INTERNSHIP: INTERIM PROJECT REPORT

Internship Project Title	TNSDC RIO-125: Project -1 Developing Web Application on AWS
Name of the Company	TCS ion
Name of the Industry Mentor	Krishna Sharma
Name of the Institute	Government College of Engineering, Salem

Start Date	End Date	Total Effort (hrs.)	Project Environment	Tools used
26-04-2023	01-05-2023	21.5	Web browser (Brave), Operating System (Windows)	Amazon S3, AWS Console

Milestone #	1	Milestone:	Create s3 Bucket and store objects.

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Acknowledgements

I would like to express my sincere gratitude to the industry mentor and the entire team of TCS ION for providing me with this opportunity to learn and work on the project. I thank for their guidance and support as well as for providing necessary information regarding the project.

Objective

The objective of this internship is to develop a web application using AWS services, such as S3, EC2, and VPC, and gain practical experience in cloud computing and web development.

Introduction/Description of Internship

This internship involves developing a web application on AWS, which provides a reliable, scalable, secure, and highly performing infrastructure for web applications. The web application consists of a static website hosted on S3 and a dynamic website hosted on EC2. The internship aims to develop practical skills in cloud computing, web development, and project management.

Internship Activities

During the internship, I have completed the following activities:

- Conducted research on AWS services and web development
- Set up the development environment and AWS account
- Configured the S3 bucket.

Day – 1:

- Attended the pre-test
- Made a post in the Digital discussion room
- Started exploring the AWS portal and seeing requirements for project

Day – 2:

- Watched the Welcome Kit videos to understand the way of doing the internship.
- Completed the day wise plan material to know the workflow.
- Gone through the Industry Project Section for more Information about the project I will be working on during the time period.

Day – 3:

- Watched the Welcome Kit videos to understand the way of doing the internship.
- Completed the day wise plan material to know the workflow.
- Gone through the Industry Project Section for more Information about the project I will be working on during the time period.

Day – 4:

- Develop a detailed project plan
- Starting to setup S3 Bucket storge service
- Starting to prepare Interim report 1 .

Day – 5 & 6:

- Completed bucket creation.
- Completed Milestone 1

Approach / Methodology

The approach for this project is to develop a web application on AWS using a combination of different services, including AWS S3, AWS EC2 IaaS, and VPC. The project will involve creating a static website and a dynamic website, and then hosting them on AWS using the appropriate services.

The methodology involves the following steps:

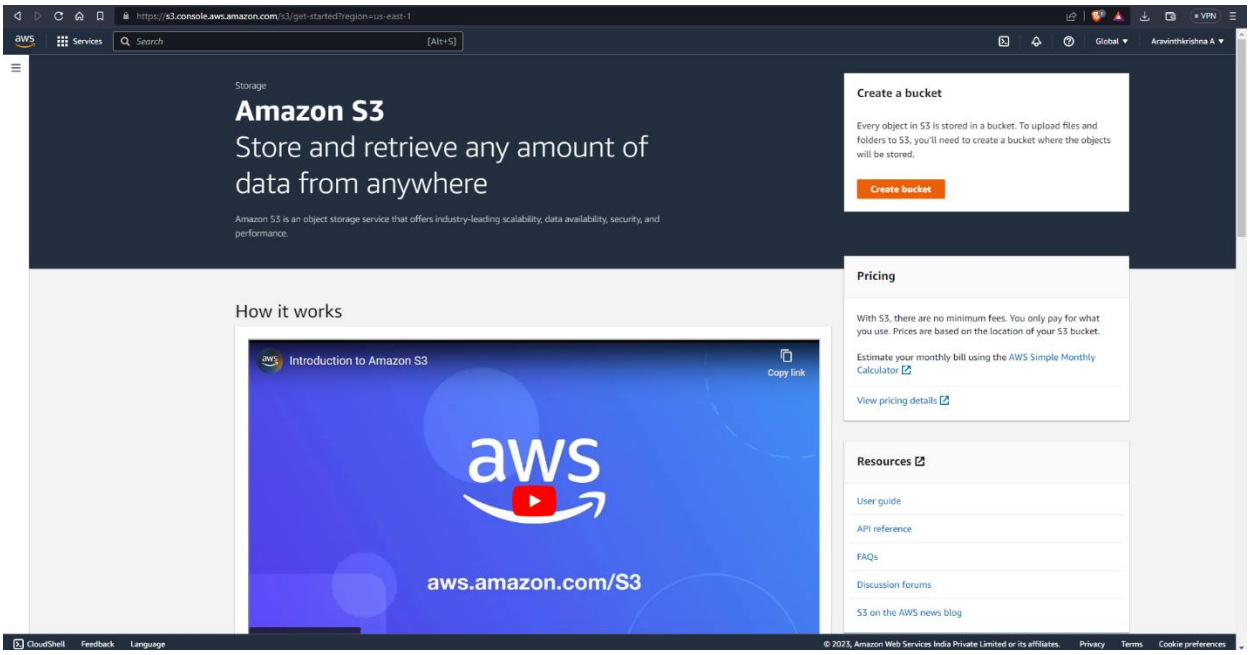
- Plan the project and define the scope of work.
- Set up AWS account and create the necessary resources.
- Create an S3 bucket and store objects.

