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Developing Solutions using Cisco IoT and Edge Platforms (DEVIOT)

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QUESTION 1

A company is collecting data from several thousand machines globally. Which software component in the overall architecture is the next destination of the dataflow after the data has been gathered and normalized on the edge data software?

A. relational database: MySQL

B. historian database: influxDB

C. message broker: Apache Kafka

D. dashboard: Node.js web app

Correct Answer: B

QUESTION 2

An IoT engineer is responsible for security at an organization. Humans and machines need to be allowed to access services like database or compute on AWS. The engineer decides to implement dynamic secrets.

Which method helps to get this implementation accurate from a security point of view?

A. Create a central secret system for humans and machine to obtain very short-lived dynamic secrets to access any service.

B. Humans cannot be trusted, and each time they authenticate they should be issued with dynamic secrets. Machines can be trusted, and they can be issued with static credentials.

C. Maintain a different service associated to secret systems to issue access.

D. After a user is authenticated by any trusted system, the user can be trusted to use any service.

Correct Answer: A

QUESTION 3

Where are edge data services typically instantiated?

A. at the edge of network

B. in the cloud

C. in the data center

D. in a private cloud

Correct Answer: A

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QUESTION 4

As part of an IoT project, an organization is developing an application that will share multiple clients using a REST API.

Based on the software development process, what are two valid technical activities that can be suggested to secure the REST API that is developed during the development of the software? (Choose two.)

A. Respond to request failures in detail to allow users for easier troubleshooting.

B. Implement HTTP whitelisting to only methods that are allowed.

C. Implement and review audit logs for security-related events.

D. Reject HTTP methods that are invalid with an error code 404.

E. Implement physical firewalling and access control to the resources.

Correct Answer: BD

QUESTION 5

Which lightweight protocol is used to send data from the edge compute resources to the cloud?

A. MQTT

B. XMPP

C. AMQP

D. MT Connect

Correct Answer: A

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