

EXPERIMENT NO. 6

Aim: To study and Implement Storage as a Service using Own Cloud/ AWS S3, Glaciers/ Azure Storage.

Theory:

Storage as a Service or SaaS

Storage as a Service or STaaS is cloud storage that you rent from a Cloud Service Provider (CSP) and that provides basic ways to access that storage. Enterprises, small and medium businesses, home offices, and individuals can use the cloud for multimedia storage, data repositories, data backup and recovery, and disaster recovery. There are also higher-tier managed services that build on top of STaaS, such as Database as a Service, in which you can write data into tables that are hosted through CSP resources.

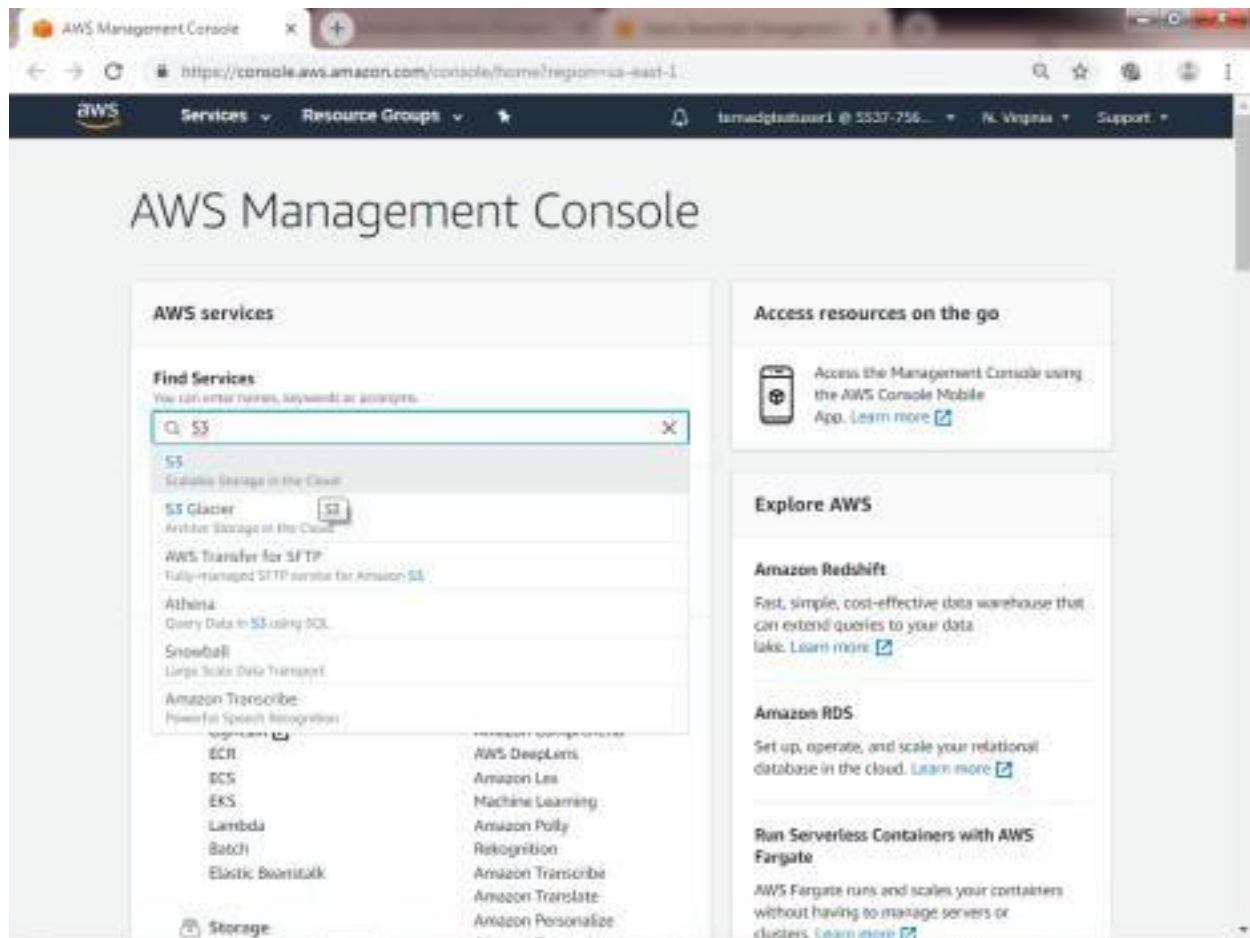
The key benefit to STaaS is that you are offloading the cost and effort to manage data storage infrastructure and technology to a third-party CSP. This makes it much more effective to scale up storage resources without investing in new hardware or taking on configuration costs. You can also respond to changing market conditions faster. With just a few clicks you can rent terabytes or more of storage, and you don't have to spin up new storage appliances on your own.

