

Hot Latest 300-540 Practice Materials Free PDF | Pass-Sure Exam 300-540 Topics: Designing and Implementing Cisco Service Provider Cloud Network Infrastructure

TAGORE P.G. COLLEGE, SURATGARH



Pre-University Exam-2025-26
B A Semester - 1
Subject – Political science



Time : 3:00 hrs M.M. = 80

Section – A

All questions are compulsory. (Each question carries 1 mark)

Section – A

(प्रत्येक प्रश्न 1 अंक का है)

सभी प्रश्नों के उत्तर अनिवार्य हैं।

- निम्नलिखित में से राजनीति विज्ञान के परम्परागत दृष्टिकोण की विशेषता नहीं है—
(A) मूल्य आधारित (B) ऐतिहासिक दृष्टिकोण (C) दार्शनिक (D) अन्तर-अनुशासनात्मक
उत्तर – (D)
- राज्य के चार अनिवार्य तत्वों में से कौनसा तत्व नहीं है?
(A) जनसंख्या (B) भूमि (C) संप्रभुता (D) राजनीतिक दल
उत्तर – (D)
- कर्म एक प्रासंगिकता दो नारे हैं जिनका सम्बंध है—
(A) व्यवहारवाद (B) उदारवाद (C) लोकतंत्र (D) आदर्शवाद
उत्तर – (B)
- लोकतंत्र का विशिष्ट वर्गीय सिद्धांत किसने दिया?
(A) परेटो (B) वेन्सम (C) मिल (D) लिक्न
उत्तर – (A)

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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"> 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 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"> 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 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.

Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q114-Q119):

NEW QUESTION # 114

VNF workload optimization often involves:

- A. Utilizing technologies like SR-IOV for performance
- B. Decreasing virtualization
- C. Ignoring software acceleration
- D. Increasing physical network functions

Answer: A

NEW QUESTION # 115

What does NFV stand for?

- A. New Function Virtualization
- B. Network Function Virtualization
- C. Network Function Visualization
- D. Network File Versioning

Answer: B

NEW QUESTION # 116

An engineer must design a high-availability solution that provides path redundancy for IP by allowing redundant gateways to share MAC protocols and addresses. A group of Layer 3 routers must be allowed to share the default gateway on a LAN, load balance, and seamlessly take over the traffic transfer role if a router in the group fails. What must be used?

- A. Routed network core
- B. Load balancer
- C. GLBP
- D. BFD

Answer: C

Explanation:

Comprehensive and Detailed Explanation

In Cisco high-availability LAN gateway designs, the requirement is:

- * Multiple L3 gateways sharing a virtual MAC and virtual IP
- * Ability to load balance across multiple active gateways
- * Capability to seamlessly take over gateway forwarding during a failure

Among Cisco First Hop Redundancy Protocols (FHRPs):

- * HSRP# Active/standby only
- * VRRP# Active/standby only
- * GLBP (Gateway Load Balancing Protocol)#The only FHRP providing active/active load balancing GLBP allows multiple routers to share:
 - * A common virtual IP
 - * Multiple virtual MAC addresses
 - * Multiple active forwarders that load-balance end hosts
 - * Automatic failover if any gateway fails

Thus, GLBP is the only correct protocol matching the requirement for redundant default gateways with load balancing and shared MAC addressing.

NEW QUESTION # 117

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 # 118

Refer to the exhibit. An engineer must design a solution that allows a user to choose which private Cisco Catalyst SD-WAN network they want to connect to AWS. The solution must automatically identify the AWS VPC and other cloud services based on the user credentials. What must be used?

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

Answer: C

Explanation:

In Cisco Catalyst SD-WAN cloud integration, when the requirement is:

- * Automatically discovering AWS VPCs
 - * Automatically identifying AWS services
 - * Allowing the user to choose which private SD-WAN network connects to the cloud
 - * Using AWS credentials (Access Key / Secret Key) for automatic provisioning
- ...the Cisco-supported mechanism is the Cisco SD-WAN Transit VPC solution.

Why Transit VPC is the correct answer:

- * It is specifically designed to integrate Cisco SD-WAN with AWS environments.
- * Uses AWS APIs and user credentials to automatically discover:
 - * VPC IDs
 - * Subnets
 - * Regions
 - * Routing tables
- * Automatically deploys and configures CSR1000v or Catalyst 8000V routers into the VPC.
- * Provides a centralized "hub" in AWS to interconnect multiple SD-WAN sites.
- * Enables the user to choose which SD-WAN segments connect to which VPCs.

This matches the requirement of automatic cloud resource identification based on user credentials.

Why the other options are incorrect

A). AWS Direct Connect

- * This is a physical/private Layer 2 cloud connection.
- * It does not auto-discover VPCs or integrate through credentials.
- * It does not provide automated SD-WAN service provisioning.

C). IPsec VPN

- * Works for connectivity but is manual, not automated.
- * Does not identify AWS cloud resources via credentials.

D). Segment routing

- * A transport technology used inside SP networks, irrelevant to AWS API-based VPC discovery.

Thus, only Transit VPC provides automatic AWS cloud discovery and integration with SD-WAN.

NEW QUESTION # 119

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