

100% Pass 2026 Cisco Efficient 300-540: Exam Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Topic



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Cisco 300-540 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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"> 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 4	<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 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.

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Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q37-Q42):

NEW QUESTION # 37

gNMI/gRPC are used in network management for:

- A. Exclusively managing physical network devices
- B. Simplifying manual network configuration tasks
- C. Reducing the efficiency of network operations

- **D. Providing high-performance, bi-directional streaming of network state information**

Answer: D

NEW QUESTION # 38

Refer to the exhibit. An engineer is troubleshooting an issue with switch LEAF-SW-11. The engineer observes that several main servers on the VXLAN BGP EVPN Multi-Site network experience 50-60% packet loss inbound and outbound, and all the DCI tracking interfaces are down. Which two actions must be taken to resolve the issue? (Choose two.)

- **A. On LEAF-SW-11, enable the multisite ingress-replication command for the L2VNI of VLAN 11.**
- B. On the Nexus switch, run the inner ipv4 dst_ip 172.16.2.200 command against module-1.
- **C. On LEAF-SW-11, run the evpn multisite dci-tracking command against interface Eth1/1.**
- D. On the Nexus switch, run the ip access-list permit ip address 172.16.2.200 command.
- E. On LEAF-SW-11, run the inner ipv4 src_ip 172.16.2.200 command against module-1.

Answer: A,C

Explanation:

In a VXLAN BGP EVPN Multi-Site environment:

- * DCI tracking monitors the health of the DCI links. If all DCI-tracking interfaces go down, the leaf can incorrectly keep advertising or learning remote MAC/IP reachability, leading to packet loss and sub-optimal forwarding for servers in that VLAN/L2VNI.
- * For proper operation, each DCI-facing interface must be enabled with evpn multisite dci-tracking so that the Multi-Site border leaf tracks reachability over that link.
- * When using EVPN Multi-Site, BUM (broadcast, unknown unicast, multicast) traffic toward remote sites is typically handled via ingress replication, not multicast groups, for each L2VNI participating in Multi-Site. The configuration snippet shows an L2VNI (vn-segment 16535) still mapped to mcast-group 239.1.1.0, which is inconsistent with Multi-Site recommendations and contributes to packet loss.

Therefore, to fix the problem:

- * Enable DCI tracking on the uplink:
- * interface Ethernet1/1
- * evpn multisite dci-tracking

This restores proper DCI-link state monitoring for Multi-Site. #Option C

- * Change the L2VNI behavior from multicast to Multi-Site ingress replication:

Under the VNI for VLAN 11, configure:

```
evpn
vni 16535 l2
```

```
multisite ingress-replication
```

or the equivalent command for the specific NX-OS release, thereby aligning the L2VNI with EVPN Multi-Site design and eliminating packet loss. #Option D Options A and B are ELAM (embedded logic analyzer) filters used only for packet capture and do not resolve the forwarding issue.

Option E is an ACL line unrelated to EVPN VXLAN or DCI tracking and does not address the underlying problem.

NEW QUESTION # 39

Which of the following are components of NFV orchestration? (Choose two)

- **A. VNF lifecycle management**
- B. Physical switch configuration
- C. Manual network provisioning
- **D. NSO**

Answer: A,D

NEW QUESTION # 40

Which of the following is an advantage of using RESTCONF over NETCONF for network configuration?

- A. RESTCONF provides more robust security features than NETCONF.
- **B. RESTCONF operates over HTTP, making it more web-friendly than NETCONF.**

- C. RESTCONF uses binary data encoding, making it faster than NETCONF.
- D. NETCONF supports more data models than RESTCONF.

Answer: B

NEW QUESTION # 41

To secure API communication, it is essential to implement:

- A. Unencrypted data exchange
- B. Public API keys only
- C. Unrestricted access policies
- **D. Rate limiting and authentication**

Answer: D

NEW QUESTION # 42

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