E10-001^{Q&As}

Information Storage and Management Exam Version 2

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QUESTION 1

What is a logical component of a storage environment?

A. Bus

B. Disk

C. Filesystem

D. Memory

Correct Answer: C

QUESTION 2

What is the correct sequence of steps for a target to authenticate to an initiator in an IP SAN using oneway Challenge-Handshake Authentication Protocol (CHAP)?

Select and Place:

Steps	Steps in Sequence
Initiator sends the hash value to the target	Step 1
Initiator initiates a login to the target	Step 2
Target acknowledges authentication	Step 3
Target sends a CHAP challenge to the initiator	Step 4
Target compares the expected hash value with the received hash value	Step 5
Initiator converts the shared secret into a hash value	Step 6

Correct Answer:

Steps	Steps in Sequence
	Initiator initiates a login to the target
	Target sends a CHAP challenge to the initiator
	Initiator converts the shared secret into a hash value
	Initiator sends the hash value to the target
	Target compares the expected hash value with the received hash value
	Target acknowledges authentication

QUESTION 3

What does the area ID of the FC address identify?

A. Group of ports within a switch

B. An individual port within a fabric

C. Location of the name server within the fabric

D. Unique number provided to each switch in the fabric

Correct Answer: A

FC Addressing in Switched Fabric

An FC address is dynamically assigned when a node port logs on to the fabric. The FC address has a distinct format, as

shown in the slide.

The first field of the FC address contains the domain ID of the switch. A Domain ID is a unique number provided to each switch in the fabric.

Although this is an 8-bit field, there are only 239 available addresses for domain ID because some addresses are deemed special and reserved for fabric management services. For example, FFFFFC is reserved for the name server, and

FFFFFE is reserved for the fabric login service. The area ID is used to identify a group of switch ports used for connecting nodes. An example of a group of ports with common area ID is a port card on the switch. The last field, the port ID,

identifies the port within the group. Therefore, the maximum possible number of node ports in a switched fabric is calculated as:

239 domains X 256 areas X 256 ports = 15,663,104

- FC Address is assigned to nodes during fabric login
  - Used for communication between nodes within FC SAN
- Address format

Domain ID	Area ID	Port ID
Bits (23-16)	Bits (15-08)	Bits (07-00)

- Domain ID is a unique number provided to each switch in the fabric
  - 239 addresses are available for domain ID
- Maximum possible number of node ports in a switched fabric:
  - 239 domains X 256 areas X 256 ports = 15,663,104

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QUESTION 4

What is included as part of SAN accessibility monitoring?

A. Fan-in/Fan out ratio

B. Port status change

C. ISL utilization

D. Disk status

Correct Answer: B

Monitoring Network: Accessibility Storage networks need to be monitored to ensure proper communication between the server and the storage array. Uninterrupted access to data over the storage network depends on the accessibility of the physical and logical components in the storage network. The physical components of a storage network include switches, ports, cables, and power supplies. The logical components include constructs, such as zones. Any failure in the physical or logical components causes data unavailability. For example, errors in zoning, such as specifying the wrong WWN of a port, result in failure to access that port, which potentially prevents access from a host to its storage. EMC E10-001 Student Resource Guide. Module 14: Securing the Storage Infrastructure
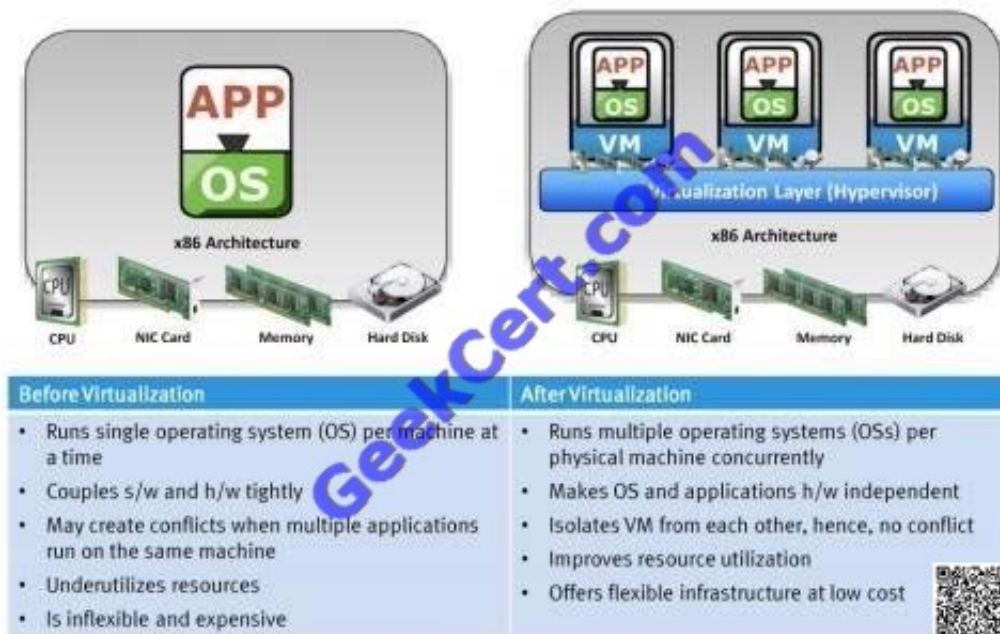
QUESTION 5

What is a key benefit of virtualization?

A. Improved resource utilization

B. Improved performance

C. Enhanced interoperability

D. Unlimited resource scaling

Correct Answer: A

Need for Compute Virtualization

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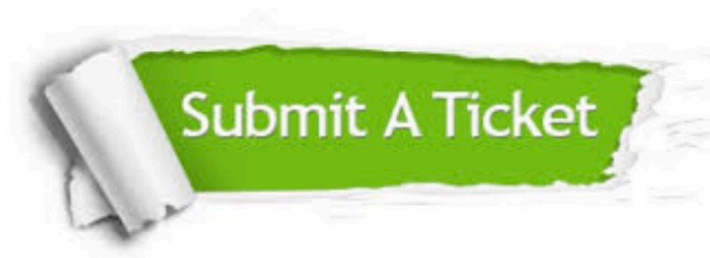
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