

CISCO 350-501

Cisco CCNP Service Provider Certification Questions & Answers

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350-501

Cisco Certified Network Professional Service Provider

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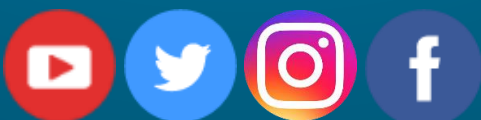


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Discover More about the 350-501 Certification

Are you interested in passing the Cisco 350-501 exam? First discover, who benefits from the 350-501 certification. The 350-501 is suitable for a candidate if he wants to learn about Service Provider. Passing the 350-501 exam earns you the Cisco Certified Network Professional Service Provider title.

While preparing for the 350-501 exam, many candidates struggle to get the necessary materials. But do not worry; your struggling days are over. The 350-501 PDF contains some of the most valuable preparation tips and the details and instant access to useful [350-501 study materials just at one click](#).

Cisco 350-501 CCNP Service Provider Certification Details:

Exam Name	Implementing and Operating Cisco Service Provider Network Core Technologies
Exam Number	350-501 SPCOR
Exam Price	\$400 USD
Duration	120 minutes
Number of Questions	90-110
Passing Score	Variable (750-850 / 1000 Approx.)
Recommended Training	Implementing and Operating Cisco Service Provider Network Core Technologies (SPCOR)
Exam Registration	PEARSON VUE
Sample Questions	Cisco 350-501 Sample Questions
Practice Exam	Cisco Certified Network Professional Service Provider Practice Test

350-501 Syllabus:

Section	Weight	Objectives
Architecture	15%	1. Describe service provider architectures <ul style="list-style-type: none"> • Core architectures (Metro Ethernet, MPLS, unified MPLS, SR) • Transport technologies (Optical, xDSL, DOCSIS, TDM, and xPON)

Section	Weight	Objectives
		<ul style="list-style-type: none"> • Mobility (packet core, RAN xhaul transport for 4G and 5G) <p>2. Describe Cisco network software architecture</p> <ul style="list-style-type: none"> • IOS • IOS XE • IOS XR <p>3. Describe service provider virtualization</p> <ul style="list-style-type: none"> • NFV infrastructure • VNF workloads • OpenStack <p>4. Describe QoS architecture</p> <ul style="list-style-type: none"> • MPLS QOS models (Pipe, Short Pipe, and Uniform) • MPLS TE QoS (MAM, RDM, CBTS, PBTS, and DS-TE) • DiffServ and IntServ QoS models • Trust boundaries between enterprise and SP environments • IPv6 flow label <p>5. Configure and verify control plan security</p> <ul style="list-style-type: none"> • Control plane protection techniques (LPTS and CoPP) • BGP-TTL security and protocol authentication • BGP prefix suppression • LDP security (authentication and label allocation filtering) • BGP sec • BGP flowspec <p>6. Describe management plane security</p> <ul style="list-style-type: none"> • Traceback • AAA and TACACS • RestAPI security • DdoS

Section	Weight	Objectives
		<p>7. Implement data plane security</p> <ul style="list-style-type: none"> • uRPF • ACLs • RTBH
Networking	30%	<p>1. Implement IS-IS (IPv4 and IPv6)</p> <ul style="list-style-type: none"> • Route advertisement • Area addressing • Multitopology • Metrics <p>2. Implement OSPF (v2 and v3)</p> <ul style="list-style-type: none"> • Neighbor adjacency • Route advertisement • Multiarea (addressing and types) • Metrics <p>3. Describe BGP path selection algorithm</p> <p>4. Implement BGP (v4 and v6 for IBGP and EBGP)</p> <ul style="list-style-type: none"> • Neighbors • Prefix advertisement • Address family • Path selection • Attributes • Redistribution <p>5. Implement routing policy language and route maps (BGP, OSPF, IS-IS)</p> <p>6. Troubleshoot routing protocols</p> <ul style="list-style-type: none"> • Neighbor adjacency (IS-IS, OSPF, BGP) • Route advertisement (IS-IS, OSPF, BGP) <p>7. Describe IPv6 transition (NAT44, NAT64, 6RD, MAP, and DS Lite)</p> <p>8. Implement high availability</p> <ul style="list-style-type: none"> • NSF / graceful restart • NSR

