



Free Questions for C1000-172

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# Question 1

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Question Type: MultipleChoice

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An organization wants to secure its exposed APIs running on IBM Cloud API Connect Reserved Instances using OAuth and OpenID.

Which capabilities can help in this case?

## Options:

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- A- Authentication and authorization capabilities are offered by IBM API Connect itself
- B- IBM API Connect APIs must be secured by a third party as API Connect is responsible for managing the API life cycle only
- C- IBM API Connect is providing authentication, but authorization can be provided by IAM
- D- IBM API Connect creates user registries, but OAuth isn't allowed in API Connect, and this can be done by a third-party provider

## Answer:

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A

## Explanation:

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IBM API Connect offers both authentication and authorization capabilities to secure APIs using OAuth and OpenID.

IBM API Connect Security Features: IBM API Connect provides built-in capabilities for managing OAuth and OpenID Connect authentication and authorization flows. It allows users to define security policies that enforce these protocols to protect APIs.

Use of OAuth and OpenID: API Connect enables organizations to create user registries, apply security policies, and manage tokens for OAuth 2.0 and OpenID Connect, providing end-to-end security management for APIs.

Reference from IBM Cloud Professional Architect Materials:

IBM documentation on API Security in IBM API Connect confirms that API Connect handles both authentication and authorization for securing APIs.

Other options are incorrect:

B . IBM API Connect APIs must be secured by a third party is false; API Connect itself provides these capabilities.

C . IBM API Connect is providing authentication, but authorization can be provided by IAM is incorrect because API Connect manages both.

D . IBM API Connect creates user registries, but OAuth isn't allowed is incorrect; OAuth is fully supported.

## Question 2

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Question Type: MultipleChoice

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Which two are the private registry options available to IBM Cloud OpenShift clusters?

Options:

- A- GitHub
- B- IBM Cloud Container Registry
- C- Docker Hub
- D- The internal registry setup at cluster creation time
- E- Red Hat Quay

Answer:

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B, D

Explanation:

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The two private registry options available to IBM Cloud OpenShift clusters are IBM Cloud Container Registry and the internal registry setup at cluster creation time.

IBM Cloud Container Registry: This is a private image registry that integrates with IBM Cloud OpenShift. It allows users to store and manage Docker images in a private repository securely. This option is specifically designed to work seamlessly with Kubernetes and OpenShift clusters in IBM Cloud.

Internal Registry at Cluster Creation Time: IBM Cloud OpenShift also supports an internal image registry that is set up during cluster creation. This internal registry allows for the storage and management of container images directly within the OpenShift cluster, providing a secure and private environment for images that are not meant to be publicly accessible.

Reference from IBM Cloud Professional Architect Materials:

According to IBM Cloud OpenShift documentation on Configuring Private Registries, these two

options are available for IBM Cloud OpenShift clusters.

Other options are incorrect:

A . GitHub and C. Docker Hub are public registries.

E . Red Hat Quay is another private registry solution but is not directly listed as an option specific to IBM Cloud OpenShift clusters.

Therefore, the correct answers are B. IBM Cloud Container Registry and D. The internal registry setup at cluster creation time.

## Question 3



Question Type: MultipleChoice

A company is using Watson Assistant to improve customer support. The client has integrated the virtual agent technology to handle common inquiries and provide quick assistance.

How can Watson Assistant benefit the company in terms of customer support?

### Options:

- A- Reduce costs per contact
- B- Remove the requirement for all human agents
- C- Provide live agents who can speak multiple languages
- D- Check insurance claim details for non-native English speakers

### Answer:

A

### Explanation:

Watson Assistant helps companies reduce costs per contact by handling common inquiries and providing quick assistance through automation. By using a virtual agent, companies can reduce the number of queries that require human intervention, thereby lowering the overall cost associated with customer support operations.

How Watson Assistant Reduces Costs: Watson Assistant automates responses to frequently asked questions and common tasks, freeing up human agents to handle more complex inquiries. This leads to lower staffing requirements and operational costs.

Comparison with Other Options:

B (Remove the requirement for all human agents): Watson Assistant reduces but does not eliminate the need for human agents.

C (Provide live agents who can speak multiple languages): Not a function of Watson Assistant; it is a virtual agent technology.

D (Check insurance claim details for non-native English speakers): Watson Assistant can handle multilingual conversations, but the primary benefit is cost reduction.

IBM Watson Assistant Overview

IBM Cloud Architect Exam Study Guide



## Question 4

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Question Type: MultipleChoice

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Which encryption option allows clients to have control over the keys used to encrypt their block storage volumes, file shares, and custom images?

Options:

- A- Provider-managed encryption
- B- Client-managed encryption
- C- IBM-managed encryption
- D- Custom encryption

Answer:

B

Explanation:

Client-managed encryption allows clients to have full control over the encryption keys used to protect their block storage volumes, file shares, and custom images on IBM Cloud. This option ensures that only the client has access to the keys and, therefore, to the data.

Benefits of Client-Managed Encryption: Clients retain control over key management, including generation, rotation, and deletion, ensuring compliance with security policies and regulatory requirements.

Comparison with Other Options:

A (Provider-managed encryption): Managed by IBM, not by the client.

C (IBM-managed encryption): Similar to provider-managed, where IBM controls the keys.

D (Custom encryption): Not a specific term used in IBM Cloud documentation for this feature.

