AWS Academy Cloud Foundation Module 1 Quiz Answers Q1. What are the advantages of cloud computing over computing on-premises?
Answer:
All of the above
Avoid large capital purchases
Use on-demand capacity
Increase speed and agility
Q2. What is the pricing model that enables AWS customers to pay for resources on an as-needed basis?
Answer:
Pay as you go
Q3. Which of these is not a cloud deployment
Answer:
System administration as a service
Q4. True of False? AWS owns and maintains the network-connected hardware required for
application services, while you provision and use what you need.
Answer:
True
Q5. Which of these is not a benefit of cloud computing over on-premises computing?
Answer:
Pay for racking, stacking, and powering services
Q6. Which of the following are not benefits of AWS Cloud computing?
Answer:
High Latency
Multiple procurement cycles

Q7. Which of the following is a compute service? (Select the best answer)		
Answer:		
Amazon EC2		
Q8. True or False? Cloud Computing provides a simple way to access servers, storage, databases, and		
a broad set of application services over the internet. You own the network-connected hardware required for these services and Amazon Web Services provisions what you need.		
Answer:		
False		
Q9. Economics of Scale result from		
Answer:		
having hundreds of thousands of customers aggregated in cloud Q1. For certain services like Amazon Elastic Compute Cloud (Amazon EC2) and		
Amazon Relational Database Service (Amazon RDS), you can invest in reserved capacity. What options are available for Reserved Instances?		
Answer: AURI NURI PURI		
Q2. Where can a customer go to get more details about Amazon Elastic Compute Cloud (Amazon EC2) billing activity that took the place 3 months ago?		
Answer:		
AWS Cost Explorer		
Q3. True or false? To receive the discounted rate associated with Reserved Instances, you must make a full, upfront payment for the term of the agreement		
Answer: False		
Q4. There is no charge for which of the following?		

Answer: Inbound data transfer (with some exceptions) Data transfer between services within the same AWS Reg
Q5. What are the four support plans offered by AWS Support?
Answer: Basic, Developer, Business, Enterprise
Q6. What AWS tool compares the cost of running your application in an on-premises data center to AWS?
Answer: Total Cost of Ownership (TCO) calculator
Q7. As AWS grows, the cost of doing business is reduced and savings are passed back to the customer with lower pricing. What is this optimization called?
Answer: Economics of scale
Q8. True or false? AWS offers a variety of services at no charge, for example, Amazon Virtual Private Cloud (Amazon VPC), AWS Identity and Access Management (IAM), Consolidated Billing, AWS Elastic Beanstalk, automatic scaling, AWS Ops Works and AWS CloudFormation. However, you might be charged for other AWS services that you use in conjunction with these services
Answer: True
Q9. When are free data transfers applicable across AWS?
Answer:
Free inbound data transfer for Amazon Elastic Computer Cloud (Amazon EC2) instances
Free outbound data transfer between AWS services within the same Region
Q10. True of false? Unlimited services are available with the AWS Free Tier to new AWS customers for 12 months following their AWS sign-up date.

Answer:

False

AWS Global Infrastructure Overview Q1. Which component of the AWS Global Infrastructure does Amazon CloudFront use to ensure low-latency delivery? (Select the best answer) A. AWS Regions B. AWS Edge locations C. AWS Availability Zone D. Amazon virtual private cloud (Amazon VPC) Answer: [B] AWS Edge locations Q2. You can run applications and workloads from a region closer to the end users to \_\_\_\_\_ latency. A. Increase B. Decrease Answer: [B] Decrease Q3. True / False? Networking, storage, compute and databases are examples of service categories that AWS offers. Answer: True Q4. Which of these statements about Availability Zones is not true? (Select the best answer) A. Availability Zones are designed for fault isolation B. Availability Zones are made up of one or more data centers C. Availability zones are connected to each other using high-speed private links

D. A data center can be used for more than one availability zone

[D] A data center can be used for more than one availability zone

Answer:

