



# 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 statement about virtual switches is FALSE?

- A. A virtual switch is typically implemented within the hypervisor so that the network is extended onto the server.
- B. Virtual switches are VLAN capable.
- C. Typically, virtual switches are as capable as physical switches, eg: LAG, hardware-based QoS.
- D. If a virtual switch is not on the hypervisor, all traffic will go out of the physical NIC.

Correct Answer: D

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**QUESTION 3**

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

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#### QUESTION 4

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 5

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 6

What statement about statistics rules on Nuage VCS is FALSE?

- A. Users can define statistics rules for domain/zones/subnets/vPorts. The rule applied to the most granular object is the one used.
- B. Statistics are collected in an Elasticsearch statistics engine and are aggregated over hours, days, and months.
- C. Statistics are pushed from VRS up to VSC, which in turn sends them to the VSD stats engine.
- D. When a TCA threshold is exceeded, an event is displayed in the UI and a message is sent on the JMS bus.



Correct Answer: A

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#### QUESTION 7

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

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#### QUESTION 8

What statement is TRUE regarding service chaining provided by Nuage VCS?

- A. Service chaining is flow-based traffic redirection.
- B. Service chaining only works for virtual appliances.
- C. A virtual firewall is required to perform service chaining.
- D. It consists of packets being forwarded by the local VPLS, then through the enterprise VPRN and lastly the backhaul VPLS.

Correct Answer: B

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#### QUESTION 9

Which two elements of the Nuage Networks VCS Solution act respectively as the control and data plane of a virtual router?

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

Correct Answer: C

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Reference: [https://www.nuagenetworks.net/wp-content/uploads/2020/06/Nuage\\_Networks\\_VSP\\_Data\\_Sheet\\_EN.pdf](https://www.nuagenetworks.net/wp-content/uploads/2020/06/Nuage_Networks_VSP_Data_Sheet_EN.pdf)

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#### QUESTION 10

What occurrence is NOT a problem facing a traditional data center network?

- A. High packet loss due to the use of the 3-tier hierarchy.
- B. Sub-optimal traffic flow.
- C. About half of the bandwidth is not used due to links being disabled by STP.
- D. High latency for some applications.

Correct Answer: B

Reference: <https://nsl.cs.sfu.ca/teaching/13/880/surveyVirtualization.pdf>

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#### QUESTION 11

What is NOT a requirement for modern data center networks to facilitate cloud computing?

- A. Multi-tenancy
- B. Network automation
- C. Virtual machine live migration
- D. Network function virtualization

Correct Answer: D

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#### QUESTION 12

What function is NOT supported on the Nuage 7850 VSG?

- A. Hardware VXLAN/VLAN gateway
- B. Cloud orchestration
- C. Top of Rack switch/Leaf router
- D. VSC functionality

Correct Answer: B

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#### QUESTION 13

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 14

What task is NOT part of VSD policy evaluation for a newly-instantiated virtual machine?

- A. Checking metadata.
- B. Creating a virtual port.
- C. Building a forwarding table
- D. Assigning an IP address.

Correct Answer: C

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#### QUESTION 15

What statement about policy groups is FALSE?

- A. Several vPorts ( in the same or different subnets) can be associated with one policy group.
- B. One vPort can be associated with multiple policy groups.
- C. For an ingress security policy, if a hardware endpoint policy group is chosen as the source, the destination must also be hardware endpoints.
- D. The policy group is the syntactic equivalent of the security group used by cloud management systems.

Correct Answer: A

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