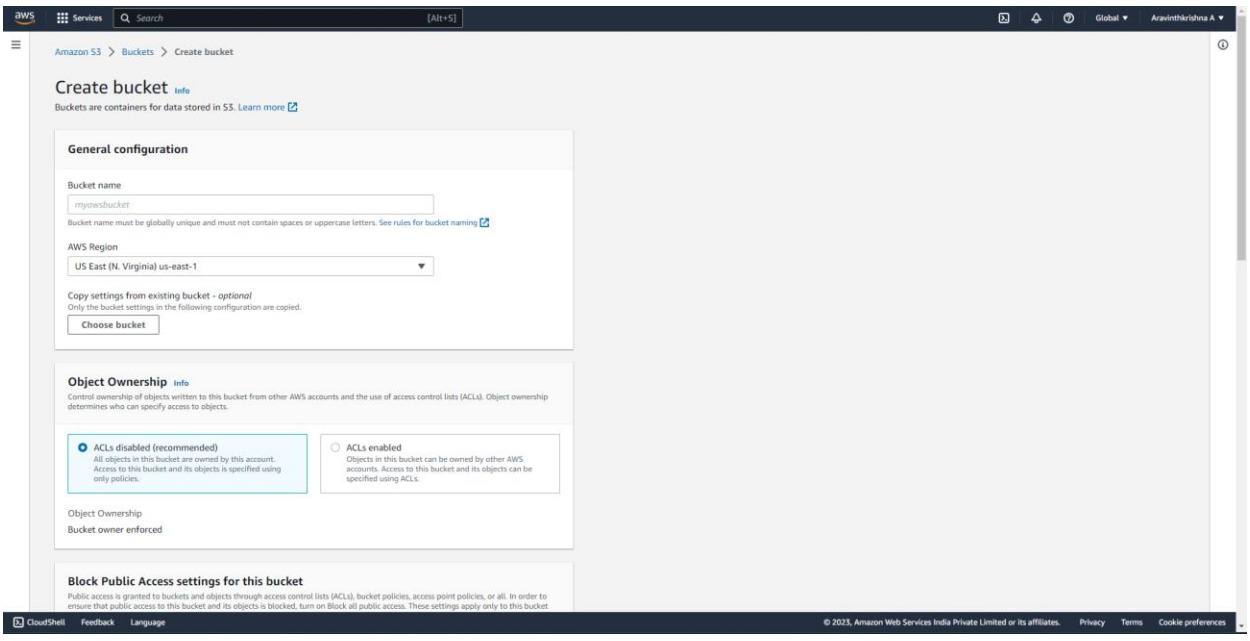
Exceptions / Exclusions

The internship did not cover advanced topics in cloud computing and web development, such as serverless architecture and machine learning. It also did not cover non-technical aspects, such as marketing and business strategy.

