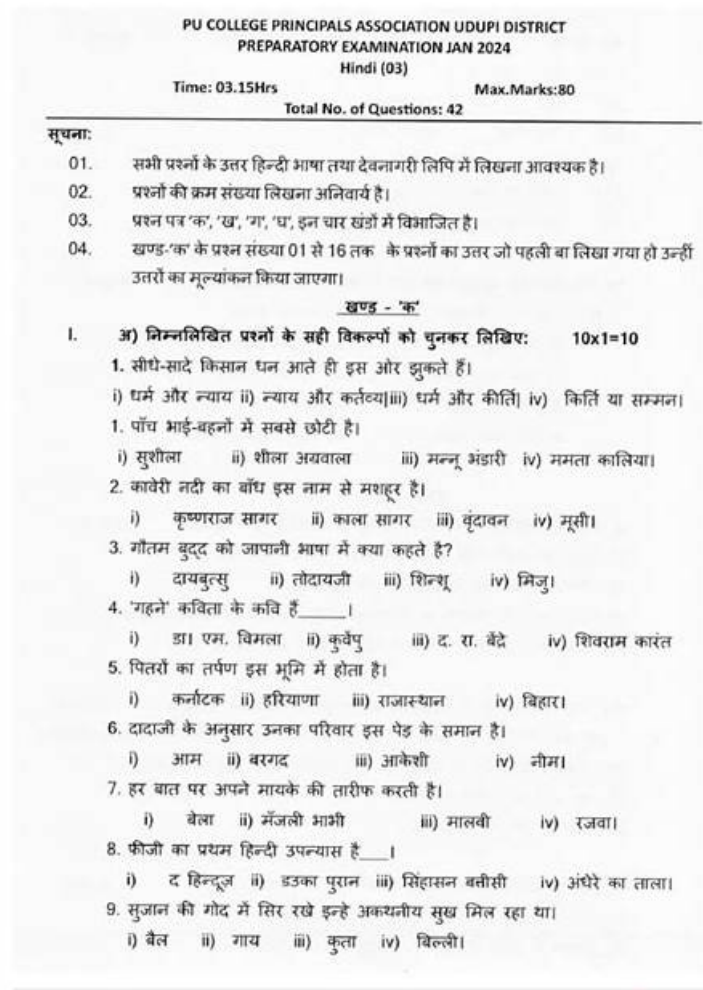


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The Cisco 300-540 certification verifies that you have a basic understanding of Designing and Implementing Cisco Service Provider Cloud Network Infrastructure concepts and virtualization. Success in the 300-540 exam of the Cisco 300-540 certificate also proves your knowledge of basic troubleshooting concepts and data center technology. When you earn the 300-540 Certification you will get reliable exam guide materials.

Cisco 300-540 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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"> • 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.

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Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q94-Q99):

NEW QUESTION # 94

Refer to the exhibit. An engineer must design a solution that creates a low-latency slice based on a link latency measurement by using the MPLS performance measurement. The solution must create a secure slice that minimizes transport costs and meets transport SLAs beyond best effort. What must be used?

- A. AWS Direct Connect
- B. Transit VPC for AWS
- C. IPsec VPN
- D. Segment routing

Answer: D

Explanation:

The requirements in the scenario match the capabilities of Segment Routing (SR-MPLS) combined with MPLS Performance Measurement (MPM):

1. Low-latency slice creation

Segment Routing allows deterministic paths using:

- * SR-TE (Traffic Engineering)
- * Colored or intent-based policies
- * Path selection based on link latency, loss, bandwidth, or utilization

MPLS Performance Measurement supplies real-time data such as:

- * One-way delay
 - * Round-trip delay
 - * Loss metrics
- This allows SR-TE to compute paths with minimum latency.

2. Secure slice with minimized transport cost

Segment Routing supports:

- * Slicing through SR Policies
- * Steering encrypted traffic (IPsec/GETVPN) through specific SR tunnels
- * Traffic separation without requiring additional MPLS LSP state in the core
- * Optimizing transport cost via constraint-based TE computations

3. Transport SLA enforcement beyond best effort

SR-TE + MPM provides:

- * SLA-aware intent routing
- * Guaranteed performance paths
- * Automatic re-optimization if links violate latency or loss SLAs

Why the other options are incorrect

- * B. IPsec VPN Provides encryption but does not offer latency-aware or SLA-based path selection. Not a slicing mechanism
- * C. AWS Direct Connect Cloud connectivity service. Not related to MPLS performance monitoring or transport slicing.
- * D. Transit VPC for AWS Used for SD-WAN cloud integration. Does not support SR-TE slicing or MPLS SLAs.

