

Dell EMC D-ISM-FN-02

Dell Information Systems and Management Foundations

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Questions**

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Version: 4.0

Question: 1

An organization wants to consume compute, network, and storage resources through a self-service portal. Which cloud service model provides this capability?

- A. Platform as a Service
- B. Infrastructure as a Service
- C. Data as a Service
- D. Software as a Service

Answer: B

Explanation:

Infrastructure as a Service (IaaS) is a cloud computing model that provides virtualized computing resources over the internet. It offers fundamental infrastructure services such as compute, storage, and networking, which users can provision and manage through a self-service portal. This model allows organizations to scale resources as needed and pay only for what they use.

Reference: Dell Information Storage and Management Foundations 2023 Study Guide, Section: Cloud Service Models.

Question: 2

Which operations management process is responsible for maintaining information about configuration items (CIs)?

- A. Performance management
- B. Configuration management
- C. Change management
- D. Capacity management

Answer: B

Explanation:

Configuration Management is the process that ensures all configuration items (CIs) are identified, tracked, and maintained throughout their lifecycle. It maintains a Configuration Management Database (CMDB) that records the relationships and configurations of various components in the IT environment.

Reference: Dell Information Storage and Management Foundations 2023 Study Guide, Section: Storage Infrastructure Management Functions.

Question: 3

A Fibre Channel switch has eight ports, and all ports must be operational from 6 AM to 6 PM, Monday through Friday. However, a failure of Port 4 occurs within the week as follows:

Monday: 11 AM to 1 PM

Wednesday: 5 PM to 10 PM

Thursday: 7 AM to 10 AM

Saturday: 11 AM to 1 PM

What is the availability of Port 4 in that week?

- A. 90%
- B. 80%
- C. 86.7%
- D. 81.6%

Answer: C

Explanation:

Total operational hours required: 12 hours/day × 5 days = 60 hours

Total downtime during required hours:

Monday: 2 hours

Wednesday: 1 hour (only 5 PM to 6 PM counts)

Thursday: 3 hours

Total downtime: 2 + 1 + 3 = 6 hours

Availability = $((60 - 6) / 60) \times 100 = 90\%$

However, considering the total downtime including Saturday (which is outside required hours), the total downtime becomes 8 hours, but only 6 hours affect the required operational time. Therefore, availability remains at 90%.

Reference: Dell Information Storage and Management Foundations 2023 Study Guide, Section: Information Availability Measurements.

Question: 4

When troubleshooting a virtual machine, which file is most likely to provide a detailed history of the VM's behavior?

- A. Configuration file
- B. Log file
- C. Memory state file
- D. Virtual disk file

Answer: B

Explanation:

Log files record events and messages related to the operations of a virtual machine. They provide detailed information about the VM's behavior, errors, and system messages, which are crucial for troubleshooting.

Reference: Dell Information Storage and Management Foundations 2023 Study Guide, Section: Virtualization and Storage.

Question: 5

How does Storage Class Memory (SCM) compare to DRAM and flash memory in terms of speed?

- A. SCM is slower than flash but faster than HDDs
- B. SCM is slower than DRAM but faster than flash
- C. SCM is faster than both DRAM and flash
- D. SCM is as fast as DRAM

Answer: B

Explanation:

Storage Class Memory (SCM) bridges the gap between DRAM and NAND flash memory. It offers faster access times than flash memory but is still slower than DRAM. SCM provides non-volatile storage with performance characteristics closer to DRAM, making it suitable for applications requiring high-speed data access.

Reference: Dell Information Storage and Management Foundations 2023 Study Guide, Section: Storage Technologies.

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