

100% Pass 2026 Cisco The Best 300-540: New Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Test Blueprint



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Cisco 300-540 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.

Topic 3	<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 4	<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 5	<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.

>> New 300-540 Test Blueprint <<

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Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q47-Q52):

NEW QUESTION # 47

What is used to protect a web server against a DDoS attack?

- A. Web Application Firewall
- B. Network Access Control
- C. Wi-Fi Protected Access
- D. Device Authorization Control

Answer: A

Explanation:

Comprehensive and Detailed Explanation

A Web Application Firewall (WAF) protects HTTP/HTTPS applications against:

- * DDoS attacks (layer 7)
- * Bot traffic
- * Request floods
- * SQL injection, XSS, OWASP Top 10 threats

Other options:

- * Device Authorization Control # device authentication, not DDoS
- * NAC # endpoint authorization, not DDoS
- * WPA # Wi-Fi protection, irrelevant to web servers

Thus, the correct protection mechanism for web servers is A. Web Application Firewall.

NEW QUESTION # 48

A common DoS mitigation technique is:

- A. Removing all filters
- B. Using a single firewall
- C. Rate limiting
- D. Increasing bandwidth

Answer: C

NEW QUESTION # 49

In the context of high availability, EVLAG is implemented to enhance _____.

- A. simplicity
- B. speed
- C. latency
- D. redundancy

Answer: D

NEW QUESTION # 50

Virtualized Cisco platforms, like Cisco IOS XRV, offer which of the following benefits?

- A. Decreased network flexibility
- B. Higher energy consumption
- C. Increased physical space requirements
- D. Reduced need for physical hardware

Answer: D

NEW QUESTION # 51

Which of the following statements accurately describes the difference between NFV and VNF?

- A. NFV refers to network failures, while VNF refers to the virtualization of those failures.
- B. NFV focuses on the deployment of network functions, while VNF refers to the specific network functions being deployed.
- C. VNF and NFV are the same and can be used interchangeably.
- D. NFV is a software update mechanism, whereas VNF is a hardware-based function.

Answer: B

NEW QUESTION # 52

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