

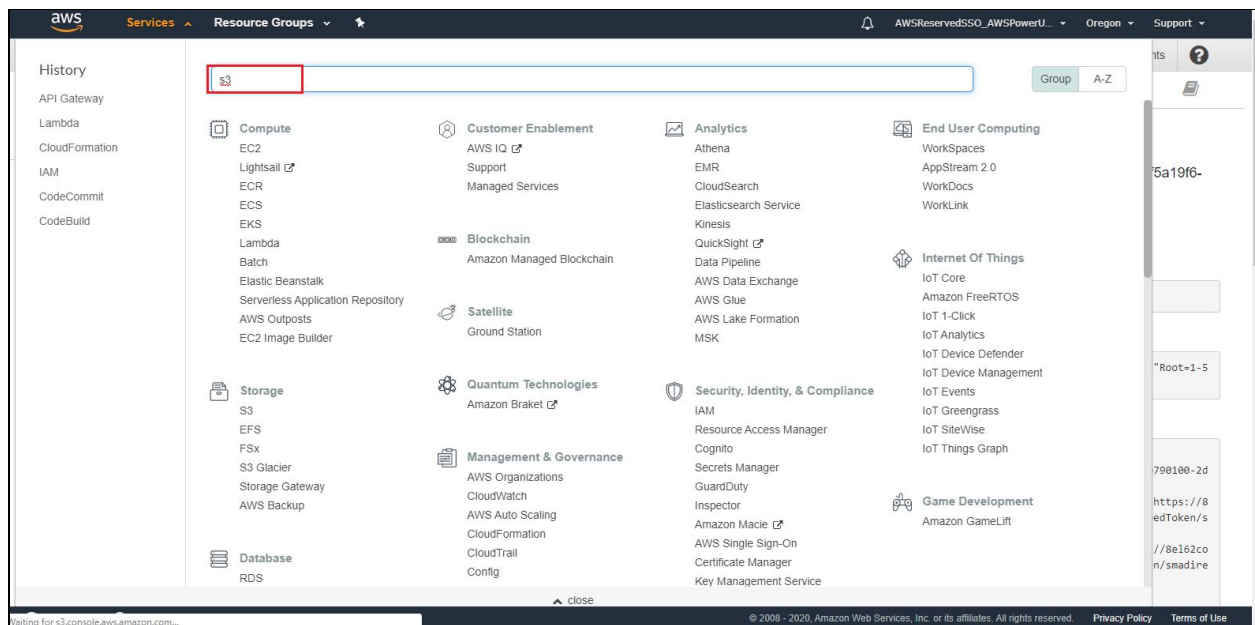


Simple Storage Service (S3)

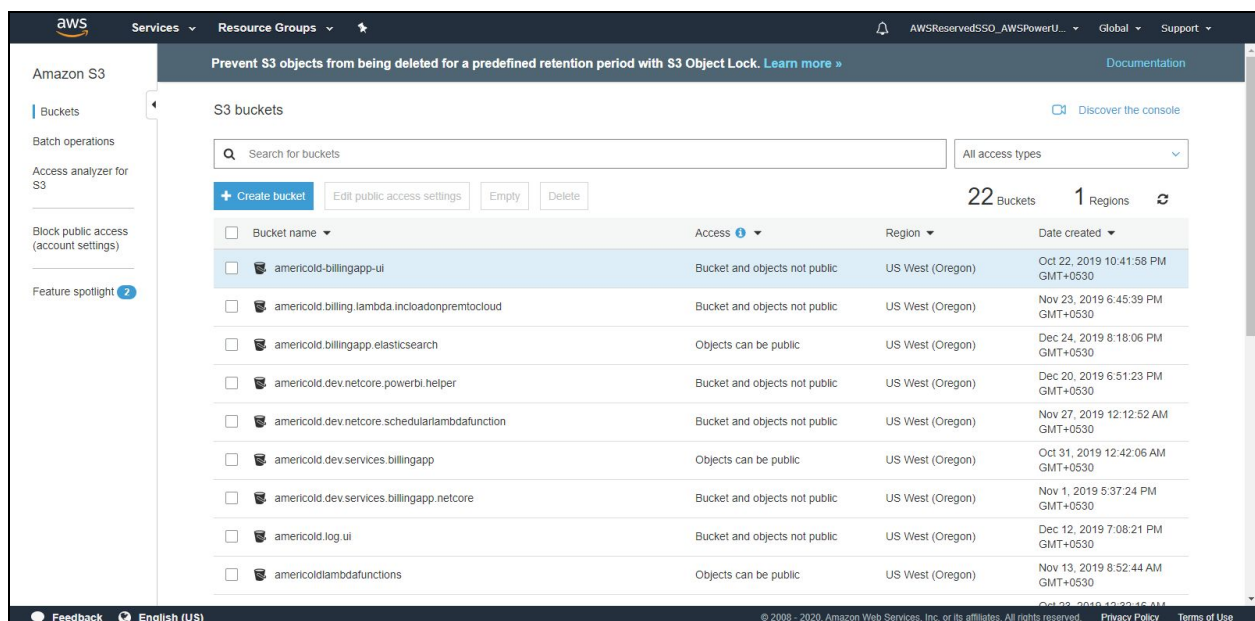
Objective:

The objective of this document is to provide an overview of creation and configuration of an S3 bucket.

