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Question 1

Question Type: MultipleChoice

Which of the following statements is correct regarding monolithic applications?

Options:

- A- Monolithic applications are smaller in size than cloud native applications.
- B- Monolithic applications are more reliable than microservices.
- C- Monolithic applications are a mono-block functional service.
- D- Monolithic applications involve the most complex management strategy.

Answer:

C

Explanation:

Monolithic applications are a mono-block functional service because they are composed of a single, self-contained unit that contains all the components of the application, such as the user interface, business logic, data access, etc¹. Monolithic applications are not smaller in size than cloud native applications, as they tend to grow larger and more complex over time². Monolithic applications are not more

reliable than microservices, as they are more prone to failures, bugs, and performance issues due to the tight coupling and interdependency of the components³. Monolithic applications do not involve the most complex management strategy, as they are easier to develop, test, and deploy initially, but they become harder to maintain, scale, and update as the application evolves⁴. Reference: 1: Nokia Bell Labs Distributed Cloud Networks, Unit 2: Cloud Technologies and Features, Section 2.4: Cloud Application Architectures 2: Monolithic Architecture 3: Microservices vs Monolithic Architecture 4: Monolithic vs. Microservices Architecture

Question 2

Question Type: MultipleChoice

Select the best option below to complete the following sentence.

On-Boarding of a Network Service requires both ____ and ____ templates.

Options:

A- Application, Cloud

B- NS, NF

C- Container, VIM

D- CNF, VNF

Answer:

B

Explanation:

On-Boarding of a Network Service requires both NS and NF templates. NS stands for Network Service, which is a logical grouping of network functions and resources that provide a specific functionality or service to the end user. NF stands for Network Function, which is a software component that performs a specific task or function within the network. Templates are files that describe the characteristics, requirements, and dependencies of network services and network functions. On-Boarding is the process of registering and validating network services and network functions in the cloud platform, so that they can be instantiated and managed.

[Nokia Bell Labs 5G Professional Certification - Distributed Cloud Networks, Unit 5: New Services Automation, slide 7](#)

[Module by Module - Self Study Note Guide, DC5.1-- New Services Automation, page 19](#)

On-boarding a Network Service typically involves Network Service (NS) and Network Function (NF) templates. NS templates define the overall structure and requirements of a network service, including its composition of various NFs and their interconnections. NF templates specify the configurations for individual network functions that are part of the service. Together, they enable the automated deployment and management of complex network services in a standardized manner.

Question 3

Question Type: MultipleChoice

Multitenancy in cloud computing defines?

Options:

- A-** A set of cloud resources isolated from each other.
- B-** A set of cloud resources shared by several customers.
- C-** A set of cloud resources located in different data centers.
- D-** A set of cloud resources assigned to the same network slice.

Answer:

B

Explanation:

Multitenancy in cloud computing defines a set of cloud resources shared by several customers. Multitenancy is a feature of cloud computing that allows multiple customers, or tenants, to use the same cloud infrastructure and services, such as servers, storage, network, and applications, while maintaining their own data and configuration. Multitenancy enables cloud providers to optimize the utilization and allocation of cloud resources, reduce the cost and complexity of cloud operations, and offer scalable and flexible services

to different customers. Multitenancy also benefits customers by providing them with on-demand access to cloud resources, pay-per-use pricing models, and enhanced security and isolation. The other options are not correct definitions of multitenancy in cloud computing. A set of cloud resources isolated from each other is a single-tenant model, where each customer has its own dedicated cloud infrastructure and services. A set of cloud resources located in different data centers is a distributed cloud model, where cloud resources are spread across multiple physical locations to provide low latency, high availability, and local compliance. A set of cloud resources assigned to the same network slice is a network slicing model, where a logical network is created over a shared physical network to support specific applications and customers with customized performance, quality, and security. Reference: Nokia Bell Labs 5G Professional Certification - Distributed Cloud Networks, Unit 2: Cloud Technologies and Features, Section 2.2: Cloud Characteristics.

Question 4

Question Type: MultipleChoice

Which of the following best describes the networking concept of "Underlay"?

Options:

- A- It's the physical network layer.
- B- It's the virtual network layer.

C- It allows each tenant to have their own network configuration.

D- It restricts traffic within network.

