Q1) Which of the following AWS products cannot be used by CloudWatch to trigger alarms?

● Elastic Load Balancing
● EC2
✅ CloudSearch
Explanation:-CloudWatch uses information from Auto Scaling, Elastic Load Balancing, and EC2 instances to trigger alarms, but it does not use CloudSearch.
● Auto Scaling

Q2) Which of the following is not a storage option for uploading objects to an S3 bucket?

● Standard—Infrequent Access
● Standard
✅ Glacier
Explanation:-The storage options for uploading objects to an S3 bucket are Standard, Standard—Infrequent Access, and Reduced Redundancy.
● Reduced Redundancy

Q3) Which is not a category of instance types in AWS?

● Compute Optimized
✅ Machine Learning
Explanation:-There is no Machine Learning category. In addition to the other categories listed here, there are GPU Graphics, GPU Compute, and Storage Optimized categories.
● General Purpose
● Memory Optimized

Q4)

You need to complete compute processing tasks and have a window of several months to get them done. You would like to save money over the standard pricing model of EC2.

What should you consider?

● Reserved
✅ Spot instance
Explanation:-Since you have a large window in which to complete the tasks, you might consider spot instance pricing, in which you bid and hope the spot price triggers the compute resources at your price.
● On demand
● Dynamic

Q5) Which two of the following features can be used to restrict access to data in S3? (Choose two.)

● Enable IAM identity federation.
● Use S3 virtual hosting.
✅ Set an S3 bucket policy.
Explanation:-You can control data access in S3 buckets by using an ACL or by using a bucket policy.
✅ Set an S3 ACL on the bucket or the object.
Explanation:-You can control data access in S3 buckets by using an ACL or by using a bucket policy.
● Create a CloudFront distribution for the bucket.

Q6) Which of the following is necessary to create an AWS account?

✅ Credit card
Explanation:-AWS requires you to submit credit card payment information to create an account.
● Private data center
● Bank account information
● Business plan

Q7) What type of service does AWS Kinesis provide?

● Networking services
● Database services
● Compute services
✅ Data stream analysis
Explanation:-AWS services are broken up into various service headings, defined by their function.

Q8) According to the Shared Responsibility model, who is responsible for the hypervisor software that EC2 instances run on?

● AWS customer
● Hypervisor vendor
✅ AWS
Explanation:-The customer does not have any access or visibility to the hypervisor software.

● Microsoft

Q9) _____ is an example of a supported scripting language for CloudFormation templates.

● ASP
● C#
✅ JSON
Explanation:-You can use JSON scripts in order to build templates for CloudFormation.
● Java

Q10) At which two levels can you configure access control for S3? (Choose two.)

✅ Object
Explanation:-You can set up access control at both the bucket and object levels. AWS does not use the terms file and folder.
● File
● Folder
✅ Bucket
Explanation:-You can set up access control at both the bucket and object levels. AWS does not use the terms file and folder.

Q11) Which of the following services can help with excessive latency in cloud-based architectures?

● CloudWatch
● Auto Scaling
● Elastic Load Balancing
✅ CloudFront
Explanation:-CloudFront delivers static and streaming content using a global network of AWS Edge Locations.

Q12) When creating an EC2 instance from an AMI, what is the first state that the instance enters after being launched?

● Running
✅ Pending
Explanation:-An EC2 instance enters the pending state immediately after being launched; in this state, the instance builds the image and acquires resources.
● Rebooting
● Shutting down

Q13) n the structure of an Amazon DynamoDB, which of the following are contained in a table and are made up of attributes?

● Files
● Chunks
● Attributes
✅ Items
Explanation:-The top level of an Amazon DynamoDB is organized into tables, tables contain items, and items contain attributes.

Q14) Which of the following AWS service levels includes the compute, networking, and storage services?

● Information
✅ Foundation
Explanation:-Foundation services—the foundational services that AWS offers—include compute (EC2, Lambda, Auto Scaling), networking (Load-Balancing, Route53, VPC), and storage (S3, Block Storage, Glacier, EFS) services.
● Infrastructure
● Platform

Q15) What is the maximum number of security groups that can be applied to any one EC2 instance?

● 10
● 2
✅ 5
Explanation:-The maximum number of security groups that can be applied to any one EC2 instance is 5, although this is a soft limit that can be raised.
● 1

Q16) What tool does AWS provide that allows you to monitor the activities of AWS involving your infrastructure?