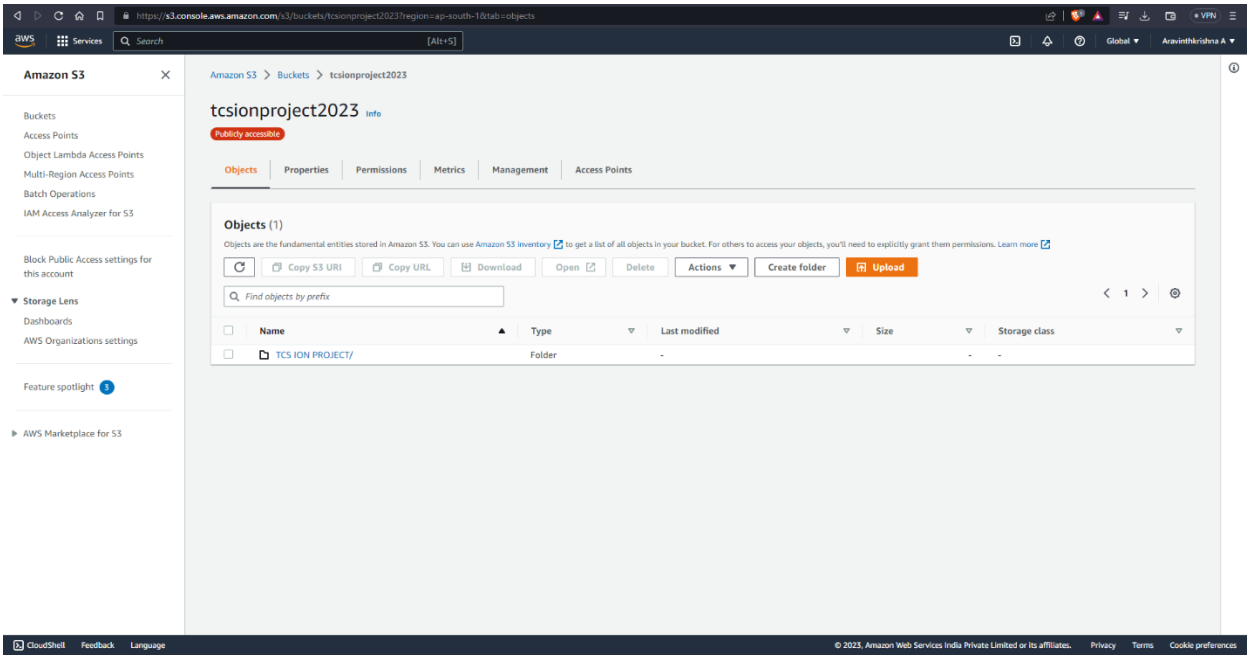
Charts, Table, Diagrams

- Starting to create S3 Bucket storage

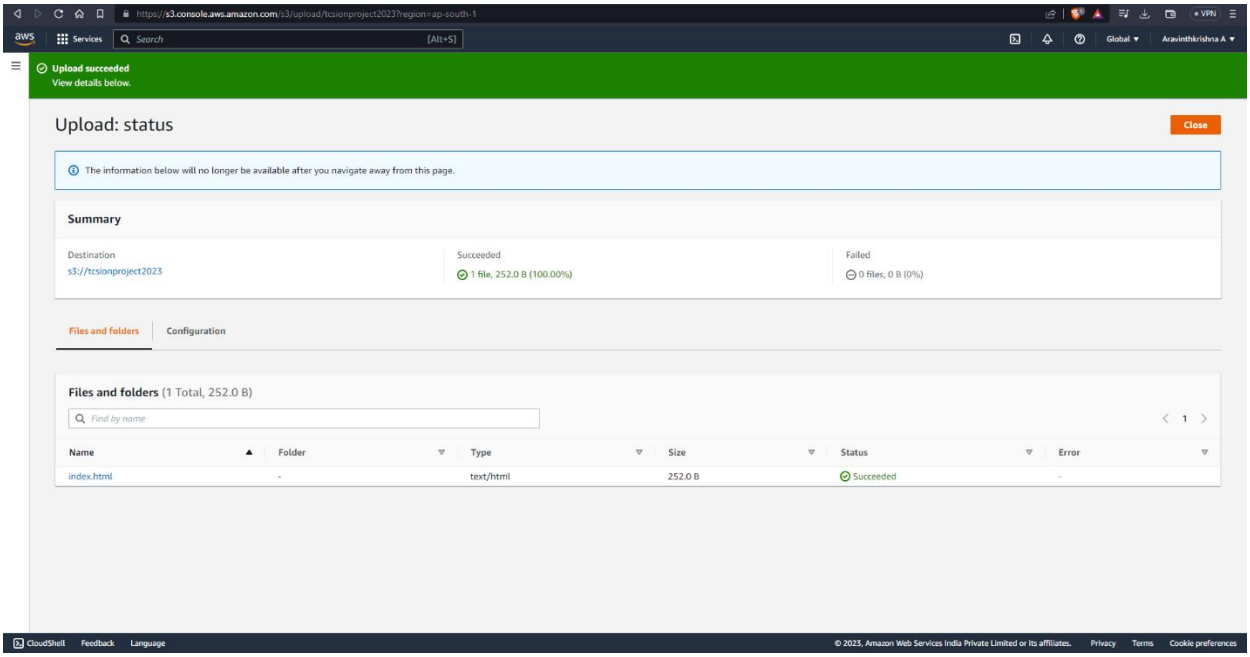




- Completed Bucket creation



- Stored an object.



Reflections on the Internship

The internship has been a valuable learning experience for me, as it has allowed me to apply theoretical knowledge into practice and develop practical skills in cloud computing and web development.

Enhancement scope

The Enhancement Scope for this project can include further optimization and scaling of the application by incorporating additional AWS services, such as Elastic Load Balancing and Auto Scaling. Additionally, implementing features such as user authentication and data encryption can enhance the security and reliability of the web application. Another potential enhancement could be the integration of a Content Delivery Network (CDN) to improve the delivery of content to users. Finally, implementing monitoring and logging tools can provide valuable insights into the performance and usage of the application, enabling proactive troubleshooting and optimization