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IBM

C1000-170

IBM Certified Technical Advocate - Cloud v5

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Question: 270

Which technology allows containers to run on different operating systems without modification?

A. Docker
B. Kubernetes
C. OpenShift
D. Podman

Answer: D

Explanation: Podman is a container engine that enables the running and management of containers. It allows containers to run on different operating systems without modification, providing portability and flexibility across diverse environments.

Question: 271

Which of the following is a key benefit of cloud-native application development?

A. Tight resource coupling and dependency management
B. Limited scalability and high maintenance overhead
C. Improved portability and resilience
D. Long release cycles and slow time-to-market

Answer: C

Explanation: Cloud-native application development focuses on building applications that are designed to run in the cloud and leverage cloud-native technologies and methodologies. This approach brings benefits such as improved portability, as applications can be easily deployed across different

cloud environments, and increased resilience, as they are built to handle failures and scale dynamically.

Question: 272

Which cloud-native practice focuses on automating the deployment, scaling, and management of applications?

A. Continuous Integration (CI)
B. Continuous Deployment (CD)
C. Infrastructure as Code (IaC)
D. DevOps

Answer: D

Explanation: DevOps is a cloud-native practice that focuses on automating the deployment, scaling, and management of applications. It combines development (Dev) and operations (Ops) teams to create a culture of collaboration and automation, enabling faster and more reliable software delivery.

Question: 273

Which of the following networking components provides a logical isolation and segmentation within a cloud environment?

A. Virtual Private Network (VPN)
B. Subnet
C. Load Balancer
D. Gateway

Answer: B

Explanation: A subnet is a logical subdivision of an IP network. It provides

logical isolation and segmentation within a cloud environment, allowing for better resource management, security, and network performance.

Question: 274

Which IBM Cloud service provides a serverless computing platform for executing code in response to events?

A. IBM Cloud Functions
B. IBM Cloud Foundry
C. IBM Cloud Virtual Servers
D. IBM Cloud Kubernetes Service

Answer: A

Explanation: IBM Cloud Functions is a serverless computing platform that allows users to execute code in response to events, such as changes in data, user actions, or system events. It enables developers to focus on writing code without the need to manage infrastructure.

Question: 275

Which IBM Cloud compute offering provides a fully managed Kubernetes environment?

A. IBM Cloud Functions
B. IBM Cloud Foundry
C. IBM Cloud Virtual Servers
D. IBM Cloud Kubernetes Service

Answer: D

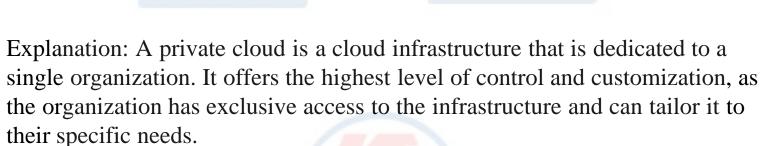Explanation: IBM Cloud Kubernetes Service is a fully managed Kubernetes

service that enables users to deploy, manage, and scale containerized applications using Kubernetes. It provides a highly available and secure environment for running containerized workloads.

Question: 276

Which IBM Cloud deployment model offers the highest level of control and customization for users?

A. Public Cloud
B. Private Cloud
C. Hybrid Cloud
D. Community Cloud

Answer: B

Explanation: A private cloud is a cloud infrastructure that is dedicated to a single organization. It offers the highest level of control and customization, as the organization has exclusive access to the infrastructure and can tailor it to their specific needs.

Question: 277

Which storage option is suitable for long-term data retention and compliance requirements?

A. Object Storage
B. File Storage
C. Block Storage
D. Cloud Storage Gateway

Answer: A

Explanation: Object storage is suitable for long-term data retention and compliance requirements. It is designed to store and manage large volumes of unstructured data, such as backups, archives, and media files. Object storage provides durability, scalability, and cost-effectiveness for storing data over extended periods.

Question: 278

Which of the following statements accurately describes the concept of cloud computing?

A. Cloud computing refers to the physical infrastructure used to store and process data.
B. Cloud computing is a software development methodology used to create cloud-native applications.
C. Cloud computing enables on-demand access to a shared pool of configurable computing resources.
D. Cloud computing is a networking protocol used to connect devices in a distributed environment.

Answer: C

Explanation: Cloud computing allows users to access computing resources, such as servers, storage, and applications, on-demand over the internet. It provides a shared pool of configurable resources that can be rapidly provisioned and released with minimal management effort.

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