



Vendor: IBM

Exam Code: C1000-172

Exam Name: IBM Cloud Professional Architect v6

Version: DEMO

QUESTION 1

Which feature of IBM Cloud Direct Link offers private network connectivity to IBM Cloud services in multiple regions?

- A. Public Routing option
- B. Global Routing option
- C. Semi Private Routing option
- D. Private Routing option

Answer: B

Explanation:

The Global Routing option of IBM Cloud Direct Link offers private network connectivity to IBM Cloud services across multiple regions.

IBM Cloud Direct Link: This service provides dedicated private network connectivity from your on-premises environment to the IBM Cloud. The Global Routing option allows data to be transmitted securely across multiple IBM Cloud regions, ensuring low latency and high-speed connectivity for global deployments.

Global Connectivity: With the Global Routing option enabled, organizations can connect to IBM Cloud services in multiple regions without needing separate connections for each region, simplifying network management and improving performance.

QUESTION 2

A company is considering implementing IBM Cloud for its resiliency solution. They want to ensure maximum protection against natural disasters and are looking for a redundant infrastructure with multiple layers of resiliency.

What is the most predominant aspect of the overall resiliency solution in IBM Cloud?

- A. Storage requirements
- B. Network requirements
- C. Addressing physical events
- D. Capture historical events

Answer: C

Explanation:

The most predominant aspect of an overall resiliency solution in IBM Cloud is "Addressing physical events." This refers to the ability to maintain service continuity and recover quickly from physical disruptions such as natural disasters (earthquakes, floods, fires, etc.). IBM Cloud provides multiple layers of resiliency, including geographic redundancy, data replication, backup, and disaster recovery services to ensure high availability and business continuity in the event of such physical events.

Physical Resiliency: IBM Cloud's strategy includes using multiple regions and availability zones to create a resilient infrastructure that can withstand physical events. By deploying applications across multiple zones and regions, the impact of a physical event is minimized.

Comprehensive Approach: Addressing physical events is part of a broader resiliency framework that also considers other types of failures (network, storage, etc.). Still, dealing with physical events like natural disasters is the most critical aspect of ensuring maximum protection and continuous operation.

QUESTION 3

What is a reason for using File Storage (Classic) on IBM Cloud?

- A. It allows the user to adjust the amount of performance as needed

- B. It protects against data in transit failures
- C. It is scalable during provisioning
- D. It provides asynchronous reads and writes

Answer: A

Explanation:

File Storage (Classic) on IBM Cloud allows users to adjust the performance as needed by choosing different tiers or adjusting the input/output operations per second (IOPS). This flexibility makes it suitable for workloads with varying performance requirements, such as databases, analytics, or content management systems, where the storage performance can be adjusted to match the workload demand.

Performance Adjustability: Users can choose between various performance levels or make adjustments to IOPS, allowing them to balance cost and performance based on current needs.

Why File Storage (Classic)?

This flexibility makes File Storage (Classic) suitable for dynamic workloads that require changes in performance over time, such as during peak usage periods.

QUESTION 4

Which IBM Cloud service provides a common platform to meet the requirements of a Modern Hybrid Cloud?

- A. Red Hat OpenShift
- B. Cloud Functions
- C. Code Engine
- D. Virtual Server Instance

Answer: A

Explanation:

Red Hat OpenShift on IBM Cloud provides a common platform to meet the requirements of a modern hybrid cloud. It is a Kubernetes-based container platform that enables developers to build, deploy, and manage applications across on-premises environments, IBM Cloud, and other public clouds. This flexibility is key for modern hybrid cloud environments, where businesses seek consistency, scalability, and security across diverse infrastructure setups.

Why Red Hat OpenShift?

It offers a comprehensive solution for managing containers and microservices, automating CI/CD pipelines, and integrating with IBM Cloud Paks, thus facilitating a true hybrid cloud model.

Benefits of OpenShift: Red Hat OpenShift ensures workload portability, consistency in development and operations, and provides enhanced security features, making it the preferred platform for enterprises embracing a hybrid cloud strategy.

QUESTION 5

How does a monitoring agent properly authenticate with the IBM Cloud Monitoring service it is sending metrics to?

- A. By using a trusted profile
- B. By using the access key provided when provisioning the monitoring service
- C. By using a service instance authorization
- D. By using an API key from the master cloud account owner

Answer: C

Explanation:

In IBM Cloud, a monitoring agent properly authenticates with the IBM Cloud Monitoring service by

using a service instance authorization. This approach allows secure interaction between the monitoring agent and the monitoring service by using identity and access management (IAM) policies and authorizations associated with a service instance.

