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Nuage Networks Virtualized Cloud Services (VCS) Fundamentals

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QUESTION 1

Which of the following is a host-centric overlay solution for a modern data center?

- A. SPBM
- B. TRILL
- C. VxLAN
- D. VPLS

Correct Answer: C

Modern data center, traditional technologies are limiting the speed, flexibility, scalability, and manageability of application deployments. There is emerging interest in the industry in overlay technologies (such as

MPLS, VXLAN, LISP...)

Reference: <https://community.cisco.com/t5/data-center-documents/cisco-data-center-overlays-with-focus-on-vxlan-slides-from/ta-p/3159545>

QUESTION 2

What impact does server virtualization have on a traditional datacenter network?

- A. Traffic between the virtual machines must be carried in the overlay network, which is not supported by a traditional datacenter network.
- B. Server virtualization requires a hardware upgrade of the network devices (for example, TOR/EOR switch, leaf and spine routers) in a traditional datacenter network.
- C. Server virtualization requires a software upgrade of the network devices (for example, TOR/EOR switch, leaf and spine routers) in a traditional datacenter network.
- D. Traditional network configuration involves manual interaction, which cannot keep up with the dynamic reallocation of compute resources to virtual machines.

Correct Answer: C

QUESTION 3

What is NOT a component of VSD?

- A. Neutron
- B. Statistics Engine
- C. Policy Management Engine

D. RESTful API

Correct Answer: C

Reference:

<https://www.nuagenetworks.net/wp-content/uploads/2020/06/>

PR1507013354EN_NN_RedH_Open_Hybrid_Clouds_PartnerSolutionBrief.pdf

QUESTION 4

Which of the following interfaces does NOT belong to the underlay network?

- A. Interface on VSD
- B. "Control" interface on VSC
- C. Openflow interface on VSC
- D. Hypervisor interfaces carrying VXLAN traffic.

Correct Answer: B

QUESTION 5

What three main components comprise the Nuage Networks VCS solution?

- A. VSD, VSC, and VSG
- B. VSD, VSC, and VRS
- C. VNS, VSC, and VSG
- D. VNS, VRS, and VSG

Correct Answer: B

Reference: <https://www.nuagenetworks.net/products/virtualized-cloud-services/>

QUESTION 6

For a packet transmitted using VXLAN encapsulation, where is the VXLAN header within the packet?

- A. It is part of the Layer 2 Ethernet header, just like VLAN.
- B. It is added between the Layer 2 header and the Layer 3 IP header.
- C. It is added between the Layer 3 IP header and the TCP/UDP transport layer header.

D. It is added between the UDP header and the payload.

Correct Answer: C

Reference: <https://openct.net/wp-content/uploads/OpenCT-BaaT-Technical-Documentation-2020.pdf>

QUESTION 7

What is the difference between host vPort and bridge vPort?

- A. A host vPort is provisioned on VRS-G, while a bridge vPort is provisioned on VSG.
- B. A host vPort is provisioned for VLAN traffic, while a bridge vPort is for VxLAN traffic.
- C. A host vPort only supports one VLAN, while a bridge vPort can be configured with multiple VLANs.
- D. A host vPort requires static MAC address configuration, while a bridge vPort learns MAC addresses dynamically.

Correct Answer: A

Bridge vPort hosted in Nuage VSG/VSA Gateways Software, VRS and VRS-G hosted vPort

Reference: <https://matscloud.blogspot.com/2017/06/nuage-networks-vsp-deep-dive.html>

QUESTION 8

Which statement correctly describes cloud computing?

- A. Services are statically provisioned by a cloud service provider.
- B. Services are offered as needed through the Internet.
- C. SDN is the key enabler for cloud computing.
- D. It provides convenient, permanent network access to a shared pool of computing resources.

Correct Answer: D

Cloud computing is a model for enabling convenient, on-demand network access to a shared pool of configurable computing resources.

Reference: <https://www.ibm.com/blogs/cloud-computing/2014/02/04/cloud-computing-basics-2/>

QUESTION 9

The ML2 plug-in is part of which OpenStack project?

- A. Neutron
- B. ironic

C. Nova

D. Heat

Correct Answer: A

Reference: <https://docs.openstack.org/mitaka/networking-guide/config-ml2.html>

QUESTION 10

What statement is TRUE regarding the pull and push mode of CMS integration with Nuage Networks VCS?

A. In the push model, VSD pushes the network configuration to CMS.

B. In the pull model, VRS pull the network configuration from CMS.

C. In the push model, CMS pushes the network configuration to VSC.

D. In the pull model, CMS pulls the network configuration from VSD.

Correct Answer: C

Reference: <https://www.packetcoders.io/what-is-nuage-networks-vcs-virtualized-cloud-services/>

QUESTION 11

Which protocol is used for VSC federation?

A. BGP VPN-IPv4

B. BGP EVPN

C. Openflow

D. XMPP

Correct Answer: C

The VSC uses standard protocols to peer with existing networks, allowing it to discover full network topology and reachability. Through Openflow, it distributes relevant switching and routing information to hypervisors within the virtualized datacenter network.

Reference: <http://www.nuagenetworks.net/wp-content/uploads/2015/08/NuageNetworks-ArchitectureWhite-Paper.pdf>

QUESTION 12

What statement regarding VSD user management is TRUE?

A. We can create CMS user groups for each enterprise.

B. Each enterprise user belongs to only one user group.

C. Open LDAP and Active Directory can be integrated into VSD.

D. LDAP integration is configured at the VSD global level, and it is not configurable enterprise.

Correct Answer: B

Easy as adding them to a specific user group.

Reference: <https://docs.adobe.com/content/help/en/target/using/administer/manage-users/enterprise/property-channel.html>

QUESTION 13

What statement is TRUE regarding a redundant redirection target?

A. By default, high availability is enabled for all redirection targets.

B. A redundant redirection target can have only 1 virtual IP.

C. We can associate at maximum 2 vPorts with a redundant redirection target.

D. Traffic will be redirected to all the vPorts within a redundant redirection target.

Correct Answer: B

QUESTION 14

What mapping is FALSE?

A. CMS – Management plane

B. VSD – Management plane

C. VSC – Control plane

D. VRS – Control plane

Correct Answer: A

Reference: <https://docs.oracle.com/en-us/iaas/Content/Resources/Assets/whitepapers/sdn-integration-with-nuagenetworks.pdf>

QUESTION 15

What statement is FALSE regarding the relationship between a zone and a subnet within a domain?

A. Each zone can have multiple subnets.

B. Each subnet can belong to multiple zones.

C. A QoS policy defined at the subnet level takes precedence over a QoS policy defined at the zone level.

D. A security policy applied to the zone impacts all subnets associated to that zone.

Correct Answer: B

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