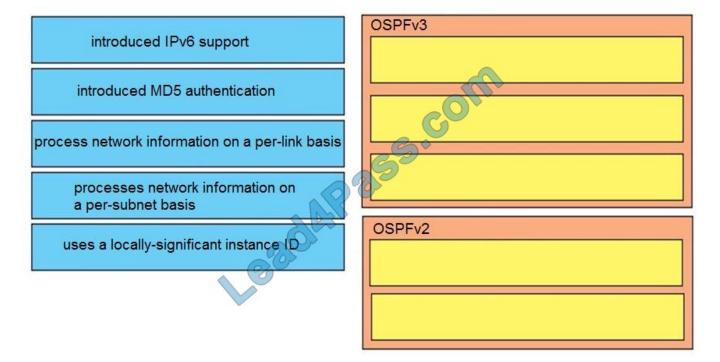
 $Reference: https://www.cisco.com/c/en/us/td/docs/routers/crs/software/crs_r4-0/security/configuration/guide/sc40crsbook_chapter5.html \\$

QUESTION 4

DRAG DROP

Compare different features between OSPFv2 and OSPFv3. Drag and drop the descriptions of OSPF from the left onto the correct OSPF versions on the right.

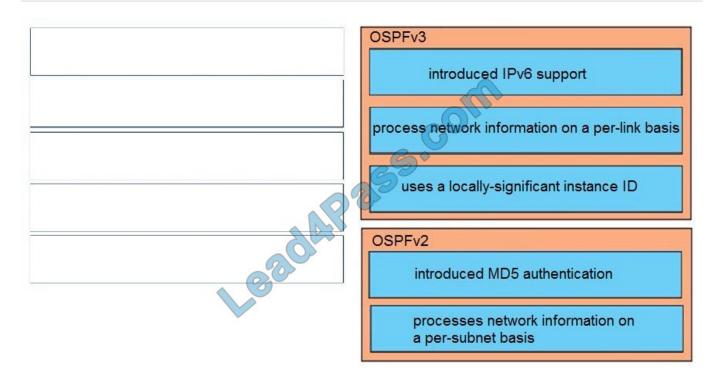
Select and Place:



Correct Answer:

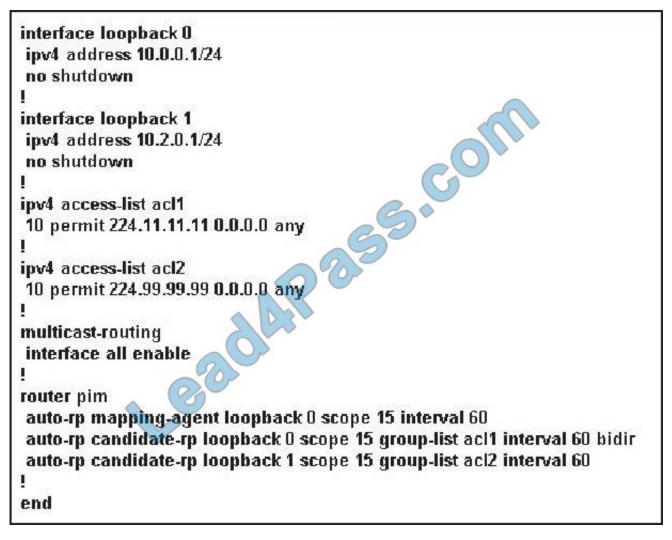


https://www.lead4pass.com/300-510.html 2021 Latest lead4pass 300-510 PDF and VCE dumps Download



QUESTION 5

Refer to the exhibit.



Which three statements are correct regarding the Cisco IOS-XR configuration? (Choose three.)

- A. This router, acting as the RP mapping agent, will send RP announcement messages to the 224.0.1.40 group
- B. This router, acting as the RP mapping agent, will send RP discovery messages to the 224.0.1.39 group
- C. This router is the RP mapping agent only for the 224.11.11.11 and 224.99.99.99 multicast groups
- D. This router is a candidate PIM-SM RP for the 224.99.99.99 multicast group
- E. This router is a candidate PIM-BIDIR RP for the 224.11.11.11 multicast group
- F. IGMPv3 is enabled on all interfaces
- G. Other routers will recognize this router as the RP for all multicast groups with this router loopback 0 IP address

Correct Answer: DEF

QUESTION 6

Router 1:

interface tunnel-te12
ipv4 unnumbered loopback0
autoroute announce
destination 192.168.1.2
path-option 12 dynamic segment-routing
path-protection

Refer to the exhibit. Router 1 has established an SR-TE tunnel with router 2. Which statement describes this configuration?

- A. Router 1 has a list of labels used to explicitly lay out a path to router 2.
- B. Router 1 and router 2 have a bidirectional tunnel set up with dynamic path selection.
- C. Router 1 is the head-end tunnel and has dynamically chosen a path to router 2.
- D. Router 2 is the head-end tunnel and has explicitly set a path to router 1.

