

Module 6 answer

1. Why is AWS more economical than traditional data centers for applications with varying compute workloads? (Select the best answer)
- ☐ 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.
 - ☒ Amazon EC2 instances can be launched on-demand when needed.

Correct

AWS is more economical than traditional data centers with varying compute workloads because Amazon EC2 instances can be launched on-demand.

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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? (Select the best answer)
- ☐ Spot Instances
 - ☒ Scheduled Reserved Instances
 - ☐ Dedicated Hosts
 - ☐ On-Demand Instances

Correct

If your project requires you to run monthly reports that iterate through very large amounts of data, you should consider purchasing Scheduled Reserved Instances.

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3. What is included in an Amazon Machine Image (AMI)? (Select the best answer)

- ☐ A template for the root volume for the instance
- ☐ Launch permissions that control which AWS accounts can use the AMI to launch instances.
- ☐ A block device mapping that specifies the volumes to attach to the instance when it's launched
- ☒ All of the above

Correct

An Amazon Machine Image (AMI) includes all of these.

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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? (Select the best answer)

- ☐ Amazon VPC
- ☐ Placement groups
- ☒ Dedicated Instances
- ☐ Reserved Instances

Correct

Dedicated Instances ensure your instances will not share a physical host with instances from any other AWS customer.

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5. Which of the following services is a serverless compute service in AWS? (Select the best answer)

- ☐ AWS Config
- ☒ AWS Lambda
- ☐ AWS OpsWorks
- ☐ Amazon EC2

Correct

AWS Lambda is a compute service that lets you run code without provisioning or managing servers.

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6. What is the service provided by AWS that enables developers to easily deploy and manage applications in the cloud? (Select the best answer)

- ☐ Amazon Elastic Container Service
- ☒ AWS Elastic Beanstalk
- ☐ AWS Opswork
- ☐ AWS CloudFormation

Correct

Elastic Beanstalk is an AWS compute service option. It is a Platform as a Service (or PaaS) that facilitates quick deployment, scaling and managing of your web applications and services.

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7. 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? (Select the best answer)

- ☐ Run 12 Reserved Instances all of the time.
- ☒ Run four On-Demand Instances constantly, then add eight more On-Demand 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 Reserved Instances on the last day of each month.

Correct

Reserved Instances provide cost savings when you can commit to running instances full time, such as to handle the base traffic. On-Demand instances provide the flexibility to handle traffic spikes.

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8. True or False? Containers contain an entire operating system.

- ☐ True
- ☒ False

Correct

Containers are smaller than virtual machines, and do not contain an entire operating system.

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9. Which Amazon EC2 option is best for long-term workloads with predictable usage patterns? (Select the best answer)

- ☐ Spot Instances
- ☐ On-Demand Instances
- ☒ Reserved Instances

Correct

Reserved instances would be the best EC2 option for long-term workloads with predictable usage patterns.

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

- ☒ Amazon Machine Image (AMI)
- ☐ Amazon EC2 instance type
- ☐ Password for the administrator account
- ☐ The Amazon EC2 instance ID

Incorrect

AWS assigns the EC2 instance ID as part of the launch process and the administrator password, which is encrypted via the public key. The instance type defines the virtual hardware and the AMI defines the initial software state. Both must be specified on launch.

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