



CISCO 300-540

Cisco CCNP Service Provider Certification Questions & Answers

Exam Summary – Syllabus – Questions

300-540

[Cisco Certified Specialist Service Provider Cloud Network Infrastructure](#)

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

Table of Contents:

Know Your 300-540 Certification Well:	2
Cisco 300-540 CCNP Service Provider Certification Details:	2
300-540 Syllabus:.....	3
Cisco 300-540 Sample Questions:	5
Study Guide to Crack Cisco CCNP Service Provider 300- 540 Exam:	8

Know Your 300-540 Certification Well:

The 300-540 is best suitable for candidates who want to gain knowledge in the Cisco Service Provider. Before you start your 300-540 preparation you may struggle to get all the crucial CCNP Service Provider materials like 300-540 syllabus, sample questions, study guide.

But don't worry the 300-540 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 300-540 syllabus?
- How many questions are there in the 300-540 exam?
- Which Practice test would help me to pass the 300-540 exam at the first attempt?

Passing the 300-540 exam makes you Cisco Certified Specialist Service Provider Cloud Network Infrastructure. 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 300-540 CCNP Service Provider Certification

Details:

Exam Name	Designing and Implementing Cisco Service Provider Cloud Network Infrastructure
Exam Code	300-540 SPCNI
Exam Price	\$300 USD
Duration	90 minutes
Number of Questions	55-65
Passing Score	Variable (750-850 / 1000 Approx.)
Exam Registration	PEARSON VUE
Sample Questions	Cisco 300-540 Sample Questions
Practice Exam	Cisco Certified Specialist Service Provider Cloud Network Infrastructure Practice Test

300-540 Syllabus:

Section	Weight	Objectives
Virtualized Architecture	25%	<ul style="list-style-type: none"> - Describe IaaS constraints such as VLAN scale and segmentation - Determine the cloud service model (such as IaaS, PaaS, SaaS, and FaaS) for private, public, or hybrid deployments - Describe container orchestration and virtual machines - Implement virtualization functions <ul style="list-style-type: none"> • NFV • VNF • NSO • Virtualized Cisco platforms - Deploy NFV using automation and orchestration <ul style="list-style-type: none"> • Onboarding VNF • NFV orchestration using NSO • NETCONF, RESTCONF, and REST APIs • Yang models and gNMI/gRPC • OpenStack
Cloud Interconnect	25%	<ul style="list-style-type: none"> - Describe carrier-neutral facilities <ul style="list-style-type: none"> • Connectivity options to cloud providers • Connectivity options to other carrier-neutral facilities or customer locations • Cloud edge facilities and interconnections - Evaluate WAN infrastructure connectivity <ul style="list-style-type: none"> • Direct connect • MPLS/segment routing • IPsec VPN - Troubleshoot DCI solutions <ul style="list-style-type: none"> • EVPN VXLAN • EVPN over SR/MPLS • ACI • Pseudowires

Section	Weight	Objectives
High Availability	20%	<ul style="list-style-type: none"> - Implement technologies for high availability <ul style="list-style-type: none"> • VNF data plane redundancy using placement and network resiliency • Control plane high availability within single VIM • Data plane high availability (compute, vNIC, and TOR) - Implement multi-homing - Implement EVLAG - Implement a virtual private cloud - Implement ECMP from NFVI to physical infrastructure such as BGP multi-path, OSPF, and IS-IS - Recommend design models for high availability such as DNS, routing, and load balancers
Security	15%	<ul style="list-style-type: none"> - Implement infrastructure security <ul style="list-style-type: none"> • ACL • uRPF • RTBH and router hardening • BGP flowspec • TACACS • MACSEC - Describe DoS mitigation techniques - Describe NFVI security <ul style="list-style-type: none"> • API security • Secure NFVI control and management plane • Network segmentation in service provider cloud environment • TLS and mTLS - Describe cloud security solutions such as DNS security, zero-day exploit, and virus detectors
Service Assurance and Optimization	15%	<ul style="list-style-type: none"> - Describe network assurance <ul style="list-style-type: none"> • NFVI MANO • VNF workloads • VIM control plane KPIs

