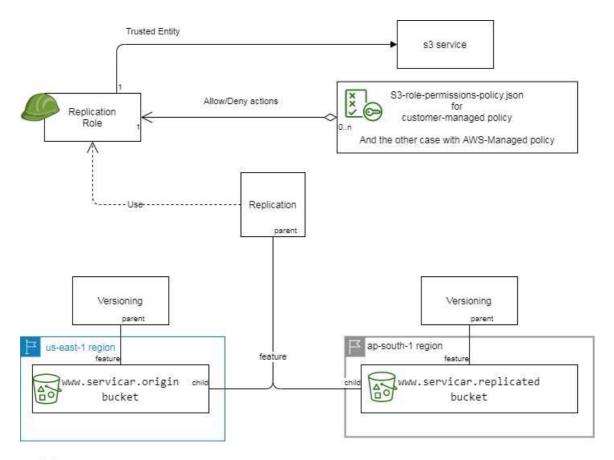
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### Purpose

General Idea of this lab is to have a control of information of your S3 bucket. The second lab show additional feature such as: Replication, Versioning and Role.



## Steps:

- 1. Create buckets and activate versioning feature.
- 2. Activate replication feature (implicit create a role for Web Console)

Lab 3B: Replication Bucket for S3.

## **Prerequisites**

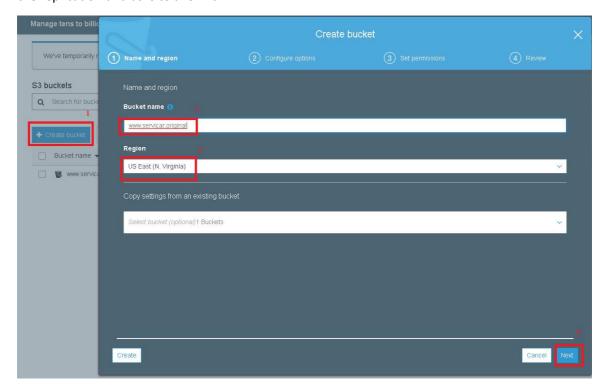
Labs1c1 have to be done and the context for Administrative user have to activated on Command Line Session.

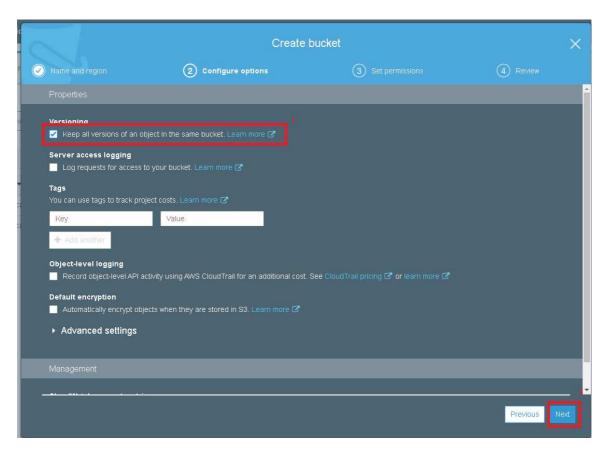
# Lab 3B: Cross-replication and versioning

## Lab 3B using Web Management Console

### Create the buckets

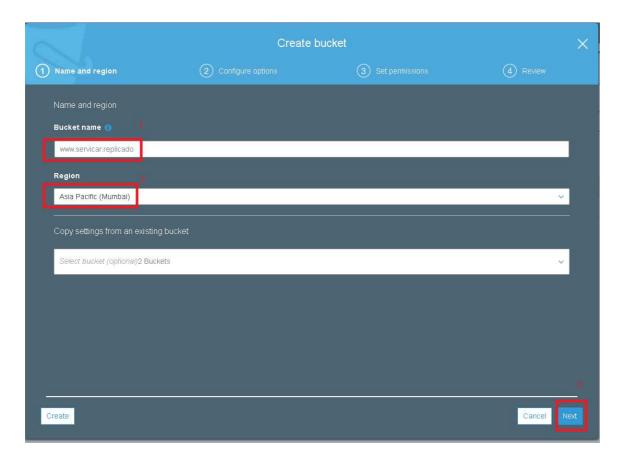
We recommend to create with versioning options done, however you can test how AWS forbidden the replication and asks to allow it.