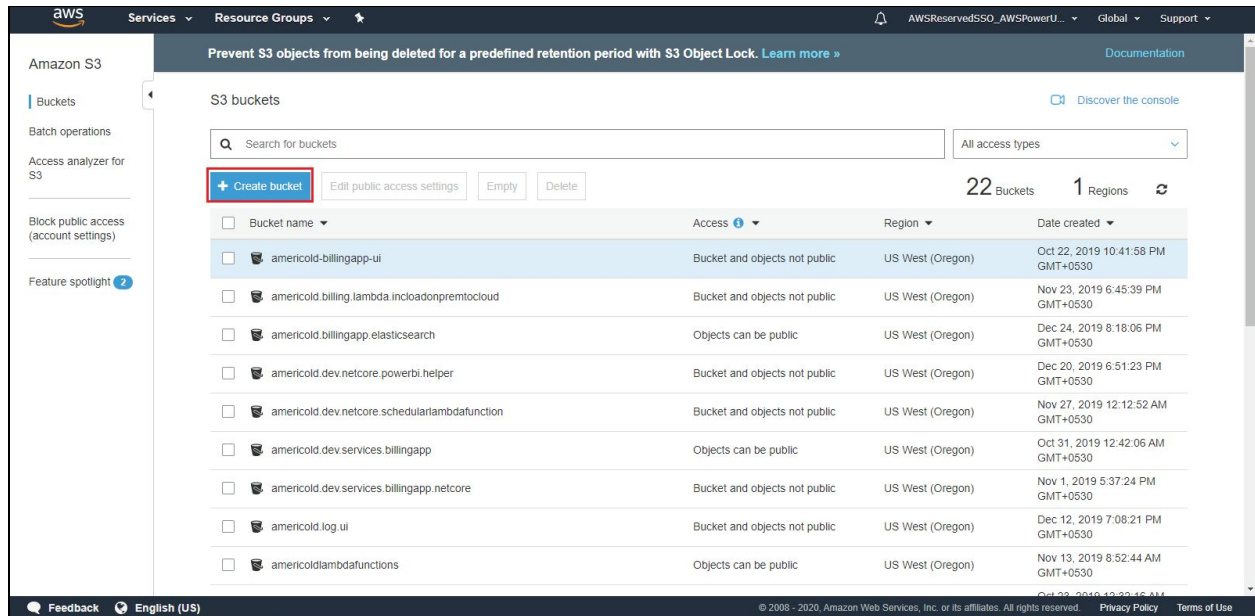
In order to create an S3 bucket first we need to login into the AWS console and search for **S3** service.



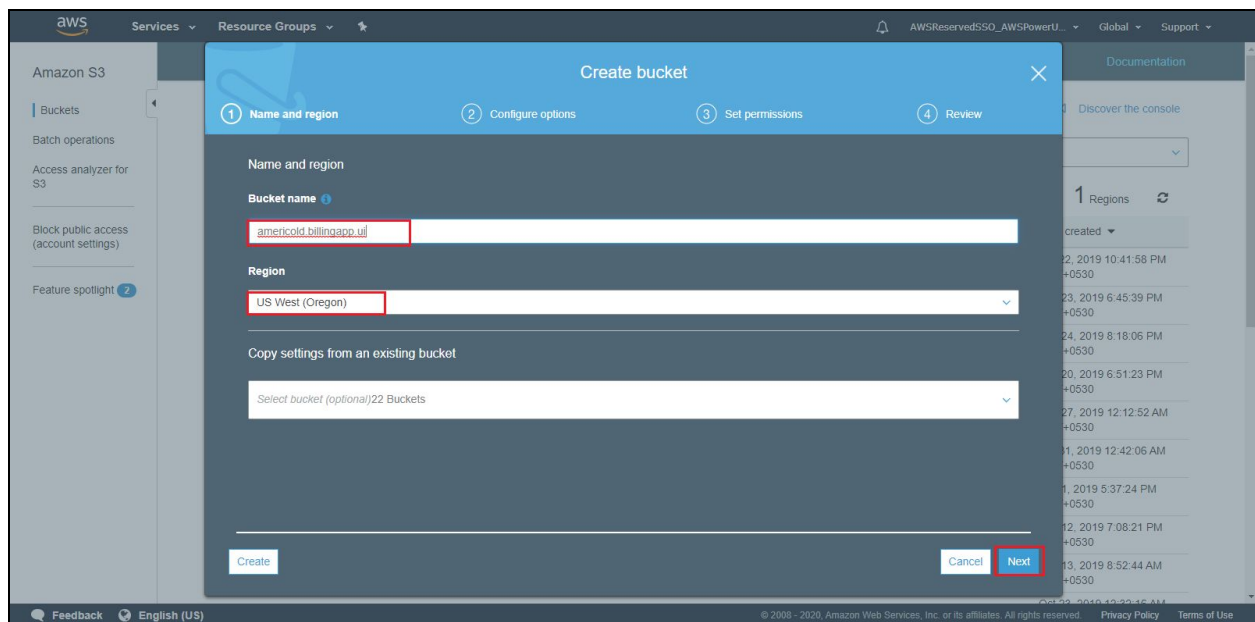
Now the dashboard of the S3 bucket will be as shown below.



