CISCO 300-515

Cisco CCNP Service Provider Certification Questions & Answers

Exam Summary – Syllabus – Questions

300-515

Cisco Certified Network Professional Service Provider

55-65 Questions Exam – Variable (750-850 / 1000 Approx.) Cut Score – Duration of 90 minutes

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Know Your 300-515 Certification Well:

The 300-515 is best suitable for candidates who want to gain knowledge in the Cisco Service Provider. Before you start your 300-515 preparation you may struggle to get all the crucial CCNP Service Provider materials like 300-515 syllabus, sample questions, study guide.

But don't worry the 300-515 PDF is here to help you prepare in a stress free manner.
The PDF is a combination of all your queries like-

- What is in the 300-515 syllabus?
- How many questions are there in the 300-515 exam?
- Which Practice test would help me to pass the 300-515 exam at the first attempt?

Passing the 300-515 exam makes you Cisco Certified Network Professional Service Provider. Having the CCNP Service Provider certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

Cisco 300-515 CCNP Service Provider Certification Details:

Exam Name	Implementing Cisco Service Provider VPN Services
Exam Code	300-515
Exam Price	$300 USD
Duration	90 minutes
Number of Questions	55-65
Passing Score	Variable (750-850 / 1000 Approx.)
Recommended Training	**Implementing Cisco Service Provider VPN Services (SPVI)**
Exam Registration	**PEARSON VUE**
Sample Questions	**Cisco 300-515 Sample Questions**

Practice Exam	Cisco Certified Network Professional Service Provider Practice Test

300-515 Syllabus:

Section	Weight	Objectives
VPN Architecture	25%	- Compare VPN architecture • Layer 2 and Layer 3 VPN • Inter-AS and Intra-AS - Troubleshoot underlay • Core IGP • LSP - Describe Layer 2 service architecture • IOS XR Ethernet Flowpoints • IOS XE Ethernet Virtual Circuits - Describe the L3VPN control plane operation • MP-BGP • Route distinguisher • VPNv4 address • Route target • VPN label • VRF routing instance • PE-CE route advertisement - Describe the L3VPN data plane operation • Underlay label • VRF forwarding instance
Layer 2 VPNs	30%	- Troubleshoot L2VPN Services • E-LAN • E-Line • E-Tree - Describe EVPN concepts

Section	Weight	Objectives
		• Data plane and control plane operation • Multihoming mechanisms • Suppression mechanisms • Traffic forwarding operation - Implement Ethernet Operations, Administration, and Maintenance (E-OAM) - Implementing EVPN • EVPN IRB • EVPN VPWS • EVPN native
Layer 3 VPNs	35%	- Describe routing requirements • MP-BGP • PE-CE routing protocol - Troubleshoot Intra-AS L3VPNs • PE-CE • PE-PE • PE-RR - Implement multicast VPN • Intranet MVPN • Extranet MVPN • MLDP - Implement extranet/shared services • Import and export route targets • Route policy - Describe Inter-AS L3VPNs • Option A • Option B • Option AB • Option C - Describe CSC concepts

Section	Weight	Objectives
IPv6 VPNs	10%	- Describe routing requirements • MP-BGP • PE-CE routing protocol - Troubleshoot IPv6 VPN provider edge • PE-PE • PE-CE

Cisco 300-515 Sample Questions:

Question: 1

Which two are characteristics of using a non-MPLS peer-to-peer model over a traditional overlay model?

(Choose two.)

a) The model is suited for nonredundant configurations.
b) The configuration on a newly added site PE is updated automatically.
c) Provider routers know the customer network topology.
d) The customer specifies the exact site-to-site traffic profile.
e) Routing information is exchanged between the customer router and one or a few PEs.

Answer: c, e

Question: 2

The CTO of a company requires the support of a network consultant to deliver an MPLS solution without resigning to a certain degree of redundancy and scalability.

Which solution effectively scales to hundreds or thousands of sites?

a) L2VPN with the broadcast traffic processed at the ingress PE.
b) L3VPN with direct LSP connectivity between all PEs.
c) L2VPN by encapsulating multiple frame formats with interworking.
d) L3VPN using a hierarchical topology of N-PEs and U-PEs.

Answer: d

Question: 3

An engineer is investigating an MPLS LDP issue. Which command should an engineer use on a Cisco IOS XE device to display the contents of the LFIB?

a) show mpls forwarding-table
b) show mpls ldp neighbors
c) show mpls ldp labels
d) show mpls ldp bindings

Answer: a

Question: 4

What do EVPN single-active and all-active have in common?

a) They are default gateway redundancy options.
b) They are multihoming mechanisms used for CE devices.
c) They are used to provide single connection from a CE device to a service provider.
d) They are both roles that a designated router can take when MPLS is used with EVPN.

Answer: d

Question: 5

In a typical service provider environment, which two tools are used to help scale PE router connectivity requirements? (Choose two.)

a) route reflectors
b) VPNv4 address family
c) originator ID
d) cluster ID
e) confederations

Answer: a, e

Question: 6

Which BGP feature causes to replace the AS number of originating router with the AS number of the sending router?

a) route reflectors
b) route dampening
c) confederations

d) AS override

Answer: d

Question: 7

In an Ethernet Virtual Circuit environment, which restriction do bridge domains have when STP is running?

a) The STP mode must be RSTP or PVST+
b) Bridge domains must be mapped to a different VLAN.
c) The STP mode must be MSTP
d) Bridge domains must belong to different MST instances.

Answer: c

Question: 8

How do PE routers exchange CE routes between remote sites?

a) by establishing BGP neighbor relationships between all connected CEs to exchange routing information
b) by learning IPv4 routes from connected CEs and redistributing them into the global IGP
c) by converting CE routes into VPNv4 routes and exchanging them using the global IGP
d) by converting CE routes into VPNv4 routes and exchanging them using MP-BGP

Answer: d

Question: 9

A network architect is troubleshooting the L2TPv3 tunneling security due to the untrusted nature of the underlaying network. Which two L2TPv3 features does the architect deploy to address the ongoing issues? (Choose two.)

a) TCP MD5 authentication
b) control message hashing
c) CHAP authentication
d) control message rate limiting
e) asymmetric mutual authentication with PSK

Answer: b, c

Question: 10

While implementing Layer 3 MPLS VPN, which feature should an engineer use at the PEs to transform the customer IPv4 prefixes into a unique 96-bit prefix?

a) RT
b) VC ID
c) RD
d) PW ID

Answer: c

Study Guide to Crack Cisco CCNP Service Provider 300-515 Exam:

- Getting details of the 300-515 syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the 300-515 exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the Cisco provided training for 300-515 exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the 300-515 sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on 300-515 practice tests is must. Continuous practice will make you an expert in all syllabus areas.

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