

EE4221 Quiz 6A

1. Why is AWS more economical than traditional data centers for applications with varying compute workloads?

Amazon EC2 instances can be launched on-demand when needed.

Amazon EC2 costs are billed on a monthly basis.

Customers retain full administrative access to their Amazon EC2 instances.

Customers can permanently run enough instances to handle peak workloads.

2. If your project requires monthly reports that iterate through very large amounts of data, which Amazon Elastic Compute Cloud (Amazon EC2) purchasing option should you consider?

Dedicated Hosts

Scheduled Reserved Instances

Spot Instances

On-Demand Instances

3. What is included in an Amazon Machine Image (AMI)?

A block device mapping that specifies the volumes to attach to the instance when it's launched

All of the them

Launch permissions that control which AWS accounts can use the AMI to launch instances.

A template for the root volume for the instance

4. Which Amazon Elastic Compute Cloud (Amazon EC2) feature ensures your instances will not share a physical host with instances from any other AWS customer?

Placement groups

Dedicated Instances

Amazon VPC

Reserved Instances

5. Your web application needs four instances to support steady traffic all of the time. On the last day of the month, the traffic triples. What is the most cost-effective way to handle this pattern?

Run four Reserved Instances constantly, then add eight Reserved instances on the last day of each month.

Run four Reserved Instances constantly, then add eight On-Demand instances on the last day of each month.

Run four On-Demand Instances constantly, then add eight On-Demand instances on the last day of each month.

Run four On-Demand Instances constantly, then add eight Reserved instances on the last day of each month.

6. Which Amazon EC2 option is best for long-term workloads with predictable usage patterns?

On-Demand Instances	Dedicated Instances
Spot Instances	Reserved Instances

7. Which of the following must be specified when launching a new Amazon Elastic Compute Cloud (Amazon EC2) Windows instance? (Choose two)

Password for the administrator account

Amazon EC2 instance type

The Amazon EC2 instance ID

Amazon Machine Image (AMI)

8. A distributed image processing system has hundreds of nodes working in parallel to process images from a job queue. The processed images will be saved to S3 immediately. Which Amazon Elastic Compute Cloud (Amazon EC2) purchasing option should you consider for this system?

Dedicated Instances	Spot Instances
Reserved Instances	On-Demand Instances

9. Which are the drivers of cost optimization?

Optimize storage choices	Cut down Availability Zones
Right-size	Optimal pricing model
Increase elasticity	

10. Which of the following is/are correct?

Rebooting an instance will change its IP addresses or DNS hostnames.
Stopping an instance will release its IP addresses or DNS hostnames.
Rebooting an instance will not change its IP addresses or DNS hostnames.
Stopping an instance will not release its IP addresses or DNS hostnames.