Service instance authorizations grant specific permissions to services, enabling them to authenticate and interact with other services or resources securely. For IBM Cloud Monitoring, the agent uses the service instance authorization to send metrics to the monitoring service, ensuring that the communication is authenticated and authorized without relying on hard-coded credentials or API keys tied to individual users.

The service instance authorization method is recommended because it is aligned with best practices for securing services in cloud environments, offering a centralized and controlled way to manage permissions.

QUESTION 6

A PR company is looking to move Windows applications quickly without changing architecture. The company requires physical isolation with regulatory benefit and greater quality of service with control of the software stack.

Which IBM Cloud option would meet these requirements?

- A. Bare Metal Servers
- B. z16
- C. Power
- D. Virtual Servers

Answer: A

Explanation:

Bare Metal Servers on IBM Cloud provide the required physical isolation, regulatory benefits, and control over the software stack, making them ideal for moving Windows applications quickly without changing the architecture. Bare Metal Servers offer dedicated hardware resources, full control over the server environment, and the ability to configure and manage the software stack, meeting the company's needs for physical isolation and performance.

Why Bare Metal Servers?

They provide the highest level of performance, security, and customization, including control over the operating system and applications, which is essential for regulatory compliance and quality of service.

Physical Isolation: Bare Metal Servers are single-tenant servers, meaning they are not shared with other customers, providing physical isolation required for specific regulatory needs.

QUESTION 7

What is the advantage of having multiple sites within the same region in IBM Cloud for resiliency purposes?

- A. Higher level of data encryption
- B. Improved network connectivity between sites
- C. Enhanced scalability and performance
- D. Better protection against natural disasters

Answer: D

Explanation:

Having multiple sites within the same region in IBM Cloud provides better protection against natural disasters.

Multiple Sites for Resiliency: In cloud architecture, resiliency is enhanced by distributing workloads and data across multiple sites or availability zones within the same region. If a natural disaster affects one site, the other sites can continue operations without significant downtime or

data loss.

IBM Cloud Regions and Availability Zones: IBM Cloud has multiple availability zones within the same region, providing redundancy and failover options to protect against regional disruptions, such as natural disasters.

QUESTION 8

What is the name of the program that IBM Cloud follows to ensure its services meet the security and compliance standards of the US government?

- A. CIS
- B. NIST
- C. FedRAMP
- D. FIPS

Answer: C

Explanation:

IBM Cloud follows the FedRAMP (Federal Risk and Authorization Management Program) to ensure its services meet the security and compliance standards of the US government.

FedRAMP: It is a U.S. government-wide program that provides a standardized approach to security assessment, authorization, and continuous monitoring for cloud products and services. FedRAMP authorization is mandatory for any cloud services used by federal agencies, ensuring they meet strict security requirements.

QUESTION 9

Which capability does the IBM Gateway Appliance provide?

- A. Wide Area Network
- B. Network Address Translation
- C. Offline upload
- D. Local Area Network

Answer: B

Explanation:

The IBM Gateway Appliance provides Network Address Translation (NAT) capability.

IBM Gateway Appliance: It offers advanced network capabilities, including Network Address Translation (NAT). This feature allows for the mapping of private IP addresses to a single public IP address or multiple public IP addresses, enabling private IP addresses within an organization's internal network to be hidden from the external world, thereby enhancing security.

Thank You for Trying Our Product

Lead2pass Certification Exam Features:

- ★ More than **99,900** Satisfied Customers Worldwide.
- ★ Average **99.9%** Success Rate.
- ★ **Free Update** to match latest and real exam scenarios.
- ★ **Instant Download** Access! No Setup required.
- ★ Questions & Answers are downloadable in **PDF** format and **VCE** test engine format.
- ★ Multi-Platform capabilities - **Windows, Laptop, Mac, Android, iPhone, iPod, iPad**.
- ★ **100%** Guaranteed Success or **100%** Money Back Guarantee.
- ★ **Fast**, helpful support **24x7**.



View list of all certification exams: <http://www.lead2pass.com/all-products.html>



Microsoft



ORACLE



JUNIPER
NETWORKS



EMC²
where information lives

10% Discount Coupon Code: ASTR14