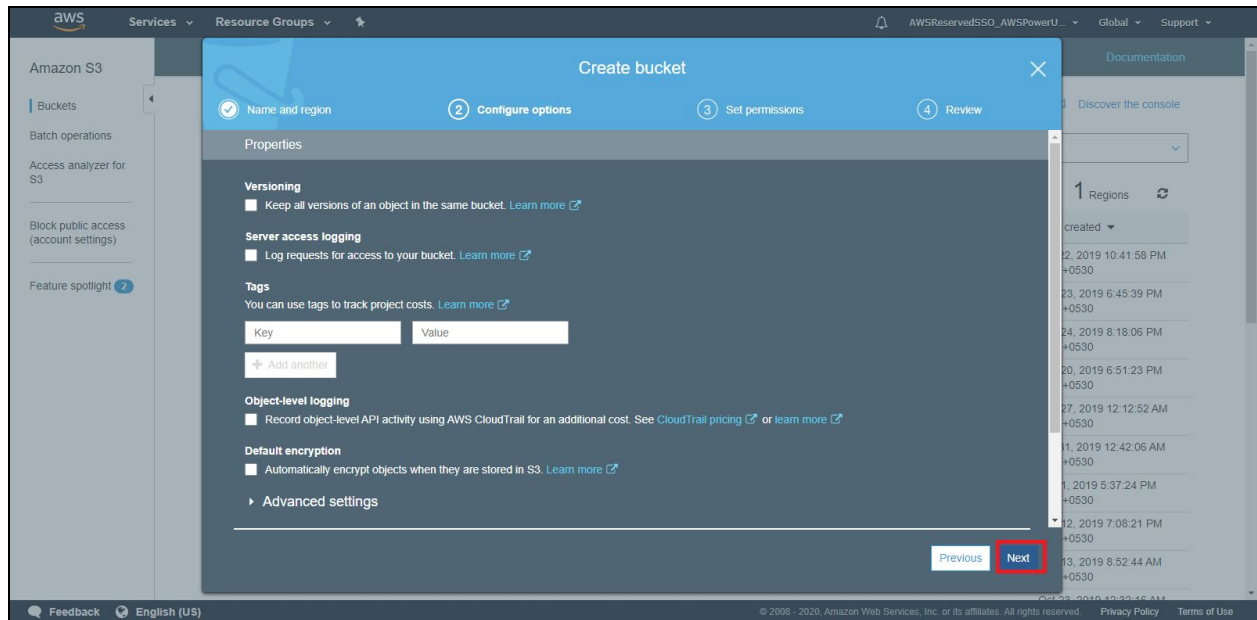
Now Click on **create bucket** to create a new bucket.



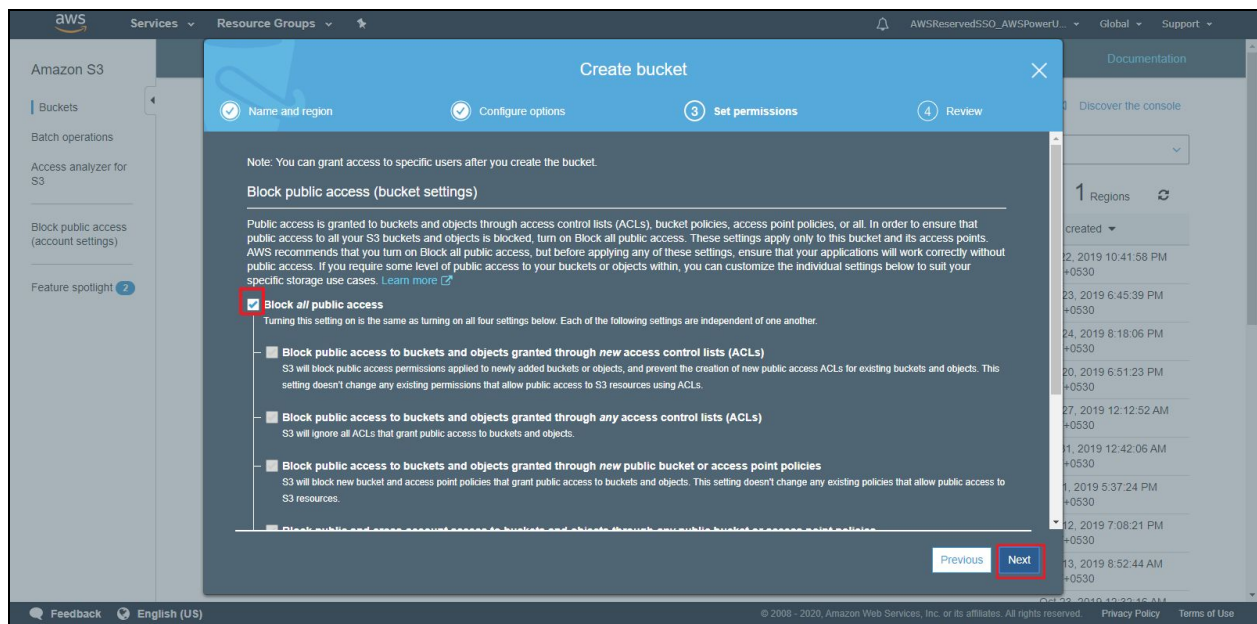
Now give a name to S3 bucket that should be unique for all S3 buckets in AWS, select a region to create S3 bucket in that specified region and click on next to setup the configuration for S3 bucket. Here we have given the name as **americold-billingapp-ui** and selected region as US West - 2 (Oregon)



