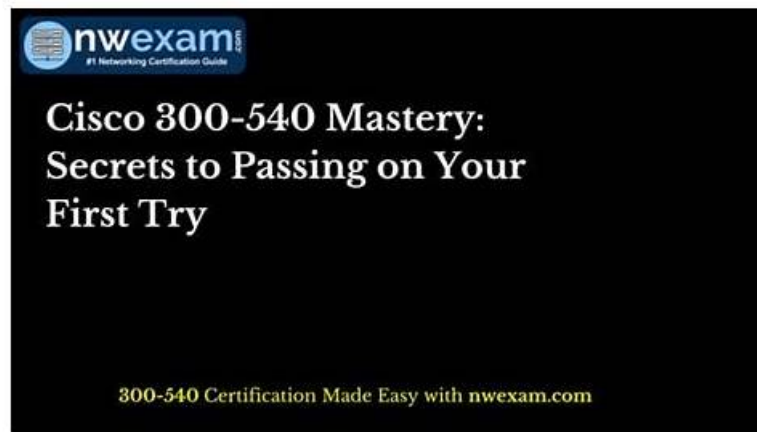


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Cisco 300-540 考試大綱：

主題	簡介
主題 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.

主題 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.
主題 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.
主題 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.
主題 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.

最新的 CCNP Service Provider 300-540 免費考試真題 (Q29-Q34):

問題 #29

Refer to the exhibit. An engineer needs to configure ToR switches for a Cisco NFVI C-series pod. This configuration was performed on the ToR-A switch already:

```
feature vpc
feature lacp
interface Ethernet1/1-2
channel-group 110 mode active
interface port-channel10
```

Which command must be run on ToR-A to complete the port-channel configuration?

- A. switchport mode access
- B. vpc peer-link
- C. channel-group 110 mode on
- D. peer-keepalive destination 10.10.10.2

答案: D

解題說明:

In a Cisco NFVI C-Series Pod, the Top-of-Rack (ToR) switches are almost always configured as avPC pair.

A vPC domain requires three mandatory components:

* vPC domain ID

- * vPC peer-link
- * vPC peer-keepalive link#ensures dual-active detection

In the exhibit:

- * The management interfaces are Tor-A Mgmt0: 10.10.10.1 and Tor-B Mgmt0: 10.10.10.2
- * These IPs are used commonly as the peer-keepalive endpoints
- * The physical uplinks to NFVI nodes form Port-Channel 10

Since the configuration snippet already includes:

- * feature vpc
- * feature lacp
- * channel-group 110 mode active

The next required step in a Cisco NFVI + vPC configuration is to configure the peer-keepalive from ToR-A toward ToR-B:

```
vpc domain 1
peer-keepalive destination 10.10.10.2
```

This ensures:

- * vPC roles sync
- * Dual-active prevention
- * Stable operation for the NFVI C-Series rack

Why the Other Options Are Incorrect

- * A. vpc peer-link This is required but must be configured on the dedicated peer-link interfaces, not on the server-facing port-channel.
- * C. channel-group 110 mode on The correct mode is already configured: mode active for LACP. mode on disables LACP.
- * D. switchport mode access NFVI ToR links use trunking, not access mode, because servers carry multiple networks (control, compute, storage, management VLANs).

問題 #30

What is a benefit of a carrier-neutral data center?

- A. Reduction in foot traffic
- B. Path diversity on multiple carriers
- C. Avoidance of a price lock-in
- D. Lower electrical costs

答案: B

解題說明:

Carrier-neutral facilities allow customers to connect to multiple telecom carriers, providing:

- * Physical path diversity
- * Redundancy
- * Competitive options
- * High availability for interconnects

Thus, path diversity on multiple carriers is the primary benefit.

問題 #31

How does SR-IOV move data directly to and from the network adapter?

- A. Using the STP PortFast
- B. Bypassing the guest operating system
- C. Using the STP VLAN root
- D. Bypassing the hypervisor

答案: D

解題說明:

Comprehensive and Detailed Explanation (Cisco NFVI / Virtualization Knowledge) SR-IOV (Single Root I/O Virtualization) allows a VM to access the network interface hardware directly, without going through the hypervisor's virtual switch.

This is achieved by:

- * Assigning Virtual Functions (VFs) directly to VMs
- * Allowing high-performance, low-latency packet I/O
- * Bypassing the hypervisor datapath

Therefore, SR-IOV does not bypass the guest OS; it bypasses the hypervisor I/O virtualization layer, delivering near-native performance.

Thus the correct answer is C.

問題 #32

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

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

答案： D

解題說明：

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.

問題 #33

VNF data plane redundancy can be achieved by:

- **A. Using placement strategies and network resiliency**
- B. Disabling network resiliency features
- C. Placing all VNFs on a single host
- D. Limiting the use of redundant hardware

答案： A

問題 #34

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