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Question 1

Question Type: MultipleChoice

Hyperscale computing relies on scalable server architecture.

Options:

A- True

B- False

Answer:

A

Explanation:

Hyperscale computing relies on scalable server architecture. This is true because hyperscale computing is a type of cloud computing that aims to provide massive scalability, performance, and efficiency for large-scale applications and data processing¹. Hyperscale computing requires a scalable server architecture that can support thousands or millions of servers that are interconnected by high-speed networks². Scalable server architecture enables hyperscale computing to handle increasing workloads, optimize resource utilization, and reduce operational costs³. Reference: ¹: Nokia Bell Labs Distributed Cloud Networks, Unit 4: Operating Your Cloud, Section 4.1: Industry Trends in Data Center Hardware ²: How Nokia Bell Labs' new serverless computing design will take cloud computing to the next level ³:

Question 2

Question Type: MultipleChoice

Which of the following best describes the scaling stage of the application life cycle?

Options:

- A-** The application adjusts its capacity.
- B-** The periodic upgrade of the service to be maintain security and performance standards.
- C-** The application will be deployed over the infrastructure.
- D-** The application will terminate and free associated resources.

Answer:

A

Explanation:

The statement that best describes the scaling stage of the application life cycle is the application adjusts its capacity. Scaling is the process of increasing or decreasing the number of resources allocated to an application based on the demand and performance¹. Scaling can be done manually or automatically using policies and metrics¹. The other statements do not describe the scaling stage, but rather other stages of the application life cycle. The periodic upgrade of the service is part of the maintenance stage, which ensures the reliability and security of the application². The deployment of the application over the infrastructure is part of the installation stage, which involves the configuration and activation of the application². The termination and freeing of associated resources is part of the decommissioning stage, which removes the application from the network². Reference: ¹Nokia Bell Labs Distributed Cloud Networks, Unit 4: Operating Your Cloud, slide 23; ²Nokia Bell Labs Distributed Cloud Networks, Unit 4: Operating Your Cloud, slide 10

Question 3

Question Type: MultipleChoice

Security is crucial for data centers and their users.

Options:

A- True

B- False

Answer:

A

Explanation:

Security is crucial for data centers and their users because data centers store, process, and transmit large amounts of sensitive and valuable data for various organizations and individuals. Data centers face various security threats such as cyberattacks, natural disasters, human errors, power outages, etc.that can compromise the confidentiality, integrity, and availability of the data and the services¹. Therefore, data centers need to implement various security measures such as encryption, authentication, authorization, backup, firewall, antivirus, physical security, etc.to protect the data and the users from unauthorized access, data loss, data corruption, service disruption, etc².Reference:1: Nokia Bell Labs Distributed Cloud Networks, Unit 2: Cloud Technologies and Features, Section 2.3: Cloud Networking Features2:Data Center Security: What You Need to Know

Question 4

Question Type: MultipleChoice

What does the standardization of network functions provide? (Select 2)

Options:

- A- Well defined interfaces.
- B- Flexible rules open to interpretation.
- C- Defined functional elements.
- D- Simplicity for the implementation.

Answer:

A, C

Explanation:

The standardization of network functions provides well defined interfaces and defined functional elements. Well defined interfaces are the specifications that describe how network functions communicate and interact with each other and with other network components. Defined functional elements are the components that perform specific tasks or functions within the network. By standardizing these aspects, network functions can achieve interoperability, compatibility, and modularity, which are essential for building and deploying network services.

[Nokia Bell Labs 5G Professional Certification - Distributed Cloud Networks, Unit 3: Cloud Resource Planning, slide 13](#)

[Module by Module - Self Study Note Guide, DC3.2-- Network Function, page 13](#)

Question 5

Question Type: MultipleChoice

Agility in data centers are a prime attribute of an efficient Distributed Cloud Solution. Which of the following factors are the focus of an agile data center? (Select 2)

Options:

- A- Fixed Architecture
- B- Scalability
- C- Openness
- D- Closed Cloud System

Answer:

B, C

Explanation:

Scalability and Openness are the focus of an agile data center. Scalability refers to the ability of a data center to adapt to changing demands and workloads by adding or removing resources dynamically. Openness refers to the use of open standards and interfaces

that enable interoperability and integration of different technologies and vendors in a data center. An agile data center can provide flexible, efficient, and cost-effective services to customers and applications, while reducing operational complexity and overhead. Fixed Architecture and Closed Cloud System are not the focus of an agile data center. Fixed Architecture means a rigid and predefined structure of a data center that cannot be easily modified or customized. Closed Cloud System means a proprietary and isolated cloud platform that does not support compatibility or collaboration with other cloud platforms or services. A fixed architecture and a closed cloud system can limit the performance, functionality, and innovation of a data center, and increase the dependency and lock-in of customers and applications. Reference: Nokia Bell Labs 5G Professional Certification - Distributed Cloud Networks, Unit 1: Cloud Ecosystem, Section 1.3: Cloud Agility.

Question 6

Question Type: MultipleChoice

Which of the following statements is correct regarding distributed cloud and cloud options?

Options:

- A- Cloud options are the same concept as distributed cloud.
- B- Cloud options are complementary with distributed cloud.

C- Cloud options are the opposite of distributed cloud.

Answer:

B

Explanation:

Distributed cloud is a concept that refers to the deployment of cloud services across multiple locations, such as public, private, hybrid, or edge clouds¹. Cloud options are the different types of cloud models that can be used to meet the specific needs and requirements of different applications and users². Cloud options are complementary with distributed cloud, as they enable the flexibility and scalability of cloud services across the cloud continuum³. Therefore, option B is the correct statement, while options A and C are incorrect. Reference: 1: Nokia Bell Labs Distributed Cloud Networks, Unit 2: Cloud Technologies and Features, Topic: Distributed Cloud Description 2: Nokia Bell Labs Distributed Cloud Networks, Unit 2: Cloud Technologies and Features, Topic: Cloud Options 3: Cloud continuum | Nokia, Overview

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