

Q1) What is the default duration of time that CloudFront will keep files at Edge Locations?

- ☐ 48 hours
- ☐ 12 hours
- ☒ 24 hours

Explanation:-By default, if no cache control header is set, each Edge Location checks for an updated version of your file whenever it receives a request more than 24 hours after the previous time it checked the origin for changes to that file. This is called the "expiration period." You can set this expiration period to be as short as 0 seconds or as long as you'd like by setting the cache control headers on your files in your origin. Amazon CloudFront uses these cache control headers to determine how frequently it needs to check the origin for an updated version of the file. For an expiration period set to 0 seconds, Amazon CloudFront will revalidate every request with the origin server. If your files don't change very often, it is best practice to set a long expiration period and implement a versioning system to manage updates to your files.

- ☐ 6 hours

Q2) Which of the following statements regarding S3 is correct?

- ☐ Objects have a minimum size of 10 MB.
- ☐ Objects have a maximum size of 2 GB
- ☐ Buckets have a maximum size of 10 TB.
- ☒ BitTorrent is supported.

Explanation:-BitTorrent support exists in S3.

Q3) At what point can you encrypt an EBS volume in the management console?

- ☐ After it is stopped
- ☐ After it has been resized
- ☐ After its creation
- ☒ During its creation

Explanation:-You can create a new EBS volume in the management console and encrypt it at that time.

Q4) What is the minimum size for a provisioned IOPS volume?

- ☐ 50 GB
- ☒ 4 GB

Explanation:-The supported volume size for a provisioned IOPS volume is 4 GB to 16 TB.

- ☐ 1 GB
- ☐ 500 GB

Q5) What AWS service is designed to run containers?

- ☐ S3
- ☒ ECS

Explanation:-Amazon Elastic Container Service (ECS) is a highly scalable, high-performance container orchestration service that supports Docker containers and allows you to easily run and scale containerized applications on AWS. Amazon ECS eliminates the need for you to install and operate your own container orchestration software, manage and scale a cluster of virtual machines, or schedule containers on those virtual machines.

- ☐ Glacier
- ☐ Lambda

Q6) Which is not a metric that is being monitored by default for your EC2 instances?

- ☐ Disk
- ☒ Memory

Explanation:-Checking the Monitoring tab for your instance in EC2 reveals CPU, disk, and network metrics. Remember, you can add additional metrics through CloudWatch.

- ☐ Network
- ☐ CPU

Q7) What HTTP code indicates a successful upload to S3?

- ☐ 400
- ☒ 200

Explanation:-A return code of 200 in HTTP indicates a successful S3 upload.

- ☐ 100
- ☐ 300

Q8) Which RAID type doubles the amount of storage that you require because a mirrored copy of data is recorded as well?

- ☐ RAID 4
- ☒ RAID 1

Explanation:-RAID 1, or mirroring, makes a complete mirror of the source volume.

- ☐ RAID 0
- ☐ RAID 5

Q9)

You want to assign project information to each EC2 instance that belongs to a special research project you are conducting in your department.

What is the recommended method for this in AWS?

- ☐ Use a placement group
- ☐ Use custom metadata
- ☒ Use tags

Explanation:-Tags enable you to categorize your AWS resources in different ways, such as by purpose, owner, or environment. This is useful when you have many resources of the same type: You can quickly identify a specific resource based on the tags you've assigned to it. Each tag consists of a key and an optional value, both of which you define. For example, you could define a set of tags for your account's Amazon EC2 instances that helps you track each instance's owner and stack level. AWS recommends that you devise a set of tag keys that meets your needs for each resource type. Using a consistent set of tag keys makes it easier for you to manage your resources. You can search and filter the resources based on the tags you add.

- ☐ Use user data

Q10) What is the size of the CIDR block you are permitted in an AWS VPC?

- ☐ /14 to /24
- ☐ /4 to /8
- ☒ /16 to /28

Explanation:-When you create a VPC, you must specify an IPv4 CIDR block for the VPC. The allowed block size is between a /16 netmask (65,536 IP addresses) and a /28 netmask (16 IP addresses). After you've created your VPC, you can associate secondary CIDR blocks with the VPC.

- ☐ /24 to /28

Q11) What two services are options for use with a Web Application Firewall in AWS? (Choose two.)