Section	Weight	Objectives
		<ul style="list-style-type: none"> • BFD • Link aggregation
MPLS and Segment Routing	20%	<ol style="list-style-type: none"> 1. Implement MPLS <ul style="list-style-type: none"> • LDP sync • LDP session protection • LDP neighbors • Unified MPLS • MPLS OAM 2. Describe traffic engineering <ul style="list-style-type: none"> • ISIS and OSPF extensions • RSVP functionality • FRR 3. Describe segment routing <ul style="list-style-type: none"> • Segment types • IGP control plane • Segment routing traffic engineering • TI-LFa • PCE-PCC architectures
Services	20%	<ol style="list-style-type: none"> 1. Describe VPN services <ul style="list-style-type: none"> • EVPN • Inter-AS VPN • CSC • mVPN 2. Configure L2VPN and Carrier Ethernet <ul style="list-style-type: none"> • Ethernet services (E-Line, E-Tree, E-Access, E-LAN) • IEEE 802.1ad, IEEE 802.1ah, and ITU G.8032 • Ethernet OAM • VLAN tag manipulation 3. Configure L3VPN <ul style="list-style-type: none"> • Intra-AS VPN

Section	Weight	Objectives
		<ul style="list-style-type: none"> • Shared services (extranet and Internet) 4. Implement multicast services <ul style="list-style-type: none"> • PIM (PIM-SM, PIM-SSM, and PIM-BIDIR) • IGMP v1/v2/v3 and MLD 5. Implement QoS services <ul style="list-style-type: none"> • Classification and marking • Congestion avoidance, traffic policing, and shaping
Automation and Assurance	15%	1. Describe the programmable APIs used to include Cisco devices in network automation 2. Interpret an external script to configure a Cisco device using a REST API 3. Describe the role of Network Services Orchestration (NSO) 4. Describe the high-level principles and benefits of a data modeling language, such as YANG 5. Compare agent vs. agentless configuration management tools, such as Chef, Puppet, Ansible, and SaltStack 6. Describe data analytics and model-driven telemetry in service provider 7. Configure dial-in/out telemetry streams using gRPC 8. Configure and verify NetFlow/IPFIX 9. Configure and verify NETCONF and RESTCONF 10. Configure and verify SNMP (v2c/v3)

Broaden Your Knowledge with Cisco 350-501 Sample Questions:

Question: 1

A customer of an ISP requests support to preferred exit points for the customer AS?

- a) highest local preference outbound
- b) lowest local preference inbound
- c) highest local preference inbound
- d) lowest multi-exit discriminator

Answer: c

Question: 2

Why do Cisco MPLS TE tunnels require a link-state routing protocol?

- a) The tunnel endpoints can use the link-state database to evaluate the entire topology and determine the best path
- b) The link state database provides segmentation by area, which improves the path-selection process
- c) The link-state database provides a data repository from which the tunnel endpoints can dynamically select a source ID
- d) Link-state routing protocols use SPF calculations that the tunnel endpoints leverage to implement the tunnel

Answer: a

Question: 3

Which two IS-IS parameters must match before two Level 2 peers can form an adjacency?

(Choose two)

- a) authentication settings
- b) area ID
- c) hello timer setting
- d) system ID
- e) MTU

Answer: a, e

Question: 4

How can shared services in an MPLS Layer 3 VPN provide Internet access to the customers of a central service provider?

