AMAZON S3 - CROSS REGION REPLICATION (CRR)

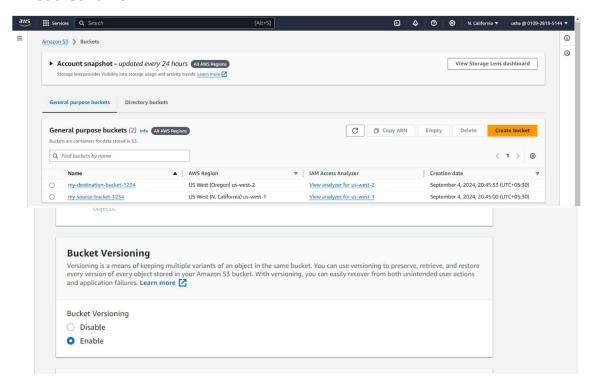
What is cross region replication?

The AWS S3 – Cross-region replication (CRR) allows you to replicate or copy your data in two different regions.

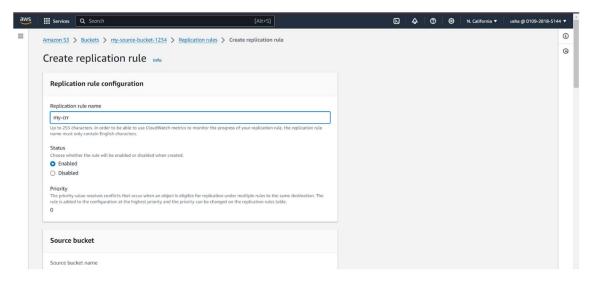
Setting up CRR:

Follow the below steps to set up the CRR:

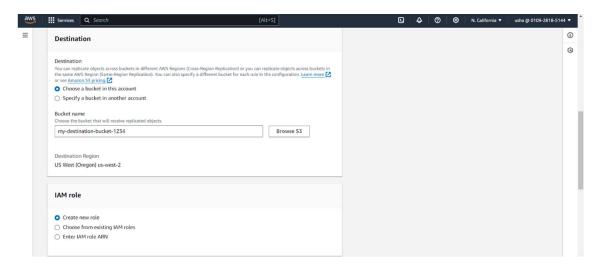
- Go to the AWS S3 console and create two buckets in TWO DIFFERENT REGIONS.
- Let's Create source bucket in CALIFORNIA REGION and give name as "my-source-bucket-1234".
- Create destination bucket in OREGON REGION and give name as "mydestination-bucket-1234".
- Do not forget to <u>enable versioning</u>. Also, note that the S3 bucket name needs to be globally unique and hence try adding random numbers after bucket name.



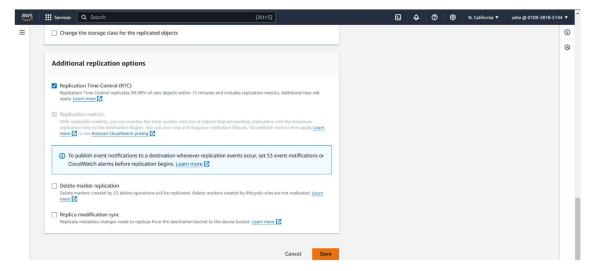
 Now click on your source bucket and head over to the management tab & click on "Create a replication rule" and give your replication rule name as "my-crr"



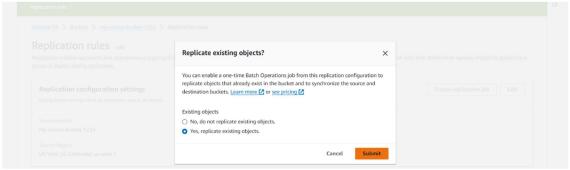
- Choose the destination bucket as "my-destination-bucket-1234".
- Notice that you have an option to choose a destination bucket in another account.
- In order to replicate objects from the source bucket to the destination bucket, you need to create an IAM role. So just create one by clicking on "create a new role".



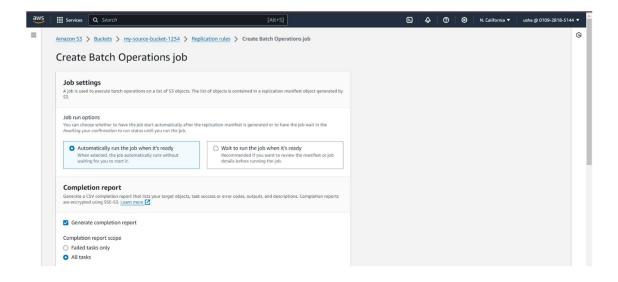
• If you want your S3 objects to be replicated within 15 minutes you need to check the "Replication Time Control (RTC) box. So enable that and click on save.



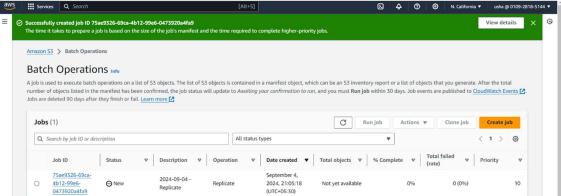
 As soon as you click on save, a screen will pop up asking if you want to replicate existing objects in the S3 bucket, choose yes and click on submit.



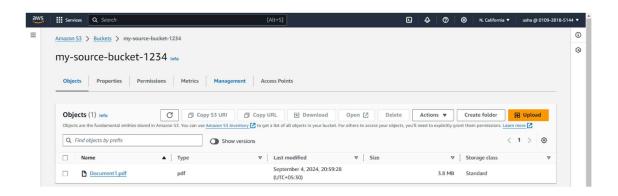
- Now you will get create batch operations job go down at completion report destination- choose destination bucket that we already created.
- For better understanding look at below snapshots.



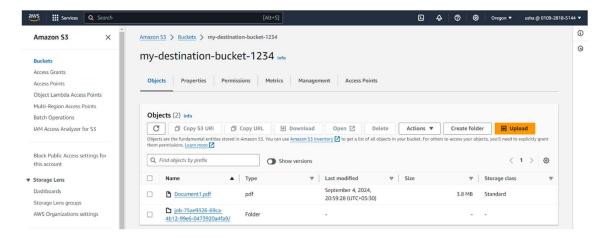




• Now It's time to test! Now go to the source bucket: my-source-bucket-1234 and upload a file.



 Now go to the destination bucket: my-destination-bucket-1234 to check if the uploaded file is replicated to our destination bucket. You can see that our uploaded file is successfully copied to the destination bucket.



Note: While deleting the buckets, do not forget to empty your buckets and then delete them, if you do not have any further use. Also, you cannot delete a bucket if it is not empty.