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Experiment 4: To study and Implement Storage as a Service using Own Cloud/
AWS S3

Theory - Storage as a Service (SaaS) is a cloud computing model that provides users with storage infrastructure and related services over the internet. Amazon Web Services (AWS) provides a range of SaaS options for storage, including:

Amazon S3 (Simple Storage Service): A highly scalable object storage service that is designed to store and retrieve any amount of data from anywhere on the web.

Amazon EBS (Elastic Block Store): A high-performance block storage service that is designed for use with Amazon EC2 instances.

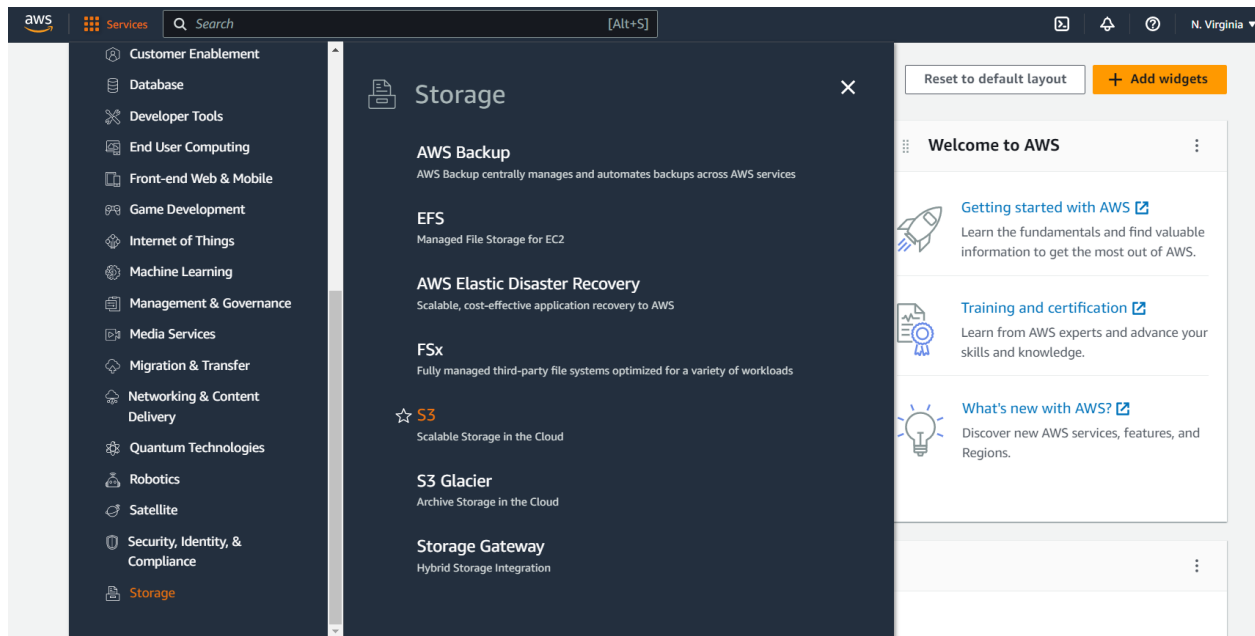
Amazon Glacier: A secure, durable, and extremely low-cost storage service for data archiving and long-term backup.

Amazon EFS (Elastic File System): A fully-managed file storage service that is designed to be highly available and scalable.