Q5. What is true about Regions (Choose two)			
1. They are the physical locations of your customers			
<ul><li>2. All regions are located in one specific geographic area</li><li>3. A region is a physical location that has multiple availability zones</li></ul>			
4. Physical location has multiple availability zones			
5. Each region is located in a separate geographic area			
Answer:			
3. A region is a physical location that has multiple availability zones			
5. Each region is located in a separate geographic area			
Q6. Which of the following are geographic areas that host two or more Availability Zones?			
(Select the best answer)			
A. AWS Origin			
B. AWS Regions			
C. Compute Zones			
D. Edge Locations			
Answer: AWS Regions			
Q7 means the infrastructure has built-in component redundancy and means that			
resources dynamically adjust to increases or decreases in capacity requirements.			
A. No human intervention, fault-tolerant			
B. Fault-tolerant, no human intervention			
C. Elastic and scalable, fault-tolerant			
D. Elastic and scalable, no human intervention			
E. Fault-tolerant, elastic and scalable			

Answer: [E] Fault-tolerant, elastic and scalable
Q8. True or False? Availability Zones within a region are connected through low-latency links.
Answer:
True
Q9. AWS highly recommends provisioning your compute resources across availability zones
A. All
B. No
C. Multiple
D. Single
Answer:
Multiple
Q10. True or False? Edge locations are only located in the same general area as regions.
Answer:
False AWS Cloud Security
Q1. What is the AWS Shared Security Model?
Answer: Security of the Cloud
Q2. In the shared responsibility model, which of the following are examples of "Security in the cloud"?
A. Compliance with compute security standards and regulations.
B. Physical security of the facilities in which the service operates.
C. Security group configurations.
D. Encryption of the data at rest and data in transit.
E. Protecting the global infrastructure.
Answer:

# [C],[D]

True.

Q3. Which of the following is the responsibility of AWS under the AWS shared responsibility model? (Select the best answer).
A. Configuring third party applications.
B. Maintaining physical hardware.
C. Security application access and data.
D. Managing custom Amazon machine images (AMI's).
Answer:  Maintaining physical hardware.
Q4. When creating an AWS Identity and Access Management (IAM) policy, what are the two
types of access that can be granted to a user? (Choose two).
A. Institutuional Access.
B. Authorized Access.
C. Programmatic Access.
D. AWS Management Console Access.
E. Administrative Root Access.
Answer:
Programmatic Access.
AWS Management Console Access.
Q5. True or false? AWS organizations enables you to consolidate multiple aws accounts so that
you centrally manage them.
True.
False.
Answer:

Q6. Which of the following are best practices to secure your account using aws identity and
access management? (Choose 2).
A. Provide users with default administrative privileges.
B. Leave unused and unnecessary users and credentials in place.
C. Manage access to AWS resources.
D. Avoid using IAM groups to grant the same access permissions to multiple users.
E. Define fine-grained access rights.
Answer:
Manage access to AWS resources.
Define fine-grained access rights.
Q7. Which of the following should be done by the AWS account root user?
(Select the best answer).
A. Secure access for applications.
B. Integrate with other AWS services.
C. Change granular permissions.
D. Change the AWS support plan.
Answer:
Change the AWS support plan.
Q8. After initial login, what does AWS recommend as the best practice for the AWS account
root user?
A. Delete the AWS account root user.
B. Revoke all permissions on the AWS account root user.
C. Restrict permission on the AWS account root user.
D. Delete the access keys of the AWS account root user.

Answer:
Delete the access keys of the AWS account root user.
Q9. How would a system administrator add an additional layer of login security to a user's
AWS management console?
A. Use Amazon Cloud Directory.
B. Audit AWS Identity and Access Management (IAM) roles.
C. Enable multi-factor authentication.
D. Enable AWS CloudTrail.
Answer:
Enable multi-factor authentication.
Q10. True or false? AWS key management service (AWS KMS) enables you to assess, audit,
and evaluate the configurations of your AWS resources.
True.
False.
Answer:
False. AWS Academy Cloud Foundation Module 5 Quiz Answers
Q1. Which AWS networking service enables a company to create a virtual network within AWS
A. AWS Config B. Amazon Route 53 C. AWS Direct Connect D. Amazon VPC
Answer:
D. Amazon VPC
Q2. With Amazon Virtual Private Cloud (Amazon VPC), what is the smallest size subnet you can have in a VPC?

