Quiz 1: Cloud Public AWS Day 2

**Cloud Public AWS: ECS, ECR, EKS**

**1. QUESTION**

How can auto scaling be implemented for the ECS cluster instances?

1. This is not possible, you can only auto scale tasks using services

2. Using a Capacity Provider that is associated with an Auto Scaling Group (ASG)

3.Using AWS Auto Scaling for Amazon ECS

Explanation:

1 is incorrect. This is no longer true since a recent feature update. Watch out for updates on the exam!

2 is correct. This is a new feature that may start appearing on the SAA-C02 version of the exam.

3 is incorrect. AWS Auto Scaling for Amazon ECS is not something that exists.

**2. QUESTION**

A company is looking to move their on-premises Kubernetes-based application that spans multiple environments to AWS. Which service would you recommend they use to establish their application on AWS?

1. ECS

2. EKS

3. EC2

4. Lambda

Explanation:

1 is incorrect. ECS doesn’t not provide managed Kubernetes services.

2 is correct. EKS is the main service to use on Amazon for managed Kubernetes services.

3 is incorrect. EC2 does not allow you to work with managed Kubernetes services.

4 is incorrect. Lambda does not allow you to work with managed Kubernetes services.

**3. QUESTION**

Which of the following statements about the ECS container agent is INCORRECT?

1. The ECS container agent is included in the Amazon ECS optimized AMI

2. The container agent can be installed as required in every instance in an ECS cluster

3. The ECS container agent is Linux only

4.For non-AWS Linux instances you must manually install the ECS agent

Explanation:

1 is incorrect. This is a true statement.

2 is incorrect. This is a true statement.

3 is correct. This is not true, you can install the ECS container agent on Windows and Linux.

4 is incorrect. This is a true statement.

**4. QUESTION**

Which of the following is NOT a benefit of Docker Containers?

1. Quick start up

2. Resource efficient

3. Can access each other’s code

4. Include all code, settings, and dependencies to run an application

Explanation:

1 is incorrect. Quick start up is a benefit of Docker Containers

2 is incorrect. Docker Containers are resource efficient

3 is correct. Each container is isolated from other containers

4 is incorrect. Docker Containers do include all code, settings, and dependencies to run an application

**5. QUESTION**

Using which component can you enable auto scaling for ECS containers?

1.Task

2.Image

3.Cluster

4.Service

Explanation:

1 is incorrect. Tasks are created from task definitions and are container instances.

2 is incorrect. Images are read-only templates for creating containers.

3 is incorrect. Clusters are groups of EC2 instances that run the ECS agent.

4 is correct. A service is used to provide auto scaling for ECS tasks.

**6. QUESTION**

The development department in your organization need to quickly access a platform for running Docker containers. The platform service should be fully managed. Which AWS service should you provision for them?

1. Amazon Elastic Container Service (ECS) with the EC2 launch type

2. Amazon Elastic Container Service (ECS) with the Fargate launch type

3. Amazon Elastic Kubernetes Service (EKS)

4. Amazon Elastic Container Registry (ECR)

Explanation:

1 is incorrect. The EC2 launch type is not a fully managed service.

2 is correct. The Fargate launch type is a fully managed service.

3 is incorrect. EKS is a managed service running the Kubernetes control plane. There are no specific requirements here for using Kubernetes so this is not the best option for quickly creating a platform for the developers.

4 is incorrect. ECR is a registry for storing container images.

**7. QUESTION**

Which of the following is NOT a key feature of Amazon ECS?

1. Serverless with Amazon EC2

2. Docker Support

3. Windows container support

4. Serverless with AWS Fargate

Incorrect

1 is correct. Amazon EC2 is the AWS service for provisioning servers/instances and therefore cannot by definition be serverless

2 is incorrect. ECS does support Docker

3 is incorrect. ECS does support Window containers

4 is incorrect. The key benefit of ECS is fully managed and highly scalable computing which is the defining feature of serverless technology

**8. QUESTION**

What are the main characteristics of a monolithic application?

1. Loosely coupled

2. Independently deployable

3. User interface and business logic are combined on a single platform

4. Organized around business capabilities

Explanation:

1 is incorrect. Loosely coupled is a characteristic of a microservice application

2 is incorrect. Independently deployable is a characteristic of a microservice application

3 is correct. User interface and business logic are combined on a single platform is the main characteristic of a monolithic application. Oftentimes, an update or failure of a single component could take down the whole application.

4 is incorrect. Organized around business capabilities is a characteristic of a microservice application