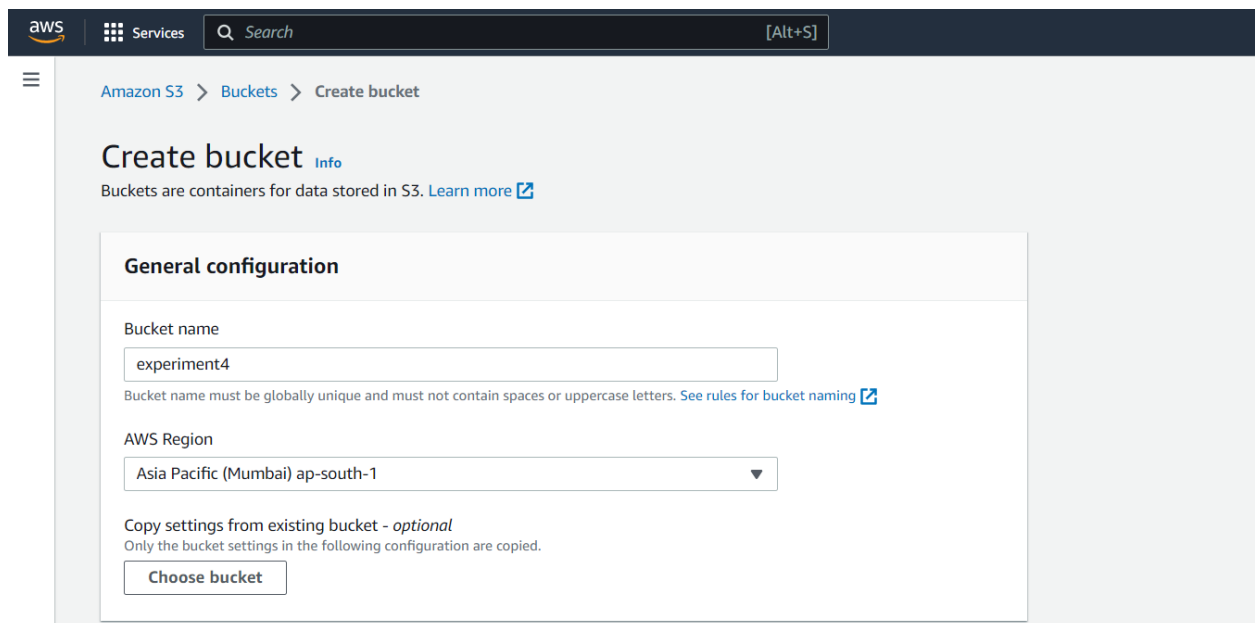
AWS Storage Gateway: A hybrid cloud storage service that enables users to seamlessly connect their on-premises environments to AWS storage services.

Each of these services is designed to meet specific storage needs, and they can be used individually or in combination to create a custom storage solution that best fits your organization's needs. Additionally, AWS provides a range of tools and services to help you manage your storage resources, including monitoring, analytics, and security features.

Step 1: In AWS, Services ;Storage ; S3



Step 2: click on create bucket



Step 3: Adding Bucket name and choosing AWS Region

aws

Services

Search

[Alt+S]

Disable

Enable

Tags (0) - optional

You can use bucket tags to track storage costs and organize buckets. [Learn more](#)

No tags associated with this bucket.

Add tag

Default encryption [Info](#)

Server-side encryption is automatically applied to new objects stored in this bucket.

Encryption key type [Info](#)

Amazon S3 managed keys (SSE-S3)

AWS Key Management Service key (SSE-KMS)

Bucket Key

When KMS encryption is used to encrypt new objects in this bucket, the bucket key reduces encryption costs by lowering calls to AWS KMS. [Learn more](#)

Disable

Enable

Advanced settings

After creating the bucket you can upload files and folders to the bucket, and configure additional bucket settings.

Cancel

Create bucket

Step 4: Enable Bucket Versioning

aws

Services

Search

[Alt+S]

Global

ManavPahilwani

Amazon S3

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Buckets

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight

AWS Marketplace for S3

Amazon S3 > Buckets

Account snapshot

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

View Storage Lens dashboard

Buckets (2) [Info](#)

Buckets are containers for data stored in S3. [Learn more](#)

Refresh

Copy ARN

Empty

Delete

Create bucket

Find buckets by name

1

Name	AWS Region	Access	Creation date
elasticbeanstalk-ap-south-1-343561994611	Asia Pacific (Mumbai) ap-south-1	Objects can be public	February 9, 2023, 13:44:28 (UTC+05:30)
staas	Asia Pacific (Mumbai) ap-south-1	Bucket and objects not public	April 1, 2023, 11:48:01 (UTC+05:30)

Conclusion - In conclusion, AWS provides a wide range of Storage as a Service (SaaS) options to help organizations manage their storage needs. From highly scalable object storage with Amazon S3 to secure and low-cost data archiving with Amazon Glacier, AWS provides a flexible and customizable solution to meet various storage requirements.