A. /28 B. /30 C. /24			
D. /26			
Answer: A. /28			
Q3. With Amazon Virtual Private Cloud (Amazon VPC), what is the maximum size IP address range you can have in a VPC?			
A. /28 B. /16 C. /30 D. /24			
Answer:			
B. /16			
Q4. You need to allow resources in a private subnet to access the internet. Which of the following must be present to enable this access?			
A. Network access control lists B. Security groups C. NAT gateway D. Route tables			
Answer:			
C. NAT gateway			
Q5. Which AWS networking service enables a company to create a virtual network within AWS?			
A. Amazon Virtual Private Cloud (Amazon VPC) B. AWS Direct Connect C. Amazon Route 53 D. AWS Config			
Answer: A. Amazon VPC			
Q7. T/F, Private subnets have direct access to the internet.			
Answer: False			

- Q8. Which component of AWS Global Infrastructure does Amazon CloudFront use to ensure low-latency deliver?
- A. AWS Regions
- B. AWS Availability Zones
- C. AWS edge locations
- D. Amazon Virtual Private Cloud (Amazon VPC)

## Answer:

C. AWS edge locations

- Q9. Which of the following is an optional security control that can be applied at the subnet layer of a VPC?
- A. Network ACL
- B. Security group
- C. Web application firewall
- D. Firewall

## Answer:

A. Network ACL

- Q10. What happens when you use Amazon Virtual Private Cloud (Amazon VPC) to create a new VPC?
- A. Three subnets are created by default in one Availability Zone
- B. A main route table is created by default
- C. Three subnets are created by default: one for each Availability Zone
- D. An internet gateway is created by default.

## Answer:

- B. A main route table is created by default
- Q11. Which of the following can be used to protect Amazon Elastic Compute Cloud (Amazon EC2) instances hosted in AWS?
- A. Internet Gateway
- B. All of the above
- C. AMI
- D. Security group

## Answer:

D. Security group

Q12. You are a solutions architect who works at a large retail company that is migrating its existing infrastructure to AWS. You recommend that they use a custom VPC. When you create a VPC, you assign it to an IPv4 Classless Inter-Domain Routing (CIDR) block of 10.0.1.0/24 (which has 256 total IP addresses). How many IP addresses are available?
A. 251
B. 256
C. 246
D. 250
Answer:
[A] 251
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AWS Cloud Foundation Module 6 Answers

- Q1. Why is AWS more economical than traditional data centers for applications with varying compute workloads? (Select the best answer).
- A. Amazon EC2 Costs are billed on a monthly basis.
- B. Customers retain full administrative access to their Amazon EC2 instances.
- C. Customers can permanently run enough instances to handle peak workloads.
- D. Amazon EC2 instances can be launched on-demand when needed.

#### Answer:

- [D] Amazon EC2 instances can be launched on-demand when needed.
- Q2. If your project requires monthly reports that iterate through very large amounts of data, which Amazon Elastic Compute Cloud EC2 purchasing option should you consider? (Select the best answer).
- A. Spot Instances.
- B. Scheduled Reserved Instances.
- C. Dedicated Hosts.
- D. On-Demand Instances.

## Answer:

- [B] Scheduled Reserved Instances.
- Q3. What is included in an Amazon Machine Image (AMI)? Select the best answer.
- A. A template for the root volume for the instance.
- B. Launch permissions that control which AWS accounts can use the AMI to launch instances.
- C. A block device mapping that specifies the volumes to attach to the instance when it's launched.
- D. All of the above.

## Answer:

[D] All of the above.

Q4. Which Amazon Elastic Compute Cloud EC2 feature ensures your instances will not share

a physical host with instances from any other AWS customer? (Select the best answer).

- A. Amazon VPC.
- B. Placement Groups.
- C. Dedicated Instances.
- D. Reserved Instances.

## Answer:

[C] Dedicated Instances.

Q5. Which of the following services is a serverless compute service in AWS? (Select the best answer).