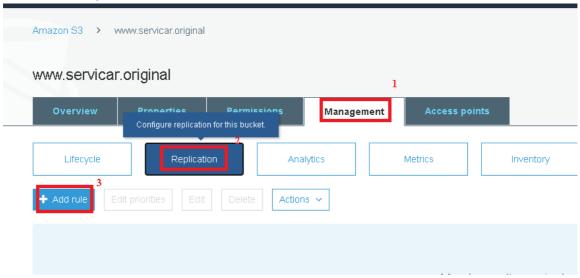


The permissions can be public or private, it works on the same way.

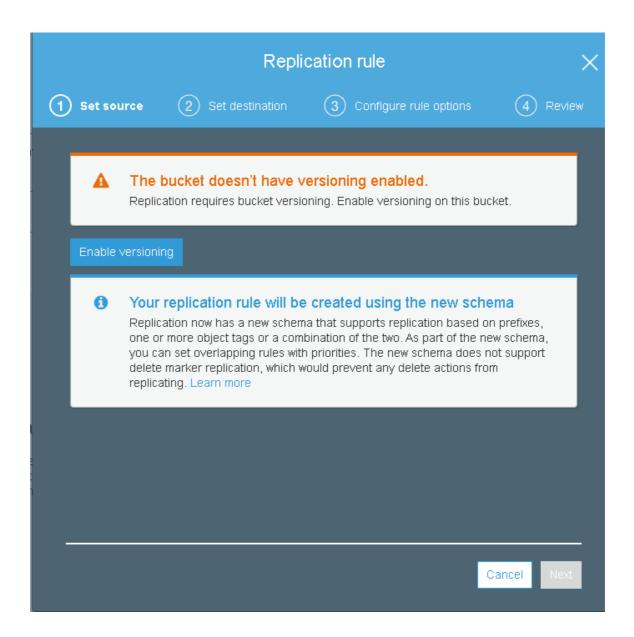
We will create the destination bucket.



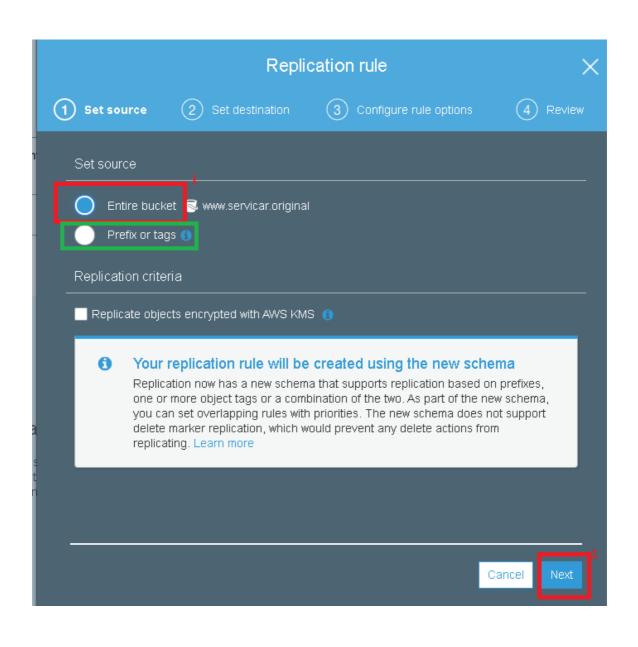
### Activate the replication feature on source bucket

