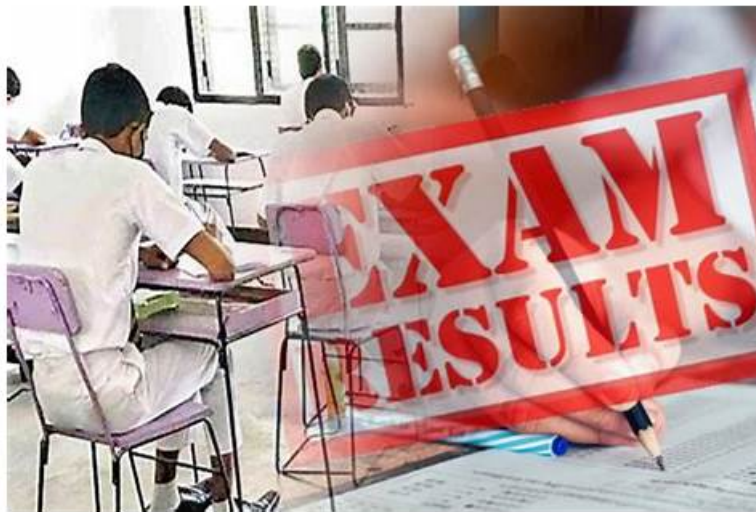


# Latest 300-510 Exam Questions Vce Exam Pass Certify | Cisco 300-510: Implementing Cisco Service Provider Advanced Routing Solutions



What's more, part of that BraindumpsVCE 300-510 dumps now are free: <https://drive.google.com/open?id=19K1bm4fdzQ1WdRLFJ73mDYxFhyNOI6lj>

Passing the 300-510 Exam is a challenging task, but with BraindumpsVCE Cisco Practice Test engine, you can prepare yourself for success in one go. The 300-510 online practice test engine offers an interactive learning experience and includes Cisco 300-510 Practice Questions in a real 300-510 Exam scenario. This allows you to become familiar with the 300-510 exam format and identify your weak areas to improve them.

## Cisco 300-510 Exam Topics:

Section	Weight	Objectives
MPLS and Segment Routing	25%	<ul style="list-style-type: none"> <li>- Troubleshoot MPLS                             <ul style="list-style-type: none"> <li>• LDP</li> <li>• LSP</li> <li>• Unified BGP</li> <li>• BGP free core</li> <li>• RSVP TE tunnels</li> </ul> </li> <li>- Implement segment routing                             <ul style="list-style-type: none"> <li>• Routing protocol extensions (OSPF, IS-IS, BGP)</li> <li>• SRGB and SRLB</li> <li>• Topology-Independent Loop-Free Alternate (TI-LFA)</li> <li>• Migration procedures (SR prefer and mapping server)</li> </ul> </li> <li>- Describe segment routing traffic engineering                             <ul style="list-style-type: none"> <li>• Automated steering and coloring</li> <li>• Policies (constraints, metrics, and attributes)</li> <li>• PCE-based path calculation</li> </ul> </li> <li>- Describe segment routing v6 (SRv6)                             <ul style="list-style-type: none"> <li>• Control plane operations</li> <li>• Data plane operations</li> </ul> </li> </ul>

Routing Policy and Manipulation	25%	<ul style="list-style-type: none"><li>- Compare routing policy language and route maps</li><li>- Describe conditional matching<ul style="list-style-type: none"><li>• Operations</li><li>• Semantics of policy applications and statements</li><li>• Regular expressions</li><li>• Policy sets</li><li>• Tags</li><li>• ACLs</li><li>• Prefix lists and prefix sets</li><li>• Route types</li><li>• BGP attributes and communities</li><li>• Hierarchical and parameterized structures</li></ul></li><li>- Troubleshoot route manipulation for IGP<ul style="list-style-type: none"><li>• IS-IS</li><li>• OSPF</li></ul></li><li>- Troubleshoot route manipulation for BGP<ul style="list-style-type: none"><li>• Route filtering</li><li>• Traffic steering</li></ul></li></ul>
---------------------------------	-----	--