Answer:

A

Explanation:

The networking concept of "Underlay" refers to the physical network layer that provides the connectivity and transport for the overlay network, which is the virtual network layer that runs on top of the underlay network¹. The underlay network is composed of routers, switches, links, and protocols that enable the data transmission between different locations². The underlay network is independent of the overlay network, meaning that it does not need to be aware of the network configuration, policies, or services of the overlay network³. Therefore, option A best describes the underlay network, while options B, C, and D are incorrect. Reference: 1: Nokia Bell Labs Distributed Cloud Networks, Unit 2: Cloud Technologies and Features, Topic: Underlay and Overlay Networks 2: Module by Module - Self Study Note Guide, DC2.2-- Cloud Options 3: Underlay Network - an overview | ScienceDirect Topics, Overview

Question 5

Question Type: MultipleChoice

The design of a data center manager includes which of the following? (Select 3)

Options:

- A- Cost of tools
- B- Appropriate tools
- C- People enablement
- D- Effective process methodology

Answer:

B, C, D

Explanation:

A data center manager is responsible for overseeing the operation, maintenance, and security of a data center, as well as planning and implementing changes and improvements¹. To perform these tasks, a data center manager needs to have appropriate tools that can monitor, control, and automate the data center resources, such as servers, storage, network, power, cooling, etc.². A data center manager also needs to enable people, such as data center staff, engineers, technicians, and customers, to access, use, and manage the data center services and applications³. Moreover, a data center manager needs to follow an effective process methodology that can ensure the quality, efficiency, and reliability of the data center operations, such as ITIL, DevOps, Agile, etc...Reference:1:Data Center Manager: Roles, Responsibilities, and Skills, Introduction2:Nokia Bell Labs Distributed Cloud Networks, Unit 4: Operating Your Cloud, Section 4.1: Industry Trends in Data Center Hardware3:Nokia Bell Labs Distributed Cloud Networks, Unit 4: Operating Your Cloud,

Question 6

Question Type: MultipleChoice

Which of the following cloud deployments provide the lowest latency? (Select 2)

Options:

- A- On-premise Edge Cloud
- B- Metro Edge Cloud
- C- Far Edge Cloud
- D- Central Cloud

Answer:

A, B

Explanation:

On-premise Edge Cloud and Metro Edge Cloud are the cloud deployments that provide the lowest latency. Latency is the time it takes for data to travel from the source to the destination¹. On-premise Edge Cloud is a cloud deployment that is located within the premises of the end-user, such as a factory, a hospital, or a campus². Metro Edge Cloud is a cloud deployment that is located within the same metropolitan area as the end-user, such as a city or a suburb³. Both On-premise Edge Cloud and Metro Edge Cloud reduce the distance and the number of hops that data has to travel, resulting in lower latency and higher performance⁴. Far Edge Cloud and Central Cloud are not the cloud deployments that provide the lowest latency. Far Edge Cloud is a cloud deployment that is located at the edge of the operator's network, such as a regional data center or a base station³. Central Cloud is a cloud deployment that is located at the core of the operator's network, such as a national data center or a cloud provider³. Both Far Edge Cloud and Central Cloud increase the distance and the number of hops that data has to travel, resulting in higher latency and lower performance⁴.

Question 7

Question Type: MultipleChoice

Which of the following best describes the networking concept of "Isolation"?

Options:

- A- It's the physical network layer.
- B- It's the virtual network layer.
- C- It allows each tenant to have their own network configuration.
- D- It restricts traffic within network.

Answer:

C

Explanation:

Isolation is the networking concept that ensures that each tenant or user of a cloud service has their own network configuration and resources, such as IP addresses, subnets, firewalls, and routers. Isolation provides security, privacy, and performance benefits for the cloud tenants, as they can control and customize their own network settings and avoid interference or conflicts with other tenants. Isolation can be achieved by using different techniques, such as VLANs, VXLANs, VPNs, or network slicing.

[Nokia Bell Labs 5G Professional Certification - Distributed Cloud Networks | Nokia Distributed Cloud Networks, Unit 2: Cloud Technologies and Features, slide 10](#)

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Isolation in networking, particularly in the context of cloud computing, refers to the separation of network traffic for different users or tenant environments within a shared infrastructure. This ensures that each tenant's data and applications remain private and inaccessible to other tenants. Isolation can be achieved through various means, including virtual LANs (VLANs), network virtualization,

and software-defined networking (SDN) techniques. The core idea is to provide tenants with the illusion of a private, dedicated network environment, even though the underlying physical infrastructure is shared among multiple tenants. This enables each tenant to have their own network configuration, policies, and management, ensuring security and privacy within a multi-tenant architecture.

Question 8

Question Type: MultipleChoice

Which of the following are characteristics of Cloud Native services. (Select 2)

Options:

- A- Low Scalability
- B- Very light weight application
- C- Fixed capacity
- D- Very fast deployment

Answer:

B, D

Explanation:

The characteristics of Cloud Native services are very light weight application and very fast deployment. Cloud Native services are applications that are built using cloud-native design principles, such as microservices, containers, and orchestration. Cloud Native services are very light weight because they are composed of small, independent, and loosely coupled components that can run on any platform and environment. Cloud Native services are very fast to deploy because they can leverage the automation, scalability, and elasticity of the cloud infrastructure, and can be updated or rolled back without affecting the whole application. Reference: Cloud and Network Services: Leading cloud-native and as-a-service delivery models, Nokia Mobile Networks and Bell Labs 5G Cloud Native RAN Professional Certification

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