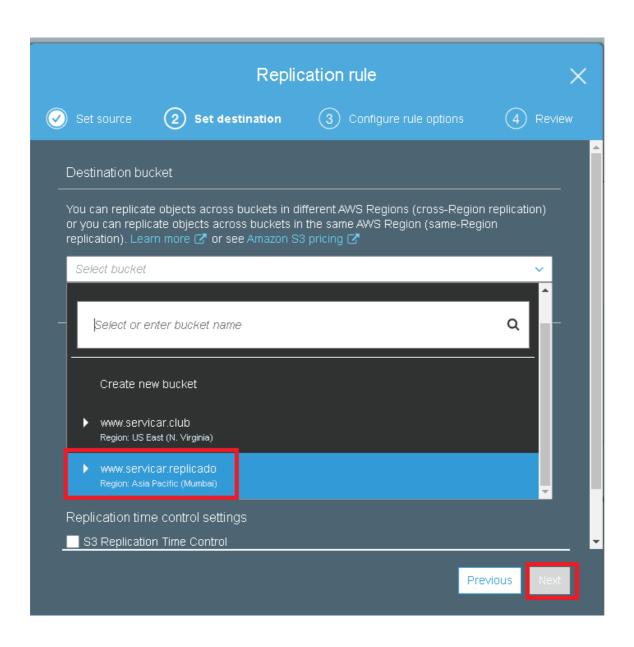


If you don't activate versioning on creation bucket for source bucket, AWS asks

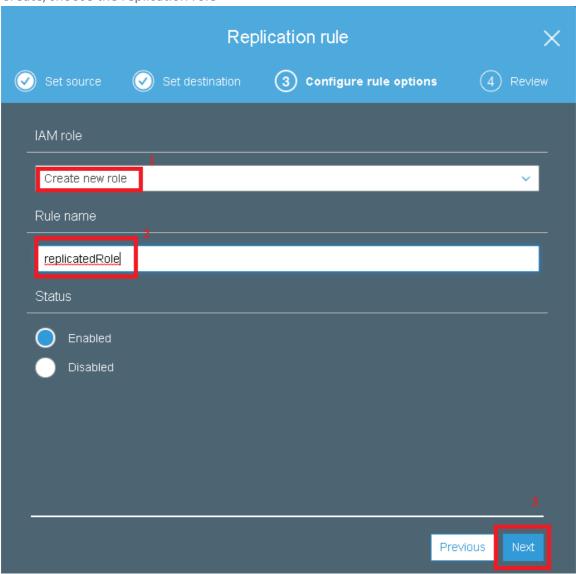


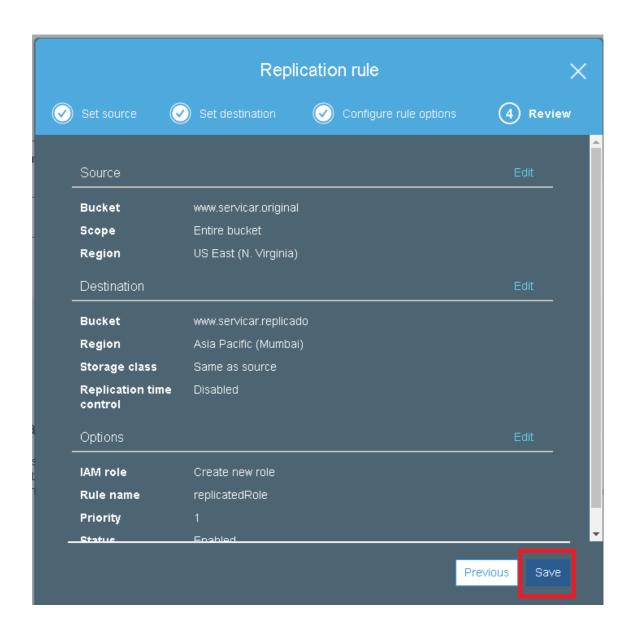
Otherwise,





Create/choose the replication role





#### Lab 3B using Command-Line (Windows)

### Create the buckets and able requirements (Versioning)

```
rem Definicion de nombres que sea DNS-Compliant Name
```

set SourceBucket=www.servicar.original

set DestinationBucket=www.servicar.replicado

rem Creacion de buckets y que tenga el versionamiento habilitados en ambos
aws s3api create-bucket --bucket %SourceBucket% --region us-east-1
aws s3api put-bucket-versioning --bucket %SourceBucket% --versioningconfiguration Status=Enabled

