

Questions on AWS S3

1. What is AWS S3

- Amazon S3 is easy-to-use object storage with a simple web service interface that you can use to store and retrieve any amount of data from anywhere on the web.
- Also allows you to pay only for the storage you actually use.

2. Common use cases for Amazon S3

- Backup and archive for on-premises or cloud data
- Content, media and software storage and distribution.
- Big data analytics
- Static website hosting
- Cloud-native mobile & internet
- Application hosting
- Disaster recovery

3. By default how many buckets can be created in AWS account.

- We can create up to 100 buckets in each of our AWS accounts. We can increase our bucket limit by submitting a service limit increase.

4. Difference between Static Website and Dynamic Website.

Static Website	Dynamic Website
Content of Web pages can not be change at runtime.	Content of Web pages can be changed.
No interaction with database possible.	Interaction with database is possible
It is faster to load as compared to dynamic website.	It is slower than static website.
HTML, CSS, Javascript is used for developing the website.	Server side languages such as PHP, Node.js are used.
Same content is delivered everytime the page is loaded.	Content may change everytime the page is loaded.

5. List Classes of Amazon S3 storage

- Amazon S3 Standard
- Amazon S3 Intelligent - Tiering
- Amazon S3 Standard – Infrequent Access
- Amazon S3 One Zone – Infrequent Access
- Amazon S3 Glacier Instant Retrieval
- Amazon S3 Glacier Flexible Retrieval
- Amazon S3 Glacier Deep Archive
- Amazon S3 Outposts

6. What is Bucket Versioning ?

- Keeping the multiple forms of an objects in the same S3 bucket.
- Versioning can be used to retrieve, preserve and restore every version of an object in S3 bucket.

7. What is Static Website Hosting ?

- Static website delivers HTML, Java Script, image, video and other files to your website visitors.
- Static website are very low cost, provides high level of reliability require almost no IT administration.

8. What is Secure Socket Layer (SSL) ?

- Provides security to the data that is transferred between web browser and server.
- SSL encrypts the link between a web server and a browser which ensures that all data passed between them remain private and free from attack.

9. List Secure Socket layer protocols.

- SSL record Protocol
- Hand Shake Protocol
- Change- Cipher Spec Protocol
- Alert Protocol

10. What is Amazon S3 Replication?

- Amazon S3 Replication enables the replication of S3 objects by automatic, asynchronous copying of objects across Amazon S3 buckets.
- Data can be copied across different AWS accounts, as well as across different AWS Regions.

11. what is maximum size of s3 bucket?

- In S3 bucket you can store unlimited volume of data and number of objects. A single Amazon S3 objects can be a size of range 0 bytes to 5 terabytes.
- In single upload request You can put an object of around 5 GB but you must have to enable Multipart Upload capability.

12. What is Bucket Policy?

Bucket policies allow you to grant access permissions to objects within your bucket by using AWS IAM policies. A bucket policy can only be associated with the bucket owner. An owner of a bucket can assign permissions to any object in the bucket that is attached to the bucket.

13. What are the steps to encrypt a file in S3 ?

Its easy to encrypt a file in S3 bucket. While uploading a file using S3 management console, one can simply expand property option and choose if AWS Managed key should be used or Customer Managed key is to be used for file encryption. Consider if the file is already uploaded, one can easily navigate to properties of the file and enable encryption.

14. What is Requester Pays ?

- Bucket owners pays for all Amazon S3 storage and data transfer costs that are associated with their buckets.
- After enable requester pays bucket, the requester pays the cost of request and data download from bucket.

15. What is Server Access Logging ?

- Used to store logs of buckets. It Provides detailed records.

16. Different types of storages in AWS ?

- **S3 (Simple Storage Service)** – Used as storage cloud provided by AWS. Its charges for that what we use, it is object storage.
- **Elastic Block Storage (EBS)** – It comes with the instance, only connected instance can use this storage just like C or D drive in our system, it is block storage means used to install software.
- **Glacier** – Glacier is also Amazon S3 service which used to archive data for long-term at low cost.
- **Storage Gateway** – It is used to store our premises data to S3 and also keeps data locally.