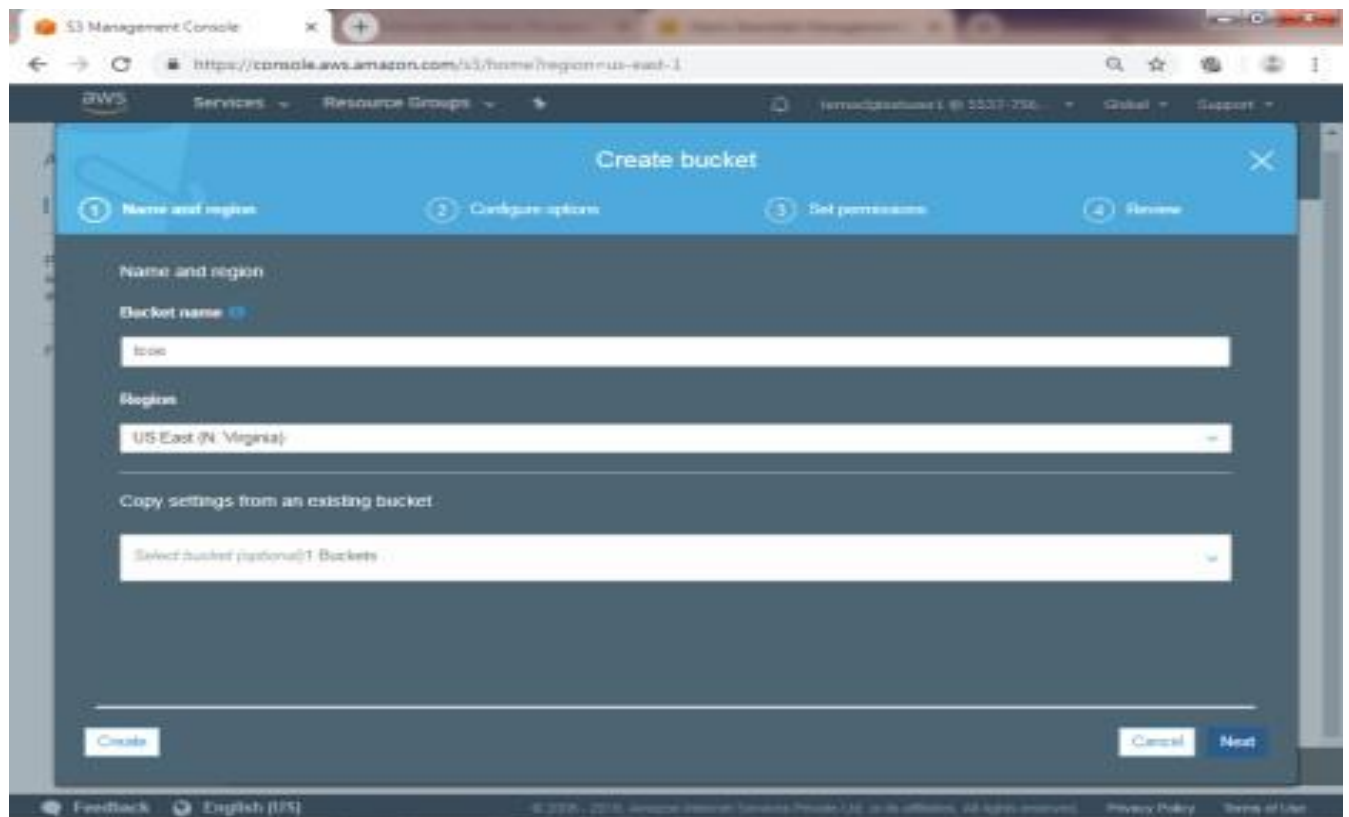
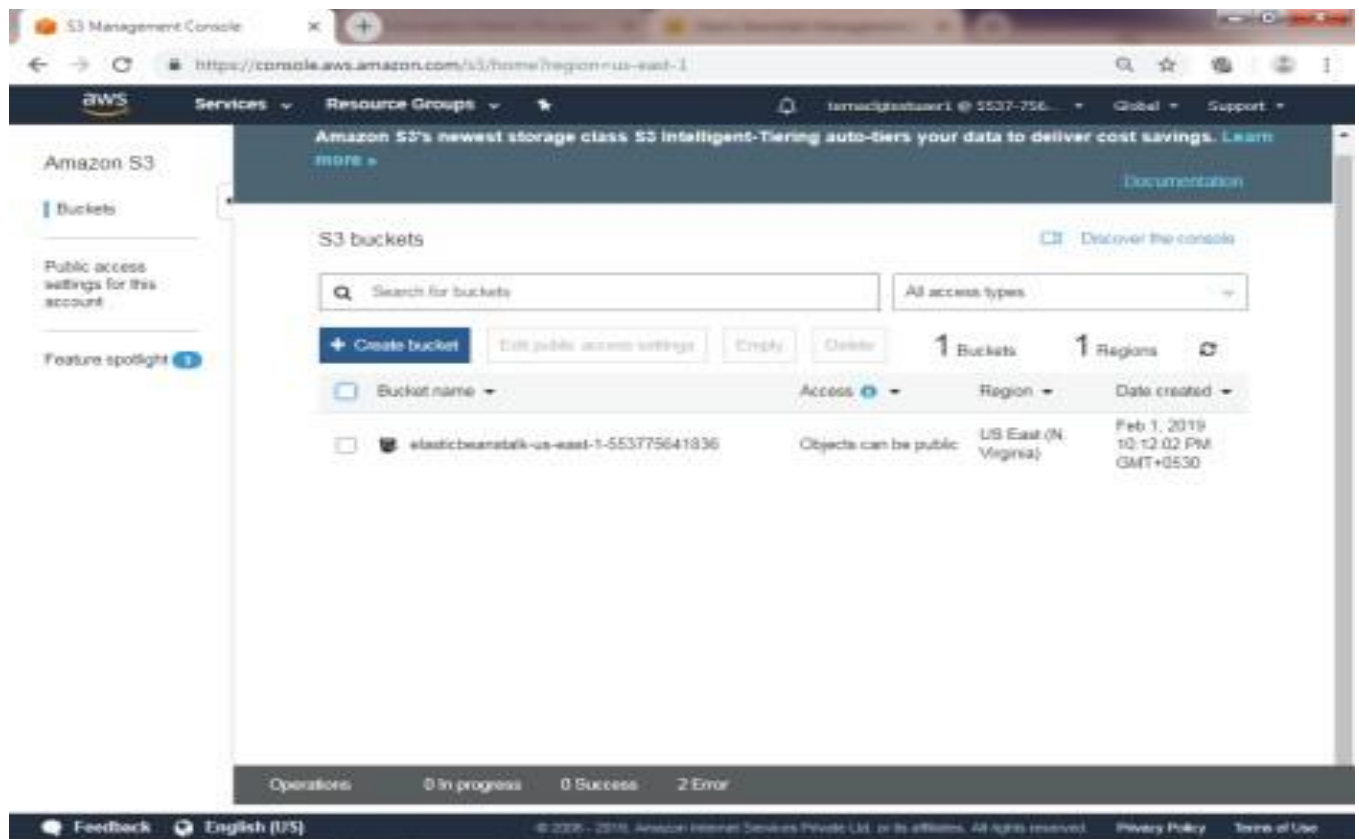
Working of Storage as a Service :

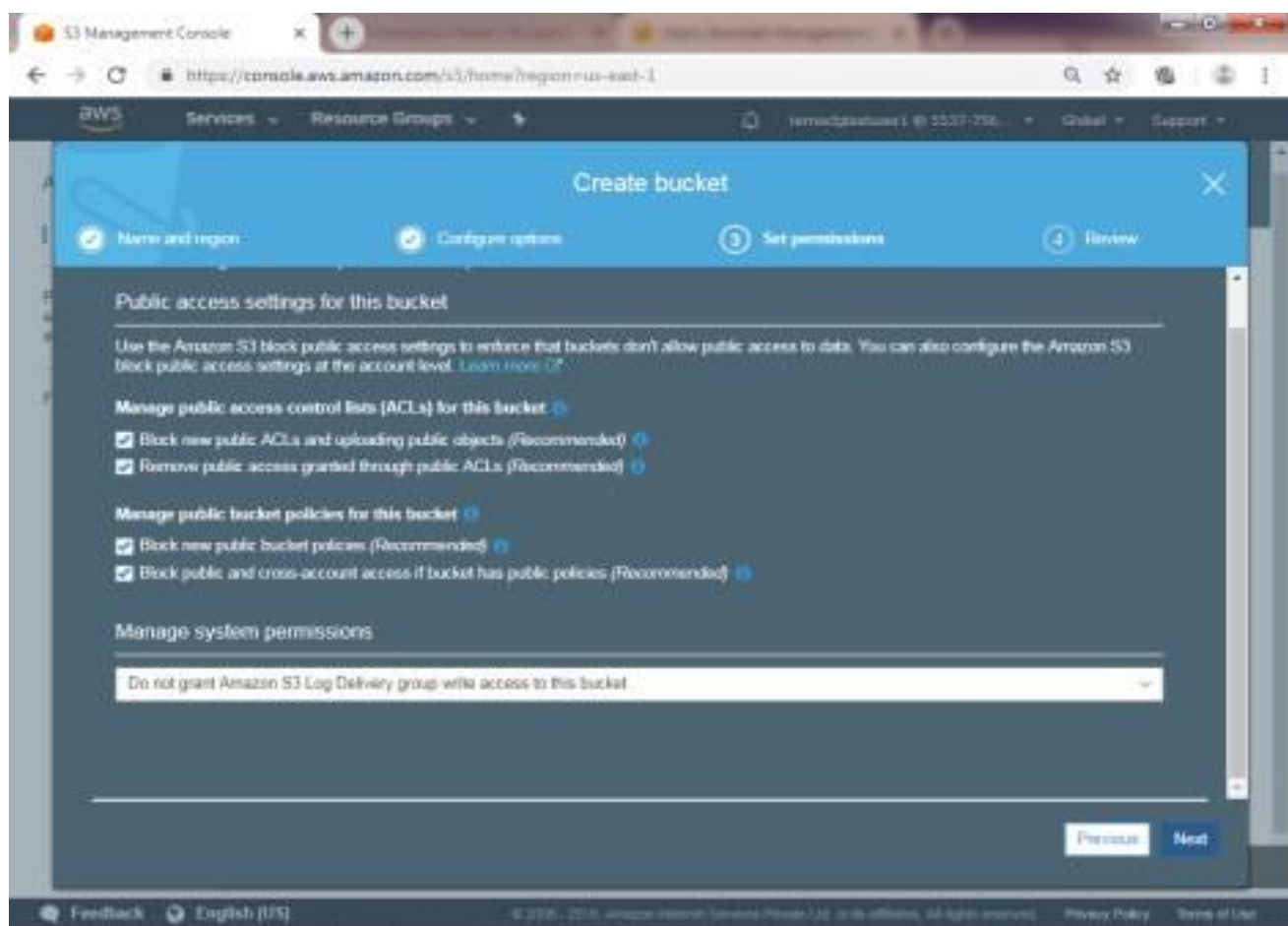
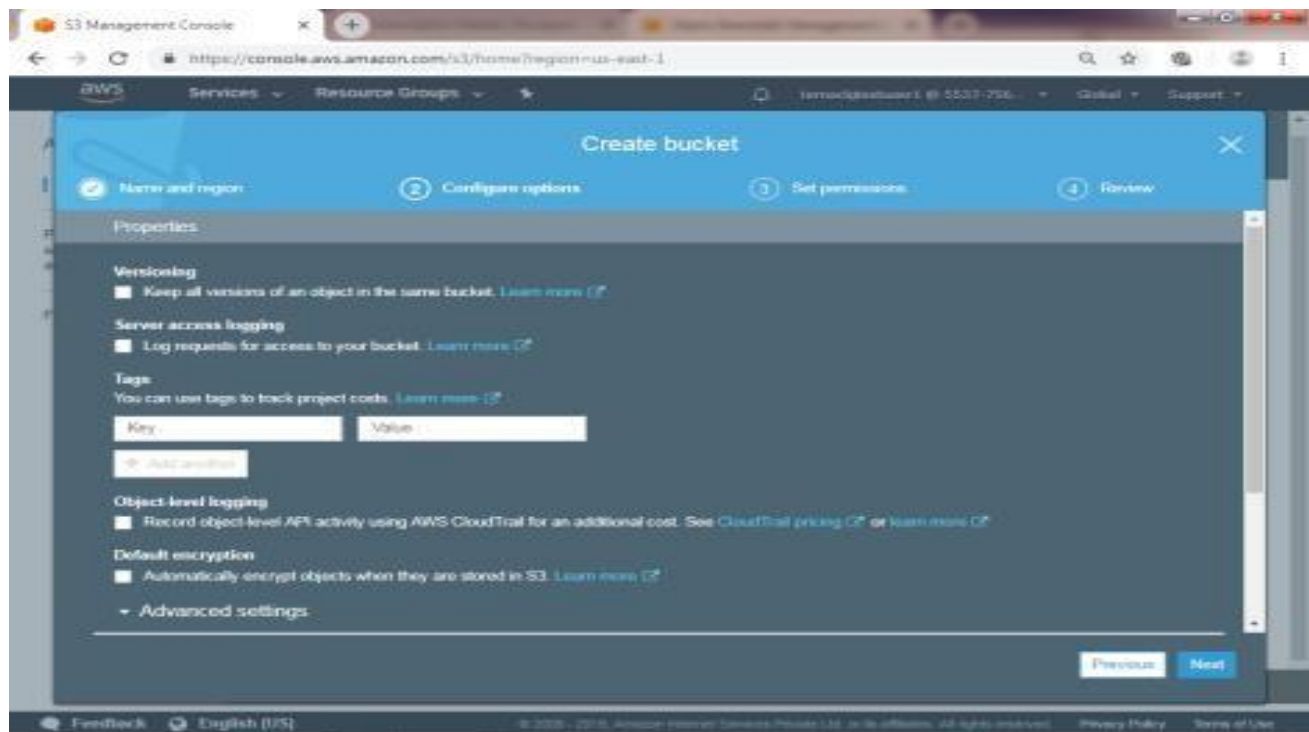
