AWS S3-2

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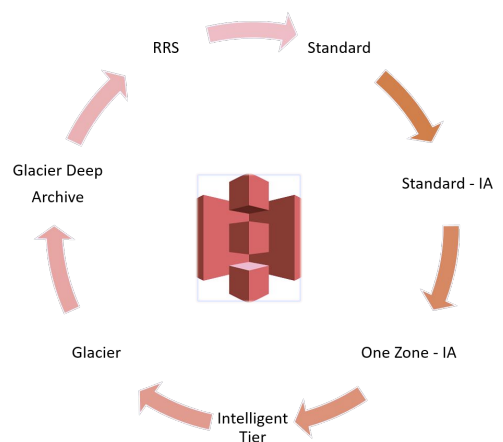# Lifecycle Management

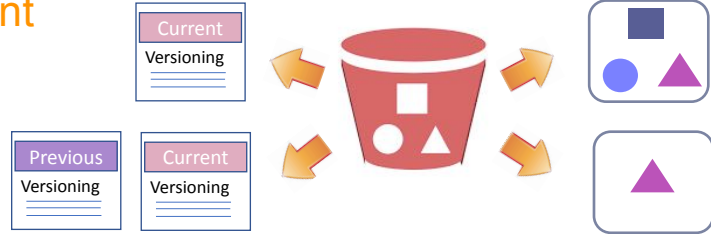---

Lifecycle Management
What is Lifecycle Management?

- Lifecycle management is to determine how an object will be subject to a storage policy during the time it is stored in S3.

- So, it is used to ;

  Transition objects to another storage class,

  Archive objects,

  Delete objects after a specified period of time.

RRS → Standard

Standard - IA

Glacier Deep Archive

One Zone - IA

Glacier

Intelligent Tier

Lifecycle Management

Lifecycle Management

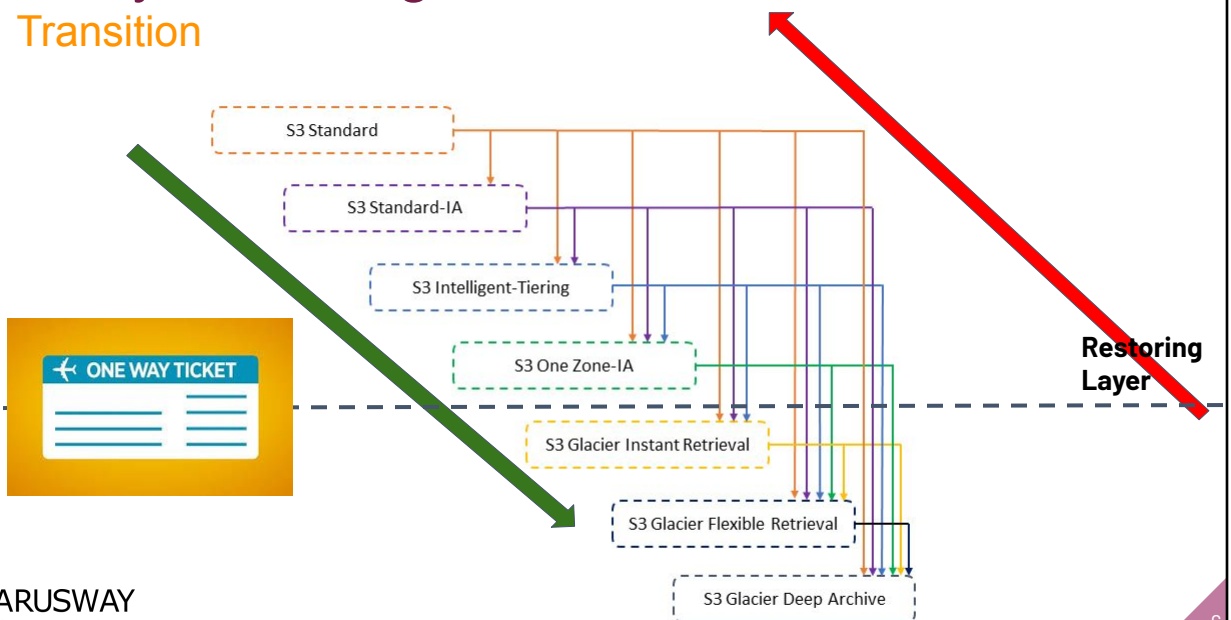- A lifecycle policy is bucket-base component.

