Quizizz

NAME : _____

CLASS : _____

DATE : _____

Cloud Architecting - Week 13
10 Questions

1. What are characteristics of components in a microservice architecture? (Select THREE.)

- [ ] Hidden implementation
- [ ] HTTP(S) communication
- [ ] Specialised function
- [ ] Independence from other components

2. What is a container?

- [ ] A portable package of code and libraries
- [ ] A virtual storage location in the cloud
- [ ] An operating system that runs a virtual machine
- [ ] A method of operating system virtualisation

3. What is the most effective use of Amazon Elastic Container Service (Amazon ECS) when refactoring a monolithic application to use a microservice architecture?

- [ ] Refactor the application and centralise common functions to create a smaller code footprint.
- [ ] Create services that each provide a distinct function of the application, and run each service in a single container that ECS manages.
- [ ] Port the application to a new image and run it in a container that Amazon ECS manages.
- [ ] Create services that each provide a distinct function of the application, and run each service in a separate container that Amazon ECS manages.

4. What is AWS Fargate?

- [ ] A service that enables you to run containers without needing to mange servers or clusters
- [ ] A service that seamlessly extends AWS services to edge devices
- [ ] A tool for developing software that use field-programmable gate arrays (FPGA)
- [ ] A fully manned service for orchestrating container cluster

5. What is serverless architecture in AWS?

- [ ] An architecture where you dod not provision or mange infrastructure
- [ ] An architecture that only uses managed services
- [ ] An architecture that uses microservices instead of monolithic servers
- [ ] An architecture that does not use any on-premises servers

6. What are benefits of serverless computing in Amazon AWS? (Select THREE.)

- [ ] Lower total cost of ownership
- [ ] Ability to build microservice applications
- [ ] Less complicated software architecture
- [ ] More focus on the application

7. How can you scale AWS Lambda functions to ensure high availability?

- [ ] Do nothing special because functions scale automatically
- [ ] Enable automatic scaling in the function
- [ ] Launch functions in Auto Scaling groups
- [ ] Provision enough function instances. to meet the maximum predicted load

8. An environmental science organisation wants to provide HTTPS read-only access to its sensors and databases to any users around the world. The goal is enabling users to create their own custom real-time data visualisations to help improve climate science. Which solution is efficient and secure?

- [ ] Create a public interface to the sensors and database by using Amazon API Gateway.
- [ ] Create web proxies servers on Amazon EC2 instances in an Auto Scaling group, which is served by an ELB.
- [ ] Create user accounts in the organisations' system to allow access.
- [ ] Create a microservices architecture by using Amazon ECS.

9. Which workloads are supported by AWS Step Functions? (Select THREE.)

- [ ] Deploy different kinds of infrastructure that are based on variables
- [ ] Update inventory and initiate shipment when a customer purchases an item on an e-commerce site
- [ ] Coordinate multi-step analytics and machine learning workflows
- [ ] Consolidate data from multiple databases when the costs for an AWS account exceed a threshold

10. What is a serverless solution for creating a simple web form?

- [ ] Host website assets in a container in an Amazon ECS cluster, use an Amazon DynamoDB table, and use server-side scripts to interact with the database.
- [ ] Host static assets in an Amazon S3 bucket, use an Amazon RDS database, and use Amazon API Gateway and AWS Lambda functions to interact with the database.
- [ ] Host static assets in Amazon S3 bucket, use Amazon DynamoDB table, and use Amazon API Gateway and AWS Lambda functions to interact with the database.
- [ ] Host website assets in a container in an Amazon ECS cluster, use an Amazon RDS database, and use server-side scripts to interact with the database.