Unicast Routing	35%	<ul style="list-style-type: none"> <li>- Compare OSPF and IS-IS routing protocols</li> <li>- Troubleshoot OSPF multiarea operations (IPv4 and IPv6) <ul style="list-style-type: none"> <li>• Route advertisement</li> <li>• Summarization</li> </ul> </li> <li>- Troubleshoot IS-IS multilevel operations (IPv4 and IPv6) <ul style="list-style-type: none"> <li>• Route advertisement</li> <li>• Summarization</li> </ul> </li> <li>- Describe the BGP scalability and performance <ul style="list-style-type: none"> <li>• BGP confederations</li> <li>• Route reflectors</li> </ul> </li> <li>- Troubleshoot BGP <ul style="list-style-type: none"> <li>• Route advertisement</li> <li>• Route reflectors</li> <li>• Confederations</li> <li>• Multihoming</li> <li>• TTL security and inter-domain security</li> <li>• Maximum prefix</li> <li>• Route dampening</li> <li>• Dynamic neighbors</li> <li>• Communities</li> </ul> </li> <li>- Describe IPv6 tunneling mechanisms <ul style="list-style-type: none"> <li>• Static IPv6-in-IPv4 tunnels</li> <li>• Dynamic 6to4 tunnels</li> <li>• IPv6 provider edge (6PE)</li> </ul> </li> <li>- Implement fast convergence <ul style="list-style-type: none"> <li>• Bidirectional forwarding detection</li> <li>• Nonstop Forwarding</li> <li>• NSR</li> <li>• Timers</li> <li>• BGP pic (edge and core)</li> <li>• LFA</li> <li>• BGP additional and backup path</li> </ul> </li> </ul>
-----------------	-----	---

Multicast Routing	15%	<ul style="list-style-type: none"> <li>- Compare multicast concepts <ul style="list-style-type: none"> <li>• Multicast domains, distribution trees, and IGMP operations</li> <li>• Any-Source Multicast (ASM) versus Source Specific Multicast (SSM)</li> <li>• Intra-domain versus inter-domain multicast routing</li> </ul> </li> <li>- Describe multicast concepts <ul style="list-style-type: none"> <li>• Mapping of multicast IP addresses to MAC addresses</li> <li>• Multiprotocol BGP for IPv4 and IPv6</li> <li>• Principles and operations of PIM-SM</li> <li>• Multicast Source Discovery Protocol (MSDP) operations</li> <li>• MLDP/P2MP</li> </ul> </li> <li>- Implement PIM-SM operations <ul style="list-style-type: none"> <li>• Auto-RP, PIMv2 BSR, anycast RP</li> <li>• BIDIR-PIM operations</li> <li>• SSM operations</li> <li>• MSDP operations</li> </ul> </li> <li>- Troubleshoot multicast routing <ul style="list-style-type: none"> <li>• Single domain</li> <li>• Multidomain</li> </ul> </li> </ul>
-------------------	-----	--

>> Latest 300-510 Exam Questions Vce <<

## Cisco 300-510 Exam | Latest 300-510 Exam Questions Vce - Authoritative Provider for 300-510: Implementing Cisco Service Provider Advanced Routing Solutions Exam

When you click into BraindumpsVCE's site, you will see so many people daily enter the website. You can not help but be surprised. In fact, this is normal. BraindumpsVCE is provide different training materials for alot of candidates. They are using our training materials tto pass the exam. This shows that our Cisco 300-510 Exam Training materials can really play a role. If you want to buy, then do not miss BraindumpsVCE website, you will be very satisfied.

Cisco 300-510 Exam, also known as Implementing Cisco Service Provider Advanced Routing Solutions, is a certification exam designed to test the skills and knowledge of IT professionals in implementing advanced routing solutions using Cisco service provider technologies. 300-510 Exam is intended for individuals who have experience in deploying and managing advanced routing solutions in service provider networks.

### Cisco Implementing Cisco Service Provider Advanced Routing Solutions Sample Questions (Q126-Q131):

#### NEW QUESTION # 126

Refer to the exhibit.

```
ip route 0.0.0.0 0.0.0.0 192.168.0.1
router isis
 redistribute static
```



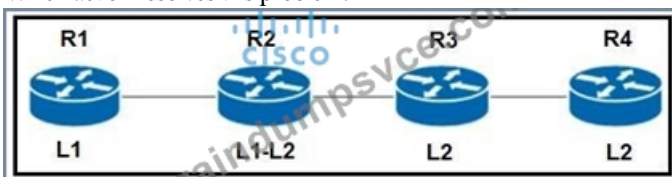
An administrator is troubleshooting Internet access issues on a customer's network. After applying this ISIS configuration to R1, the administrator notices that it fails to redistribute the default route into IS-IS. After checking the connectivity between the ISIS router and the ISP router the engineer confirmed there is Layer 3 connectivity between them Which action should be taken to correct the problem?