- A. AWS Config.
- B. AWS Lambda.
- C. AWS OpsWork.
- D. Amazon EC2.

## Answer:

[B] AWS Lambda.

- Q6. What is the service provided by AWS that enables developers to easily deploy and manage applications in the cloud? (Select the best answer).
- A. Amazon Elastic Container Service.
- B. AWS Elastic Beanstalk.
- C. AWS OpsWork
- D. AWS CloudFormation

## Answer:

[B] AWS Elastic Beanstalk.

- \*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.
- Q7. 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).
- A. Run 12 reserved instances all of the time.
- B. Run four On-demand Instances constantly, then add eight more On-Demand on the last day of each month.
- C. Run four Reserved Instances constantly, then add eight On-Demand Instances on the last day of each month.
- D. Run four On-Demand Instances constantly, then add eight Reserved Instances on the last day of each month.

Answer:

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

\*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.

Q8. True or false? Containers contain an entire operating system.

True.

False.

Answer:

False.

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

- Q9. Which Amazon EC2 option is best for long-term workload with predictable usage patterns? (Select the best answer).
- A. Spot Instances.
- B. On-Demand Instances.
- C. Reserved Instances.

Answer:

[C] Reserved Instances.

Q10. Which of the following must be specified when launching a new Amazon Elastic Cloud

Compute EC2 windows instance? (Choose two).

- A. Amazon EC2 instance type.
- B. Amazon Machine Image (AMI).
- C. The Amazon EC2 Instance ID.
- D. Password for the administrator account.
- E. Amazon EC2 instance type.

Answer:

[B] Amazon Machine Image (AMI).

AWS Academy Cloud Foundation Module 7 Quiz Answers

Q1. True or false. Amazon simple storage service S3 is an object storage suitable for the storage of flat files like Microsoft Word documents, photos, etc.

A. True

B. False
Answer: True.
Q2. Amazon S3 replicates all objects (Select the best answer).
A. On multiple volumes within an availability zone.
B. In multiple Availability zones within the same region.
C. Across multiple regions for higher durability.
D. On multiple S3 buckets.
Answer: In multiple Availability zones within the same region.
Q3. Which of the following can be used as a storage class for an S3 object lifecycle policy?
A. S3 Standard Access.
B. AWS Storage Gateway.
C. S3 Infrequent Access.
D. Simple Storage Service Glacier.
E. S3 Reduced Redundancy Storage.
F. Amazon Dynamo DB.
Answer:  [D],[C],[A] Glacier, S3 infrequent access and S3 standard access.
Q4. The name of an S3 bucket must be unique.
A. Worldwide across all AWS accounts.
B. Within a region.
C. Across all your AWS accounts.
D. Within your AWS account.
Answer: [A] Worldwide across all AWS accounts.
Q5. You can use amazon elastic file system efc to: (Select the best answer).
A. Provide simple, scalable, elastic file storage for use only within AWS.

B. Implement storage for Amazon EC2 instances that multiple virtual machines can access at the
same time.
C. Host a robust CDN to deliver entire web sites with dynamic, static, and streaming content.
D. Generate user specific content.
Answer: [B]
Implement storage for EC2 instances that multiple virtual machines can access at the same time.
Q6. Amazon Elastic Block Storage (Amazon EBS) is recommended when
data and (Choose two).
A. Requires object level storage.
B. Must be quickly accessbile, requiring long-term persistence.
C. Requires an encryption solution.
D. Needs to be stored in a different availability zone than the one the EC2 instance is in.
Answer: [B], [C]
Must be quickly accessible, requiring longterm persistence requires an encryption solution.
Q7. True or false, by default all data stored in amazon S3 is viewable by the public.
A. True.
B. False.
Answer: [B]
False.
Q8. Regarding amazon S3 glacier, what is a vault?
A. The rules that determine who may (or may not) access archives.
B. An object (photos, videos, files, or documents).
C. A container for storing archives.
D. A policy that identifies who can access content stored in Glacier.

Answer: [C] Container for storing archives.

Q9. True or false. When you create a bucket in amazon S3, it is associated with a specific aws region.