● CloudSecurityMonitor
✅ CloudTrail
Explanation:-AWS CloudTrail is a service that enables governance, compliance, operational auditing, and risk auditing of your AWS account. With CloudTrail, you can log, continuously monitor, and retain account activity related to actions across your AWS infrastructure. CloudTrail provides event history of your AWS account activity, including actions taken through the AWS Management Console, AWS SDKs, command-line tools, and other AWS services. This event history simplifies security analysis, resource change tracking, and troubleshooting.
● CloudWatch
● CloudAudit

Q17) Which of the following is not a component of Auto Scaling in AWS?

- Groups
- Launch configurations
- Scaling plans
- ✅ AMI batch

Explanation:-Three main components make up Auto Scaling: scaling plans, launch configurations, and groups. AMI batch does not exist in AWS.

Q18) If you create your VPC using the wizard with the option for private and public subnets, how does your public subnet access the Internet?

- Using a routing instance in that subnet
- Using a routing instance in the private subnet
- Using an EC2 instance on the edge of the subnet
- ✅ Using the NAT gateway with an elastic IP address

Explanation:-In this use of the wizard, using a NAT gateway and an elastic IP address makes the public subnet Internet accessible.

Q19) What is the default load balancing algorithm with classic ELB?

- Dykstra
- Load based
- Bandwidth based
- ✅ RR

Explanation:-Round robin (RR) is the default algorithm for load balancing.

Q20) How can you save the most money with reserved instances?

- ay some up front
- Pay all at the end of the contract
- Pay monthly
- ✅ Pay all up front

Explanation:-AWS provides the largest discount possible when you pay for all your reserved instances up front.

Q21) Where in the EC2 Management Console can you find thousands of preconfigured AMIs designed with many different preinstalled options?

- Quick Start
- My AMIs
- AWS App Store
- ✅ AWS Marketplace

Explanation:-The AWS Marketplace is an online software store that helps AWS customers find, buy, and immediately start using the software and services that run on AWS.

Q22) What security construct is associated with VPC subnets?

- FirePower
- IDS
- ✅ NACLs

Explanation:-NACLs, which are associated with subnets, give you a powerful security capability to control traffic between your AWS resources.

- Security groups

Q23) Besides EC2 instances, which two the following AWS products can also take advantage of security groups? (Choose two.)

- Elastic Load Balancing
- ✅ Elastic MapReduce

Explanation:-A security group acts as a virtual firewall for EC2 instances as well as various other AWS products. Keep in mind that security groups are not instance specific. Therefore, one security group can be shared among many instances.

- ✅ Redshift

Explanation:-A security group acts as a virtual firewall for EC2 instances as well as various other AWS products. Keep in mind that security groups are not instance specific. Therefore, one security group can be shared among many instances.

- CloudFront

Q24) You are planning on migrating your music streaming service to the AWS cloud. Which of the following AWS storage products would best suit your needs?

- Glacier
- EFS
- ✅ S3

Explanation:-Amazon Simple Storage Service (S3) is a scalable, durable platform that makes data accessible from any Internet location, for user-generated content, active archive, serverless computing, big data storage, or backup and recovery.

- EBS

Q25) Which statement about a default security group is incorrect?

- ✅ The group permits all inbound traffic.

Explanation:-All outbound traffic from the instance is permitted by default. For inbound traffic, just traffic from other instances of that security group

is permitted by default.

- ● You must rename the default security group in order to use it.
- ● The group permits all outbound traffic by default.
- ● You cannot delete a default security group.

Q26) Which two items are configured by the AMI? (Choose two.)

- ● Storage
- ✅ Root volume

Explanation:-The Amazon Machine Image (AMI) contains the basic configuration for the operating system (OS) and the root volume.

- ✅ OS

Explanation:-The Amazon Machine Image (AMI) contains the basic configuration for the operating system (OS) and the root volume.

- ● Memory
- ● Region

Q27) How can you configure session affinity with ELB in AWS?

- ● Use an HTTPS listener.
- ● Configure the client retention period.
- ● Configure the server retention period.
- ✅ Use the sticky session feature.

Explanation:-You can use the sticky session feature (also known as session affinity), which enables the load balancer to bind a user's session to a specific instance. This ensures that all requests from the user during the session are sent to the same instance.

Q28) Which statement about EC2 instances is true?