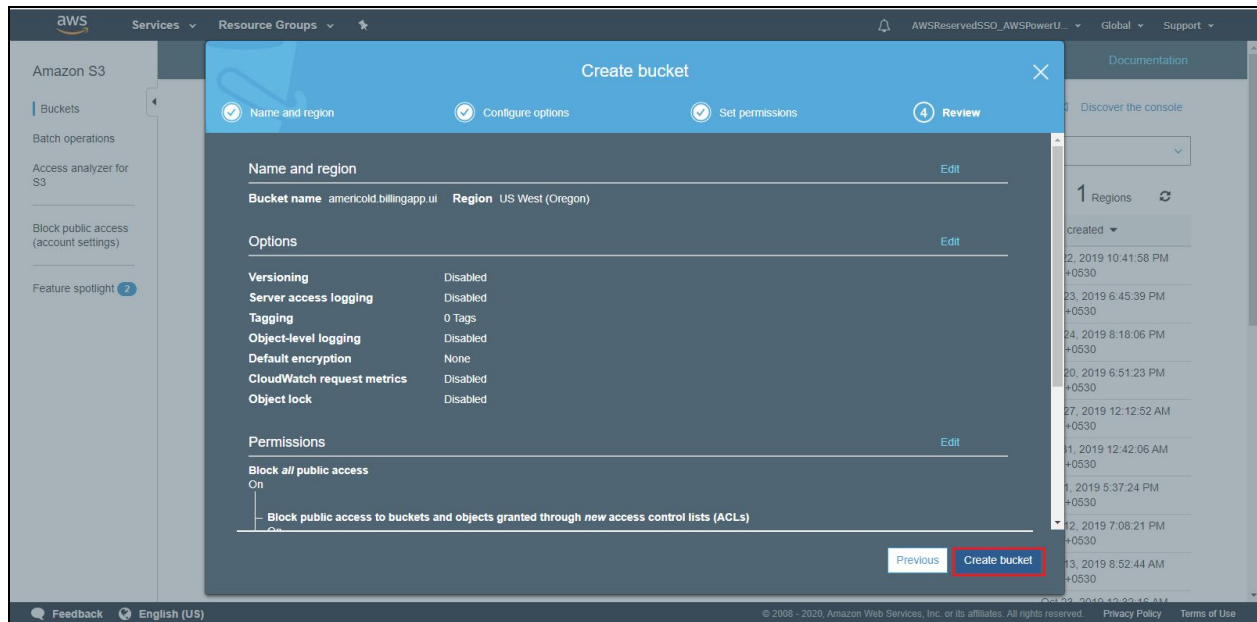
Here we have given the default configuration and click on **next** to set the permissions.



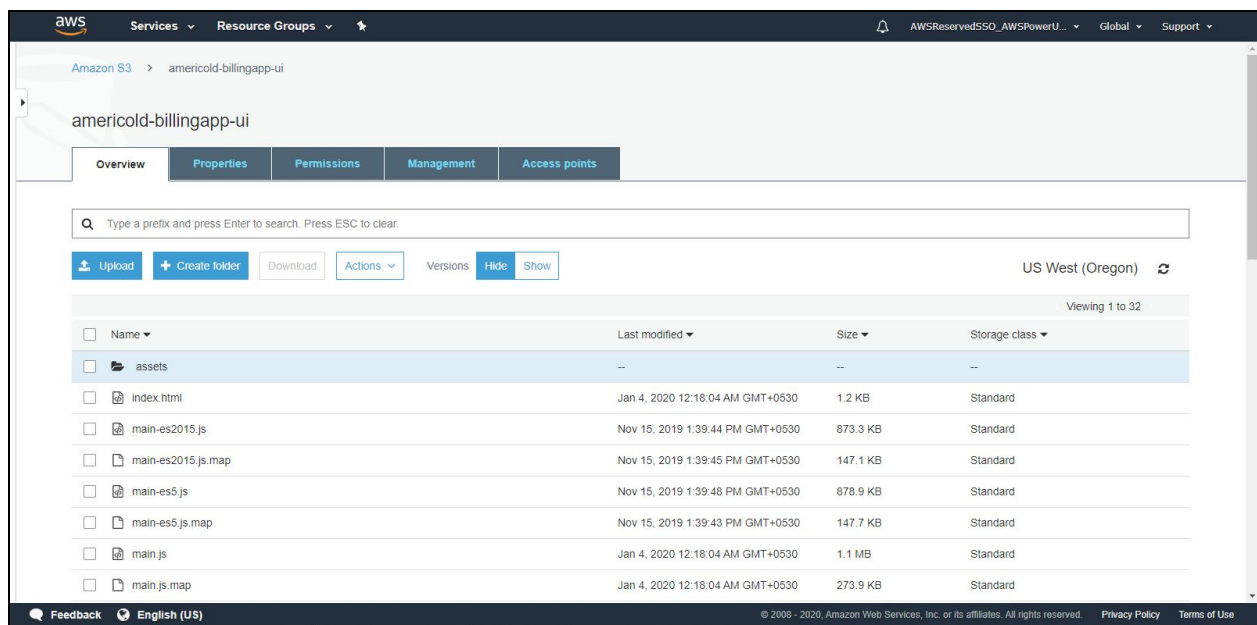
Now select the Block all public access check box to restrict the bucket access with in the AWS account and click on next.



