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**IBM**

**C1000-169**

*IBM Cloud Associate SRE V2*

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## Question: 1

A Site Reliability Engineer has been asked to help enhance the security measures of their organization's IBM Cloud infrastructure. They have been tasked with implementing a system that will help to proactively monitor, track, and react to violations.

The system should create an audit history for compliance purposes, and provide reports and APIs for external consumption and integration. What is this scenario describing?

- A. IBM Cloud App ID
- B. Security Information and Event Management (SIEM)
- C. IBM Cloud Log Analysis
- D. IBM Cloud Identity and Access Management (IAM)

Answer: B

Explanation: The scenario describes the need for a system that proactively monitors, tracks, and reacts to violations, creates an audit history for compliance purposes, and provides reports and APIs for external consumption and integration. Security Information and Event Management (SIEM) is a solution that combines real-time monitoring, event correlation, and log management to provide comprehensive security monitoring and threat detection capabilities. SIEM systems help organizations identify and respond to security incidents by collecting and analyzing security event data from various sources, including logs, network devices, and other security systems. It provides a centralized platform for security monitoring, alerting, and reporting, making it an appropriate choice for enhancing security measures in an IBM Cloud infrastructure.

## Question: 2

Which of the following IBM Cloud services provides a managed Kubernetes environment for deploying containerized applications?

- A. IBM Cloud Functions
- B. IBM Cloud Foundry
- C. IBM Cloud Container Registry
- D. IBM Kubernetes Service (IKS)

Answer: D

Explanation: IBM Kubernetes Service (IKS) is an IBM Cloud service that provides a managed Kubernetes environment for deploying containerized applications. Kubernetes is an open-source container orchestration platform that automates the deployment, scaling, and management of containerized applications. With IBM Kubernetes Service, Site Reliability Engineers can leverage the power of Kubernetes to deploy and manage their applications in a highly available and scalable manner, taking advantage of the robust features and capabilities of Kubernetes.

### Question: 3

Which deployment strategy allows for rolling back to a previous version of an application in case of issues or failures?

- A. Canary deployment
- B. Blue-green deployment
- C. A/B testing
- D. Rolling deployment

Answer: B

Explanation: Blue-green deployment is a deployment strategy that involves maintaining two identical production environments, referred to as the blue

environment and the green environment. The current version of the application runs in the blue environment, while the new version is deployed to the green environment. Once the green environment is validated and tested, traffic is switched from the blue environment to the green environment, making it the new production environment. If any issues or failures are encountered, it is possible to roll back to the blue environment, which contains the previous version of the application. Blue-green deployment provides a way to minimize the impact of issues or failures by allowing for a quick and controlled rollback.

#### **Question: 4**

Which of the following authentication mechanisms is supported by IBM Cloud Identity and Access Management (IAM)?

- A. OAuth
- B. LDAP
- C. SAML
- D. Kerberos

Answer: C

Explanation: IBM Cloud Identity and Access Management (IAM) supports the Security Assertion Markup Language (SAML) authentication mechanism. SAML is an XML-based standard for exchanging authentication and authorization data between an identity provider (IdP) and a service provider (SP). With SAML, users can authenticate with their identity provider and obtain a SAML assertion, which can then be used to access resources and services within the IBM Cloud environment. IAM enables organizations to manage user identities, access policies, and permissions, and SAML integration allows for secure and seamless authentication within the IBM Cloud ecosystem.

#### **Question: 5**

Which of the following observability techniques allows for monitoring the performance of a distributed system by collecting, aggregating, and analyzing logs?

- A. Tracing
- B. Metrics
- C. Logging
- D. Debugging

Answer: C

Explanation: Logging is an observability technique that involves collecting, aggregating, and analyzing logs generated by various components of a distributed system. Logs provide valuable information about the behavior of the system, including errors, warnings, and other relevant events. By monitoring and analyzing logs, Site Reliability Engineers can gain insights into the performance, availability, and reliability of the system, identify potential issues or bottlenecks, and troubleshoot problems more effectively.

### Question: 6

Which of the following is a key responsibility of operations in an SRE context?

- A. Automating deployments
- B. Developing application code
- C. Conducting security audits
- D. Performing capacity planning

Answer: D

Explanation: Operations in an SRE context involve managing and maintaining the infrastructure and systems that support the organization's applications and services. One of the key responsibilities of operations is performing capacity

planning. Capacity planning involves forecasting and provisioning resources to ensure that the infrastructure can handle the expected workload and scale as needed. By effectively planning for capacity, operations teams can prevent performance issues, maintain system reliability, and optimize resource utilization.

**Question: 7**

Which of the following is an essential component of an incident management process?

- A. Change management
- B. Problem management
- C. Service level management
- D. Root cause analysis

Answer: D

Explanation: Incident management is the process of effectively and efficiently responding to and resolving incidents to minimize the impact on services. An essential component of incident management is conducting root cause analysis. Root cause analysis involves investigating the underlying causes of incidents to identify the factors that contributed to their occurrence. By conducting root cause analysis, organizations can identify and address the root causes of incidents, implement preventive measures, and improve the overall stability and reliability of their systems.

**Question: 8**

Which of the following security measures can help protect sensitive data stored in IBM Cloud Object Storage?

- A. Role-based access control (RBAC)

- B. Secure Sockets Layer (SSL) encryption
- C. Network intrusion detection system (NIDS)
- D. Single sign-on (SSO)

Answer: B

Explanation: Secure Sockets Layer (SSL) encryption is a security measure that can help protect sensitive data stored in IBM Cloud Object Storage. SSL encryption ensures that data transmitted between clients and the storage service is encrypted, making it difficult for unauthorized parties to intercept and access the data. By enabling SSL encryption, Site Reliability Engineers can enhance the security and privacy of data stored in IBM Cloud Object Storage, mitigating the risk of unauthorized access or data breaches.

**Question: 9**

Which of the following is a common troubleshooting approach used by Site Reliability Engineers?

- A. Trial and error
- B. Guessing
- C. Reactive analysis
- D. Systematic debugging

Answer: D

Explanation: Site Reliability Engineers often employ a systematic debugging approach when troubleshooting issues. This approach involves systematically analyzing the symptoms, gathering relevant data, formulating hypotheses, testing those hypotheses, and iteratively narrowing down the possible causes of the problem until a resolution is found. Systematic debugging helps SREs efficiently identify the root cause of an issue and implement targeted solutions, reducing downtime and minimizing the impact on system performance.



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