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IBM

C1000-126

IBM WebSphere Hybrid Edition V5.0 Solution Architecture

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Question: 1

Which of the following is a key benefit of adopting a microservices architecture?

A. Improved security and compliance.
B. Simplified application deployment.
C. Reduced operational overhead.
D. Enhanced developer productivity.

Answer: D

Explanation: Adopting a microservices architecture offers several benefits, including enhanced developer productivity. By breaking down applications into smaller, loosely coupled services, developers can work on individual components independently, enabling faster development cycles, easier testing, and greater agility in responding to business requirements.

Question: 2

In the context of Cloud Native solutions, what is the purpose of scalability and elasticity?

A. To ensure high availability and fault tolerance.
B. To optimize resource utilization and cost efficiency.
C. To enable seamless integration with external services.
D. To simplify the deployment and management of applications.

Answer: B

Explanation: Scalability and elasticity in Cloud Native solutions refer to the ability to dynamically allocate and deallocate computing resources based on demand. This ensures optimal resource utilization and cost efficiency, as

resources can be scaled up or down as needed to match the workload and avoid unnecessary expenses.

Question: 3

Which component of IBM WebSphere Hybrid Edition is designed to provide secure and scalable access to APIs?

A. IBM MQ
B. IBM API Connect
C. IBM DataPower Gateway
D. IBM Integration Bus

Answer: B

Explanation: IBM API Connect is the component of IBM WebSphere Hybrid Edition that is specifically designed to provide secure and scalable access to APIs. It offers capabilities for creating, managing, and securing APIs, enabling organizations to expose their backend services as APIs to external developers and partners.

Question: 4

Which of the following tools is commonly used for application modernization in IBM WebSphere Hybrid Edition?

A. IBM Cloud Pak for Applications
B. IBM Watson Assistant
C. IBM DataPower Gateway
D. IBM MQ

Answer: A

Explanation: IBM Cloud Pak for Applications is a tool commonly used for application modernization in the context of IBM WebSphere Hybrid Edition. It provides a set of capabilities and services that assist in modernizing and transforming applications for deployment in hybrid cloud environments.

Question: 5

What is the purpose of the Modernization Journey in the context of IBM WebSphere Hybrid Edition?

A. To migrate applications from on-premises to the cloud.
B. To automate the deployment of containerized applications.
C. To monitor and optimize the performance of hybrid applications.
D. To provide a development environment for building microservices.

Answer: A

Explanation: The Modernization Journey in IBM WebSphere Hybrid Edition refers to the process of migrating existing applications from on-premises environments to the cloud. It involves analyzing, refactoring, and adapting applications to leverage cloud-native technologies and benefits.

Question: 6

Which of the following is a run-time component in IBM WebSphere Hybrid Edition?

A. IBM Cloud Private
B. IBM API Connect
C. IBM Integration Bus
D. IBM DataPower Gateway

Answer: C

Explanation: IBM Integration Bus is a run-time component in IBM WebSphere Hybrid Edition. It is a flexible integration middleware that enables the connectivity and transformation of data between different applications and systems in a hybrid cloud environment.

Question: 7

Which of the following statements best describes IBM WebSphere Hybrid Edition?

A. It is a cloud-based development platform for building hybrid applications.
B. It is a solution for migrating legacy applications to the cloud.
C. It is a runtime environment for running containerized applications.
D. It is a suite of tools for monitoring and managing hybrid cloud environments.

Answer: A

Explanation: IBM WebSphere Hybrid Edition is a cloud-based development platform that enables the creation and deployment of hybrid applications. It provides the necessary tools and services to build applications that can run both on-premises and in the cloud, facilitating the integration of different environments.

Question: 8

Which option best describes the concept of containerization in the context of Cloud Native solutions?

A. The process of encapsulating an application into a single, self-contained unit.
B. The practice of breaking down applications into smaller, loosely coupled

services.

C. The use of virtualization technologies to isolate applications and their dependencies.

D. The automation of deployment and management tasks using infrastructure-as-code.

Answer: A

Explanation: Containerization in Cloud Native solutions involves encapsulating an application along with its dependencies, libraries, and configuration files into a single, self-contained unit called a container. Containers provide a consistent and isolated runtime environment, making applications easier to deploy and manage across different platforms and environments.

Question: 9

Which of the following is NOT a key consideration when designing and architecting a Cloud Native solution?

A. Scalability and elasticity
B. Microservices architecture
C. Monolithic application design
D. Containerization and orchestration

Answer: C

Explanation: When designing a Cloud Native solution, one of the key considerations is to adopt a microservices architecture, where applications are broken down into smaller, loosely coupled services. Monolithic application design, on the other hand, goes against the principles of Cloud Native architecture by building applications as a single, tightly coupled unit.

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