Your grade: 100%

Your latest: **100%** • Your highest: **100%** • To pass you need at least 70%. We keep your highest score.

Next item →

1. Which of the following options describes a development principle, or action, for cloud native applications? **1 / 1 point**

- ○ Combine applications to create microservices with multiple functions.
- ○ Tightly coupling the different functions of the application so that they can work together as a whole.
- ○ Bring the various single-function components of an application into one huge piece of software.
- ◉ Containerize the microservices for maximum flexibility, scalability, and portability.

Correct
Correct! Each microservice in a cloud native application is packaged into individual containers with its libraries and dependencies.

2. Which of the following statements describes the DevOps approach and process? **1 / 1 point**

- ○ Eliminates the need to provision servers, build middleware, and install application code.
- ◉ A collaborative approach where business owners and development, operations, and quality assurance teams collaborate to deliver software continuously.
- ○ Allows teams to freely build, deploy, and manage cloud native applications according to an informal, loosely defined set of guidelines.
- ○ Eliminates the need to monitor performance and availability.

Correct
Correct! The DevOps approach applies agile and lean thinking principles to all stakeholders in an organization who develop, operate, or benefit from the business's software systems, including customers, suppliers, and partners.

3. Which of the provided options encapsulates the complete application modernization journey? **1 / 1 point**

- ○ The journey from physical servers and VMs to cloud infrastructure
- ◉ The journey from monolithic and service-oriented architecture to microservices architecture, from physical servers and VMs to cloud infrastructure, and from the waterfall and agile methodology to DevOps.
- ○ The journey from the waterfall and agile development methodologies to DevOps.
- ○ The journey from monolithic and service-oriented architecture to microservices architecture.

Correct
Correct! Application modernization involves the modernization of application architecture, infrastructure, and development and operations processes.

4. How would a global flower delivery company leverage the Hybrid Multicloud architecture to meet its requirement of varying capacity demands across different geographies? **1 / 1 point**

- ○ By using the automatic provisioning and de-provisioning of resources that the cloud offers.
- ○ By scaling up their on-premises architecture
- ◉ By distributing their delivery service application across multiple cloud environments and providers spread across multiple geographies.

Correct
Correct! Moving their UI and Billing capabilities over to a North American Public Cloud Data Center, while their core application continues to reside in an on-premises data center in Europe allowed the flower delivery company to scale up portions of their application in response to a surge in demand over the American holidays.

5. Which of the following statements describes the DevOps approach and process? **1 / 1 point**

- ◉ DevOps process is a collaborative approach that defines how people build, deploy, and manage applications in a cloud-native environment to deliver software continuously.
- ○ Eliminates the need to monitor performance and availability.
- ○ Eliminates the need to provision servers, build middleware, and install application code.
- ○ An approach that utilizes cloud applications to monitor systems.

Correct
Correct! Cloud-native applications form a complex distributed system. DevOps defines the process that helps teams work in the native cloud environment.

6. Which of these scenarios is NOT a good use case for serverless architecture? **1 / 1 point**

- ○ Stream processing workloads
- ○ Supporting microservices architecture
- ○ Microservices that can be built as stateless functions
- ◉ Workloads characterized by long-running processes

Correct
Correct! For workloads characterized by long-running processes, managing a traditional server environment might be simpler and more cost-effective.

7. How can the microservices architecture approach be characterized ? **1 / 1 point**

- ○ Impact on the entire application when one microservice ceases to function.
- ○ Compulsion to bundle all microservices for a specific task into a single container.
- ○ Requirement to build every new functionality in a microservice from the ground up.
- ◉ Decomposition of large applications into core functions to construct a comprehensive and functional application.

Correct
Correct. Microservices architecture involves breaking down a large application into smaller, independent components (microservices) that handle specific core functions. This approach enhances modularity, scalability, and maintainability by allowing each microservice to operate independently.

8. Fill in the blank. Microservices architecture is an approach in which a ______________ comprises many loosely coupled and independently deployable smaller components or services. **1 / 1 point**

- ◉ Single application
- ○ Repository application
- ○ Server
- ○ Cloud service

Correct
Correct! These services typically have their stack running on their own containers. They communicate over APIs, event streaming, and message brokers.

9. What does a cloud native application consist of? **1 / 1 point**

- ○ Application containers
- ◉ Microservices
- ○ Executable files
- ○ Executable containers

Correct
Correct! These microservices are often packaged in containers, which are executable units of software in which the application code is packaged along with its libraries and dependencies so that it can be run anywhere.

10. DevOps and Cloud share a _________ relationship. **1 / 1 point**

- ○ General partnership
- ◉ Symbiotic
- ○ Customer
- ○ Vendor

Correct
Correct! With its near limitless compute power and available data and application services, cloud computing platforms come with their own risks and challenges.