- A. Configure the default route under any routing protocol other than IS-IS
- **B. Add the default-information originate command to the configuration**
- C. Configure R1 as a Layer 1 router
- D. Associate the default route with a VRF

**Answer: B**

#### NEW QUESTION # 127

Refer to the exhibit. The four routers in this network have formed adjacencies. Router R2 is an IS- IS level 1-2 router that connects to other areas, and the attach bit is set in the R2 level 1 LSP advertisements to R1. According to the network design, R2 should push level 2 routes from its routing table to the R1 routing table. However, R1 installed a default route in its routing table. Which action resolves this problem?

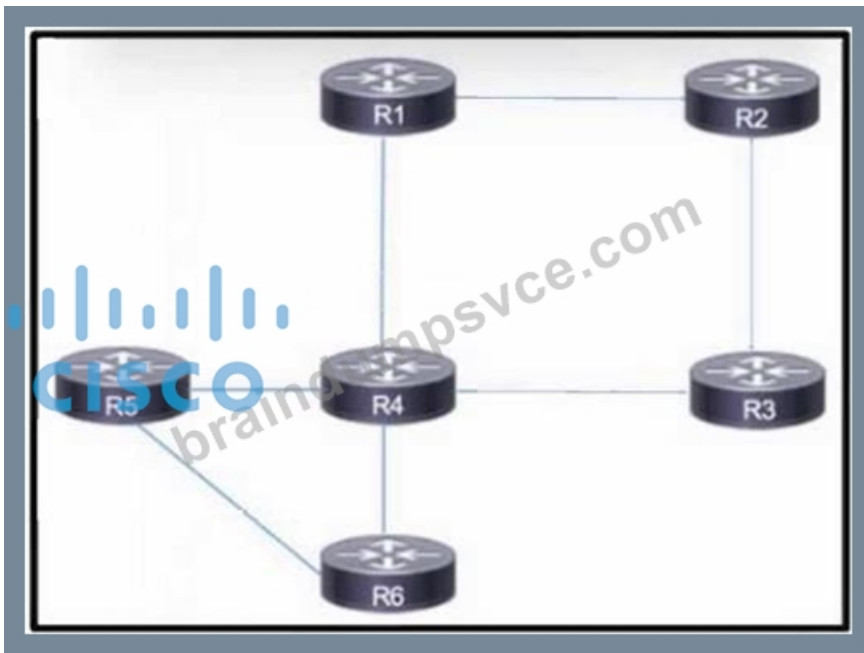


- **A. Use the is-type level-1-2 backdoor command to unset the attach bit on R2 and configure a distribute-list to redistribute prefixes to R1.**
- B. Set the attach bit on R1 and use a prefix list to filter prefixes from R2.
- C. Configure R2 as a level 1 router and use a prefix list to filter prefixes to R1
- D. Use the is-type level-1-2 backdoor command to unset the attach bit on R1 and use a prefix list to filter prefixes from R2.

**Answer: A**

#### NEW QUESTION # 128

Refer to the exhibit. Early in the growth cycle of a small enterprise the network-engineering team implemented segment routing to support automation of the IPv4 network. As the network grew organically more devices were added and the company migrated to SRv6. The company is now planning to significantly expand the number of hosts connected to R2 and R6 which will require further path manipulation. Which action must the team take to customize the route that traffic takes between endpoints in the network?



- A. Implement the flexible algorithm to customize the shortest path through the network
- B. Implement MLAG to reduce traffic load on heavily congested links
- C. Implement priority queuing to drop non-mission-critical traffic.
- D. Implement spanning-tree protocol to avoid loops between excess devices in the network

