

New 300-540 Test Blueprint, 300-540 Latest Exam Fee

Sample format –Exam blueprint

Essential learning objective	Knowledge	Skill	Attitude	Item type	% Emphasis	Number of items
		Clinical reasoning skill Clinical skill				
Obj1						
Obj2						
Obj3						

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As we all know, time for preparing an exam is quite tight. Once you have signed up for the exam, you need to prepare. Therefore improving the efficiency is quite necessary. Our 300-540 training materials include the main knowledge point of the exam, which will help you to know the main knowledge. Besides the professionals check the 300-540 at time, it can ensure the accuracy of the answers. Therefore, please make it easy to use the 300-540 training materials freely.

Cisco 300-540 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Service Assurance and Optimization: This section of the exam measures the skills of Cloud Operations Engineers and covers assurance mechanisms used to maintain performance, stability, and visibility across NFVI environments. It includes network assurance concepts such as MANO frameworks, VNF workload monitoring, VIM control plane KPIs, and streaming telemetry with gRPC and gNMI. Candidates must understand cloud infrastructure performance monitoring tools, including SR-PM, NetFlow, IPFIX, syslog, SNMP traps, RMON, cloud agents, and automated fault management systems. The domain also touches on diagnosing NFVI-related errors and optimizing VNFs using techniques such as SR-IOV and software-accelerated virtual switching technologies like DPDK and VPP.
Topic 2	<ul style="list-style-type: none"> High Availability: This section of the exam measures the skills of Cloud Infrastructure Architects and covers the design and implementation of redundancy and resiliency mechanisms in virtualized network functions and distributed cloud platforms. It includes data plane redundancy for VNFs, high availability within a single VIM control plane, and resilient compute, vNIC, and top-of-rack switching. The exam requires an understanding of multi-homing, EVLAG configurations, virtual private cloud deployment, and ECMP strategies for NFVI integrations with physical routing protocols such as BGP, OSPF, and IS-IS. Candidates must also recommend suitable high-availability models involving DNS, routing, and load balancing.
Topic 3	<ul style="list-style-type: none"> Cloud Interconnect: This section of the exam measures the skills of Service Provider Network Engineers and covers how large networks interconnect with cloud platforms and carrier-neutral facilities. Candidates are expected to understand various connectivity options to cloud providers, customer sites, and other neutral facilities, as well as evaluate WAN connectivity models such as direct connect, MPLS or segment routing, and IPsec VPN links. The domain also includes the ability to troubleshoot advanced data center interconnect solutions, including EVPN VXLAN, EVPN over SR MPLS, ACI-based connectivity, and pseudowire architectures supporting cloud-to-cloud and cloud-to-edge communication.

Topic 4	<ul style="list-style-type: none"> • Security: This section of the exam measures the skills of Network Security Engineers and covers the implementation of infrastructure-level protection in cloud and NFVI ecosystems. It includes topics such as ACLs, uRPF, RTBH, router hardening, BGP flowspec, TACACS, and MACSEC. Candidates should understand DoS mitigation methods and apply security practices within NFVI, focusing on API protection, securing the control and management plane, and segmentation strategies in service provider cloud environments. The domain also evaluates basic knowledge of TLS, mTLS, and general cloud security solutions related to DNS protection, zero-day defenses, and malware detection.
Topic 5	<ul style="list-style-type: none"> • Virtualized Architecture: This section of the exam measures the skills of Cloud Network Engineers and covers the foundational concepts of virtualized infrastructures used in modern service provider and cloud environments. Candidates are expected to understand constraints in IaaS designs, determine appropriate cloud service models, and demonstrate awareness of container orchestration compared to traditional virtual machines. The exam also evaluates the ability to implement key virtualization functions such as NFV, VNF, NSO, and virtualized Cisco platforms. Learners must be able to deploy NFV with automation tools, manage VNF onboarding, work with NSO-driven orchestration, and use protocols like NETCONF, RESTCONF, REST APIs, and gNMI within automated cloud ecosystems. A general understanding of supporting platforms such as OpenStack also forms part of the required knowledge in this domain.

>> New 300-540 Test Blueprint <<

300-540 Latest Exam Fee & Test 300-540 Score Report

For the Designing and Implementing Cisco Service Provider Cloud Network Infrastructure (300-540) web-based practice exam no special software installation is required. because it is a browser-based Designing and Implementing Cisco Service Provider Cloud Network Infrastructure (300-540) practice test. The web-based Designing and Implementing Cisco Service Provider Cloud Network Infrastructure (300-540) practice exam works on all operating systems like Mac, Linux, iOS, Android, and Windows. In the same way, IE, Firefox, Opera and Safari, and all the major browsers support the web-based Cisco 300-540 Practice Test.

Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q186-Q191):

NEW QUESTION # 186

SR-IOV technology improves network performance by:

- A. Decreasing the number of available network paths
- B. Encrypting all data in transit
- **C. Allowing VMs direct access to physical network interfaces**
- D. Increasing CPU utilization for network tasks

Answer: C

NEW QUESTION # 187

Which statement best describes the difference between IaaS and PaaS?

- **A. IaaS provides virtualized physical hardware, while PaaS provides a platform to develop, run, and manage applications without dealing with the underlying infrastructure.**
- B. IaaS is for private deployments only, while PaaS is for public deployments.
- C. There is no significant difference; both offer the same services.
- D. IaaS offers software applications over the internet, while PaaS offers physical hardware rentals.

Answer: A

NEW QUESTION # 188

TLS and mTLS are protocols used for:

- A. Access control
- B. Traffic shaping
- **C. Encryption and secure communication**
- D. Routing

Answer: C

NEW QUESTION # 189

Which of the following is NOT a purpose of implementing ACLs in network security?

- A. To restrict access to network resources
- **B. To define routing protocols**
- C. To filter network traffic
- D. To provide a layer of security

Answer: B

NEW QUESTION # 190

What is Virtualized Architecture primarily used for in the context of IT infrastructure?

- A. Decreasing system security
- B. Simplifying legal compliance
- C. Increasing physical hardware costs
- **D. Reducing the need for physical hardware**

Answer: D

NEW QUESTION # 191

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