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**IBM**

# C1000-101

*IBM Cloud Professional Sales Engineer v1*

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## Question: 1

Which statement best describes the IBM Cloud Private platform?

- A. It is a public cloud platform provided by IBM for hosting applications and services.
- B. It is a hybrid cloud platform that enables the integration of on-premises and cloud environments.
- C. It is a platform for developing and deploying containerized applications using Kubernetes.
- D. It is a platform for managing and analyzing large volumes of data using Apache Hadoop and Spark.
- E. It is a platform for building and deploying artificial intelligence and machine learning models.

Answer: B

Explanation: The correct answer is B) It is a hybrid cloud platform that enables the integration of on-premises and cloud environments. IBM Cloud Private is a platform that allows organizations to create a private cloud environment and connect it with public cloud resources. It enables the integration of on-premises infrastructure and cloud services, facilitating the hybrid cloud model. Options A, C, D, and E describe different platforms or services provided by IBM, but they do not accurately represent IBM Cloud Private.

## Question: 2

A customer wants to deploy a secure and scalable web application on the IBM Cloud. They require a solution that can handle sudden traffic spikes and ensure high availability. Which IBM Cloud offering should be recommended?

- A. IBM Cloud Functions

- B. IBM Cloud Foundry
- C. IBM Kubernetes Service
- D. IBM Virtual Private Cloud

Answer: C

Explanation: The recommended IBM Cloud offering for deploying a secure and scalable web application that can handle sudden traffic spikes and ensure high availability is the IBM Kubernetes Service. Kubernetes is a container orchestration platform that provides automatic scaling, load balancing, and self-healing capabilities for applications. It allows the customer to deploy their web application in containers, which can be easily scaled up or down based on demand. The Kubernetes Service on IBM Cloud simplifies the management and operation of Kubernetes clusters, making it an ideal choice for this scenario.

### Question: 3

Which two operating systems are supported on IBM Power Systems Virtual Server?

- A. SUSE Linux Enterprise Server
- B. Fedora
- C. Kubuntu
- D. IBM i
- E. Microsoft Windows Server

Answer: A, D

Explanation: SUSE Linux Enterprise Server and D) IBM i. IBM Power Systems Virtual Server supports various operating systems, including SUSE Linux Enterprise Server, which is a widely used Linux distribution, and IBM i, which is IBM's proprietary operating system for their Power Systems servers.

Fedora, Kubuntu, and Microsoft Windows Server are not natively supported on IBM Power Systems Virtual Server.

#### **Question: 4**

A customer is looking to migrate their existing on-premises database to the cloud. They require a fully managed database service that offers high availability, automatic backups, and automatic scaling. Which IBM Cloud database service should they choose?

- A. Db2 on Cloud
- B. Cloudant
- C. Databases for MongoDB
- D. Db2 Warehouse on Cloud

Answer: A

Explanation: The customer's requirement for a fully managed database service with high availability, automatic backups, and automatic scaling can be fulfilled by Db2 on Cloud. Db2 on Cloud is a fully managed database service that offers high availability through built-in replication and failover mechanisms. It also provides automatic backups to ensure data protection and automatic scaling to handle varying workloads. Cloudant is a NoSQL database service, Databases for MongoDB is a MongoDB-as-a-service offering, and Db2 Warehouse on Cloud is a cloud-based data warehouse service, none of which fully meet the customer's requirements in this scenario.

#### **Question: 5**

A company is looking to migrate their existing on-premises database to the cloud. They want a solution that provides high availability, scalability, and automated backups. Which IBM Cloud service should they choose?

- A. IBM Db2 on Cloud
- B. IBM Watson Studio
- C. IBM Cloud Object Storage
- D. IBM Cloudant

Answer: A

Explanation: For a company looking to migrate their existing on-premises database to the cloud and seeking high availability, scalability, and automated backups, the recommended IBM Cloud service is IBM Db2 on Cloud. IBM Db2 on Cloud is a fully managed cloud database service that offers high availability through automated failover and replication. It provides scalability by allowing users to easily adjust resources based on workload demands. Additionally, it offers automated backups and point-in-time recovery to ensure data protection and business continuity.

### Question: 6

A company wants to migrate its existing on-premises infrastructure to the cloud. They have a heterogeneous environment consisting of multiple operating systems and applications. Which IBM Cloud solution would be the most suitable for this scenario?

- A. IBM Cloud Private
- B. IBM Cloud Kubernetes Service
- C. IBM Cloud for VMware Solutions
- D. IBM Cloud Virtual Servers

Answer: C

Explanation: In this scenario, where the company has a heterogeneous environment with multiple operating systems and applications, IBM Cloud for



VMware Solutions would be the most suitable option. IBM Cloud for VMware Solutions allows the company to seamlessly migrate their existing on-premises VMware workloads to the cloud without requiring significant changes to their infrastructure or applications. It provides a consistent VMware-based environment while offering the benefits of the cloud, such as scalability and flexibility. IBM Cloud Private is a container-based platform for application modernization and deployment, which may not be the best fit for migrating existing infrastructure. IBM Cloud Kubernetes Service is focused on container orchestration and management, which may not address the specific needs of migrating existing infrastructure with different operating systems. IBM Cloud Virtual Servers provide virtualized compute instances but may not support the heterogeneous environment requirement of the company.

**Question: 7**

A company wants to deploy its web application on the IBM Cloud and ensure that it is highly available and fault-tolerant. Which service should they use to achieve this?

- A. IBM Cloud Functions
- B. IBM Cloud Foundry
- C. IBM Kubernetes Service
- D. IBM App Connect

**Answer: C**

**Explanation:** To achieve high availability and fault tolerance for a web application, the company should use the IBM Kubernetes Service. IBM Kubernetes Service provides a managed Kubernetes environment that allows for the deployment and orchestration of containerized applications. It offers features such as automatic scaling, load balancing, and self-healing capabilities, which contribute to high availability and fault tolerance. IBM Cloud Functions

is a serverless compute platform, IBM Cloud Foundry is a platform-as-a-service offering, and IBM App Connect is an integration platform, none of which specifically address the requirements of high availability and fault tolerance for web applications.

### **Question: 8**

A company has a high-performance application which runs on a custom developed operating system.

The system requires additional resources based on an unexpected increase in workload. They have decided to replatform the application and to provide additional capacity before their customers are impacted. Which IBM Cloud solution should they use?

- A. Bare Metal Server
- B. LinuxONE Server
- C. Virtual Server Instances
- D. Hyper Protect Virtual Server

Answer: C

Explanation: In this scenario, the company needs additional resources to handle the increased workload. Virtual Server Instances in the IBM Cloud would be a suitable solution. Virtual Server Instances provide scalable, on-demand virtual servers that can be quickly provisioned and configured to meet the application's resource requirements. This allows the company to replatform their application and add capacity without the need for physical hardware. Bare Metal Servers and LinuxONE Servers are dedicated physical servers that may not provide the scalability required in this scenario. Hyper Protect Virtual Server, while offering enhanced security features, may not be necessary for addressing the immediate need for additional capacity.

### Question: 9

For IBM Cloud offerings, who has the responsibility for managing the lifecycle, operations, and security?

- A. IBM Expert Services and the customer
- B. IBM partner and the customer
- C. IBM and the customer
- D. the customer

Answer: C

Explanation: In the context of IBM Cloud offerings, the responsibility for managing the lifecycle, operations, and security is shared between IBM and the customer. While IBM provides the underlying infrastructure, services, and support, the customer also has an active role in managing and securing their cloud environment. This shared responsibility model ensures that both parties collaborate and contribute to the overall security and operational effectiveness of the cloud solution.



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