

## Practical-4 Storage as a service using AWS.

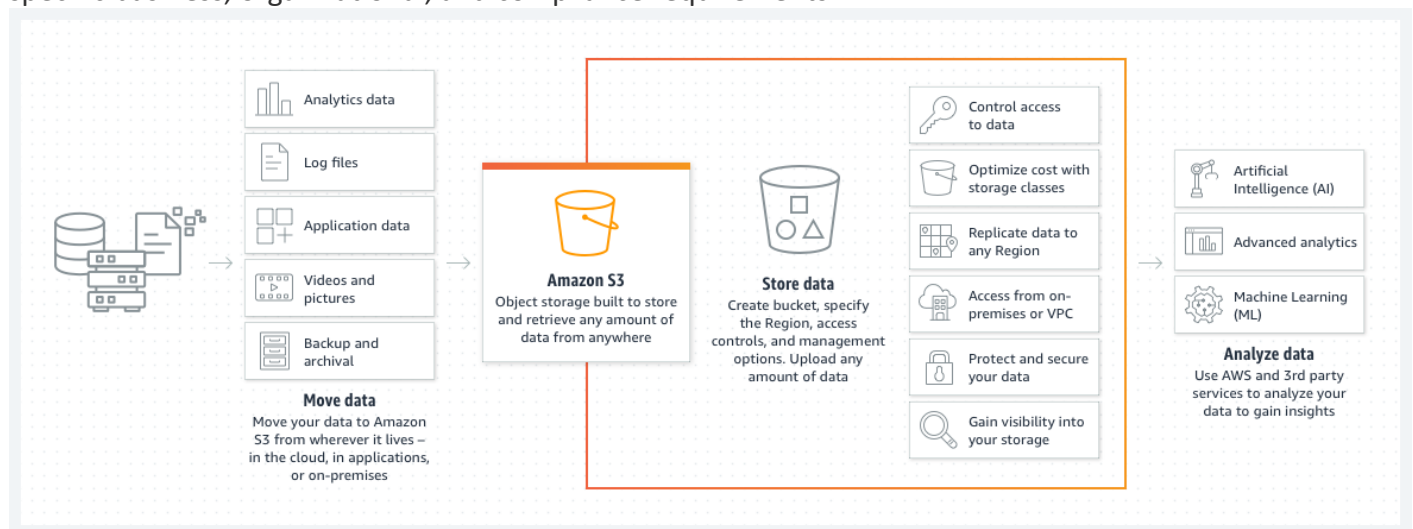
**Date:-29/02/2024**

**Writeup:-**

### ● **Storage as a service-s3**

Amazon Simple Storage Service (Amazon S3) is an object storage service that offers industry-leading scalability, data availability, security, and performance. Customers of all sizes and industries can use Amazon S3 to store and protect any amount of data for a range of use cases, such as data lakes, websites, mobile applications, backup and restore, archive, enterprise applications, IoT devices, and big data analytics. Amazon S3 provides management features so that you can optimize, organize, and configure access to your data to meet your specific business, organizational, and compliance requirements.

Amazon Simple Storage Service (Amazon S3) is an object storage service offering industry-leading scalability, data availability, security, and performance. Customers of all sizes and industries can store and protect any amount of data for virtually any use case, such as data lakes, cloud-native applications, and mobile apps. With cost-effective storage classes and easy-to-use management features, you can optimize costs, organize data, and configure fine-tuned access controls to meet specific business, organizational, and compliance requirements.



### ● **S3 use cases**

#### **Build a data lake**

Run big data analytics, artificial intelligence (AI), machine learning (ML), and high performance computing (HPC) applications to unlock data insights.

#### **Back up and restore critical data**

Meet Recovery Time Objectives (RTO), Recovery Point Objectives (RPO), and compliance requirements with S3's robust replication features.

#### **Archive data at the lowest cost**

Move data archives to the Amazon S3 Glacier storage classes to lower costs, eliminate operational complexities, and gain new insights.