- ● EC2 instance billing occurs regardless of whether the virtual machine is powered on or powered off.
- ● You cannot run multiple EC2 instances for the same instance type in the same VPC.
- ✅ When you power down a virtual machine running on an EC2 instance, billing for that instance is discontinued until the VM is powered up again.

Explanation:-AWS bills only for the time that a virtual machine is actually running.

- ● You cannot power off an EC2 instance.

Q29) Which of the following is not an AWS region?

- ● Asia Pacific (Singapore)
- ✅ EU (Warsaw)

Explanation:-AWS does not currently have any regions in Poland.

- ● US East (N. Virginia)
- ● US West (Oregon)

Q30)

You are interested in using event-driven triggers to launch compute functions in AWS without relying on the provisioning and maintenance of EC2 instances.

What service should you use?

- ● Kinesis
- ● ElastiCache
- ✅ Lambda

Explanation:-Lambda permits serverless computing, which means functions can run in the cloud without specific EC2 resources being provisioned.

- ● Redshift

Q31) Which of the following EC2 pricing models allows you to bid on unused instance hours purchased by another AWS user?

- ● Dedicated
- ● Reserved
- ● Scheduled
- ✅ Spot

Explanation:-Spot allows AWS users to auction off unused reserved and scheduled instance hours to the highest bidder as a way to cut down on unnecessary expense.

- ● On-demand/pay-as-you-go

Q32) Which of the following S3 storage classes has the lowest durability rating?

- ● Glacier
- ✅ Reduced Redundancy

Explanation:-The Reduced Redundancy S3 storage class has a durability rating of 99.99%, while the other three storage classes listed here are rated at 99.999999999%.

- ● Standard
- ● Infrequent Access

Q33) What service from AWS can help protect your web applications from SQL injection types of attacks?

- ● RDS

- ElastiCache
- ✅ WAF

Explanation:-Services like AWS Web Application Firewall (WAF) can help protect your web applications from SQL injection attacks and other vulnerabilities in your application code. For access control, you can use Identity and Access Management (IAM) to define a granular set of policies and assign them to users, groups, and AWS resources. Amazon Cognito lets you add user sign-up, sign-in, and access control to your web and mobile apps quickly and easily.

- DynamoDB

Q34) Which of the following S3 storage classes is the least expensive?

- Reduced Redundancy
- Infrequent Access
- ✅ Glacier

Explanation:-Glacier is the least expensive of the S3 storage classes, but keep in mind that it can take up to a couple hours to restore.

- Standard

Q35) Which of the following AWS resources would incur charges against a Free Tier account, if used?

- AWS S3
- ✅ An AWS provisioned IOPS EBS

Explanation:-Provisioned IOPS are a new Elastic Block Store (EBS) volume type designed to deliver predictable high performance for I/O-intensive workloads, such as database applications, that rely on consistent and fast response times. These would not be part of a Free Tier account.

- AWS ELB
- An EC2 micro instance

Q36) Which of the following are considered advantages of elasticity? (Choose two.)

- Complete control of your infrastructure
- ✅ Easy "on-ramping"

Explanation:-Elasticity (scalability) is cost-effective because you can spin up and pay for additional services as you need them (on demand), and it allows "on-ramping," which means moving your services to the cloud over time gradually.

- Ability to physically access your servers
- ✅ Cost-effectiveness

Explanation:-Elasticity (scalability) is cost-effective because you can spin up and pay for additional services as you need them (on demand), and it allows "on-ramping," which means moving your services to the cloud over time gradually.

Q37) What are two components that must make up an EC2 instance? (Choose two.)

- S3
- Lambda
- ✅ Instance type

Explanation:-An EC2 instance is constructed from an Amazon Machine Image (AMI) and an instance type.

- ✅ AMI

Explanation:-An EC2 instance is constructed from an Amazon Machine Image (AMI) and an instance type.

Q38)

Your IT group maintains an application on AWS to provide development and testing platforms for your developers. Currently, each environment consists of an m1.small EC2 instance.

Your developers report to your group performance degradation as they increase network load in the test environment.

How would you mitigate these performance issues in the test environment?

- Upgrade the m1.small to a larger instance type.
- Add an additional ENI to the test instance.
- Use the EBS optimized option to offload EBS traffic.
- ✅ Configure Amazon CloudWatch to provision more network bandwidth when network utilization exceeds 80 percent.

Explanation:-Note that the EBS optimized option is not available for this EC2 instance.

Q39) How does AWS help ensure durability with your S3 objects?

