

CASO PRÁCTICO 4

Redes y Computación en AWS

Tarea 1 (50 puntos): Creación del bucket, versionado y replicación entre regiones.

En esta tarea, creo el bucket mediante la consola de S3, asignándole en creación el “bucket versioning”.

The screenshot shows the AWS S3 console interface. The top navigation bar includes the 'Services' menu, a search bar, and the user's profile. The main content area is titled 'Amazon S3 > Buckets > learnerlab-case4-bucket'. Below the title, there are tabs for 'Objects', 'Properties' (selected), 'Permissions', 'Metrics', 'Management', and 'Access Points'. The 'Properties' tab displays the 'Bucket overview' section, which includes the following information:

| Property | Value |
|----------------------------|--|
| AWS Region | US East (N. Virginia) us-east-1 |
| Amazon Resource Name (ARN) | arn:aws:s3:::learnerlab-case4-bucket |
| Creation date | November 1, 2022, 12:18:17 (UTC+01:00) |

Below the overview, the 'Bucket Versioning' section is visible. It states: 'Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)'. There is an 'Edit' button. Below this, the 'Bucket Versioning' status is shown as 'Enabled'. The 'Multi-factor authentication (MFA) delete' status is shown as 'Disabled'.

Para habilitar la replicación entre regiones, creo un segundo bucket en otra región y lo incluyo como destino de las copias de seguridad del bucket creado anteriormente (el principal).

The screenshot shows the AWS S3 console interface. The top navigation bar includes the 'Services' menu, a search bar, and the user's profile. The main content area is titled 'Amazon S3 > Buckets > learnerlab-case4-bucket > Replication rules'. Below the title, there are tabs for 'Replication rules' (selected) and 'Replication jobs'. The 'Replication rules' tab displays the 'Replication configuration settings' section, which includes the following information:

| Property | Value |
|---------------|---------------------------------|
| Source bucket | learnerlab-case4-bucket |
| Source Region | US East (N. Virginia) us-east-1 |
| IAM role | LabRole |

Below the configuration settings, the 'Replication rules (1)' section is visible. It states: 'Use replication rules to define options you want Amazon S3 to apply during replication such as server-side encryption, replica ownership, transitioning replicas to another storage class, and more. [Learn more](#)'. There are buttons for 'View details', 'Edit rule', 'Delete', 'Actions', and 'Create replication rule'. Below this, a table lists the replication rules:

| Replication rule name | Status | Destination bucket | Destination Region | Priority | Scope | Storage class | Replica owner | Replication Time Control |
|-----------------------|---------|-------------------------------------|----------------------------|----------|---------------|----------------|----------------|--------------------------|
| DR-BackUp | Enabled | s3://learnerlab-case4-bucket-backup | US West (Oregon) us-west-2 | 0 | Entire bucket | Same as source | Same as source | Disabled |

Tarea 2 (50 puntos): Gestión del ciclo de vida de los objetos.

Tal y como se solicita, creo 2 reglas para la gestión del ciclo de vida de los objetos:

1. La primera regla mueve los objetos (todos) al Standard-IA después de 60 días de su creación:

Services

Search for services, features, blogs, docs, and more [Option+S]

VPC

RDS

S3

Amazon S3 > Buckets > learnerlab-case4-bucket > Lifecycle configuration > To-S3IA-60day

Edit

Delete

Actions

Lifecycle rule configuration

| | | |
|---------------------|-------------|---------------------|
| Lifecycle rule name | Prefix | Minimum object size |
| To-S3IA-60day | - | - |
| Status | Object tags | Maximum object size |
| Enabled | - | - |
| Scope | | |
| Entire bucket | | |

Review transition and expiration actions

| | |
|---|---|
| <div>Current version actions</div> <div>Day 0</div> <div>• Objects uploaded</div> <div>↓</div> <div>Day 60</div> <div>• Objects move to Standard-IA</div> | <div>Noncurrent versions actions</div> <div>Day 0</div> <div>• Objects become noncurrent</div> <div>↓</div> <div>Day 60</div> <div>• 0 newest noncurrent versions are retained</div> <div>• All other noncurrent versions move to Standard-IA</div> |
|---|---|

Delete expired object delete markers or incomplete multipart uploads

| | |
|-------------------------------|------------------------------|
| Expired object delete markers | Incomplete multipart uploads |
| - | - |

2. La segunda regla elimina todos los objetos (actuales y versiones) tras 365 desde su creación:

Services

Search for services, features, blogs, docs, and more [Option+S]

VPC

RDS

S3

Amazon S3 > Buckets > learnerlab-case4-bucket > Lifecycle configuration > Delete-365days

Edit

Delete

Actions

Lifecycle rule configuration

| | | |
|---------------------|-------------|---------------------|
| Lifecycle rule name | Prefix | Minimum object size |
| Delete-365days | - | - |
| Status | Object tags | Maximum object size |
| Enabled | - | - |
| Scope | | |
| Entire bucket | | |

Review transition and expiration actions

| | |
|---|--|
| <div>Current version actions</div> <div>Day 0</div> <div>• Objects uploaded</div> <div>↓</div> <div>Day 365</div> <div>• Objects expire</div> | <div>Noncurrent versions actions</div> <div>Day 0</div> <div>• Objects become noncurrent</div> <div>↓</div> <div>Day 365</div> <div>• 0 newest noncurrent versions are retained</div> <div>• All other noncurrent versions are permanently deleted</div> |
|---|--|

Delete expired object delete markers or incomplete multipart uploads

| | |
|-------------------------------|------------------------------|
| Expired object delete markers | Incomplete multipart uploads |
| - | - |