

# Vidyavardhini's College of Engineering and Technology Department of Artificial Intelligence & Data Science

AY: 2023-24

Class:	TE	Semester:	VI
<b>Course Code:</b>	CSL605	Course Name:	Skill Based Lab course : Cloud Computing

Name of Student:	Soham Ajit Dahanukar
Roll No.:	13
<b>Experiment No.:</b>	5
Title of the Experiment:	To study and Implement Storage as a Service using AWS S3.
Date of Performance:	
Date of Submission:	

#### **Evaluation**

Performance Indicator	Max. Marks	Marks Obtained
Performance	5	
Understanding	5	
Journal work and timely submission	10	
Total	20	

Performance Indicator	<b>Exceed Expectations (EE)</b>	Meet Expectations (ME)	<b>Below Expectations (BE)</b>
Performance	4-5	2-3	1
Understanding	4-5	2-3	1
Journal work and timely submission	8-10	5-8	1-4

## Checked by

Name of Faculty : Signature :

**Date** 



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#### **Experiment No. 5**

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

**Objective:** Understand the concept of SaaS and implement using Own Cloud which gives universal access to files through a web interface.

#### Theory:

- SaaS is defined as the software distribution model deployed on the internet in which a cloud service provider provides applications.
- It is also known as "on-demand software" or "pay-as-you-go application". Here the customer licenses their product via SaaS-providers.
- SaaS market is a rapid-growing one, and with this fast-growing service, SaaS will soon become an active cloud service technology for every organization and company.
- In SaaS, the software & the applications associated with it are centrally located on the cloud server. Users can access them via a thin client connecting application, i.e., using a web browser.
- The SaaS provides various applications such as: CRM applications, Solution to Human Resource (HR), Pre-existing Billing & Invoicing systems, Other daily usable application suites.

#### • Advantages of SaaS

- Easy to buy: SaaS's cost is based on monthly or yearly fees allowing new organizations to access the world of business at a low-cost, at least lesser than licensed application.
- Minimization of Hardware Requirement: All SaaS software is hosted remotely & so there is no or lesser need for hardware for the organizations.
- Special Software: No special software versions are required, as all the users will use the same software version. SaaS reduces IT costs by outsourcing hardware & software maintenance.
- Low Maintenance: SaaS removes the daily problem of installing, maintaining, and updating software. The set-up cost of SaaS is also less in comparison to enterprise software.

#### • Disadvantages of SaaS

- Latency factor: comes due to a variable distance of data between the cloud & the end-user, and hence a possibility of latency may arise while interacting with applications.
- Internet Connection: is a major issue. Without an internet connection, SaaS applications are unusable.
- Switching between SaaS vendors in case of any change is very difficult.
- The SaaS cloud service is not very secure as in-house deployment.

#### **Steps:**

Step-1: click on create bucket

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- Step-2: Give Bucket name & select region for storage
- Step-3: Keep object ownership setting as ACLs Disabled as by-default
- Step-4: Disable block all public access checkbox
- Step-5: Select the checkbox for Turning off block all public access might result in this bucket and the objects within becoming public
- Step-6: Keep bucket versioning as disabled and add tags if required.
- Step-7: Keep default encryption disabled and click on create bucket button
- You can now see the successful creation of your bucket
- Step-8: now click on the bucket that you have created
- Step-9: You can either create a folder here or upload an existing file in the bucket
- Step-10: now click on upload button and click on add files button browse your local machine and select which file you need to upload on S3 next click on upload button at bottom right end

Now you can check the upload status screen

Now click on close button

- Step-11: Select properties and scroll down to Static website hosting option which is disabled now click on Edit option on right side
- Step-12: Enable the radio button and specify the file name in Index document which you have added in S3

Scroll down and save the changes at bottom right

- Step-13: Click on Permissions Tab
- Step-14: In bucket policy click on Edit option
- Step 15- after clicking on edit button paste the following code in bucket policy

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Note-Make sure that you add your bucket name in the code above

Scroll down and click on Save Changes button

Step-16: open your html file and click on Object URL

Step-17: Now for delete files click on checkbox of your file and then click on Delete Button.