- It automatically vaults copies in Glacier.
- It uses ElastiCache.
- ✅ The objects are automatically copied to another AZ.

Explanation:-AWS S3 duplicates your objects across Availability Zones (AZs) in order to improve durability.

- It uses EC2.

Q40) What service seeks to assist your developers in deploying applications by building the appropriate infrastructure for them?

- Redshift
- ✅ Elastic Beanstalk

Explanation:-The job of Elastic Beanstalk is to build the underlying AWS infrastructure for the developer in order to make deployment of applications simple.

- Lambda

Q41) How many Auto Scaling groups can you have per region?

- ○ 100
- ○ 50
- ✅ 20

Explanation:-The following limits are related to your Auto Scaling resources: 100 launch configurations per region and 20 Auto Scaling groups per region.

- ○ 10

Q42) Which of the following terms describes a grouping of AWS data centers?

- ✅ Availability Zone

Explanation:-An AWS Availability Zone (AZ) is one of two to five geographically separate zones contained within a region. An AZ includes one or more data centers.

- ○ Edge location
- ○ Data center
- ○ Region

Q43) Which of the following is necessary to make a secure SSH connection to a particular EC2 instance from the AWS console?

- ○ Secret access key
- ○ Password
- ○ Access key
- ✅ Key pair

Explanation:-When launching an EC2 instance, you are asked to create a key pair to ensure secure access to that instance.

Q44) When using Elastic Load Balancing, which statement is true?

- ✅ You can specify the port for monitoring with the classic load balancer.

Explanation:-You can specify the port or ports for health check monitoring with Elastic Load Balancing (ELB).

- ○ There is a limit of two ELB instances per AZ.
- ○ You do not assign security groups to an ELB but only to the EC2 instances it services.

Q45) Which of the following AWS connection methods can be used with an iOS bash shell?

- ○ Mobile
- ○ Restful API
- ✅ Command-line interface

Explanation:-The command-line interface is a utility that can be downloaded from the AWS website and used with various command-line shells.

- ○ Web-based console

Q46) Which of the following storage options for EC2 instances deletes the root volume configuration when you terminate the instance?

- ○ EFS backed
- ✅ Instance store backed

Explanation:-he instance store backed storage option has exceptionally low I/O latency, but it is ephemeral (that is, short-lived), which means the stored data will disappear when the instance is terminated. The EBS backed storage option also deletes the root volume by default, but you can choose to override the delete option at the time of termination.

- ○ EBS backed
- ○ Glacier backed

Q47)

Say that instance A and instance B are running in two different subnets, A and B, of a VPC. Instance A is not able to ping instance B.

What are two possible reasons for this? (Choose two.)

- ○ The policy linked to the IAM role on instance A is not configured correctly.
- ○ The NACL on subnet B does not allow outbound ICMP traffic.
- ✅ The security group attached to instance B does not allow inbound ICMP traffic.

Explanation:-This ping might fail due to a lack of routing information or due to the security group configuration. Identity and Access Management (IAM)would not prevent network traffic from passing, and an NACL on subnet B would have to prevent a ping in the inbound direction to cause the issue described here.

- ✅ The routing table of subnet A has no target route to subnet B.

Explanation:-This ping might fail due to a lack of routing information or due to the security group configuration. Identity and Access Management (IAM)would not prevent network traffic from passing, and an NACL on subnet B would have to prevent a ping in the inbound direction to cause the issue described here.

Q48) Which statement about the root account for your AWS infrastructure is correct?

- ○ The root account does not possess administrative power by default.
- ✅ The root account should rarely by used.

Explanation:-The AWS root/administrator account should only be used for occasional administrative tasks because this account has full

administrative access. After creating your AWS account, you should create additional user accounts and passwords with limited permissions using Identity and Access Management (IAM)and then use those accounts to gain access to various predetermined services.

- The root account is not created in a Free Tier account.
- The root account should be used for almost all functions.

Q49) Your company has an existing MySQL database that you would like to migrate to AWS. Which of the following AWS products would be the best choice for this scenario?

- SimpleDB
- ✅ RDS

Explanation:-Relational Database Service (RDS) is a good choice when migrating an existing database due to the fact that the migration will not require rewriting of code.
- DynamoDB
- SQS

Q50) When using the EC2 pay-as-you-go payment option, which of the following pricing schedules applies?