Some STaaS offerings can be rented based on quantity, others are rented based on a service level agreement (SLA). SLAs help establish and reinforce conditions for using data storage, such as uptime and read/write access speed. The storage you choose will typically depend on how often you intend to access the data. Cold data storage is data that you leave alone or access infrequently, whereas warm or hot data is accessed regularly and repeatedly. Pricing by quantity tends to be more cost efficient but isn't intended to support fast and frequent access for day-to-day business productivity. For hot or warm data, an SLA will be crucial to

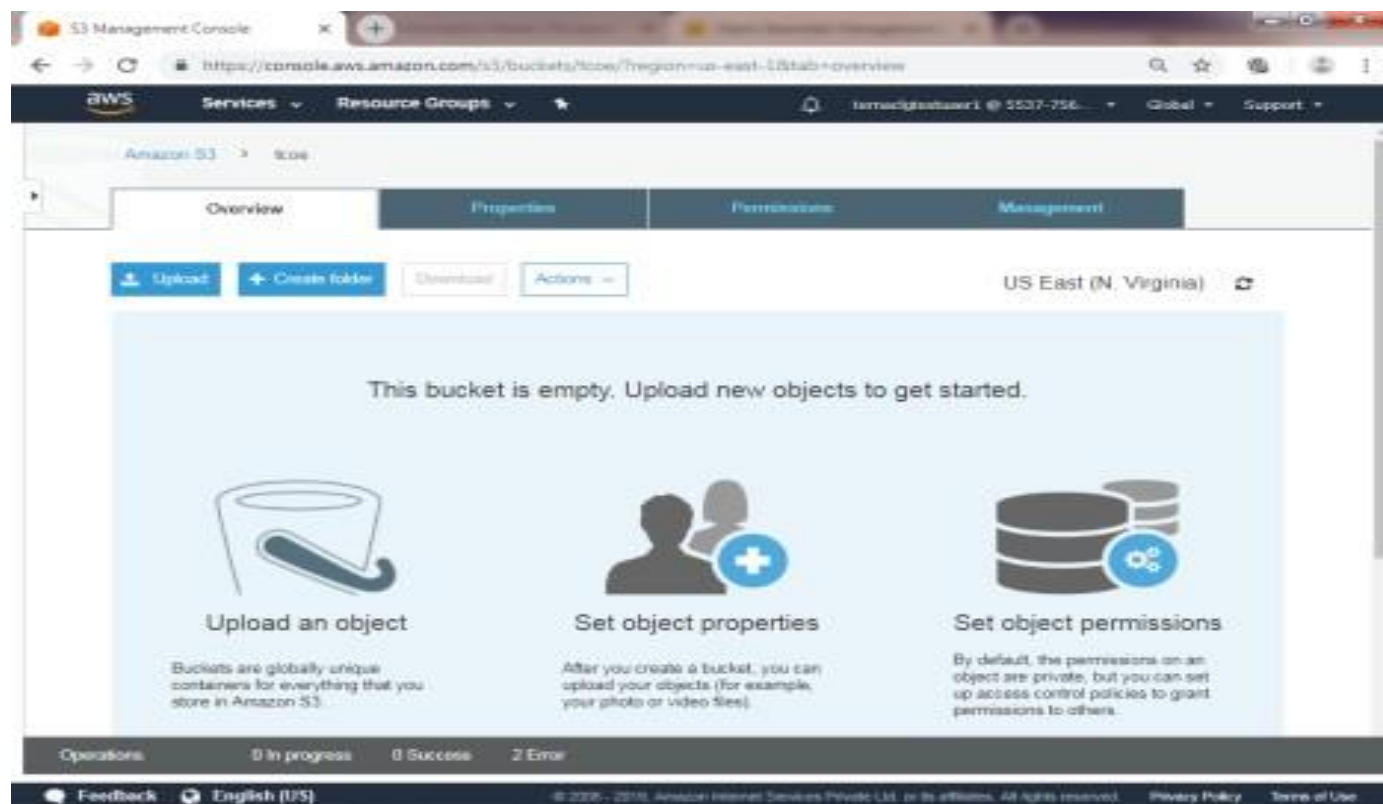