Therefore, only Segment Routing provides latency-based path computation, slicing, SLA guarantees, and cost optimization.

NEW QUESTION # 95

What is a valid connection method between carrier-neutral facilities that are more than 20 miles away from each other?

- A. CAT6e connection
- B. Private wireless connection
- C. Carrier access Ethernet ring
- D. Multimode fiber connection

Answer: C

Explanation:

Comprehensive and Detailed Explanation

For distances greater than 20 miles, valid inter-facility transport options must support:

- * Metro-scale connectivity
- * High bandwidth
- * Low latency
- * Carrier-grade reliability

A carrier access Ethernet ring (MEN / Metro Ethernet) is designed for:

- * Interconnecting data centers or meet-me rooms
- * Distances far exceeding 20 miles
- * High-availability layer-2 or layer-3 transport

Why the others are invalid:

- * CAT6e# maximum ~100 meters
 - * Multimode fiber# typically <2 km (~1.25 miles)
 - * Private wireless# not used for high-capacity DC interconnects, unreliable for core transport
- Thus, the only correct carrier-grade method is Carrier access Ethernet ring.

NEW QUESTION # 96

Refer to the exhibit. An engineer must configure Cisco IOS SLB for DNS on router R1 to meet these requirements:

The first DNS request to www.ccnptest must be redirected to the DNS server at 10.1.1.1;

The second DNS request to www.ccnptest must be redirected to the DNS server at 10.2.1.1;

The third DNS request to www.ccnptest must be redirected to the DNS server at 10.3.1.1.

The third DNS request to www.ccnptest must be redirected to the DNS server at 10.3.1.1.

In each case, the other two addresses must also be attempted if the first one fails. The indicated configuration was applied to R1;

however, the load balancing failed. Which command must be run on R1 to resolve the issue?

- A. maximum-paths 3
- B. ip domain retry 3
- C. ip domain round-robin
- D. ip dns server

Answer: C

Explanation:

On R1 the configuration (simplified) is:

ip domain lookup

ip domain name ccnptest

ip host www.ccnptest 10.1.1.1 10.2.1.1 10.3.1.1

The ip host command statically maps the hostname www.ccnptest

to three IP addresses. By default, Cisco IOS will always return these IP addresses to DNS queries in the same order they are

configured (10.1.1.1, then 10.2.1.1, then 10.3.1.1). This means that clients will always attempt

10.1.1.1 first and will not achieve per-query load balancing across all three servers.

To enable DNS-based load balancing so that each successive query rotates the order of the addresses, Cisco IOS provides the command:

ip domain round-robin

This command enables round-robin rotation of multiple A records associated with a single hostname defined by ip host. With this feature enabled:

1st query: response order 10.1.1.1, 10.2.1.1, 10.3.1.1

2nd query: response order 10.2.1.1, 10.3.1.1, 10.1.1.1

3rd query: response order 10.3.1.1, 10.1.1.1, 10.2.1.1

Clients will typically try the first IP address in the list and use the others if the first one fails, exactly matching the requirement.

Why other options are incorrect:

A). ip domain retry 3 controls how many times the router retries DNS queries to a server; it does not control the order of multiple A records.

C). ip dns server turns the router into a DNS server but does not itself provide round-robin behavior for statically defined hosts.

D). maximum-paths 3 is a routing (IP forwarding) parameter for equal-cost multipath, unrelated to DNS resolution.

NEW QUESTION # 97

An engineer must implement a solution on a Cisco ASR 1000 Series router to protect against DDoS attacks.

DDoS traffic must be dropped by transmitting Flowspec attributes to edge routers, instructing them to generate an ACL via class-maps and policy-maps. The engineer already configured BGP neighbors. Which action must be taken next?

- A. Activate the BGP neighbors
- B. Configure Flowspec for the BGP address-family
- C. Set the BGP routing process
- D. Configure the route reflector

Answer: B

Explanation:

Comprehensive and Detailed Explanation

BGP Flowspec allows routers to distribute traffic-filtering rules using BGP NLRI.

To enable Flowspec, after neighbors are configured, the essential next step is:

#Activate the Flowspec address-family under BGP

Example:

- Why the other options are incorrect:

* C. Activate neighbors# only makes sense inside an address-family; flowspec AF must be enabled first

Virus detectors are crucial for:

- Answer: B**

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