### **Run cloud-native applications**

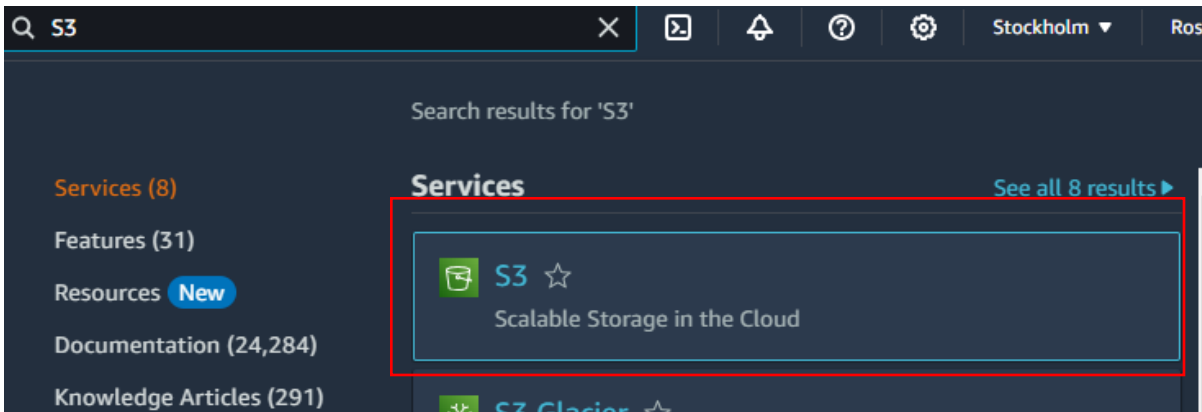
Build fast, powerful mobile and web-based cloud-native apps that scale automatically in a highly available configuration

### ● **Steps for s3**

1. Sign in to the AWS Management Console and open the Amazon S3 console at <https://console.aws.amazon.com/s3/>.
2. Create a bucket
3. Add an object to Bucket
4. Add a folder to Bucket
5. View an Object
6. Move an Object
7. Delete an Object and Bucket
8. To empty a bucket
9. To delete a bucket
10. Hosting a Static Website on Amazon S3
11. AWS user to control S3

**Implement S3 for :**

1. uploading a file, video, etc.

**Step 1:- Signin to AWS -> search for S3 services****Step 2:- Create a bucket -> Select AWS Region -> Provide a Bucket name -> Keep the further settings as default -> then select create bucket option****General configuration**

AWS Region

Asia Pacific (Mumbai) ap-south-1

Bucket name [Info](#)

phoenix2002

Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)Copy settings from existing bucket - *optional*

Only the bucket settings in the following configuration are copied.

[Choose bucket](#)

Format: s3://bucket/prefix

**General purpose buckets (2) [Info](#)**

Buckets are containers for data stored in S3.

 Find buckets by name

Name

- ☐ [elasticbeanstalk-eu-north-1-762469512138](#)
- ☐ [phoenix2002](#)

Select the  
bucket created

### Step 3- Upload any file(image videos etc) -> Add files

The screenshot shows the Amazon S3 console interface for the bucket 'phoenix2002'. The 'Objects (0)' section is active, displaying a message: 'No objects. You don't have any objects in this bucket.' A red box highlights the 'Upload' button. Below this, the 'Upload' section is shown, which includes a search bar, a table of files and folders, and a destination section.

**Upload** Info

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.

**Files and folders** (1 Total, 69.8 KB)

All files and folders in this table will be uploaded.

<input type="checkbox"/>	Name	Folder
<input type="checkbox"/>	panda.jpg	-

**Destination** Info

Destination  
s3://phoenix2002

**Destination details**  
Bucket settings that impact new objects stored in the specified destination.

### Step 4:- Select the file and click on Upload

This screenshot shows the 'Upload' interface with the file 'panda.jpg' selected. The 'Files and folders' table has a checkbox next to the file name, which is checked. The 'Destination' section is also visible, showing the destination 's3://phoenix2002'.

**Files and folders** (1 Total, 69.8 KB)

All files and folders in this table will be uploaded.

<input checked="" type="checkbox"/>	Name	Folder
<input checked="" type="checkbox"/>	panda.jpg	-