- ☐ EC2
- ☒ CloudFront

Explanation:-AWS Web Application Firewall (WAF) can be deployed on Amazon CloudFront and the Application Load Balancer (ALB). As part of Amazon CloudFront, it can be part of your content distribution network (CDN), protecting your resources and content at the Edge Locations, and as part of the Application Load Balancer, it can protect your origin web servers running behind the ALBs.

- ☐ Kinesis
- ☒ Application Load Balancer

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Q12) What are two components of an AWS VPN connection? (Choose two.)

- ☐ Internet gateway
- ☒ Customer gateway
- ☐ Peering connection
- ☒ Virtual private gateway

Q13) You have a customer expecting massive IOPS needs (15,000 IOPS) in a critical business application. What type of storage should you consider?

- ☐ Turbo IOPS
- ☒ Provisioned IOPS

Explanation:-Provisioned IOPS can support up to 20,000 IOPS.

- ☐ Optimized networking
- ☐ SSD

Q14) Which of the following methods is a valid way to encrypt an existing EBS volume?

- ☒ Create a snapshot of the unencrypted volume, copy the snapshot and encrypt it, and restore the snapshot to a new EBS volume

Explanation:-There is no direct way to encrypt an unencrypted EBS volume. You can use the encryption property of a snapshot, however, in order to encrypt the volume in an indirect way.

- ☐ None of the above; EBS volumes do not support encryption
- ☐ Export the volume with the encryption flag set
- ☐ Mark the volume as encrypted in the management console

Q15) What does AWS use when you copy an instance store-backed AMI to a different region?

- ☐ Glacier
- ☐ EBS
- ☒ S3

Explanation:-When you copy an instance store-backed Amazon Machine Image (AMI) to a region, you create an Amazon S3 bucket for the AMIs copied to that region. All instance store-backed AMIs that you copy to that region are stored in this bucket. The bucket names have the format amis-for-account-in-region-hash (for example, amis-for-123456789012-in-us-east-2-yhjmxvp6).

- ☐ EFS

Q16) Our organization is currently doing work in the area of big data. Your research team needs timely, low-latency access to some of the data, but the bulk of the data can remain in an archive-like storage location at rest. What type of solution should you design?

- ☐ Storage Gateway with a file gateway
- ☒ Storage Gateway with a cached volume

Explanation:-In this case, the storage gateway with a cached volume solution is ideal. Storage Gateway is an easy-to-implement tool to assist you in using a hybrid storage solution of local storage combined with cloud-based storage. The cached volume type permits the caching of frequently accessed data on site, with the bulk of data residing in the cloud.

- ☐ Storage Gateway with a stored volume
- ☐ Storage Gateway with a tape gateway

Q17) You would like to perform some penetration testing of your S3 storage architecture in AWS. How can you do this?

- ☐ You cannot pen test against AWS
- ☐ By setting the parameter to testing in AWS
- ☐ By setting the parameter to non-production in AWS
- ☒ By obtaining permission from AWS

Explanation:-Penetration testing is supported in AWS, but you must obtain permission first.

Q18) What is an example of a previous-generation instance?

- ☐ f1.16xlarge
- ☐ m3.medium
- ☒ t1.micro

Explanation:-Amazon Web Services offers previous-generation instances for users who have optimized their applications around those instances and have yet to upgrade. Note that t2.micro is a current-generation instance type.

- ☐ d2.xlarge

Q19) What is AWS Directory Service built with?

- ☒ AD

Explanation:-AWS Directory Service for Microsoft Active Directory, also known as AWS Microsoft AD, enables your directory-aware workloads and AWS resources to use managed Active Directory in the AWS cloud. AWS Microsoft AD is built on Microsoft Active Directory and does not require you to synchronize or replicate data from your existing Active Directory to the cloud. You can use standard Active Directory administration tools and take advantage of built-in Active Directory features, such as Group Policy and single sign-on (SSO).

- ☐ NTFS
- ☐ NFS
- ☐ SD

Q20) You need to move an EBS volume into a new AZ. How is this done?

- ☐ Use the EBS move option at the CLI
- ☐ Create a new volume in the target AZ and map it to the source volume
- ☒ Use a snapshot to create the volume in the new AZ

Explanation:-Snapshots allow you to create copies of volumes in other Availability Zones.