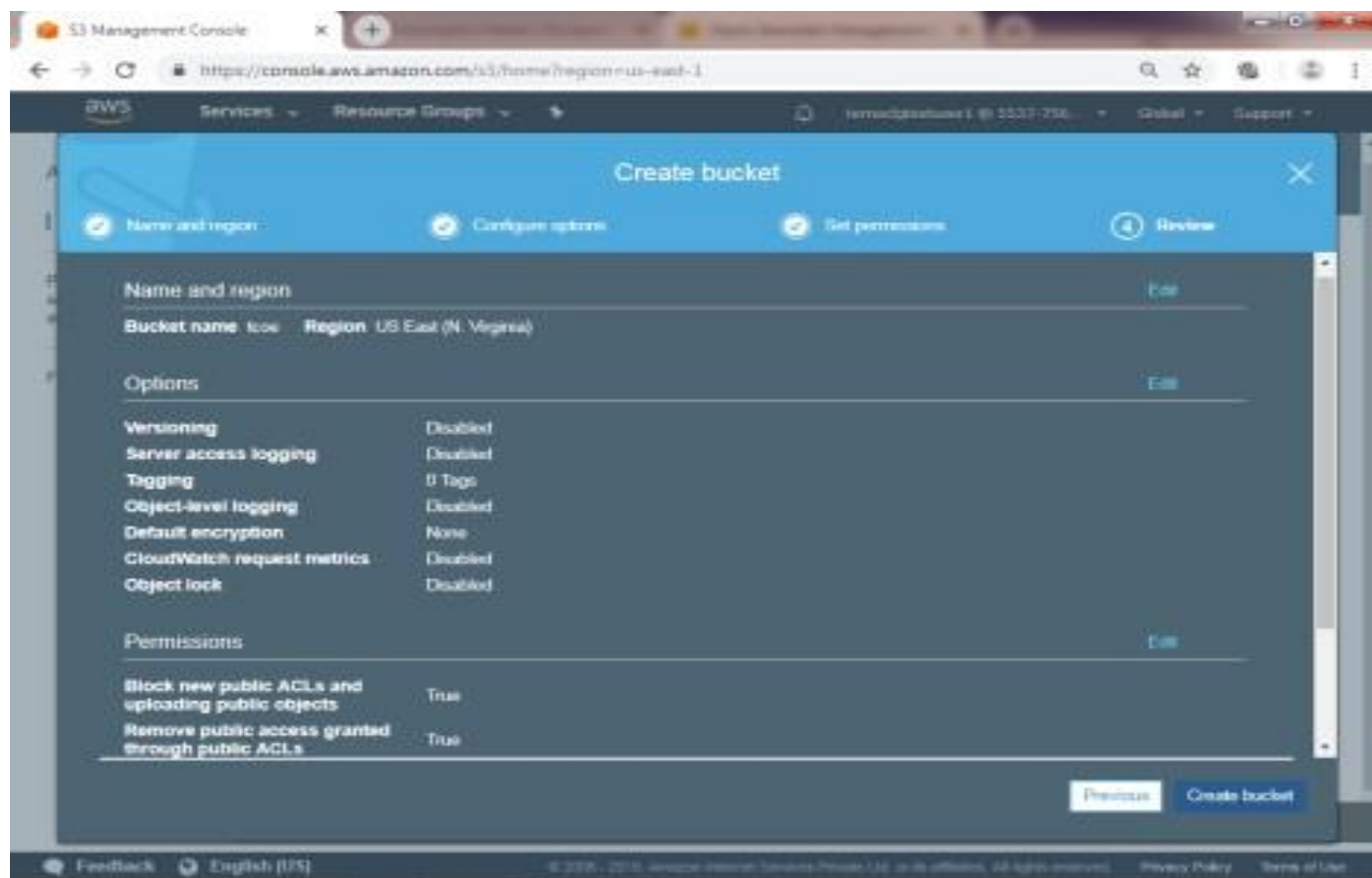
leveraging data storage in support of current projects or ongoing processes.

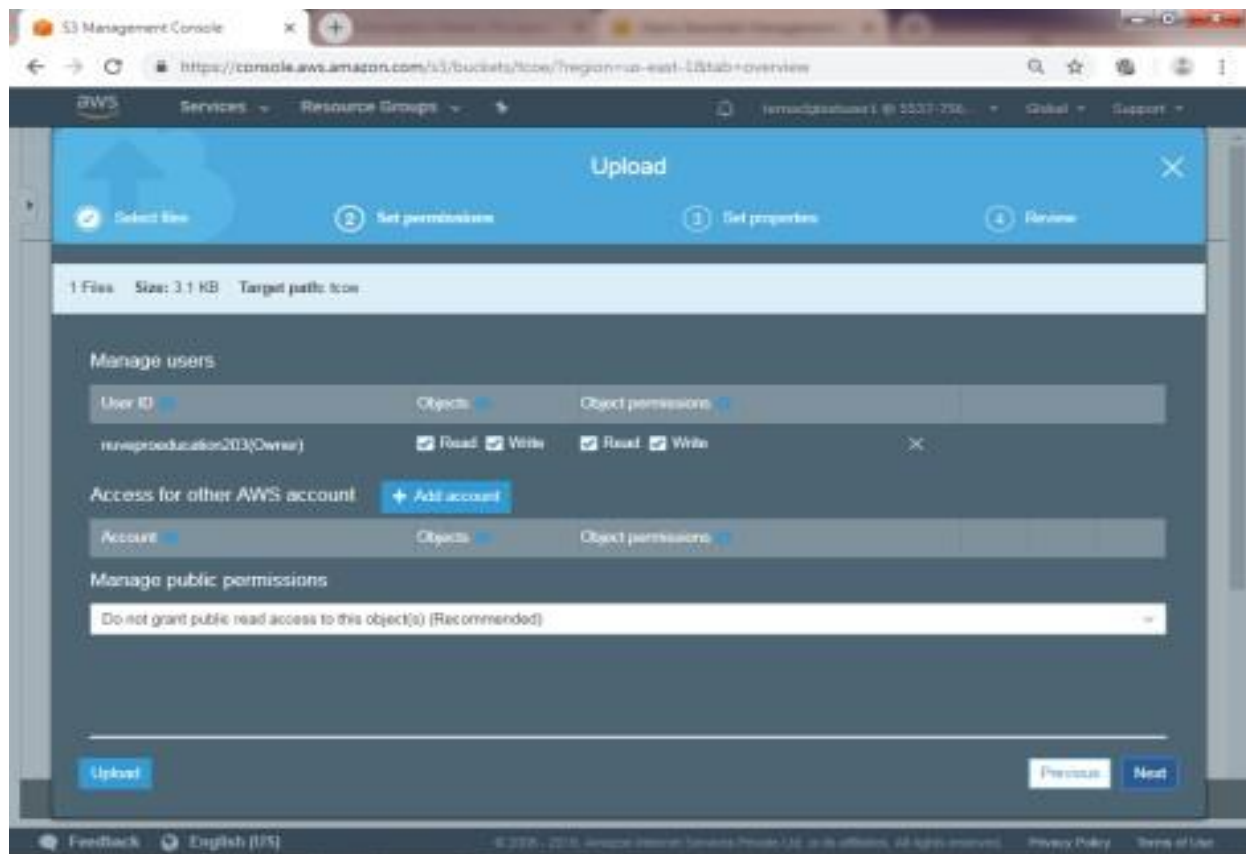
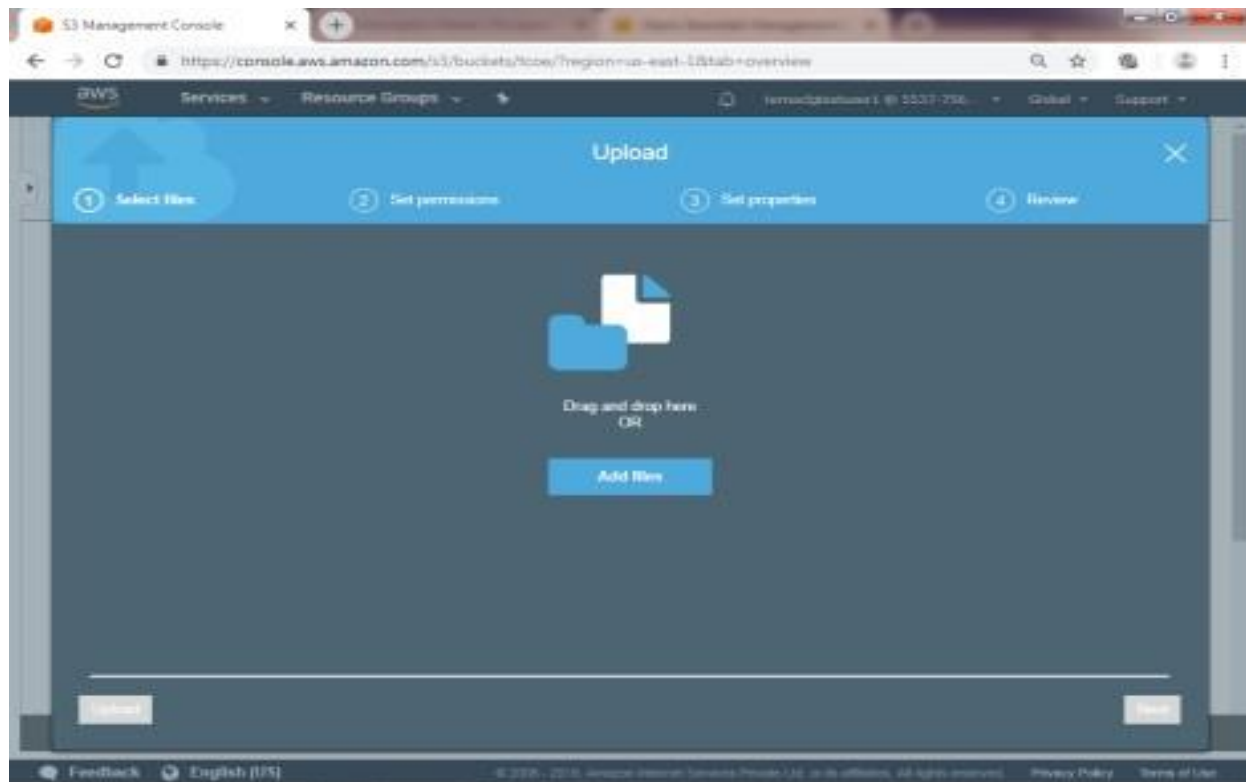
