IBM

C1000-176
IBM Cloud Advanced Architect v2

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Question: 1

What is infrastructure as code (IaC)?
Response:

A. A method of provisioning IT infrastructure using descriptive code
B. A method for a cloud services provider to supply computing resources
C. Cloud computing components such as hardware, virtualized resources, storage, and networking
D. The process of collecting and analyzing data from IT infrastructure

Answer: A

Question: 2

Which infrastructure as code (IaC) approach defines the desired final state of the infrastructure?
Response:

A. Declarative
B. Imperative
C. Interrogative
D. Exclamatory

Answer: A

Question: 3

An enterprise needs to deploy a compute solution for a custom AIX image. Which IBM Cloud IaaS offering could be used?
Response:

A. Bare metal servers on VPC
B. Virtual servers on VPC with custom images
C. VMware vSphere Server (VSS)
D. Power Systems Virtual Servers

Answer: D

Question: 4

Which IBM Cloud service can an architect use to automate provisioning infrastructure?
Response:

A. Ansible
B. Schematics
C. Playbooks
D. Kubernetes

Answer: B

Question: 5

A company has deployed a CRM application on IBM Cloud, which records information about customer sales, as well as customer interaction and the channels they use. The marketing department wants to run complex reporting jobs against the data set, which is located in an IBM Cloud Databases for PostgreSQL instance, but the IT department is worried about the impact this might have on response times for other users.
What can the IT department do to mitigate this concern?
Response:

A. Implement a read-replica of the PostgreSQL database and make it the target for the reporting jobs
B. Export the relevant PostgreSQL tables into YAML files and use Data Engine to query them
C. Add a new member to the PostgreSQL instance cluster and mark it as reportmaster
D. Ensure that the PostgreSQL instance is in the closest MZR to the marketing department

Answer: A

Question: 6

Which IBM Cloud service can be deployed to reduce latency when serving static content such as documents, images, and video to end users dispersed across multiple geographies?
Response:

A. IBM Cloud VPC Bare Metal Server
B. IBM Cloud Databases read-replica instance
C. IBM Content Delivery Network
D. IBM Cloud Direct Link Connect

Answer: C

Question: 7

A novice team is developing their first e-commerce application that will run in a Red Hat Openshift cluster in IBM Cloud. They built a single microservice to handle two distinct functionalities: inventory operations and payment processing.
What is the best advice that you could give to the team to improve the scalability, security, and resiliency of their application?
Response:

A. Separate the functionalities into two distinct microservices. Each microservice should have a single responsibility
B. Combine other business functionalities into the single microservice. A selfcontained binary is more secure
C. Use Source-to-Image (S2I) to analyze runtime metrics. A microservice should always provide high degrees of observability
D. Routinely reload cluster nodes to achieve high resiliency and loose coupling of application components

Answer: A

Question: 8

When applying IBM Cloud security best practices, which of the following measures is crucial for protecting data at rest?
Response:

A. Use of IBM Cloud Internet Services
B. Implementation of regular data backups
C. Encryption of data using IBM Key Protect
D. Frequent password rotation for user accounts

Answer: C

Question: 9

The process of modernizing applications and moving to the cloud can be a large undertaking. Upon the initial discussion with the client, the architect found that most of the existing applications are built both on IBM WebSphere and Oracle WebLogic.
To determine the complexity of the applications estimates and development cost to complete a move to the cloud or suggests a target environment, what should the architect use?
Response:

A. Transformation Advisor
B. DevOps Commander
C. Transition Manager
D. CF Discovery Module

Answer: C

Question: 10

When designing solutions that scale elastically, which of the following practices is most effective for both performance and cost efficiency?
Response:

A. Always use the maximum available compute capacity for each instance
B. Implement auto-scaling based on real-time demand
C. Deploy services exclusively in a single geographic location to reduce complexity
D. Use reserved instances for all workloads to reduce costs

Answer: B