aws s3api create-bucket --bucket %DestinationBucket% --region ap-south-1 --create-bucket-configuration LocationConstraint=ap-south-1 aws s3api put-bucket-versioning --bucket %DestinationBucket% --versioning-configuration Status=Enabled

rem Crear un rol que tenga un alcance/Trusted Entity al servicio s3; y aplic
ar un rol que permite leer, escribir y duplicar en los buckets
aws iam create-role --role-name replicationRole --assume-role-policydocument file://s3-role-trust-policy.json
rem Copiar el ARN del Rol que se genero
rem Modificar el documento de permisos por rol para añadir el nombre de los
2 buckets
aws iam put-role-policy --role-name replicationRole --policydocument file://s3-role-permissions-policy.json --policyname replicationRolePolicy

```
P:\sit\BSG\MUS_SAM\Code\s3ci\CLI\aws ian create-role --role-name replicationRole --assume-role-policy-document file://s3-role-trust-policy.json

\[
\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\t
```

#### Apply replication configuration and review

rem Modificar el archivo de replication.json que permite la replicacion por
medio de la configuracion del bucket
rem Aplicar el Role ARN; y el nombre del bucket destino
aws s3api put-bucket-replication --replicationconfiguration file://replication.json --bucket %SourceBucket%
rem Revisar configuracion

aws s3api get-bucket-replication --bucket %SourceBucket%

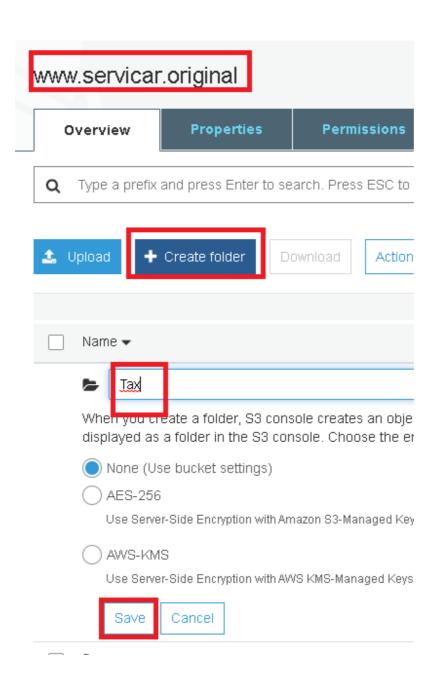
```
F:\git\BSG\AWS_SAA\Code\s3c1\CLI\aws s3api put-bucket-replication --replication-configuration file://replication.json --bucket xSourceBucketx

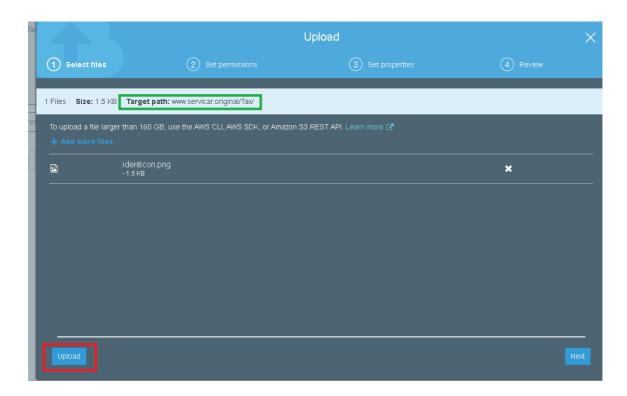
F:\git\BSG\AWS_SAA\Code\s3c1\CLI\aws s3api get-bucket-replication --bucket xSourceBucketx

The letter of the configuration of the complete the compl
```