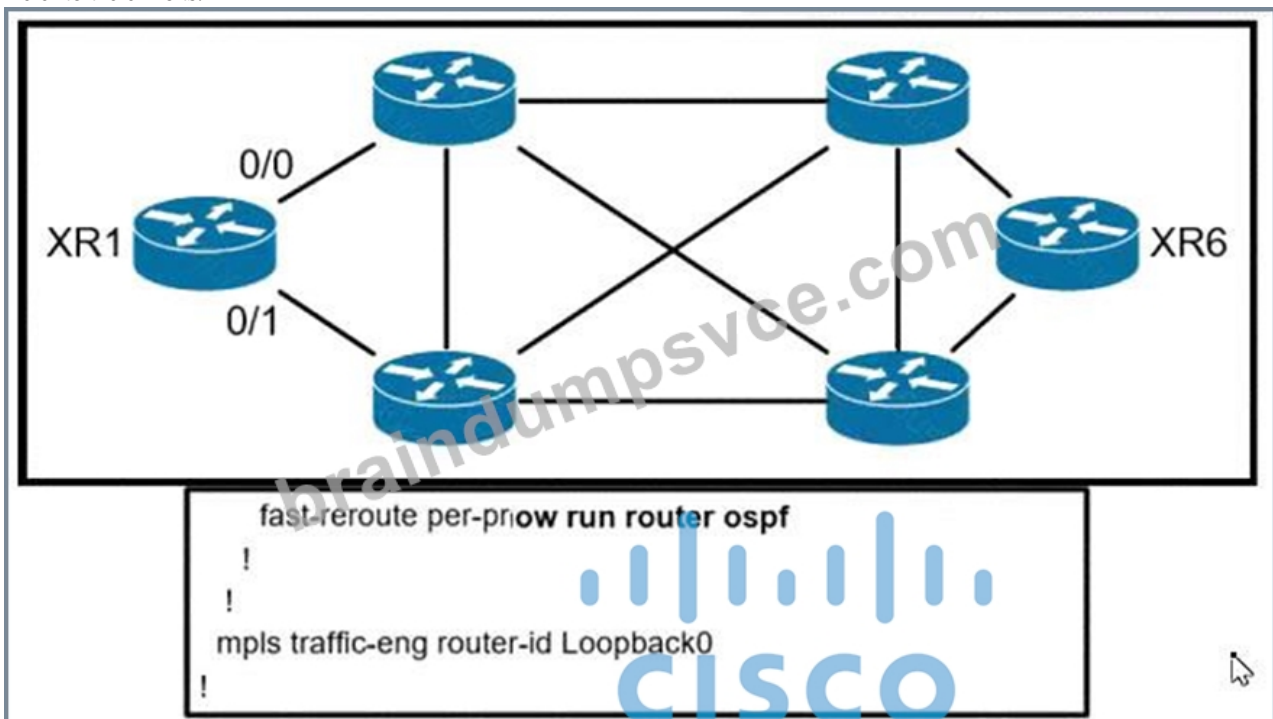
Answer: A

Explanation:

With SRv6 you steer traffic via Segment Routing Policies, but by default these follow the strict shortest-path (SPF) metric. Cisco's Flexible Algorithm (Flex-Algo) lets you define alternate SPF calculations, so it is possible to build policies that, for instance, avoid certain links or meet specific constraints. Deploying Flex-Algo across your SRv6 domain gives you the fine-grained control you need over the end-to-end traffic path between R2 and R6.

#### NEW QUESTION # 129

Refer to the exhibits.



All links inside the network are configured at a default cost of one inside the fully converged OSPF domain.

Given the configuration from XR1, which interface does traffic from XR1 that is destined to the loopback interface of XR6 select for the exiting interface?

- A. Interface GigabitEthernet 0/0. The tie breaker of the node index priority is lower and trumps the path cost.
- B. Interface GigabitEthernet 0/0. The tie breaker of the path cost being lower. The node index priority does not impact this selection process.
- C. Interface GigabitEthernet 0/1. The tie breaker of the node index priority is lower and trumps the path cost.
- D. Interface GigabitEthernet 0/1. The tie breaker of the path cost being lower. The node index priority does not impact this selection process.

Answer: A

### NEW QUESTION # 130

Refer to the exhibit.

```
R1#sh ip int bri
Interface          IP-Address      OK? Method Status  Protocol
FastEthernet0/0    10.1.12.1       YES manual up     up
FastEthernet0/1    10.1.13.1       YES manual up     up
```

```
R1#sh run | s router bgp
!
router bgp 123
  bgp log-neighbor-changes
  neighbor TEST peer-group
  neighbor TEST remote-as 2 alternate-as 3
  neighbor 10.1.12.2 peer-group TEST
  neighbor 10.1.13.3 peer-group TEST
```

```
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
  bgp log-neighbor-changes
  neighbor 10.1.12.1 remote-as 123
```

```
R3#sh ip int bri
Interface          IP-Address      OK? Method Status  Protocol
FastEthernet0/1    10.1.13.3       YES manual up     up
```

```
R3#sh run | s router bgp
router bgp 3
  bgp log-neighbor-changes
  neighbor 10.1.13.1 remote-as 123
```

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 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.

