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QUESTION 1

An administrator is securing a private cloud environment and wants to ensure only approved systems can connect to switches. Which of the following would be MOST useful to accomplish this task?

A. VLAN

B. NIPS

C. WAF

D. NAC

Correct Answer: D

NAC (Network Access Control) is what the administrator should implement to ensure only approved systems can connect to switches in a private cloud environment. NAC is a security technique that controls and restricts access to network resources based on predefined policies or rules. NAC can verify and authenticate users or devices before granting them access to switches or other network devices. NAC can also enforce compliance and security standards on users or devices before allowing them to connect to switches.

Reference: https://www.cisco.com/c/en/us/products/security/what-is-network-access-control-nac.html

QUESTION 2

An organization is developing a new solution for hosting an external website. The systems administrator needs the ability to manage the OS. Which of the following methods would be MOST suitable to achieve this objective?

A. Deploy web servers into an laaS provider.

B. Implement a cloud-based VDI solution.

C. Provision web servers in a container environment.

D. Use PaaS components in the cloud to implement the product.

Correct Answer: A

Deploying web servers into an IaaS (Infrastructure as a Service) provider is the most suitable method to achieve the objective of hosting an external website and managing the OS. IaaS is a cloud service model that provides basic computing resources such as servers, storage, network, etc., to the customers. The customers have full control and flexibility over these resources and can install and configure any software they need on them. IaaS is suitable for hosting web servers and managing the OS, as it allows the customers to choose their preferred OS, web server software, settings, etc., and customize them according to their needs.

QUESTION 3

A systems administrator is configuring RAID for a new server. This server will host files for users and replicate to an identical server. While redundancy is necessary, the most important need is to maximize storage.

Which of the following RAID types should the administrator choose?

A. 5

B. 6

C. 10

D. 50

Correct Answer: A

Since the minimum number of required disks for RAID 60 is 8, we\\'ll use 8, 1TB drives for this example.

RAID 5 Usable storage = 7 TB RAID 6 Usable Storage = 6 TB RAID 50 Usable Storage = 6 TB RAID 60 Usable Storage = 4 TB

This is not debatable, the best RAID to maximize storage is RAID 5. The question asks nothing about performance, only storage.

QUESTION 4

A systems administrator is deploying a solution that includes multiple network I/O-intensive VMs. The solution design requires that vNICs of the VMs provide low-latency, near-native performance of a physical NIC and data protection between the VMs. Which of the following would BEST satisfy these requirements?

A. SR-IOV

B. GENEVE

C. SDN

D. VLAN

Correct Answer: A

SR-IOV (Single Root Input/Output Virtualization) is what would best satisfy the requirements of low-latency, near-native performance of a physical NIC and data protection between VMs for multiple network I/O-intensive VMs. SR-IOV is a

technology that allows a physical NIC to be partitioned into multiple virtual NICs that can be assigned to different VMs. SR-IOV can provide the following benefits:

Low-latency: SR-IOV can reduce latency by bypassing the hypervisor and allowing direct communication between the VMs and the physical NIC, without any overhead or interference.

Near-native performance: SR-IOV can provide near-native performance by allowing the VMs to use the full capacity and functionality of the physical NIC, without any emulation or translation.

Data protection: SR-IOV can provide data protection by isolating and securing the network traffic between the VMs and the physical NIC, without any exposure or leakage.

QUESTION 5

An organization was preparing to harden an environment before granting access to external auditors. Vulnerability testing was completed, and only one low-priority, informational vulnerability remained outstanding:

Finding
HTTP Header information disclosure.
Description
Remote web server may send information related to server operating system which may aid the attacker.

Two weeks later, the auditors review the system on a new machine without an existing browser cache. Credentials are not required when accessing the application login page. Which of the following tests were skipped, causing this issue?

A. Functionality testing

B. Usability testing

C. Regression testing

D. Penetration testing

Correct Answer: D

Reference: https://www.techtarget.com/searchsecurity/definition/penetration-testing

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