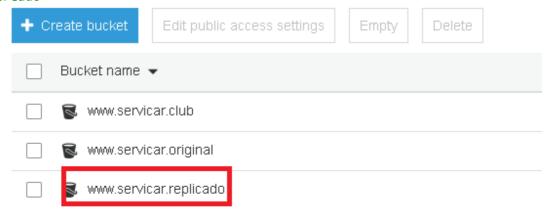
Review for both methods: Web and CLI Review for Replication

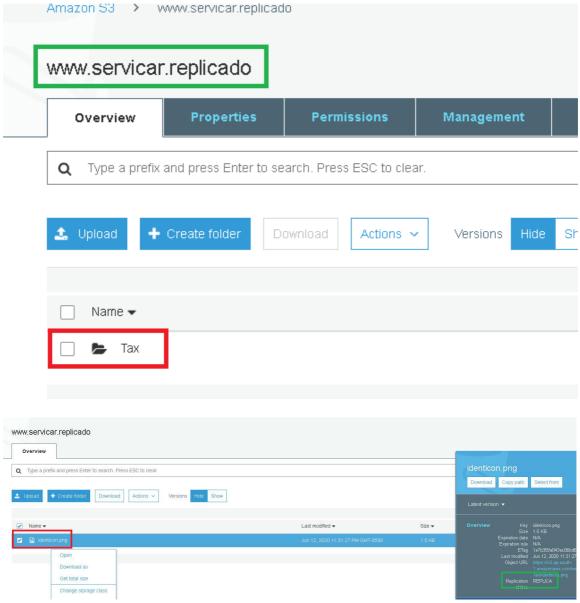
rem Realizar la prueba en AWS Web Management Console creando una carpeta lla mada Tax en el Bucket Origen y enviando archivos alli. Tambien aplica si se quita el filtrado en el archivo replication.json



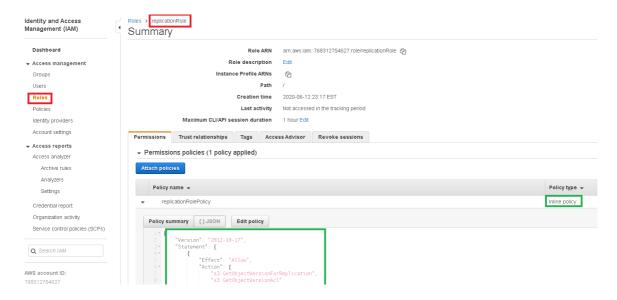


rem Seleccionar el bucket replicado y revisando las propiedades del archivo
creado

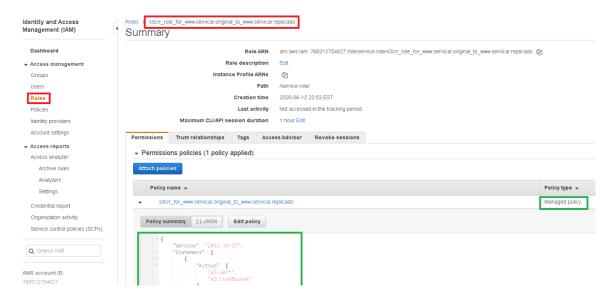




rem Puede revisar y saber que tipo de politica se esta aplicando al role de replica cuando fue creado por línea de comando



rem Puede revisar y saber que tipo de politica se esta aplicando al role de replica ya sea por linea de comando o por Web Management Console



#### Review for Versioning

You have to rewrite the files several times on source bucket, using drag-and-drop and then,



### What happened if you delete some of them?



### What happened on the replication?