Write permanently delete and click on delete object button

Now click on close button

Step-18: now come to Amazon S3 tab and select your bucket and then click on delete button

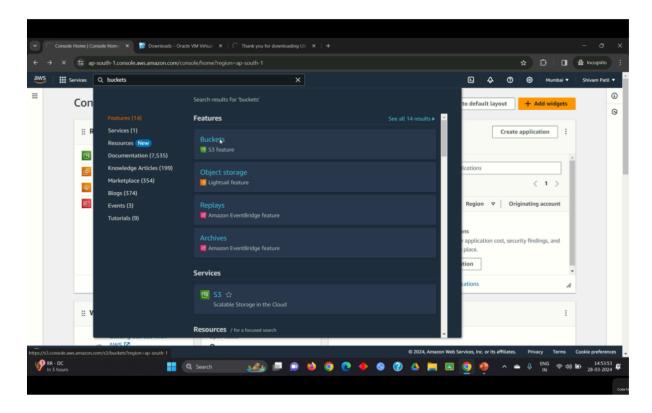
Write down your bucket name in delete bucket tab and click on delete button at bottom right

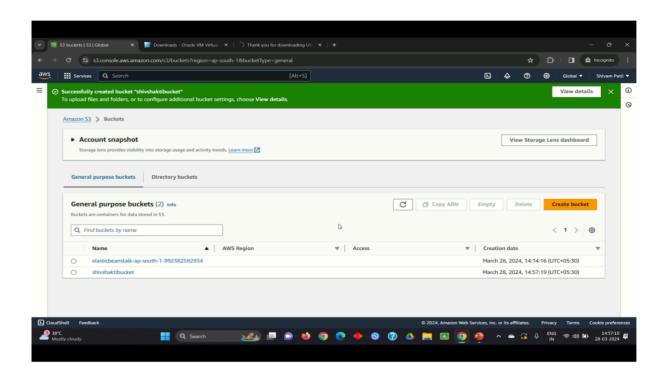
You can see that the bucket is deleted.



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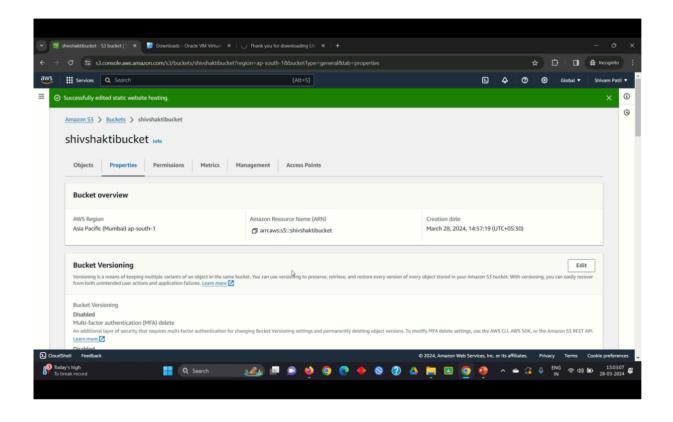
#### **Output/Observation:**