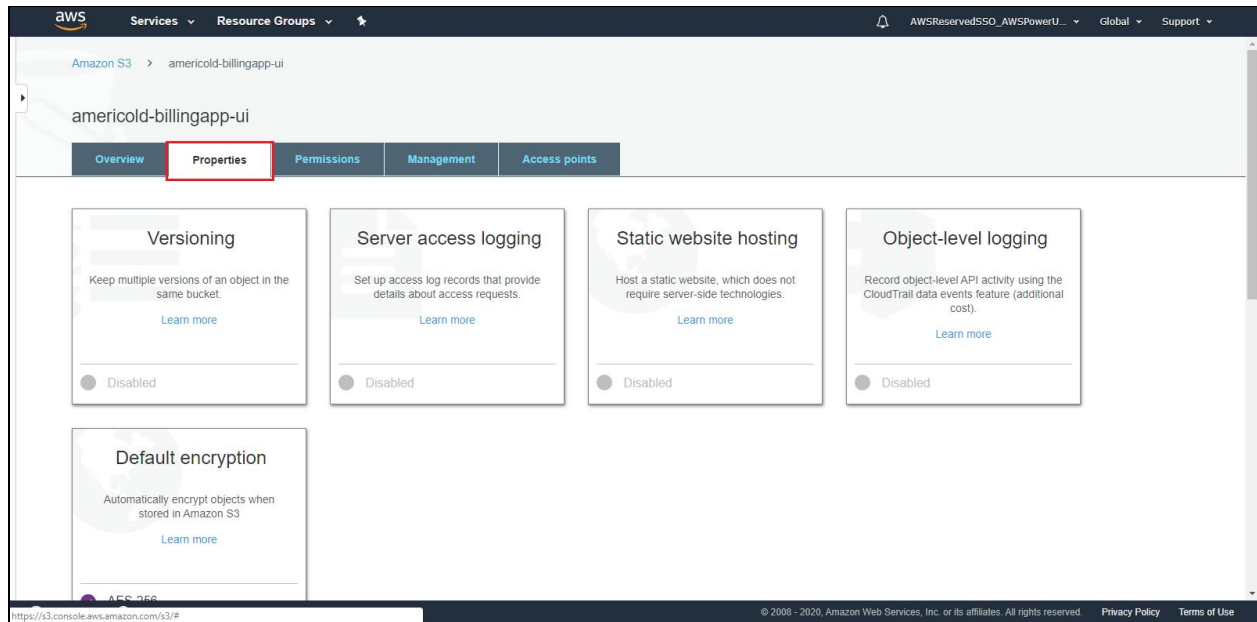
Now review the bucket configuration and click on **create bucket**.



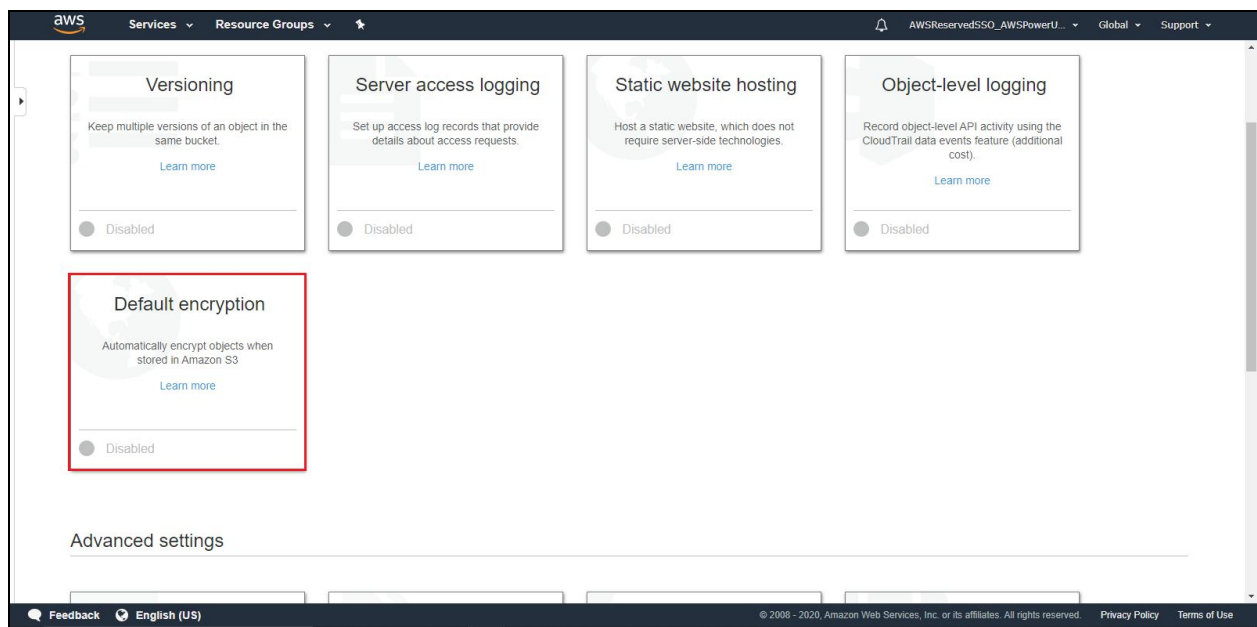
Now the bucket is created and the artifacts stored in the bucket as follows.



