# Amazon S3 Replication for Disaster Recovery Solution

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**Case: S3 replication within the same Account but different region bucket location**

**Step 1: Create two bucket in source and Target account**

**Graphical user interface, application

Description automatically generated**

**Step 2: Create the replication rule in source bucket**

**Graphical user interface, application

Description automatically generated**

**Provide the destination bucket name**

**Graphical user interface, text, application, Teams

Description automatically generated**

**Create Rule or existing IAM rule, you can use**

**Graphical user interface, text, application, email

Description automatically generated**

**Graphical user interface, text, application, email

Description automatically generated**

{

"Version": "2012-10-17",

"Statement": [

{

"Action": [

"s3:ListBucket",

"s3:GetReplicationConfiguration",

"s3:GetObjectVersionForReplication",

"s3:GetObjectVersionAcl",

"s3:GetObjectVersionTagging",

"s3:GetObjectRetention",

"s3:GetObjectLegalHold"

],

"Effect": "Allow",

"Resource": [

"arn:aws:s3:::source-bucket-cloudsensei",

"arn:aws:s3:::source-bucket-cloudsensei/\*",

"arn:aws:s3:::target-bucket-cloudsensei",

"arn:aws:s3:::target-bucket-cloudsensei/\*"

]

},

{

"Action": [

"s3:ReplicateObject",

"s3:ReplicateDelete",

"s3:ReplicateTags",

"s3:ObjectOwnerOverrideToBucketOwner"

],

"Effect": "Allow",

"Resource": [

"arn:aws:s3:::source-bucket-cloudsensei/\*",

"arn:aws:s3:::target-bucket-cloudsensei/\*"

]

}

]

}

**Choose the storage class**

**Table

Description automatically generated**

**Graphical user interface, text, application, email

Description automatically generated**

**Graphical user interface, application

Description automatically generated**

Update the file to Source bucket and you will see the file to Target bucket after some time.

**Case: S3 replication within the different Account but different region bucket location**

**Create bucket in shared service Account**



**Step 2: Create the replication rule in source bucket**

**Graphical user interface, application

Description automatically generated**

**Provide the destination bucket name**

**309967048489**

**Graphical user interface, text, application, email

Description automatically generated**

**Create Rule or existing IAM rule, you can use**

**Graphical user interface, text, application, email

Description automatically generated**

**Graphical user interface, text, application, email

Description automatically generated**

**Graphical user interface, text, application, email

Description automatically generated**

{

"Version": "2012-10-17",

"Statement": [

{

"Action": [

"s3:ListBucket",

"s3:GetReplicationConfiguration",

"s3:GetObjectVersionForReplication",

"s3:GetObjectVersionAcl",

"s3:GetObjectVersionTagging",

"s3:GetObjectRetention",

"s3:GetObjectLegalHold"

],

"Effect": "Allow",

"Resource": [

"arn:aws:s3:::source-bucket-cloudsensei",

"arn:aws:s3:::source-bucket-cloudsensei/\*",

"arn:aws:s3:::target-bucket-shared-cloudsenei",

"arn:aws:s3:::target-bucket-cloudsensei",

"arn:aws:s3:::target-bucket-shared-cloudsenei/\*",

"arn:aws:s3:::target-bucket-cloudsensei/\*"

]

},

{

"Action": [

"s3:ReplicateObject",

"s3:ReplicateDelete",

"s3:ReplicateTags",

"s3:ObjectOwnerOverrideToBucketOwner"

],

"Effect": "Allow",

"Resource": [

"arn:aws:s3:::source-bucket-cloudsensei/\*",

"arn:aws:s3:::target-bucket-shared-cloudsenei/\*",

"arn:aws:s3:::target-bucket-cloudsensei/\*"

]

}

]

}

**Choose the storage class**

**Table

Description automatically generated**

**Graphical user interface, text, application, email

Description automatically generated**

**Graphical user interface, application

Description automatically generated**

**Create bucket policy in the target account**

**Graphical user interface, text, application, email

Description automatically generated**

{

"Version": "2012-10-17",

"Statement": [

{

"Effect": "Allow",

"Principal": {

"AWS": "arn:aws:iam::062823937524:role/service-role/s3crr\_role\_for\_source-bucket-cloudsensei\_5"

},

"Action": "s3:\*",

"Resource": "arn:aws:s3:::target-bucket-shared-cloudsenei/\*"

}

]

}

**The following is the generic buck policy for sharing bucket to another account/user/role:**

**The red part needs to be changed to corresponding account/user/role**

**Example**

{

"Version": "2012-10-17",

"Statement": [

{

"Effect": "Allow",

"Principal": {

"AWS": "arn:aws:iam::AccountB:user/AccountBUserName"

},

"Action": [

"s3:GetObject",

"s3:PutObject",

"s3:PutObjectAcl"

],

"Resource": [

"arn:aws:s3:::AccountABucketName/\*"

]

}

]

}