

AWF - 10 2

(NOTE)

AWF S 3

Simple Storage Service

Agenda

- CRUD operations for storing any document
- Spring boot application.
- Create S3 Bucket.

AWS Storage Services

- Amazon Elastic Block Store
- Amazon Elastic File System
- Amazon S3 Glacier
- AWS Storage Gateway
- AWS S3 storage

→ Amazon S3 → Simple Storage Service
features

- Durable
- Flexible
- Scalable
- Cost Efficient

→ Scalable

→ Secure

→ Objects

It is the files you store in S3 with metadata about the file. (like type of file, version, description)

→ Containers

It is the S3 bucket which holds the objects

*) How to create folders on the go with spring boot app.

→ Versioning & Cross Region Replication

→ Versioning

You may use versioning to keep multiple versions of an object in one bucket

→ More - in S3

→ By Default Versioning is disabled

→ Prevents over writing or accidental deletion

→ Get non concurrent version by specifying

⇒ Cross Region Replications (CRR)

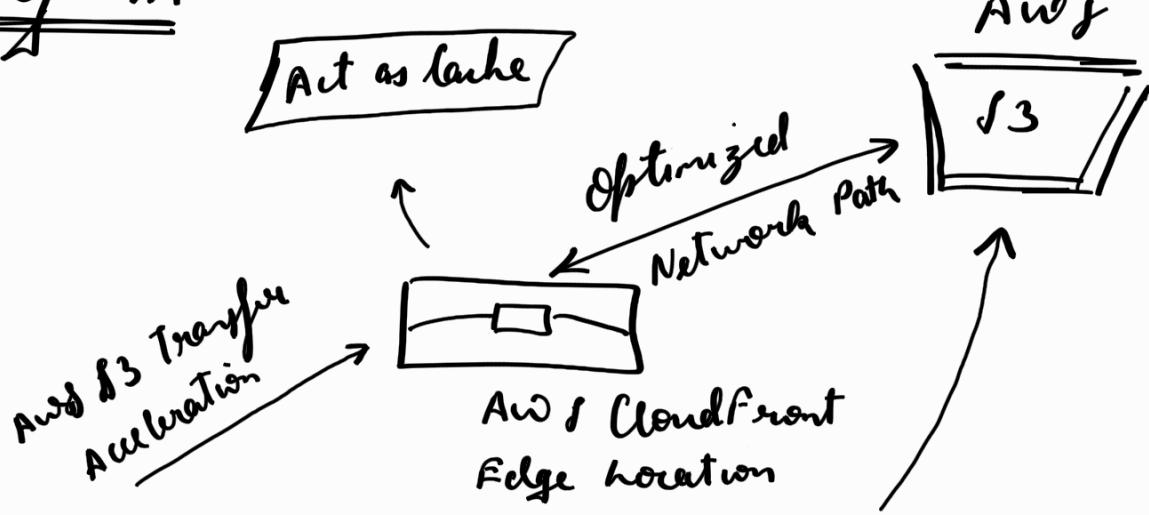
- Cross-Region Replications (CRR) enables automatic, asynchronous copying of objects cross bucket in different AWS Regions. Buckets configured for cross-region replication can be owned by the same AWS account or by different accounts.

* How CRR Rule in S3 can be enabled across different regions

→ S3 Data Transfer Acceleration (Prefex)

AWS S3 Transfer Acceleration enables fast, easy and secure transfers of files over long distances between your client and an S3 bucket.

Diagram





AWS S3 Direct upload

- Way to Enable Versioning, Replication, Transfer Acceleration
- Go to S3 console
- Select the bucket
- Go to 'Properties'
- Enable all the three options

* How to enable single person to do Cross operations on S3 bucket via Spring Boot.

⇒ 11 code Required 11 Done 11

→ Spring Boot applications with these features:

- List all files in the S3 bucket with meta data
- Specific file meta data with name
- Get specific file from S3
- Upload specific file in S3
- Update specific file in S3

→ Delete specific file in S3

→ Setup S3 with following features - Done //

→ 2 Replicas

→ Versioning enabled.

→ AWS transfer acceleration enabled.