- a) Route distinguishes are used to identify the routes that CEs can use to reach the Internet
- b) Static routes on CE routers allow route leakage from a PE global routing table
- c) The CE router can establish a BGP peering to a PE router and use the PE device to reach the Internet
- d) The customer VRF uses route targets to import and export routes to and from a shared services VRF

Answer: d

Question: 5

You are creating new Cisco MPLS TE tunnels. Which type of RSVP message does the headend router send to reserve bandwidth on the path to the tailend router?

- a) path
- b) tear
- c) error
- d) reservation

Answer: a**Question: 6**

When configuring traffic engineering tunnels in Cisco MPLS core network, you see the traffic is not taking the expected path in the core.

Which command do you use to quickly check path of a TE tunnel?

- a) traceroute <tunnel destination IP>
- b) show mpls traffic-engineering tunnels
- c) Ping <tunnel destination IP>
- d) traceroute mpls ipv4 <tunnel destination>

Answer: d**Question: 7**

Which configuration mode do you use to apply the mpls ldp graceful-restart command in IOS XE Software?

- a) LDP neighbor
- b) interface
- c) MPLS
- d) global

Answer: d**Question: 8**

In an MPLS network, which protocol can be used to distribute a Segment Prefix?

- a) OSPF
- b) RSVP-TE
- c) EIGRP
- d) LDP

Answer: a

Question: 9

An engineer working for telecommunication company with an employee id: 3715 15 021 needs to secure the LAN network using a prefix list.

Which best practice should the engineer follow when he implements a prefix list?

- a) An engineer must use non sequential sequence numbers in the prefix list so that he can insert additional entries later.
- b) An engineer must include only the prefixes for which he needs to log activity.
- c) An engineer must identify the prefix list with a number only
- d) The final entry in a prefix list must be /32

Answer: a

Question: 10

What do Ansible and SaltStack have in common?

- a) They both use DSL configuration language.
- b) They both use YAML configuration language.
- c) They both have agents running on the client machine.
- d) They both can be designed with more than one master server.

Answer: b

Avail the Study Guide to Pass Cisco 350-501 CCNP Service Provider Exam:

- Find out about the 350-501 syllabus topics. Visiting the official site offers an idea about the exam structure and other important study resources. Going through the syllabus topics help to plan the exam in an organized manner.
- Once you are done exploring the [350-501 syllabus](#), it is time to plan for studying and covering the syllabus topics from the core. Chalk out the best plan for yourself to cover each part of the syllabus in a hassle-free manner.
- A study schedule helps you to stay calm throughout your exam preparation. It should contain your materials and thoughts like study hours, number of topics for daily studying mentioned on it. The best bet to clear the exam is to follow your schedule rigorously.
- The candidate should not miss out on the scope to learn from the 350-501 training. Joining the Cisco provided training for 350-501 exam helps a candidate to strengthen his practical knowledge base from the certification.

- Learning about the probable questions and gaining knowledge regarding the exam structure helps a lot. Go through the [350-501 sample questions](#) and boost your knowledge
- Make yourself a pro through online practicing the syllabus topics. 350-501 practice tests would guide you on your strengths and weaknesses regarding the syllabus topics. Through rigorous practicing, you can improve the weaker sections too. Learn well about time management during exam and become confident gradually with practice tests.

Career Benefits:

Passing the 350-501 exam, helps a candidate to prosper highly in his career. Having the certification on the resume adds to the candidate's benefit and helps to get the best opportunities.

Here Is the Trusted Practice Test for the 350-501 Certification

NWExam.com is here with all the necessary details regarding the 350-501 exam. We provide authentic practice tests for the 350-501 exam. What do you gain from these practice tests? You get to experience the real exam-like questions made by industry experts and get a scope to improve your performance in the actual exam. Rely on NWExam.com for rigorous, unlimited two-month attempts on the [350-501 practice tests](#), and gradually build your confidence. Rigorous practice made many aspirants successful and made their journey easy towards grabbing the Cisco Certified Network Professional Service Provider.

Start Online practice of 350-501 Exam by visiting URL

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