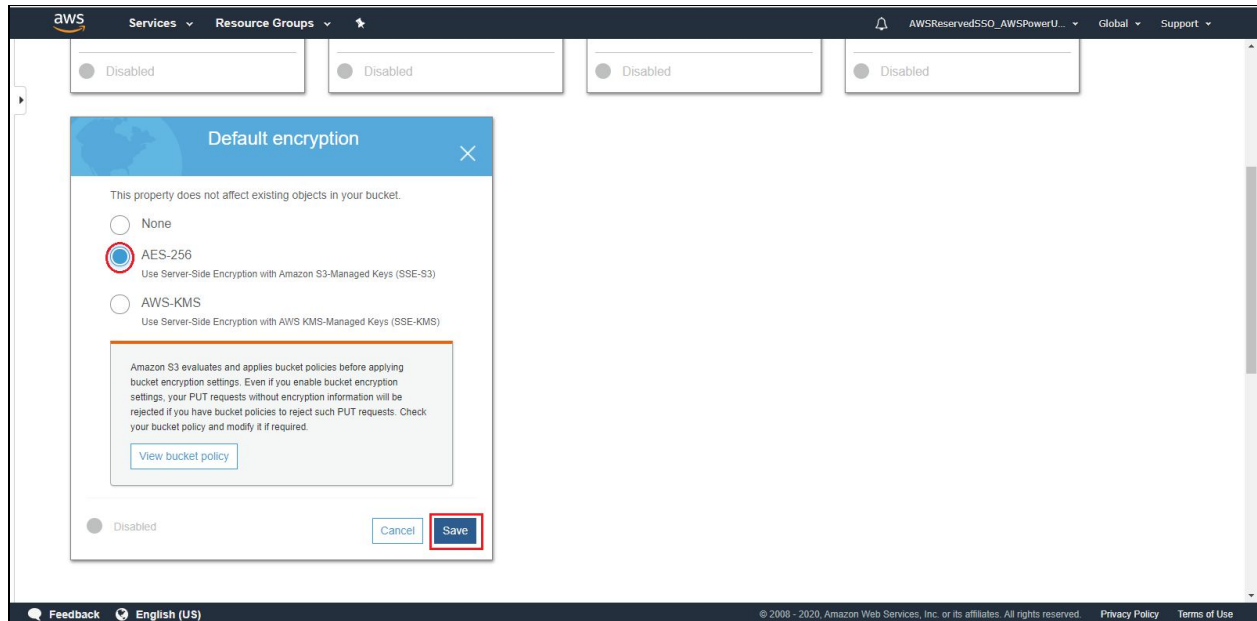
Now click on the **Properties** of the bucket.