Section	Weight	Objectives
		<ul style="list-style-type: none"> • Streaming telemetry with gRPC and gNMI - Describe cloud infrastructure and performance monitoring <ul style="list-style-type: none"> • SR-PM • NetFlow and IPFIX • Logging with syslog • SNMP traps and RMON • Cloud agents • Automatic fault management - Diagnose NFVI errors and events - Describe VNF optimization <ul style="list-style-type: none"> • SR-IOV • Software accelerated virtual switch (DPDK and VPP)

Cisco 300-540 Sample Questions:

Question: 1

A virtual private cloud (VPC) is implemented to provide _____ isolation within a public cloud environment.

- a) application
- b) physical
- c) user
- d) network

Answer: d

Question: 2

RTBH is effective in mitigating what kind of traffic?

- a) Malicious traffic
- b) Legitimate traffic
- c) Incoming legitimate requests
- d) Outgoing traffic

Answer: a

Question: 3

When troubleshooting DCI solutions, which of the following tools or concepts are crucial?
(Choose two)

- a) SNMP for managing network devices
- b) IPsec VPN for enhancing physical security measures
- c) EVPN VXLAN for extending layer 2 services over a layer 3 network
- d) ACI for centralized application-focused network policies

Answer: c, d

Question: 4

Which of the following technologies are used for NFV orchestration? (Choose three)

- a) NETCONF
- b) Yang models
- c) SNMP
- d) RESTCONF
- e) REST APIs

Answer: a, d, e

Question: 5

Load balancers are recommended in high availability designs to distribute traffic across multiple _____.

- a) servers
- b) protocols
- c) networks
- d) countries

Answer: a

Question: 6

EVPN over SR/MPLS can solve which of the following issues?

- a) Inability to use public internet for private connectivity
- b) High costs associated with physical cabling
- c) The need for manual route configuration in large networks
- d) Lack of multicast support in traditional networks

Answer: c, d

Question: 7

Virtual Machines and Containers are both used to virtualize resources. Which statement is true?

- a) VMs are more lightweight than containers.
- b) VMs can be deployed faster than containers.
- c) Containers are less isolated than VMs.
- d) Containers virtualize the operating system, whereas VMs virtualize the hardware.

Answer: d

Question: 8

Carrier-neutral facilities offer connectivity options to cloud providers through which of the following? (Choose two)

- a) Public internet gateways
- b) Direct connect services
- c) Dial-up connections
- d) Dedicated leased lines

Answer: b, d

Question: 9

SNMP traps are utilized for which of the following purposes?

- a) Virtualizing network functions
- b) Sending unsolicited alerts from network devices to a management station
- c) Encrypting data packets
- d) Monitoring network performance in real-time

Answer: b

Question: 10

Direct Connect offers which of the following advantages over traditional internet connections?

- a) More consistent network performance
- b) Reduced bandwidth
- c) Higher latency
- d) Increased security

Answer: a, d

Study Guide to Crack Cisco CCNP Service Provider 300-540 Exam:

- Getting details of the 300-540 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 300-540 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 300-540 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 300-540 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 300-540 practice tests is must. Continuous practice will make you an expert in all syllabus areas.

Reliable Online Practice Test for 300-540 Certification

Make NWExam.com your best friend during your Designing and Implementing Cisco Service Provider Cloud Network Infrastructure exam preparation. We provide authentic practice tests for the 300-540 exam. Experts design these online practice tests, so we can offer you an exclusive experience of taking the actual 300-540 exam. We guarantee you 100% success in your first exam attempt if you continue practicing regularly. Don't bother if you don't get 100% marks in initial practice exam attempts. Just utilize the result section to know your strengths and weaknesses and prepare according to that until you get 100% with our practice tests. Our evaluation makes you confident, and you can score high in the 300-540 exam.

Start Online practice of 300-540 Exam by visiting URL

<https://www.nwexam.com/cisco/300-540-designing-and-implementing-cisco-service-provider-cloud-network-infrastructure-spcni>