A. True.

B. False.

Answer: [A] True.

Q10. Which of the following are features of Amazon Elastic Block Store (Amazon EBS). (Choose two).

- A. Data on an Amazon EBS volume is lost when the attatched instance is stopped.
- B. Amazon EBS volumes can be encrypted transparently to workloads on the attached instance.
- C. Amazon EBS data is automatically backed up to tape.
- D. Data stored on Amazon EBS is automatically replicated within an Availability Zone.

Answer: [ B ], [ D]

- Q1. You are designing an ecommerce web application that will scale to hundreds of thousands of concurrent users, Which database technology is best suited to hold the session state in this example?
- A. Amazon Relational Database Service (Amazon RDS)
- B. Amazon DynamoDB
- C. Amazon RedShift
- D. Amazon Simple Storage (Amazon S3)

Answer:

- [B] Amazon DynamoDB
- Q2. You need to find an item in Amazon DynamoDB table using an attribute other than item's primary key. Which of the following operations should you use?
- A. Put Item

B. Scan
C. Query
D. Get Item
Answer: [B]Scan
Q3. In Amazon DynamoDB, what does the query operation enable you to do?
A. Query a table using the Partition Key and optional sort key filter
B. Query and secondary indexes that exists for a table
C. Efficiency retrieve items from a table or secondary index
D. All the Above
Answer: [D] All of the above
Q4. Which AWS Cloud service is best suited for analyzing your data by using
standard structured query language (SQL) and your existing business intelligence (BI) tools
A. Amazon Relational Database (Amazon RDS)
B. Amazon Simple Storage Simple Glacier
C. Amazon Dynamo DB
D. Amazon Redshift
Answer: [D] Amazon Redshift
Q5. In Amazon DynamoDB, an attribute is
A. A Fundamental Data Element
B. A Collection Of items
C. A Collection of Attributes
Answer: [ A ] a fundamental data element

Q6. Which of the following use cases is appropriate for using Amazon Relational Database

Service (Amazon RDS)?

A. Massive read / write rates

B. Simple Gets or Put Requests

C. Complex Transactions

D. All the Above

Answer: [C] Complex transactions

Q7. A company has an application, which consists of a .NET layer that connects to a

MySQL database. They want to move this application on to AWS and use AWS features

such as high availability and automated backups. Which of the following would be

an ideal database for this use case (Select the best answer)

A. Amazon Dynamo DB

B. Amazon RDS

C. Amazon Aurora

D. Amazon Redshift

Answer: [C] Amazon Aurora

Q8. If you are developing an application that requires a database with extremely

fast performance, fast scalability, and flexibility in the database schema, which service

would you consider?

A. Amazon Relational Database (Amazon RDS)

B. Amazon Elastic Cache

C. Amazon Dynamo DB

D. Amazon Redshift

Answer: [C] Amazon DynamoDB

Q9. True of false? Amazon RDS automatically patches the database software and backs up
your database, storing the backups for a user-defined retention period and enabling point-in-
time recovery
A. True
B. False
Answer: [ A ] True
Q10. What should you consider when choosing database type?
A. Data Size
B. Data access period
C. Query Frequency
D. All the Above
E. Highly Available
Answer: [D] All of the above AWS Academy Cloud Foundation Module 9 Quiz Answers
Q1. Which of the following is not one of the four areas of the Performance Efficiency pillar of the
AWS Well-Architected Framework?
A. Tradeoffs
B. Selection
C. Traceability
D. Monitoring
Answer: [C] Traceability
Q2. Which of the following is a principle when designing cloud-based systems?
A. Build tightly - coupled components
B. Make infrequent , large batch changes
C. Assume Everything will fail