- ☐ Use the EBS move option in the management console

Q21) Where are your subnets located in AWS?

- ☐ S3
- ☐ EC2
- ☒ VPC

Explanation:-Your subnets are part of your Virtual Private Clouds.

- ☐ Route 53

Q22) Say that you would like a private high-speed connection from your data center to your AWS VPC. What is this service called in AWS?

- ☐ Private Link
- ☐ Storage Gateway
- ☒ Direct Connect

Explanation:-AWS Direct Connect makes it easy to establish a dedicated network connection from your premises to AWS. Using AWS Direct Connect, you can establish private connectivity between AWS and your data center, office, or colocation environment, which in many cases can reduce your network costs, increase bandwidth throughput, and provide a more consistent network experience than Internet-based connections.

- ☐ Kinesis

Q23) What type of consistency do you get in S3 with an overwrite PUT?

- ☐ Read after write
- ☒ Eventual

Explanation:-Read after write consistency exists for the PUT of new objects. For a PUT overwrite, you get eventual consistency.

- ☐ Immediate
- ☐ Timed

Q24) Which statement is true regarding dedicated instances versus dedicated hosts?

- ☐ There is a performance advantage to dedicated hosts.
- ☐ There is a reliability advantage to dedicated hosts.
- ☒ There is a visibility advantage to dedicated hosts.

Explanation:-Dedicated hosts and dedicated instances can both be used to launch Amazon EC2 instances onto physical servers that are dedicated for your use. There are no performance, security, or physical differences between dedicated instances and instances on dedicated hosts. However, dedicated hosts give you additional visibility and control over how instances are placed on a physical server.

- ☐ There is a security advantage to dedicated hosts.

Q25) What Route 53 concept is the same as in a traditional DNS zone file?

- ☐ Edge Location
- ☐ Record set
- ☒ Hosted zone

Explanation:-Domain is a general DNS concept. Domain names are easily recognizable names for numerically addressed Internet resources. For example, amazon.com is a domain. Hosted zone is an Amazon Route 53 concept. A hosted zone is analogous to a traditional DNS zone file; it represents a collection of records that can be managed together and that belong to a single parent domain name.

- ☐ Domain

Q26) What service is an Edge Location designed to be used with?

- ☐ Route 53
- ☐ Firehose
- ☒ CloudFront

Explanation:-Amazon CloudFront is a content distribution network, also called a content delivery network (CDN), which is a large distributed system of servers deployed in multiple data centers around the world. The location of the data center used for CDN is called an Edge Location. Amazon CloudFront can cache static content at each Edge Location. This means that your popular static content (for example, your site's logo, navigational images, cascading style sheets, JavaScript code) will be available at a nearby Edge Location for the browsers to download with low latency and improved performance for viewers. Caching popular static content with Amazon CloudFront also helps you offload requests for such files from your origin server. CloudFront serves the cached copy when available and makes a request to your origin server only if the Edge Location receiving the browser's request does not have a copy of the file.

- ☐ Kinesis

Q27) What is the default limit on the number of subnets you may have per VPC?

- ☐ 30
- ☐ 100
- ☒ 200

Explanation:-The default limit placed on the number of subnets in a VPC is 200.

- ☐ 10

Q28) What technology is not fully supported by Route 53?

- ☐ Load sharing
- ☒ DNSSEC

Explanation:-Amazon Route 53 does not support DNSSEC for DNS at this time. But Amazon Route 53 allows DNSSEC on domain registration.

- ☐ IPv4
- ☐ IPv6

Q29) What does AWS recommend for creating an IPv4 outbound-only network component?

- ☐ Egress-only Internet gateway
- ☐ Private gateway
- ☒ NAT gateway

Explanation:-An egress-only Internet gateway is for use with IPv6 traffic only. To enable outbound-only Internet communication over IPv4, you use a NAT gateway instead.

- ☐ Client gateway

Q30) What AWS S3 storage class features a slight reduction in availability?

- ☐ EFS
- ☒ IA

Explanation:-The storage classes of S3 are standard, infrequent access, and Glacier. Infrequent access (IA) offers slightly reduced availability, which saves money for data that you access less frequently.

- ☐ Standard
- ☐ IOPS

Q31) What model of pricing is correct for Route 53?