Many CSPs make it easy to onboard and upload data into their STaaS infrastructure for little to no cost at all. However, there may be hidden fees and it can be extremely costly to migrate or transfer your data to a different cloud platform.

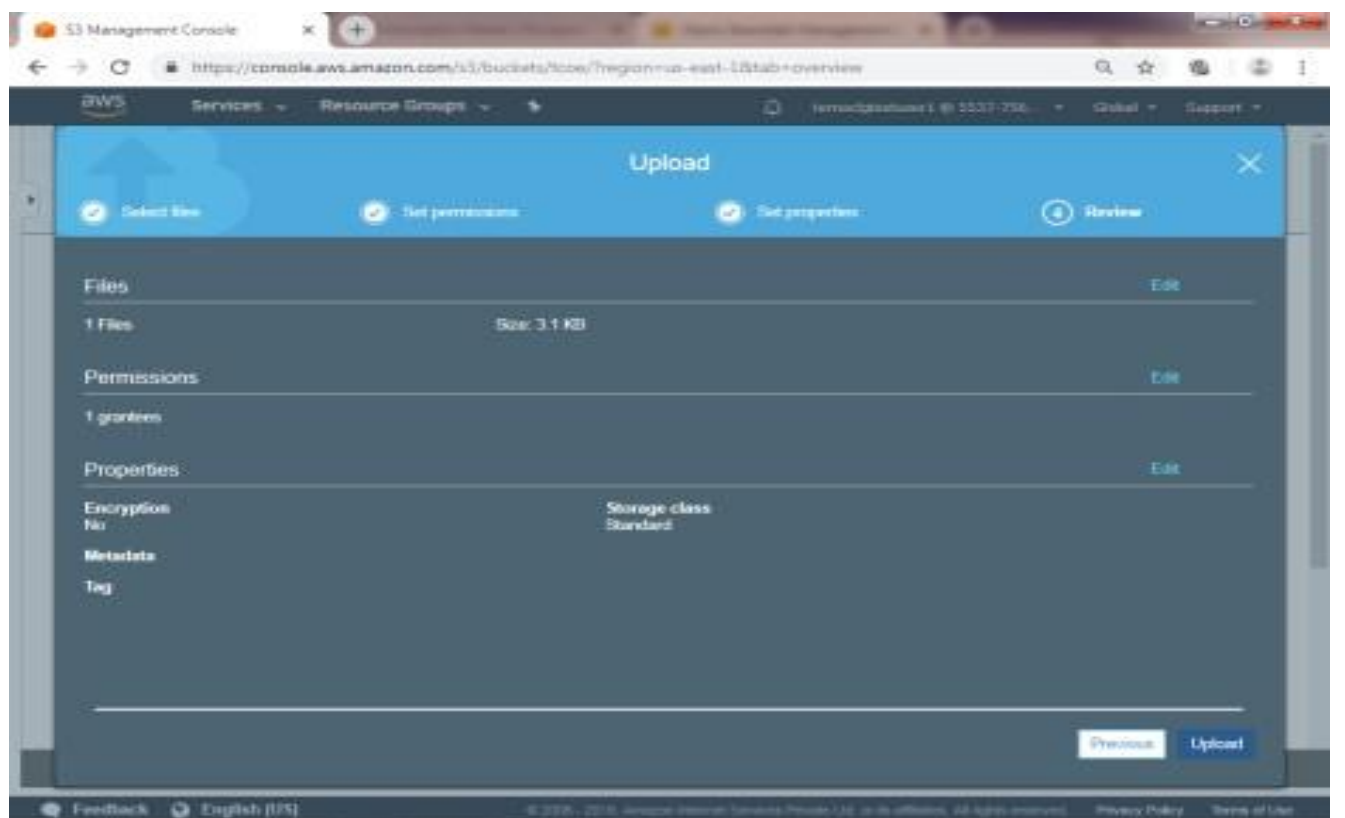
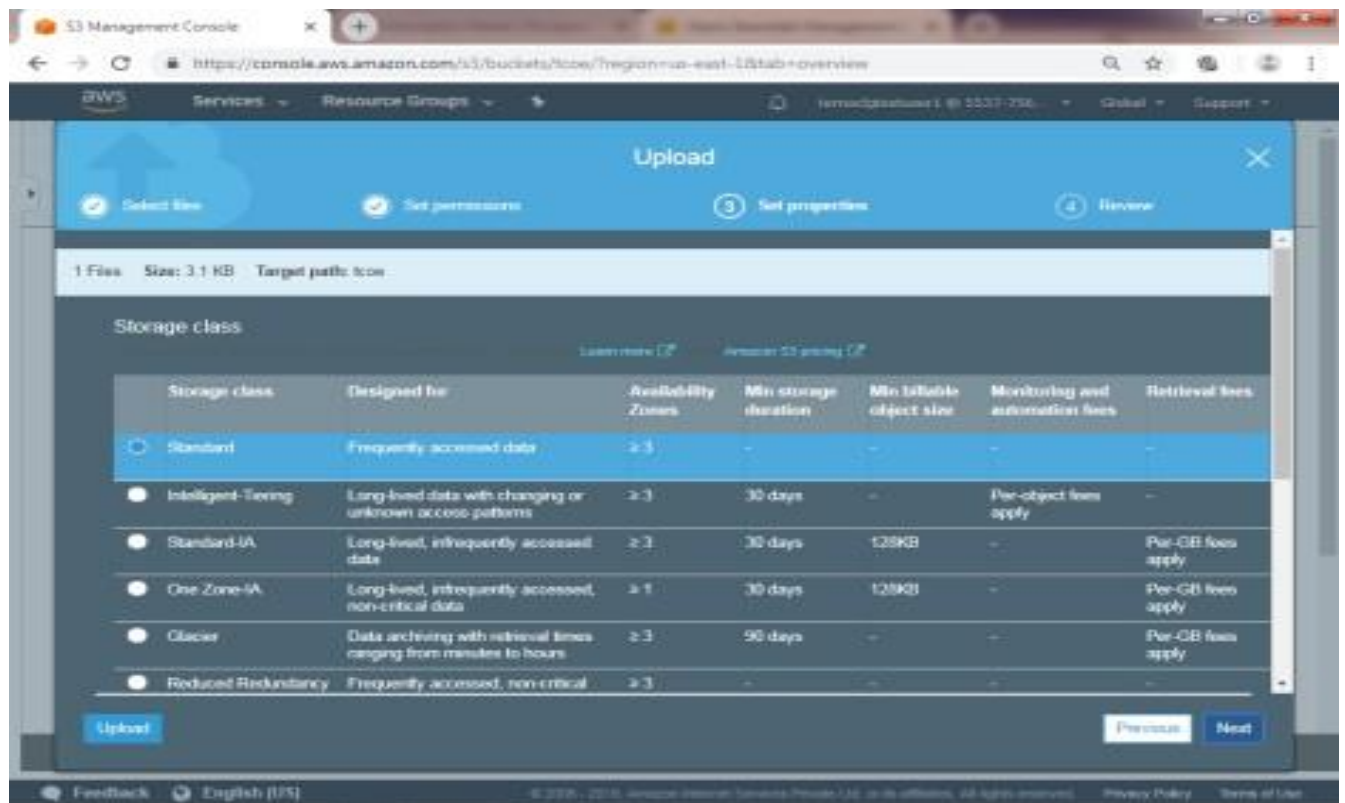


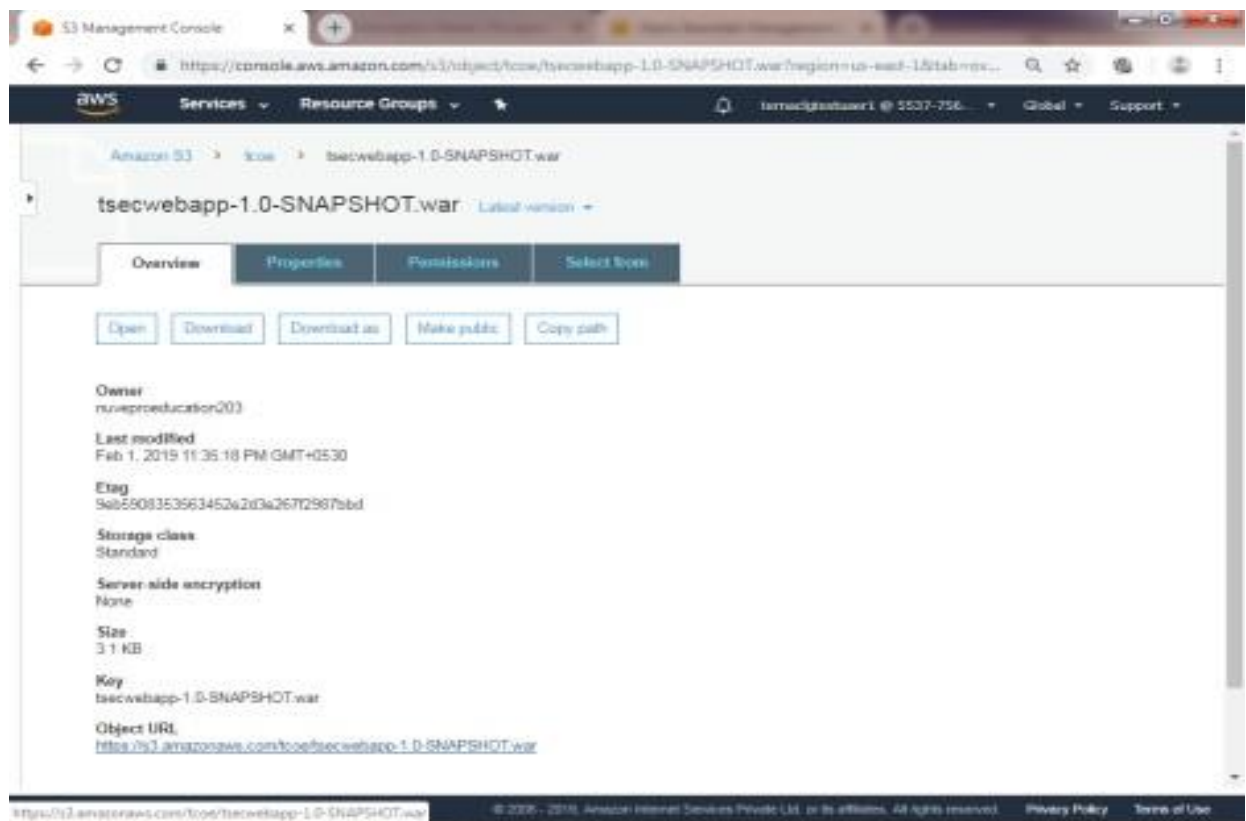
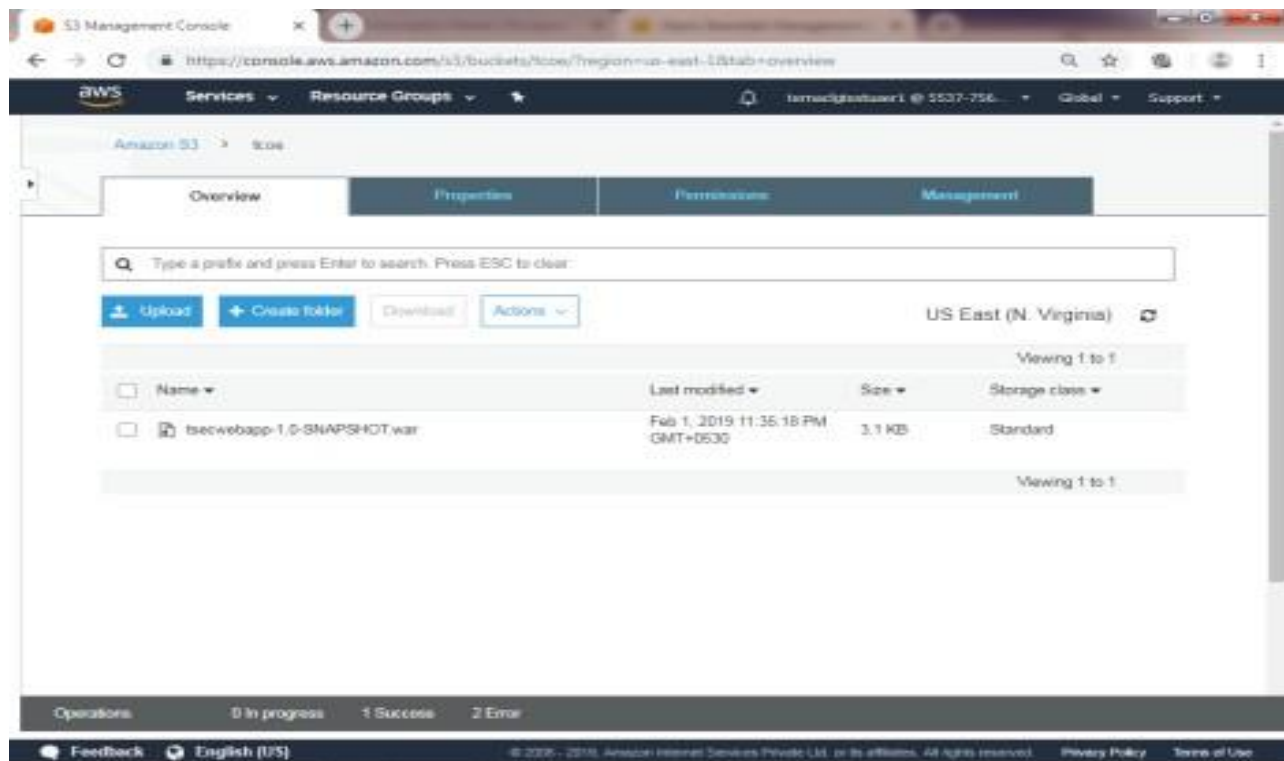












B) S3
Glaciers