D. Use as many services as possible
Answer: [C] Assume everything will fail
Q3. Which of the following are pillars of the AWS Well-Architected Framework? (Choose three)
A. Security
B. Persistence
C. Operational Excellence
D. Cost Optimization
Answer: [A], [C], [D] Security, Operational Excellence & Cost Optimization
Q4. Which design principles are recommended when considering performance efficiency? (Choose 2)
A. Enable traceability
B. Use serverless architecture
C. Analyze and attribute expenditure
D. Match Supply with demand
E. Democratize advance technologies
Answer: [B][E]
Use serverless architecture
Democratize advanced technologies
Q5. AWS Trusted Advisor provides insight regarding which five categories of an AWS account?
A. Performance, cost optimization, security, fault tolerance, service limits.
B. Security, Fault tolerance, high availability, connectivity, service limits
C. Performance, cost optimization, access control, connectivity, security
D. Security, access control, high availability, performance, service limits
Answer: [ A ]

Performance, cost optimization, security, fault tolerance, service limits Q6. What is the focus of the sustainability pillar of the well - architected Frame work? A. Designing workloads that recover quickly from failures. B. Minimize the environmental impacts of the running cloud networks. C. Avoid unnecessary cost in cloud networks. D. Automating updates to cloud networks. Answer: [B] Minimize the environmental impacts of the running cloud networks. Q7. The AWS Well-Architected Framework is organized into how many pillars? Answer: 5 Q8. After you move to the AWS Cloud, you want to ensure that the right security settings are put in place. Which online tool can assist in security compliance? A. Amazon Kinesis B. Amazon Support C. AWS Trusted Advisor D. Amazon Cloud watch Answer: [C] AWS Trusted Advisor Q9. Which of the following is a measure of your system's ability to provide functionality when desired by the user?

A. Availability

C. Reliability

B. Fault Tolerance

D. Performance Efficiency

Answer: [C] Reliability

Q10. What is defined as the ability for a system to remain operational even if some of the
components of that system fail?
A. High durability
B. Fault Tolerance
C. High availability
Answer: [B] Fault Tolerance
Q11. Which of the following best describes a system that can withstand some measures of
degradation, experiences minimal downtime, and requires minimal human intervention
A. Scalable
B. Fault Tolerant
C. Elastic
D. Highly available
Answer: [ D ] Highly available AWS Academy Cloud Foundation Module 10 Quiz Answers
AWS Academy Cloud Foundation Module 10 Quiz Answers Q1. Which of the following AWS tools help your application scale up or down based on demand?
A. Availability Zones
B. Amazon EC2 Auto Scaling
C. Aws CloudFormation
D. Elastic load balancing
E. AWS Config
Answer: [B][D] Amazon EC2 Auto Scaling
Elastic Load Balancing
Q2. Which service would you use to send alerts based on Amazon CloudWatch alarms?

A. Amazon Machine Image (AMI)
B. Load Balancer
C. Instance type
D. Virtual Private Cloud (VPC ) and Subnets
E. Amazon Elastic Block Store (Amazon EBS) volumes
Answer: [A], [C], [E]
Amazon Machine Image (AMI)
Instance type
Amazon Elastic Block Store (Amazon EBS) volumes
Q6.Which of the following services can help you conflict important metrics from
Amazon Relational Database Service (Amazon RDS) and Amazon Elastic Compute
Cloud (Amazon EC2) instances?
A. Amazon CloudFront
B. Amazon Cloud Search
C. Amazon Cloud Watch
D. Amazon Cloud Trial
E. Amazon E2C Scaling
Answer: [ D ] Amazon CloudTrail
Q7. Which of the following are elements of an Auto Scaling group ? (Choose three)
A. Maximum size
B. Health Checks
C. Desired capacity
D. Minimum size

Answer: [A], [C], [D] Maximum size Desired capacity Minimum size Q8. There is an adult at your company and they need to have a big log of all access to AWS resources in the account. Which of the following services can assist in providing these details? A. Amazon Cloud Watch B. AWS Cloud Trial C. Amazon Elastic Compute Cloud (Amazon EC2) D. Amazon Simple Notification Service (Amazon SNS) Answer: [B] AWS CloudTrail Q9. In Elastic Load Balancing, when the load balancing detects an unhealthy target, which of the following are true (Choose three) A. Stops routing traffic to that target B. Triggers an Alarm C. Resumes routing traffic when it detects that the target is healthy again D. Resumes routing traffic when manually restarted

E. Routes traffic to a healthy target

Answer: [A], [C], [E]