- ☒ Pay-as-you-use

Explanation:-Amazon Route 53 charges are based on actual usage of the service for hosted zones, queries, health checks, and domain names. You pay only for what you use. There are no minimum fees, no minimum usage commitments, and no overage charges.

- ☐ Overage charging
- ☐ Minimum setup fee

- Minimum usage fee

Q32) Your customers are concerned about S3 storage limitations on some key buckets they are creating. Why should they not be concerned about this?

- AWS can offload additional storage to Dropbox if Dropbox is hosted on AWS.
- They can always create additional buckets.
- There is a bucket maximum size, but there is no limit on the number of buckets.
- ✔ There is no limit to the amount of storage for S3.

Explanation:-There is no limit to storage amounts in S3.

Q33) Which of the following storage mechanisms can be used to store messages effectively across distributed systems?

- EBS
- ✔ SQS

Explanation:-Amazon Simple Queue Service (SQS) offers a reliable, highly scalable hosted queue service for storing messages as they travel between applications or microservices. It moves data between distributed application components and helps you decouple these components.

- Glacier
- S3

Q34) What service permits you to create group accounts that can represent users in your corporation?

- WAF
- EC2
- ✔ IAM

Explanation:-AWS Identity and Access Management (IAM) is a web service for securely controlling access to AWS services. With IAM, you can centrally manage users, security credentials such as access keys, and permissions that control which AWS resources users and applications can access.

- S3

Q35) As part of the Shared Responsibility model of security, what would be a responsibility of AWS when it comes to data storage?

- Ensuring the use of HTTPS when transferring data
- Setting encryption on S3 data at rest
- Setting encryption on EBS data at rest
- ✔ Eliminating all data from an unused SSD

Explanation:-AWS is responsible for physical security controls, including wiping data from decommissioned hardware devices.

Q36) Which is not a storage mechanism designed for frequent data access?

- EBS
- ✔ Glacier

Explanation:-Glacier is for data archiving and is not designed for frequent access.

- S3
- EFS

Q37) Which statement about EBS snapshots is true?

- The snapshot does not include AWS Marketplace codes.
- Snapshots taken of encrypted volumes are not automatically encrypted.
- You cannot take a snapshot of a mounted volume.
- ✔ Before taking a snapshot of a root volume, stop the running instance.

Explanation:-You can take a snapshot of a volume in use, including the root volume. It is recommended that you stop any running instance on the volume before you do so, however.

Q38) You have just created a new default subnet in your VPC. What is the size of this new default subnet?

- /28
- ✔ /20

Explanation:-When you create a default subnet, it is created with a size /20 IPv4 CIDR block in the next available contiguous space in your default VPC.

- /12
- /24

Q39) You need to store a database for an EC2 instance. If you are unsure of your exact performance needs, what is a good choice initially?

- Glacier
- S3
- EFS
- ✔ EBS

Explanation:-f you are unsure of exact storage performance and scale, start with EBS.

Q40) Which two statements about subnets in VPCs are correct? (Choose two.)

☒ A VPC subnet maps to a single AZ.

Explanation:-After their creation, by default, all subnets in a VPC can route traffic between each other. Each subnet in a VPC maps to a single AZ of the region.

☒ By default, all VPCs can route traffic to each other.

Explanation:-After their creation, by default, all subnets in a VPC can route traffic between each other. Each subnet in a VPC maps to a single AZ of the region.

☐ You cannot create new public subnets, only private ones.

☐ A VPC contains only one entry and one exit point.

Q41) What data transfer option permits the use of external USB drives?

☐ Snowball Express

☐ EBS transfer

☒ Import/Export

Explanation:-The legacy Import/Export service permits you to use your own USB drives.

☐ Storage Gateway

Q42) Which of these options is not a valid reason to add additional virtual network interfaces to your EC2 instance?

☐ To create dual-homed instances with workloads/roles on distinct subnets

☒ To create a clustered group of compute resources with the lowest possible latency in AWS

Explanation:-Attaching multiple network interfaces to an instance is useful when you want to create a management network, use network and security appliances in your VPC, create dual-homed instances with workloads/roles on distinct subnets, and create a low-budget, high-availability solution.

☐ To create a management network

☐ To use network and security appliances in your VPC

Q43)

What is the instance option that permits you to run on specific hardware?