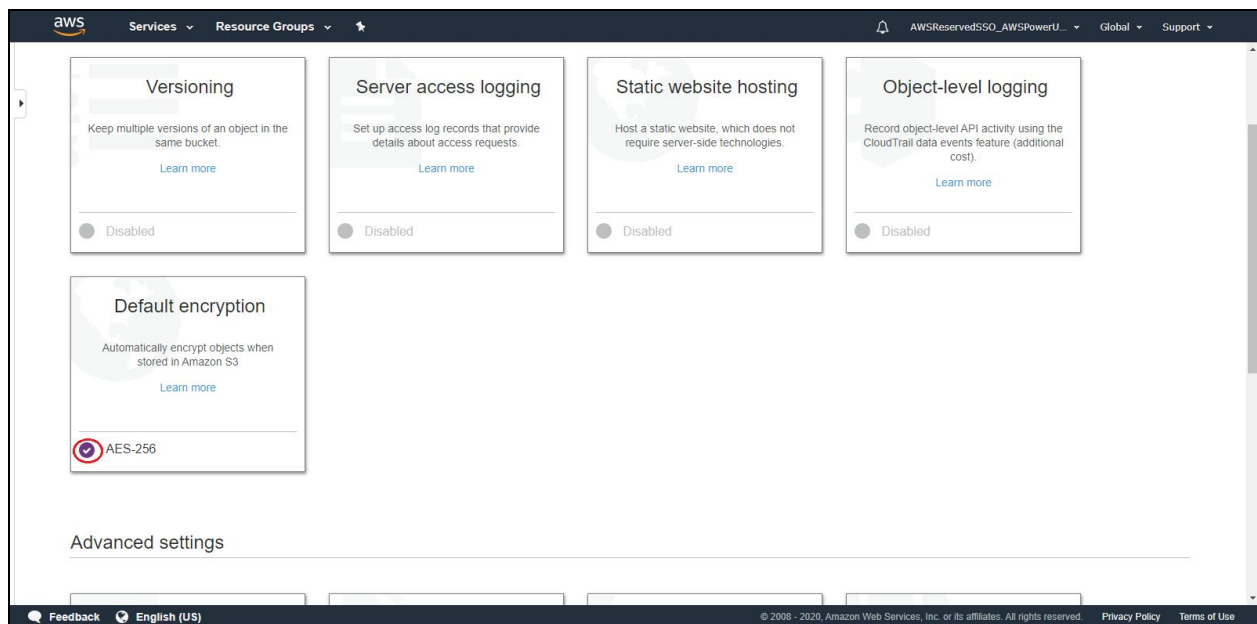
Now click on **default encryption** to enable the encryption for the data in S3 bucket.



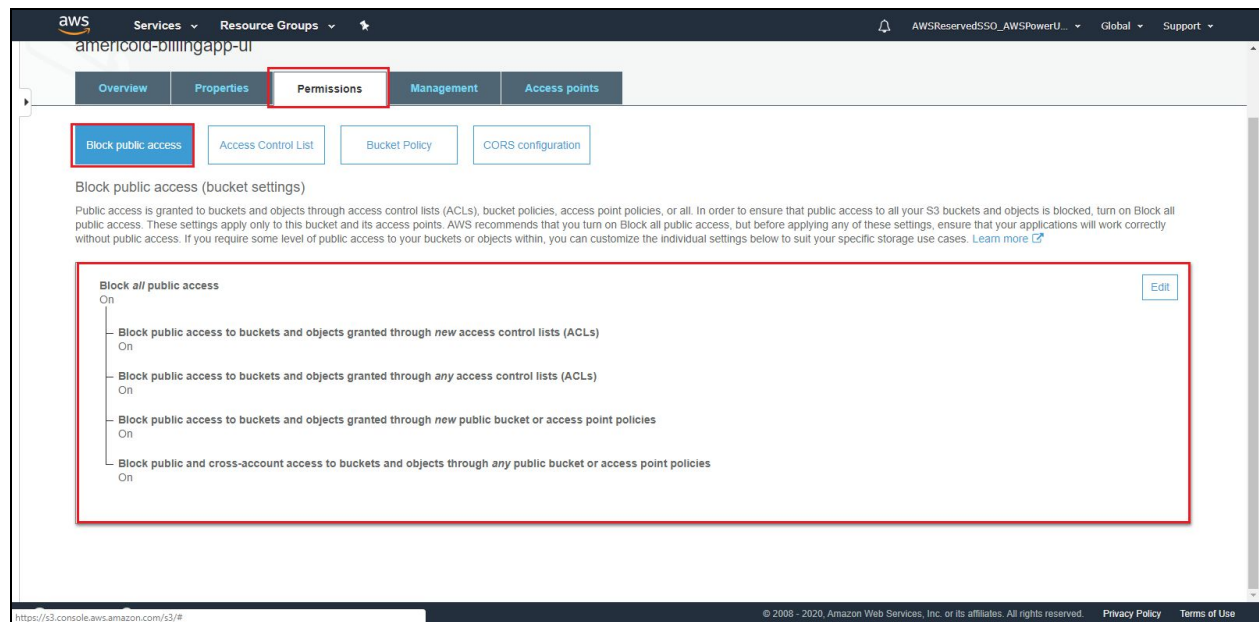
By default the encryption of the bucket will be disabled. Here we are encrypting the S3 bucket data using **AES-256** method for side encryption. Now select the AES-256 button and click on save.