**Answer: B**

## NEW QUESTION # 131

.....

**300-510 Exam Test:** [https://www.braindumpsvce.com/300-510\\_exam-dumps-torrent.html](https://www.braindumpsvce.com/300-510_exam-dumps-torrent.html)

- Boost Your Confidence with Online Cisco 300-510 Practice Test Engine  The page for free download of  300-510  on  [www.prepawayexam.com](http://www.prepawayexam.com)   will open immediately  Pdf 300-510 Braindumps
- Exam 300-510 Quizzes  300-510 Actual Braindumps  Exam 300-510 Quizzes  Open 《 [www.pdfvce.com](http://www.pdfvce.com) 》 enter ▶ 300-510 ◀ and obtain a free download  Cert 300-510 Exam
- Free Valid Cisco 300-510 Questions Updates and Free Demos  Immediately open ( [www.easy4engine.com](http://www.easy4engine.com) ) and search for [ 300-510 ] to obtain a free download  300-510 Updated Dumps
- Free PDF 300-510 - Unparalleled Latest Implementing Cisco Service Provider Advanced Routing Solutions Exam Questions Vce  Search on  [www.pdfvce.com](http://www.pdfvce.com)  for [ 300-510 ] to obtain exam materials for free download  Exam 300-510 Quizzes
- 300-510 New Exam Bootcamp  300-510 New Exam Bootcamp  300-510 Exam Study Solutions  Search on  [www.prepawayexam.com](http://www.prepawayexam.com)  for ( 300-510 ) to obtain exam materials for free download  300-510 New Exam Bootcamp
- Boost Your Confidence with Online Cisco 300-510 Practice Test Engine  Open website  [www.pdfvce.com](http://www.pdfvce.com)  and search for  300-510   for free download  300-510 Authorized Pdf
- 300-510 Vce Torrent  300-510 Latest Braindumps Questions  Pdf 300-510 Braindumps  Search for 「 300-510 」 and download it for free on 「 [www.pdfdumps.com](http://www.pdfdumps.com) 」 website  Valid 300-510 Test Simulator
- Quiz 300-510 - Fantastic Latest Implementing Cisco Service Provider Advanced Routing Solutions Exam Questions Vce   Immediately open  [www.pdfvce.com](http://www.pdfvce.com)   and search for  300-510   to obtain a free download  300-510 Latest Practice Materials
- Free Valid Cisco 300-510 Questions Updates and Free Demos  Immediately open [ [www.pdfdumps.com](http://www.pdfdumps.com) ] and search for  300-510  to obtain a free download  Download 300-510 Demo
- 300-510 Sure Pass  300-510 Exam Study Solutions  300-510 Updated Dumps  Download “ 300-510 ” for free by simply searching on  [www.pdfvce.com](http://www.pdfvce.com)   300-510 Exam Question
- Desktop Cisco 300-510 practise exam software - Pass Certification Exam Confidently  Download  300-510   for free by simply entering ▶ [www.vce4dumps.com](http://www.vce4dumps.com) ◀ website  Valid 300-510 Test Simulator
- [sachincgv680308.atualblog.com](http://sachincgv680308.atualblog.com), [bookmarketmaven.com](http://bookmarketmaven.com), [totalbookmarking.com](http://totalbookmarking.com), [recordtycoon.com](http://recordtycoon.com), [diegopyqo471024.nizarblog.com](http://diegopyqo471024.nizarblog.com), [lexiesrsv286088.tblogs.com](http://lexiesrsv286088.tblogs.com), [888.8337.net](http://888.8337.net), [bookmarkbooth.com](http://bookmarkbooth.com), [wiishlist.com](http://wiishlist.com), [amiexnifl42294.blogoxo.com](http://amiexnifl42294.blogoxo.com), Disposable vapes

P.S. Free 2026 Cisco 300-510 dumps are available on Google Drive shared by BraindumpsVCE: <https://drive.google.com/open?id=19K1bm4fdzQ1WdRLFJ73mDYxFhyNOl6Ij>