You might use this option, for example, in special software licensing situations to bring your own license.

☐ Placement group

☒ Dedicated host

Explanation:-An Amazon EC2 dedicated host is a physical server with EC2 instance capacity fully dedicated to your use. Using dedicated hosts allows you to use your existing per-socket, per-core, or per-VM software licenses, including Windows Server, Microsoft SQL Server, SUSE, Linux Enterprise Server, and so on.

☐ Hardware reservation

☐ Dedicated instance

Q44)

You have been asked to design an S3 infrastructure for your AWS implementation. You must ensure that you protect against accidental object deletions due to overwrites.

What two mechanisms should you consider implementing? (Choose two.)

☐ Object lifecycle

☐ Server access logging

☒ Versioning

Explanation:-Both versioning and multifactor authentication (MFA) can assist with protecting against accidental object deletions due to overwrites. Versioning does this directly as you can easily retrieve a deleted or overwritten file. Multifactor authentication does this indirectly as an unauthorized user cannot delete content as easily.

☐ Website hosting

☒ MFA

Explanation:-Both versioning and multifactor authentication (MFA) can assist with protecting against accidental object deletions due to overwrites. Versioning does this directly as you can easily retrieve a deleted or overwritten file. Multifactor authentication does this indirectly as an unauthorized user cannot delete content as easily.

Q45) Which of the following services uses key pairs for access?

☐ ELB

☒ CloudFront

Explanation:-A key pair consists of a public key and private key, where you use the private key to create a digital signature, and then AWS uses the corresponding public key to validate the signature. Key pairs are used only for Amazon EC2 and Amazon CloudFront.

☐ Kinesis

☐ SDKs

Q46) The AWS storage gateway feature can provide all except which of the following?

☐ Gateway cached volumes

☐ Gateway stored volumes

☐ Virtual tape volumes

☒ A model for on-premises only access

Explanation:-The storage gateway feature seeks to share data access and storage between on-premises and cloud locations. Some models cover caching, shared storage, and virtual tape.

Q47) How can you create a mirror of an EC2 instance in another region?

- ☐ Use an EBS volume for storage that is located in both regions
- ☐ Create an account in the new region, and your EC2 instances are duplicated there
- ☒ Create an AMI for the EC2 instance and copy it to the new region

Explanation:-To launch an EC2 instance, you must have an Amazon Machine Image (AMI) in that region. If the AMI is not available in that region, you need to create a new AMI or use the copy command to copy the AMI from one region to the other region.

- ☐ Use the cross-region EC2 replication feature

Q48) What technologies can you combine with S3 in order to help guard against accidental deletion of objects? (Choose two.)

- ☐ Replication
- ☒ Versioning

Explanation:-AWS recommends multifactor authentication (MFA) and versioning as methods for guarding against accidental or even malicious deletions of objects.

- ☐ Logging
- ☒ MFA

Explanation:-AWS recommends multifactor authentication (MFA) and versioning as methods for guarding against accidental or even malicious deletions of objects.

Q49) You create a bucket named mytest123-a in the us-west-1 region. What is the URL?

- ☐ <http://s3-us-west-1.amazonaws.com/mytest123-a>
- ☐ <http://mytest123-a.s3.amazonaws.com>
- ☒ <http://mytest123-a.s3-us-west-1.amazonaws.com>

Explanation:-The correct format is <http://bucket.s3-aws-region.amazonaws.com>.

- ☐ <http://s3-us-west-1.mytest123-a.amazonaws.com>

Q50) Which two are pillars in the AWS well-architected framework? (Choose two.)

- ☒ Performance efficiency

Explanation:-The five pillars of the AWS Well-Architected Framework are (1) operational excellence, (2) security, (3) reliability, (4) performance efficiency, and (5) cost optimization.

- ☐ Validity
- ☒ Reliability

Explanation:-The five pillars of the AWS Well-Architected Framework are (1) operational excellence, (2) security, (3) reliability, (4) performance efficiency, and (5) cost optimization.

- ☐ Agility

Q51) How many S3 buckets can your AWS root account contain, by default?

- ☐ 200
- ☐ 50
- ☒ 100

Explanation:-By default, customers can provision up to 100 buckets per AWS account. However, you can increase your Amazon S3 bucket according to the AWS Service Limits.

