

# 4A0-N01<sup>Q&As</sup>

Nuage Networks Virtualized Cloud Services (VCS) Fundamentals

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## QUESTION 1

What statement correctly describes the difference between a managed Layer 2 domain and an unmanaged Layer 2 domain?

- A. A managed L2 domain has one or more zones and each zone can have multiple subnets, each with its own IP address pool, while an unmanaged L2 domain does not have zones or subnets.
- B. Managed L2 domains can have overlapping IP address pools, while unmanaged L2 domains are not allowed to have overlapping IP address pools.
- C. In a managed L2 domain, Nuage VCS manages security policies, while in an unmanaged domain, Nuage VCS cannot manage the security policies.
- D. In a managed L2 domain, Nuage VCS performs DHCP and ARP proxy functions, while in an unmanaged domain VCS has no visibility of IP addresses.

Correct Answer: B

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## QUESTION 2

What is NOT a function of the VSC?

- A. CMS integration
- B. SDN controller
- C. BGP federation
- D. XMPP communication with VSD

Correct Answer: B

Reference: <https://www.sdxcentral.com/networking/sdn/definitions/nuage-networks-vsc/>

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## QUESTION 3

Which statement about SDN is correct?

- A. Network control is fully integrated into the forwarding plane.
- B. SDN supports cloud computing by automating virtual machine instantiation.
- C. The API interface provides a way to program the SDN switch directly.
- D. The SDN controller provides global provisioning of network devices.

Correct Answer: B

Reference: <https://searchnetworking.techtarget.com/definition/software-defined-networking-SDN>

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**QUESTION 4**

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>

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**QUESTION 5**

On which Kubernetes node is the Nuage-kube-mon component installed?

- A. On the worker node.
- B. On the master node.
- C. On the network node.
- D. On a dedicated gateway node.

Correct Answer: A

**QUESTION 6**

What benefits does virtualization bring to a data center?

- A. Mobility, flexibility, and better resource utilization.
- B. Multitasking with prioritized process scheduling.
- C. More processing power, memory and disk space.
- D. Higher bandwidth, control plane simplification and reduced forwarding tables.

Correct Answer: C

Reference: <https://www.paessler.com/it-explained/virtualization>

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**QUESTION 7**

What does VSD stand for?

- A. Virtualized Services Description
- B. Virtualized Services Definition
- C. Virtualized Services Domain
- D. Virtualized Services Directory

Correct Answer: D

Nuage Virtual Service Directory (VSD)

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

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## QUESTION 8

What is NOT a function performed by VSD?

- A. VSD is the service definition point where all the network service and policy templates are created.
- B. VSD is an analytics engine that can provide historic and real time information on the network and the VM usage of the network.
- C. VSD communicates to the cloud management systems through RESTful APIs.
- D. VSD is the DNS and NTP server for the datacenter network.

Correct Answer: C

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## QUESTION 9

Consider a domain with 3 subnets; each subnet has one virtual machine. Each virtual machine is created on a different HV. How many EVPNs are created on each HV with backhaul VPLS AND without backhaul VPLS?

- A. With backhaul VPLS, there is 1 EVPN; without backhaul VPLS, there are 4 EVPNs on each HV.
- B. With backhaul VPLS, there is 1 EVPN; without backhaul VPLS, there are 3 EVPNs on each HV.
- C. With backhaul VPLS, there are 2 EVPNs; without backhaul VPLS, there are 4 EVPNs on each HV.
- D. With backhaul VPLS, there are 2 EVPNs; without backhaul VPLS, there are 3 EVPNs on each HV.

Correct Answer: B

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## QUESTION 10

To auto-instantiate services on a 7750 DCI, which protocol needs to be enabled between the 7750 SR and VSD?

- A. SNMP
- B. Openflow
- C. XMPP
- D. BGP EVPN

Correct Answer: C

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## 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.nuage networks.net/wp-content/uploads/2015/08/NuageNetworks-ArchitectureWhite-Paper.pdf>

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## QUESTION 12

What statement about Open vSwitch is TRUE?

- A. It is a standard virtual switch that can run on any operating system.
- B. It can only be configured using Openflow by an SDN controller.
- C. It provides tunneling mechanisms, for example: VXLAN.
- D. It supports most of the open protocols, for example: OSPF, BGP.

Correct Answer: C

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## QUESTION 13

What statement about the Nuage Networks VCS solution is FALSE?

- A. It virtualizes and automates the datacenter network infrastructure.
- B. It leverages a variety of open source components such as Openflow and Libvirt.
- C. The SDN controller of Nuage Networks VCS, is based on the Nokia 7750 SR OS, which is a proven and highly reliable software component.
- D. It requires a specific architecture for its networking hardware infrastructure.

Correct Answer: C

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## QUESTION 14

Which of the following is NOT an improvement provided by the backhaul VPLS?

- A. Reducing the number of EVPN on the HV.
- B. Reducing the number of VXLAN tunnels.
- C. Reducing the size of MAC address table.
- D. Reducing the consumption of bandwidth.

Correct Answer: B

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## QUESTION 15

Which statement is TRUE when comparing Virtual Machines and Containers?

- A. Virtual Machines are faster to boot.
- B. Containers do not need a CMS.
- C. All Virtual Machines on the same hypervisor must run the same guest OS.
- D. All Containers on the same host use the same OS kernel.

Correct Answer: D

Reference: <https://www.nuagenetworks.net/blog/more-on-docker/>

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