✓ **Congratulations! You passed!**

Grade received 100%   **To pass** 60% or higher

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1. In the use case illustrated in the video, how does the 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 cloud offers

    ● By distributing their delivery service application across multiple cloud environments and providers, spread across multiple geographies

    ○ By scaling up their on-premise architecture

    ✓ **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-premise 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.

2. Which one of these is an attribute of the microservices architecture approach?

    1 / 1 point

    ○ All the microservices that need to perform a task, need to be bundled in a single container so that they can perform the assigned task

    ● Microservices breakdown large applications into their core functions to create a fully functional application

    ○ When one of the microservices of an application stops to function, it disrupts the functioning of the complete application

    ○ Every new functionality in a microservice needs to be developed from scratch

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

3. 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

    ○ Stream processing workloads

    ○ Supporting microservices architecture

    ● Workloads characterized by long-running processes

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

4. Cloud native applications follow a consistent set of development principles. *Identify two* of these development principles from the provided options.

    1 / 1 point

    ☑ Break applications down to single-function microservices

    ✓ **Correct**
    Cloud native applications follow the microservices architectural approach of breaking down an application into independent loosely coupled single-function microservices.

    ☑ Containerize the microservices for maximum flexibility, scalability, and portability

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

- [ ] 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

5. Which of the following statements describe the DevOps approach and process? *Select two.*

1 / 1 point

- [x] A collaborative approach where business owners and development, operations, and quality assurance teams collaborate to continuously deliver software

> ✓ **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.

- [ ] Eliminates the need to provision servers, build middleware, and install application code
- [x] DevOps process defines how people work together to build, deploy, and manage applications in a cloud native environment

> ✓ **Correct**
> Cloud native applications form a complex distributed system with multiple moving parts, independent tech stacks, and rapid release cycles. The DevOps defines the process that helps teams work in the cloud native environment.

- [ ] Eliminates the need to monitor performance and availability

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

1 / 1 point

- ( ) The journey from monolithic and service-oriented architecture to microservices architecture.
- ( ) 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 waterfall and agile development methodologies to DevOps.

> ✓ **Correct**
> Application modernization involves the modernization of application architecture, infrastructure, and development and operations processes.