IBM Cloud Data Encryption Documentation

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## Question 5

Question Type: MultipleChoice

Which IBM Cloud service can be used to store and analyze data collected to identify the root causes of slowness?

Options:

- A- Databases for etcd
- B- Databases for Redis
- C- Databases for Elasticsearch
- D- Cloudant

Answer:

C

Explanation:

Elasticsearch is a powerful search and analytics engine commonly used to store, search, and analyze large volumes of data in real time. IBM Cloud's 'Databases for Elasticsearch' service is specifically designed for this purpose, allowing users to ingest, search, and analyze log data or other large datasets to identify root causes of slowness or performance issues.

Why Databases for Elasticsearch? Elasticsearch is ideal for storing and analyzing logs due to its ability to quickly index and query large amounts of data. It provides powerful search capabilities, aggregations, and visualization tools that are well-suited for identifying performance bottlenecks and troubleshooting.

Comparison with Other Options:

A (Databases for etcd): Not used for analytics or identifying performance issues.

B (Databases for Redis): Primarily an in-memory data store, not suitable for complex data analysis.

D (Cloudant): A NoSQL database service optimized for web and mobile applications, but not primarily for analyzing log data.

IBM Cloud Databases for Elasticsearch

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## Question 6

Question Type: MultipleChoice

An organization is using IBM Log Analysis to manage operating system logs, application logs, and platform logs in IBM Cloud. A developer discovered their Red Hat OpenShift on IBM Cloud instance is not being captured in the service.

What could be a reason Log Analysis is missing the Red Hat OpenShift on IBM Cloud instance logs?

### Options:

- A- The developer needs at least editor IAM role to the Log Analysis instance
- B- The administrator needs at least reader access to the Red Hat OpenShift instance
- C- The Red Hat OpenShift on IBM Cloud instance is running in a different region from the Log Analysis instance
- D- The logging agents were not created and deployed to this OpenShift instance

### Answer:

D

### Explanation:

The likely reason IBM Log Analysis is missing the Red Hat OpenShift on IBM Cloud instance logs is that the logging agents were not created and deployed to this OpenShift instance.

IBM Log Analysis with Sysdig: To collect logs from a Red Hat OpenShift cluster, specific logging agents must be deployed on the cluster. These agents are responsible for forwarding logs to the IBM Log Analysis service.

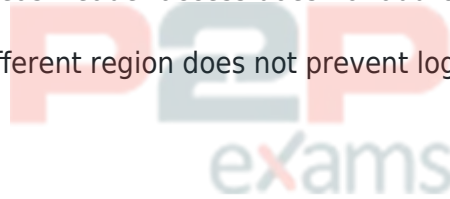
Missing Logs Due to Missing Agents: If the agents are not deployed, the service will not capture logs from the cluster, resulting in missing log data from that instance.

Reference from IBM Cloud Professional Architect Materials:

IBM documentation on Setting up Log Analysis explains the requirement of deploying logging agents to the respective resources to ensure log collection.

Other options are incorrect:

- A . The developer needs at least editor IAM role does not affect the log capture.
- B . The administrator needs at least reader access does not address the missing agents.
- C . The instance running in a different region does not prevent log capture if agents are configured correctly.



## Question 7

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Question Type: MultipleChoice

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What is used to allow provisioning of a large number of virtual server instances at the same time when using IBM Cloud Virtual Private Cloud?

Options:

- A- Instance Models
- B- Instance Replication Policies
- C- Instance Groups
- D- Instance Scaling Policies



Answer:

C

Explanation:

Instance Groups are used to allow provisioning of a large number of virtual server instances at the same time when using IBM Cloud Virtual Private Cloud (VPC).

IBM Cloud VPC Instance Groups: Instance Groups provide a way to manage a group of identical virtual server instances within a VPC. They support auto-scaling, load balancing, and rolling updates, making it easier to manage a large number of instances.



Use Case for Large Deployments: When an organization needs to deploy multiple instances simultaneously, Instance Groups simplify the process by providing a template and scaling policies.

Reference from IBM Cloud Professional Architect Materials:

IBM documentation on Instance Groups for VPC describes how they are used for managing large-scale deployments.

Other options are incorrect:

A . Instance Models refer to the types or configurations of instances, not to mass provisioning.

B . Instance Replication Policies do not exist in this context.

D . Instance Scaling Policies manage scaling but are not used for the initial provisioning of multiple instances.

## Question 8

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Question Type: MultipleChoice

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The client requires 99.99% uptime. Why would a Citrix NetScaler help in this case?

Options:

- A- Predictability
- B- Scalability
- C- Reliability
- D- Availability

Answer:

D

Explanation:

A Citrix NetScaler (now known as Citrix ADC) is designed to improve the availability of applications by providing advanced load balancing, traffic management, and redundancy features. It ensures that applications remain accessible even in the event of server failures or high traffic volumes.

Why Citrix NetScaler Improves Availability: It distributes incoming traffic across multiple servers

to prevent overload on a single server, thus maintaining application uptime. It also provides failover capabilities, ensuring that if one server fails, traffic is rerouted to other healthy servers.

Comparison with Other Options:

A (Predictability): While Citrix NetScaler can improve predictability, its main function is related to availability.

B (Scalability): Citrix NetScaler can aid in scalability, but this is not the primary benefit for achieving 99.99% uptime.

C (Reliability): While reliability is an aspect, the key feature directly supporting 99.99% uptime is availability.

Citrix ADC Documentation

IBM Cloud Load Balancer Services

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