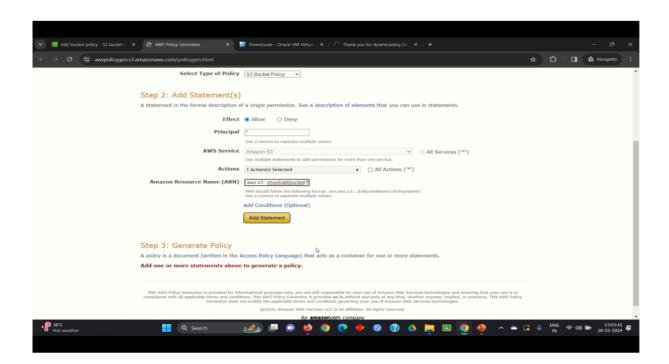






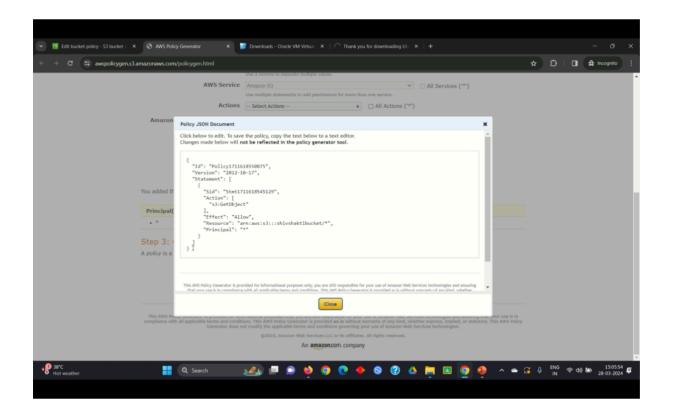
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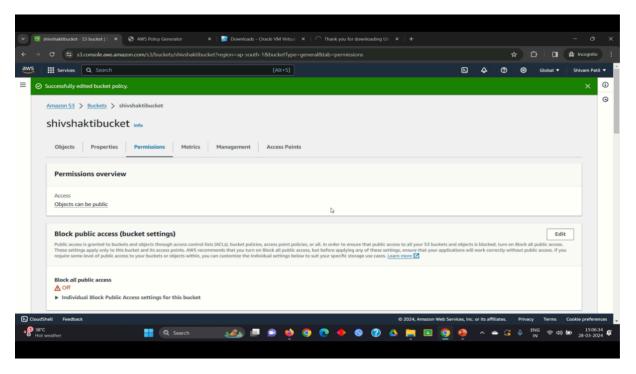






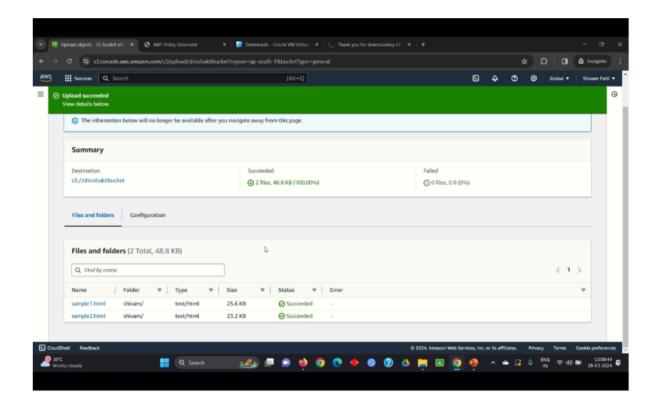
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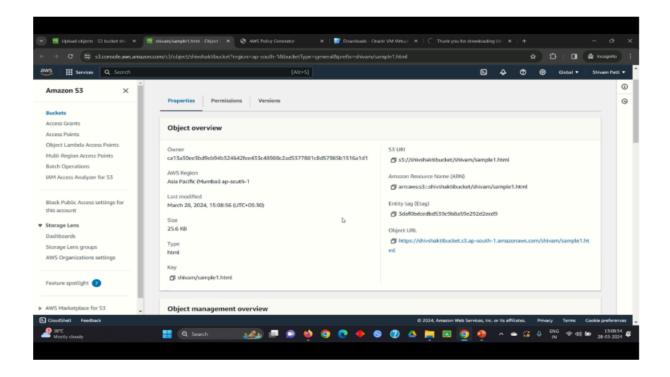






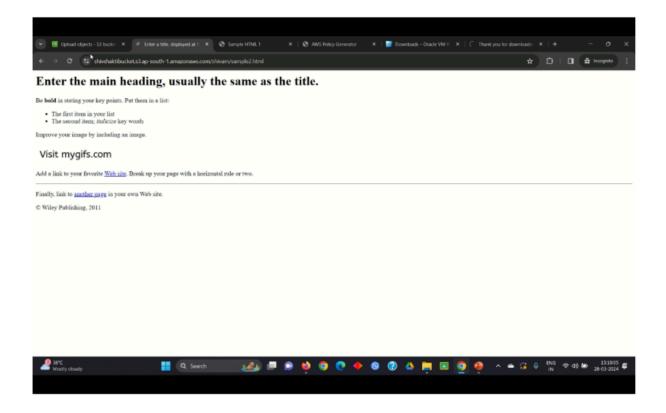
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Conclusion: Storage as a Service in Amazon Web Services (AWS) provides scalable and durable storage solutions, such as Amazon S3 (Simple Storage Service) and Amazon EBS (Elastic Block Store), accessible via APIs. It offers reliable data storage with high availability, durability, and security, eliminating the need for provisioning and managing physical storage infrastructure. Additionally, AWS storage services offer flexible pricing options, pay-as-you-go billing, and seamless integration with other AWS services, empowering organizations to store, manage, and access data efficiently in the cloud.