Correct Answer: C

QUESTION 7

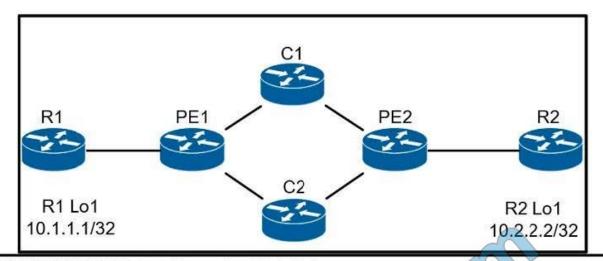
After an engineer configures BGP in R1, it starts receiving this message Jun 29 13:30:50.122: %BGP-5-ADJCHANGE: neighbor 192.168.10.1 Down User reset Jun 29 13:30:52.341: %BGP-3-NOTIFICATION: sent to neighbor 192.168.10.1 2/6 (unacceptable hold time) 0 bytes Which action makes the peering come back up again?

- A. Make a soft reset to the peer.
- B. Set up a minimum hold-down timer higher.
- C. Set up a hello timer higher.
- D. Set up a hold-down timer higher.

Correct Answer: B

QUESTION 8

Refer to the exhibits.



RP/0/0/CPU0:PE1#show ip route 10.2.2.2
Fri Jun 28 01:03:49.698 UTC

Routing entry for 10.2.2.2/32
Known via "bgp 1", distance 200, metric 0, type internal Installed Jun 27 23:27:12.395 for 01:36:37
Routing Descriptor Blocks
10.0.0.33, from 192.168.0.7

Route metric is 0 No advertising protos.

RP/0/0/CPU0:PE1#

Local	Outgoing	Prefix	Outgoing	Next Hop	Bytes
Label	Label	or ID	Interface		Switched
24000	Pop 🔷	192.168.0.2/32	Gi0/0/0/3	10.0.0.5	1644
24001	24000	192.168.0.4/32	Gi0/0/0/2	10.0.0.30	24647
	24000	192.168.0.4/32	Gi0/0/0/3	10.0.0.5	0
24002	Pop	192.168.0.6/32	Gi0/0/0/2	10.0.0.30	12412
24003	24001	192.168.0.7/32	Gi0/0/0/2	10.0.0.30	22359
	24001	192.168.0.7/32	Gi0/0/0/3	10.0.0.5	1473
24004	Pop	10.0.0.20/30	Gi0/0/0/3	10.0.0.5	0
24005	Pop	10.0.0.16/30	Gi0/0/0/2	10.0.0.30	0
	Pop	10.0.0.16/30	Gi0/0/0/3	10.0.0.5	0
24006	Pop	10.0.0.40/30	Gi0/0/0/2	10.0.0.30	0
24007	24002	10.0.0.32/30	G10/0/0/2	10.0.0.30	0
	24002	10.0.0.32/30	Gi0/0/0/3	10.0.0.5	7045024
24009	Unlabelled	10.1.1.1/32	Gi0/0/0/0	10.0.0.9	7037648

A network operator is troubleshooting packet loss seen from the R1 loopback interface to the R2 loopback interface over the core network. The operator is attempting to identify the next leg in the path from PE1. Which interface and label path should the operator investigate next?

2021 Latest lead4pass 300-510 PDF and VCE dumps Download

A. PE1 - Gi0/0/0/3 - forwarding label 24002

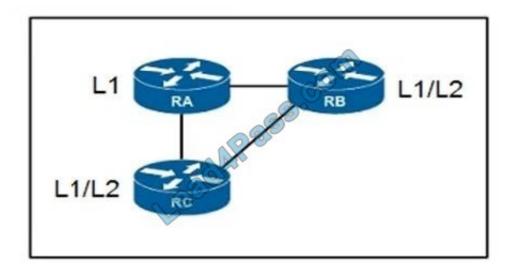
B. PE1 - Gi0/0/0/2 - forwarding label 24002

C. PE1 - Gi0/0/0/3 - forwarding label 24001

D. PE1 - Gi0/0/0/2 - forwarding label 24001

Correct Answer: C

QUESTION 9



Refer to the exhibit. Routers RA and RB are IS-IS peers configured for NSF, but router RC is an IS-IS peer without NSF capability. If RA undergoes processor switchover, what is the effect on the network environment?

A. If RC is operating without the Cisco configuration option, only 2 routers tear down their peering relationships and reestablish peering

B. All peer relationships remain up, but the link-state database is rebuild on each device

C. If RC is operating without the Cisco configuration option, all three routers tear down their peering relationships and reestablish peering

D. All peer relationships remain up and the link-state database is unchanged

Correct Answer: B

QUESTION 10

Refer to the exhibit.