- ☐ 20

Q52) Which of the following is true regarding an instance store for EC2?

- ☐ It is automatically saved in S3.
- ☐ It can be sized at launch.
- ☐ It is persistent.
- ☐ It is the new default storage.
- ☒ It is considered legacy for EC2 root volumes.

Explanation:-EBS volumes are the new default for root volumes in EC2.

Q53) Which two security resources do you use in a VPC in order to secure traffic? (Choose two.)

- ☒ Network access control lists

Explanation:-Security groups and network ACLs both permit you to control traffic within and to and from a VPC.

- ☐ VLAN access control lists
- ☒ Security groups

Explanation:-Security groups and network ACLs both permit you to control traffic within and to and from a VPC.

- ☐ Virtual IPSs (VIPs)

Q54) Which is not considered a class of S3?

- ☐ RRS
- ☐ IA
- ☒ EFS

Explanation:-Elastic File System (EFS) is not part of S3.

- Glacier

Q55) Which AWS storage technology would permit you to attach many clients simultaneously?

- DDS
- ✓ EFS

Explanation:-Elastic File System (EFS) permits the mounting of many different clients simultaneously. The volume grows as needed.

- EBS
- DIS

Q56) You need a fast, scalable, cloud-based AWS relational database. What should you use?

- ElastiCache
- ✓ RDS

Explanation:-RDS is the relational database service in AWS.

- DynamoDB
- Neptune

Q57) Why might you engage in a striping configuration (RAID 0) with your data storage in AWS?

- To increase redundancy
- To eliminate the need for backups
- To log access
- ✓ To increase performance

Explanation:-RAID 0 (striping) can be used to increase performance in your data storage.

Q58) Where is your EC2 instance placed if you accept the default just after creating your AWS account?

- Classic network
- The admin VPC
- The root VPC
- ✓ The default VPC

Explanation:-A default VPC is created by AWS for your new account. Your initial EC2 instances are automatically placed there.

Q59) Which statement below about S3 is false?

- By default, the creator of a bucket has full access to the bucket.
- ✓ S3 bucket names must be unique to a region.

Explanation:-S3 bucket names must be globally unique because S3 buckets are a global resource.

- Bucket contents can be made globally available.
- S3 buckets can be secured with ACLs or a policy.

Q60) When you are evaluating S3 storage needs for a customer using AWS, which of the following should you should consider?

- Number of customers
- Size of individual objects
- ✓ Number of requests per second

Explanation:-Due to the scalable and flexible nature of S3, you should consider the number of requests per second anticipated. This is far more important than things like bucket size and object size since these are flexible with S3.

- Total size of the required bucket

Q61)

You need to ensure that data stored in S3 is automatically written to independent data centers that are geographically far apart.

What should you do?

- Use Glacier as the storage mechanism for S3 data
- ✓ Create an S3 bucket in the appropriate region

Explanation:-Creating an S3 bucket in the appropriate region causes AWS to automatically write data to at least two separate facilities in different availability zones.

- Create the bucket in multiple regions and configure cross-region replication
- Use EFS instead of S3

Q62) Which of the following is not an access control you would feature with S3?

- Query string authentication
- IAM policy
- Bucket policy
- Encryption
- ✓ Network ACL

Explanation:-All the mechanisms listed here except for the use of a network ACL are common security practices for S3.

Q63) What is the maximum IOPS per volume when you use a provisioned IOPS EBS volume?

- 500
- ✓ 20000

Explanation:-The maximum IOPS per volume is 20,000 with this volume type.

- 10000
- 250

Q64) Which of the following AWS services relies on a key/value store approach?

- SNS
- SQS
- ✓ S3

Explanation:-S3 is an example of a key/value storage approach. Objects are the values, and they are referenced by a key. Other examples of key/value stores includes ElastiCache and DynamoDB databases.

- SWS

Q65) You delete an AWS S3 bucket and all of the objects inside it. Which statement is true?

- The bucket name is now reserved for you.
- You cannot reuse the bucket name.
- The bucket name is always available with a -01 suffix.
- ✓ You can create a new bucket with that name as long as no other S3 customer has now taken the name.

Explanation:-The bucket name must be globally unique. You can use the name of a bucket that you deleted if it has not been taken by someone else.