- You can narrow Lifecycle Management by using a prefix

- Available for both current and previous
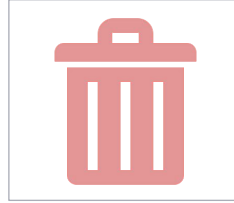
- Minimum days for transition
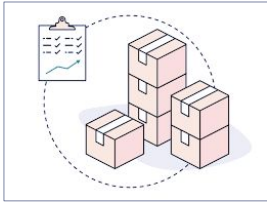

Lifecycle Management

Transition

S3 Standard

S3 Standard-IA

S3 Intelligent-Tiering

S3 One Zone-IA

S3 Glacier Instant Retrieval

S3 Glacier Flexible Retrieval

S3 Glacier Deep Archive

Restoring Layer

ONE WAY TICKET

Lifecycle Management

Advantage of Lifecycle Management

- It provides you to arrange your S3 inventory,

- You can save money by transition the objects to the cost-effective storage class,

- You can get rid of redundant objects,

Lifecycle Management

Enabling Lifecycle Management

Lifecycle Management Path

S3>Bucket> Management > Lifecycle>Add a Lifecycle Rule
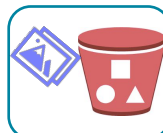
Bucket Replication

2

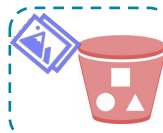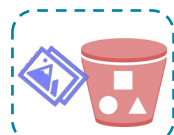
Bucket Replication
What is Bucket Replication?

Region-A

Availability Zone-1

Availability Zone-3

Availability Zone-2

Bucket Replication
What is Bucket Replication?

- Replication is to copy the objects in the buckets to another bucket in different region or in the same region.

- There are 2 types of replication in S3:

  - Cross-Region Replication (CRR) is used to copy objects in different AWS Regions

  - Same-Region Replication (SRR) is used to copy objects in the same AWS Region

Bucket Replication
Replication Features

- Keep the object's metadata while replicating

- Replicating in Different storage class

- Option of changing ownership of the replicated object

- Synchronizing within 15 minutes.

- Narrowing replication based on prefix or tag
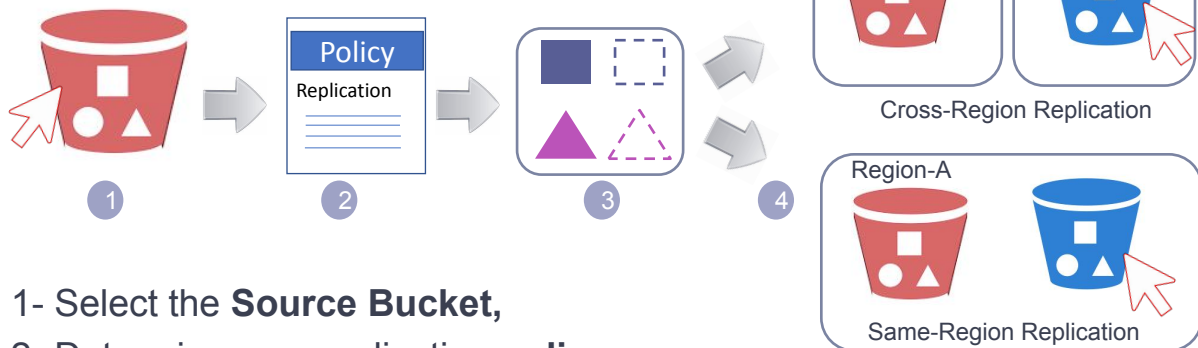
Bucket Replication
Why Replication?

- Compliance requirements
- Backup
- Minimize latency
- Aggregating related data into a single bucket.

Bucket Replication
How S3 Replication Works?

Region-A Region-B
Cross-Region Replication

Region-A
Same-Region Replication

Policy
Replication

1- Select the **Source Bucket,**
2- Determine your replication **policy,**
3- Select your data set by object **tag, prefix or entire bucket,**
4- Select the **Destination Bucket** in the same region or in different region.

Bucket Replication
Creating Bucket Replication

Bucket Replication Path
S3>Bucket> Management > Bucket Replication >Add a Rule

Lifecycle Management & Bucket Replication

Let's get our hands dirty!

- Enabling Lifecycle Management

- Creating Bucket Replication

THANKS!

Any questions?