2021 Latest lead4pass 300-510 PDF and VCE dumps Download

R1 S1/0 S1/0/1 R2

R1# show ip ospf interface serial1/0

(output limited)

Serial 1/0 is up, line protocol is up

Internet Address 172.16.1.0/32, Area 0

Process ID 1, Router ID 1.11, Network Type BROADCAST, Cost: 64

Transmit Delay is 1 sec, State DR, Priority 0

Designated Router (ID) 172.16.1.0, Interface address 172.16.1.0

While configuring router 2 with all the default values, a network engineer cannot see any route received in router 1. How should the engineer solve the issue?

- A. Set up a priority different than 0 in the interface.
- B. Modify the router ID to be the interface IP on the serial.
- C. Modify the IP address or mask of the interface to a valid one.
- D. Set the network type in S1/0 to point-to-point.

Correct Answer: C

QUESTION 11

What is the purpose of a BGP confederation?

- A. It limits the number of routes a device receives from its peers, which reduces CPU load.
- B. It improves service by increasing the number of simultaneous iBGP peering sessions.
- C. It redirects traffic away from route reflectors, which reduces their operating load.
- D. It reduces the number of iBGP peers and increases stability.

Correct Answer: D

QUESTION 12

In a PIM-SM environment, which mechanism determines the traffic that a receiver receives?

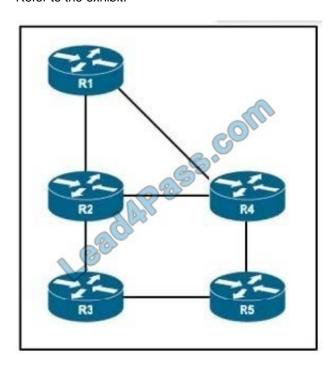
2021 Latest lead4pass 300-510 PDF and VCE dumps Download

- A. The receiver explicitly requests its desired traffic from the RP on the shared tree.
- B. The receiver explicitly requests traffic from a single source, which responds by forwarding all traffic.
- C. The RP on the shared tree floods traffic out of all PIM configured interfaces.
- D. The receiver explicitly requests traffic from each desired source, which responds by sending all traffic.

Correct Answer: D

QUESTION 13

Refer to the exhibit.



An engineer has configured all routers in the environment to run IS-IS Level 1 and Level 2 routing. The engineer wants traffic from R1 to R5 to pass via R2. but IS-IS routing has calculated the best path via R4. Which action corrects the problem?

- A. Configure routers R1, R4, and R5 for Level 2 routing only.
- B. Set the link metric for the link from router R1 to router R4 to 30 or more.
- C. Set the link metric on R2 for the links from router R2 to routers R3 and R4 to 30 or more.
- D. Configure routers R1, R2, and R5 for Level 1 routing only.

Correct Answer: B

QUESTION 14



2021 Latest lead4pass 300-510 PDF and VCE dumps Download

An engineer is working to implement segment routing protocol on the customer\\'s core network. Which step should the engineer take before the segment routing is enabled and is running with BGP?

- A. Segment routing must be configured with ISIS.
- B. Segment routing must be configured with EIGRP.
- C. Explicit-null must be configured for all neighbors.
- D. MPLS must be configured.

Correct Answer: D

QUESTION 15

In which four ways does DHCPv6 differ from DHCPv4? (Choose four.)

- A. DHCPv6 uses the same message types as DHCPv4.
- B. DHCPv4 functions without external protocols.
- C. A host discovers a DHCPv6 server by using a DHCP Discover packet.
- D. A hosts discovers a DHCPv6 server by using a DHCP Solicit packet.
- E. A DHCPv6 server replies with a DHCP Offer packet.
- F. A DHCP server replies with a DHCP Advertise message.
- G. An IPv6 host can request multiple addresses at the same time from a DHCPv6 server.
- H. An IPv6 host can request only one IP address at a time from a DHCPv6 server.

Correct Answer: BDFG

<u>Latest 300-510 Dumps</u> <u>30</u>

300-510 Exam Questions

300-510 Braindumps

To Read the Whole Q&As, please purchase the Complete Version from Our website.

Try our product!

100% Guaranteed Success

100% Money Back Guarantee

365 Days Free Update

Instant Download After Purchase

24x7 Customer Support

Average 99.9% Success Rate

More than 800,000 Satisfied Customers Worldwide

Multi-Platform capabilities - Windows, Mac, Android, iPhone, iPod, iPad, Kindle

We provide exam PDF and VCE of Cisco, Microsoft, IBM, CompTIA, Oracle and other IT Certifications. You can view Vendor list of All Certification Exams offered:

https://www.lead4pass.com/allproducts

Need Help

Please provide as much detail as possible so we can best assist you. To update a previously submitted ticket:





Any charges made through this site will appear as Global Simulators Limited.

All trademarks are the property of their respective owners.

Copyright © lead4pass, All Rights Reserved.