**Destination** Info

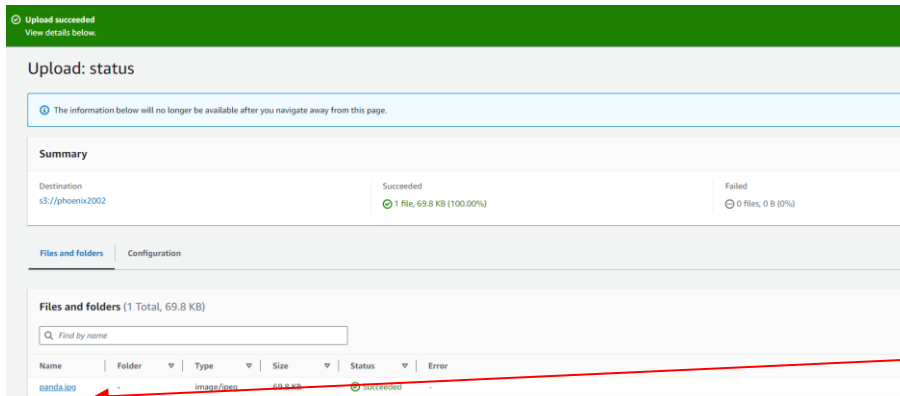
Destination  
s3://phoenix2002

**Destination details**  
Bucket settings that impact new objects stored in the specified destination.

**Permissions**  
Grant public access and access to other AWS accounts.

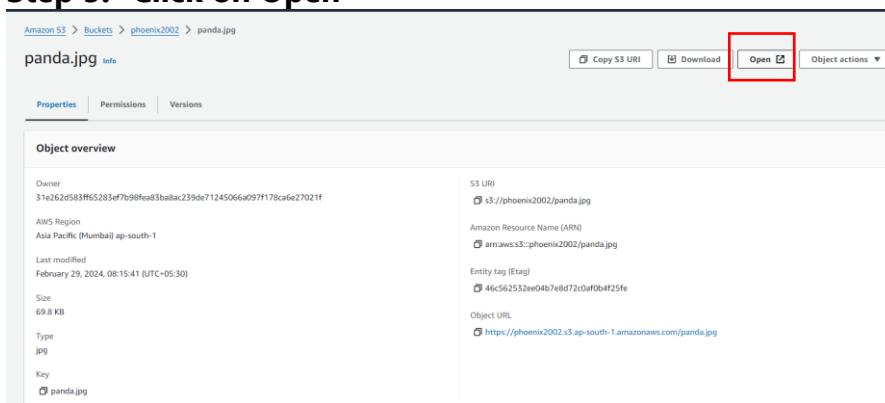
**Properties**  
Specify storage class, encryption settings, tags, and more.

Cancel **Upload**



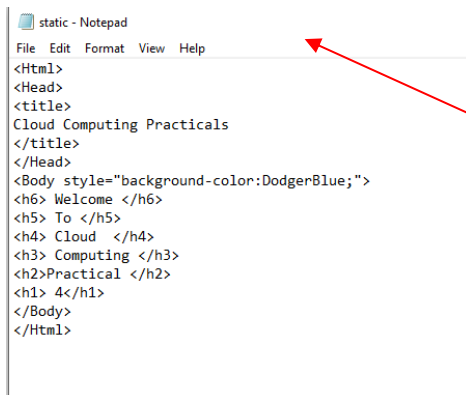
Click on the

## Step 5:- Click on Open

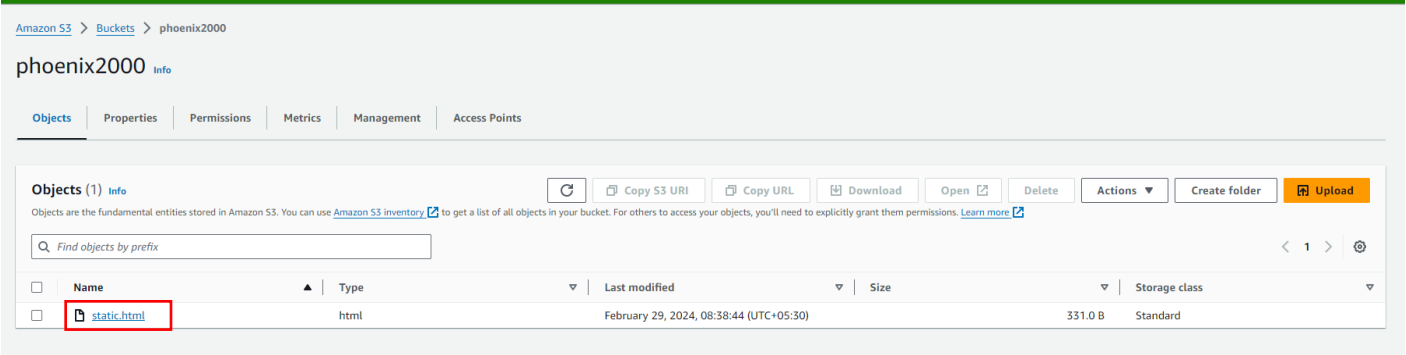


## 2. uploading a static website

Follow the same steps till Step 2 and upload any static file -> click on the link



This is the sample static file. save this file by .html extension



Follow step 5 given above

