

1. Which of the following is a development principle for cloud native applications?

1 / 1 point

- ☒ Containerize the microservices for maximum flexibility, scalability, and portability.
- ☐ Tightly couple 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.
- ☐ Combine applications to create microservices with multiple functions.

✓ **Correct**

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

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 the waterfall and agile development methodologies to DevOps.
- ☒ 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 monolithic and service-oriented architecture to microservices architecture.
- ☐ The journey from physical servers and VMs to cloud infrastructure

✓ **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 scaling up their on-premises architecture
- ☐ By using the automatic provisioning and de-provisioning of resources that cloud offers.
- ☒ 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? *Select two.*

0.5 / 1 point

- ☐ DevOps process defines how people work together to build, deploy, and manage applications in a cloud native environment.
- ☐ Eliminates the need to monitor performance and availability.
- ☒ A collaborative approach where business owners and development, operations, and quality assurance teams collaborate to continuously deliver software.

✓ **Correct**

Correct! 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, partners.

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

1 / 1 point

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

✓ **Correct**

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

7. Which of the provided options encapsulates the complete application modernization journey?

1 / 1 point

- ☐ The journey from waterfall and agile development methodologies to DevOps.
- ☐ 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 waterfall and agile methodology 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.

8. Microservices architecture is an approach in which a single application is composed of many loosely coupled and independently deployable smaller components or services.

1 / 1 point

- ☒ True  
☐ False

✓ **Correct**

Correct! These services typically have their own stack running on their own containers. They communicate with one another over a combination of APIs, event streaming, and message brokers.

9. A cloud native application consists of microservices working together as a whole to comprise an application, yet each can be independently scaled and iterated through automation and orchestration processes.

1 / 1 point

- ☒ True  
☐ False

✓ **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

- ☐ Vendor  
☒ Symbiotic  
☐ Customer  
☐ General partnership

✓ **Correct**

Correct! DevOps and Cloud share a symbiotic relationship.