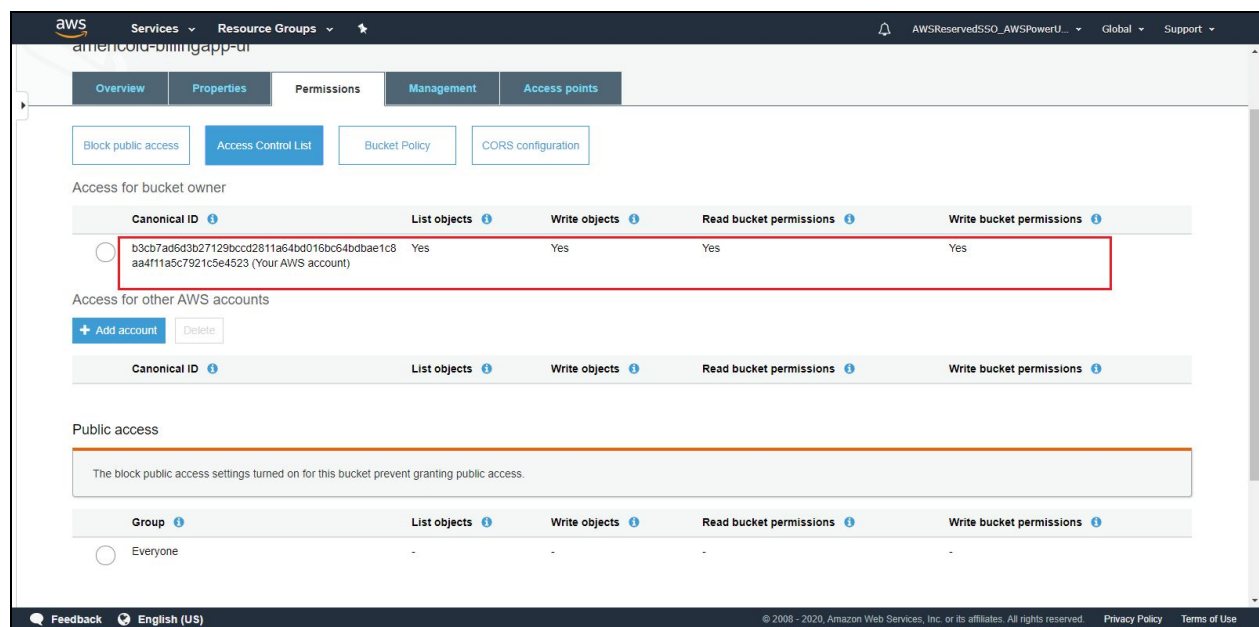
Now the data in S3 bucket will be encrypted.



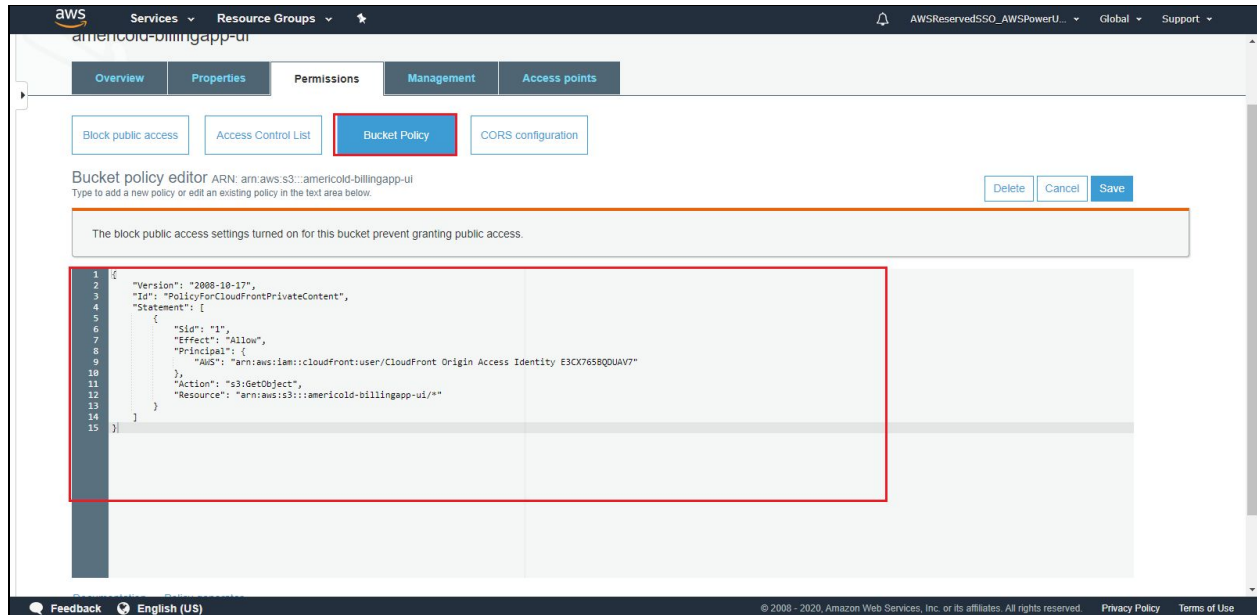
Now click on the **Permissions** tab to add or restrict the data in S3 bucket. Here we have restricted all the public access for the bucket.



In Access Control List to check who are currently accessing the S3 bucket. Here **Canonical ID** is a **unique id** for an **AWS** account. You can't use this to give a single IAM user permissions on a bucket. If needed we can add the other AWS accounts to access the bucket data (cross account access).



Now goto the **Bucket Policy** tab to check how we are accessing the data in the S3 bucket. Here we have updated the bucket policy from cloudfront service to access the data only through the respective cloudfront distribution.



Now goto **CORS configuration** tab to check the policies of the S3 bucket for CORS. Here we have added the allowed methods to the bucket, it will define the operations that can allowed by an origin. In the below configuration we have added the allowed origin as ***.i-3pl.com** defines that the operation will be done only if the requests to bucket coming to the specified domain. It allows us to restrict the cross origin access.