- Daily
- ✅ Hourly

Explanation:-The pay-as-you-go payment plan is billed on an hourly basis, but partial hours are billed for a full hour. Keep in mind that some instances have a per-second billing rate as well.
- By the minute
- Monthly

Q51) What type of queue is available in all regions with SQS?

- Limited throughput
- ✅ High throughput

Explanation:-The high throughput queue is available in all regions.
- First-in, first-out delivery
- Exactly-once processing

Q52) When creating an S3 bucket, which of the following must be considered when naming the bucket?

- The words in the bucket name must be separated by underscores.
- The bucket name must include at least one special character (for example, @, #,*).
- ✅ The bucket name must be globally unique.

Explanation:-AWS requires that all S3 bucket names be globally unique across all regions; in addition, bucket names must not include spaces between words.
- The bucket name must consist of both uppercase and lowercase letters.

Q53) What is the maximum object size that can be stored in an S3 bucket?

- 100 TB
- 1 TB
- ✅ 5 TB

Explanation:-You can store an unlimited number of objects in an S3 bucket, and the maximum size is 5 TB each.
- 100 GB

Q54) How can you move a running EC2 instance to another AZ in AWS?

- Take a snapshot of the EBS for the EC2 instance and migrate that.
- Use the ELB Service Migrate feature.
- Stop the instance and then migrate it; you cannot move running instances.
- ✅ Create an AMI from the running instance.

Explanation:-It is possible to moving a running instance to another Availability Zone (AZ), but you must first create an Amazon Machine Image (AMI) from this instance. That is then used to create another instance in another AZ.

Q55) What does S3 stand for?

- Storage Safe Support
- ✅ Simple Storage Service

Explanation:-S3 is simple object-based storage service in AWS. It was one of the first services ever offered by AWS.
- Storage Three Tier
- Save Stuff Simply

Q56) Your software architects want to be able to design apps for more platforms with less prep time. What service model might they be interested in?

- IaaS
- XaaS
- ✅ PaaS

Explanation:-Platform as a Service is often a goal of developers. PaaS permits developers to design and build apps for many different operating systems with few or no requirements for maintenance of the target systems.
- SaaS

Q57) AWS uses a Shared Responsibility model with its customers. What is an example of what AWS would be responsible for, according to this model?

⚪ Encrypting communications between EC2 and ELB
⚪ Security patching ELB
✅ Anti-spoofing

Explanation:-Customer responsibility is based on the AWS cloud services that a customer selects. The services determine the amount of configuration work the customer must perform as part of security responsibilities. For example, services such as Elastic Compute Cloud (EC2), Amazon Virtual Private Cloud (VPC), and Amazon S3 are categorized as Infrastructure as a Service (IaaS) and, as such, require the customer to perform all the necessary security configuration and management tasks.

⚪ Least privilege concept surrounding an EC2 instance

Q58) What is the first action that Elastic Load Balancing takes in the event of an EC2 instance failure?

⚪ It removes one of the instances.
⚪ It attempts to repair the instance.
⚪ It adds another instance.
✅ It stops sending traffic to the failed instance.

Explanation:-In the event of an EC2 instance failure, Elastic Load Balancing reroutes and distributes traffic evenly between healthy active instances until the failed instance is back up and running correctly.

Q59) _____ workloads are ideal for reserved instance pricing.

✅ Fixed and predictable

Explanation:-Reserved instance pricing is an excellent choice when workloads are fixed and predictable.

⚪ Disk-intensive
⚪ Memory-intensive
⚪ Highly variable

Q60) How can you perform custom actions when instances launch or terminate as part of Auto Scaling?

⚪ Use Elastic Container Service
✅ Add lifecycle hooks

Explanation:-uto Scaling lifecycle hooks enable you to perform custom actions by pausing instances as Auto Scaling launches or terminates them. For example, while a newly launched instance is paused, you could install or configure software on it. Each Auto Scaling group can have multiple lifecycle hooks. However, there is a limit on the number of hooks per Auto Scaling group.

⚪ Use the Auto Scaling Automator
⚪ Use Lambda

Q61) What is the longest duration of a typical reserved instance contract?

⚪ 2 years
⚪ 1 year
⚪ 6 months
✅ 3 years

Explanation:-Reserved instance contracts can extend to three years.

Q62) Which is not a category for EC2 machine types?

⚪ Storage
⚪ Compute
⚪ Memory
✅ AI

Explanation:-AI is not a specific category of machine types.