

## AWF - 102

(NOTE)

### AWF S3

### 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

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→ 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)

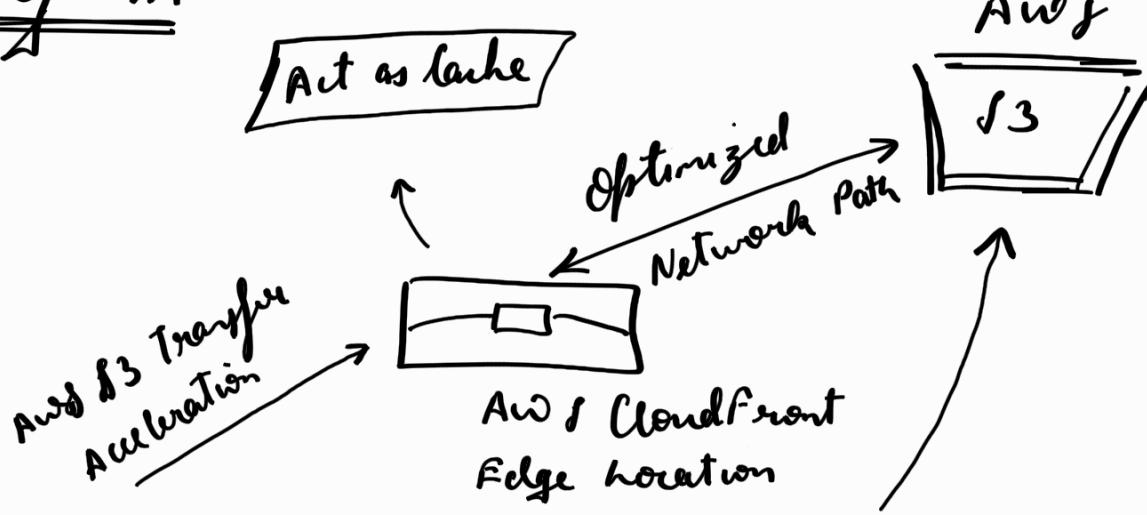
- Cross-Region Replications (CRR) enables automatic, asynchronous copying of objects cross bucket in different AWS Regions. Buckets configured for cross-region replication can be owned by the same AWS account or by different accounts.

\* 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.