
# SRI VENKATESWARA COLLEGE OF COLLEGE OF ENGINEERING AND TECHNOLOGY(AUTONOMOUS)

# CLOUD COMPUTING

presented by:--
G.ANUPA
21781A3240

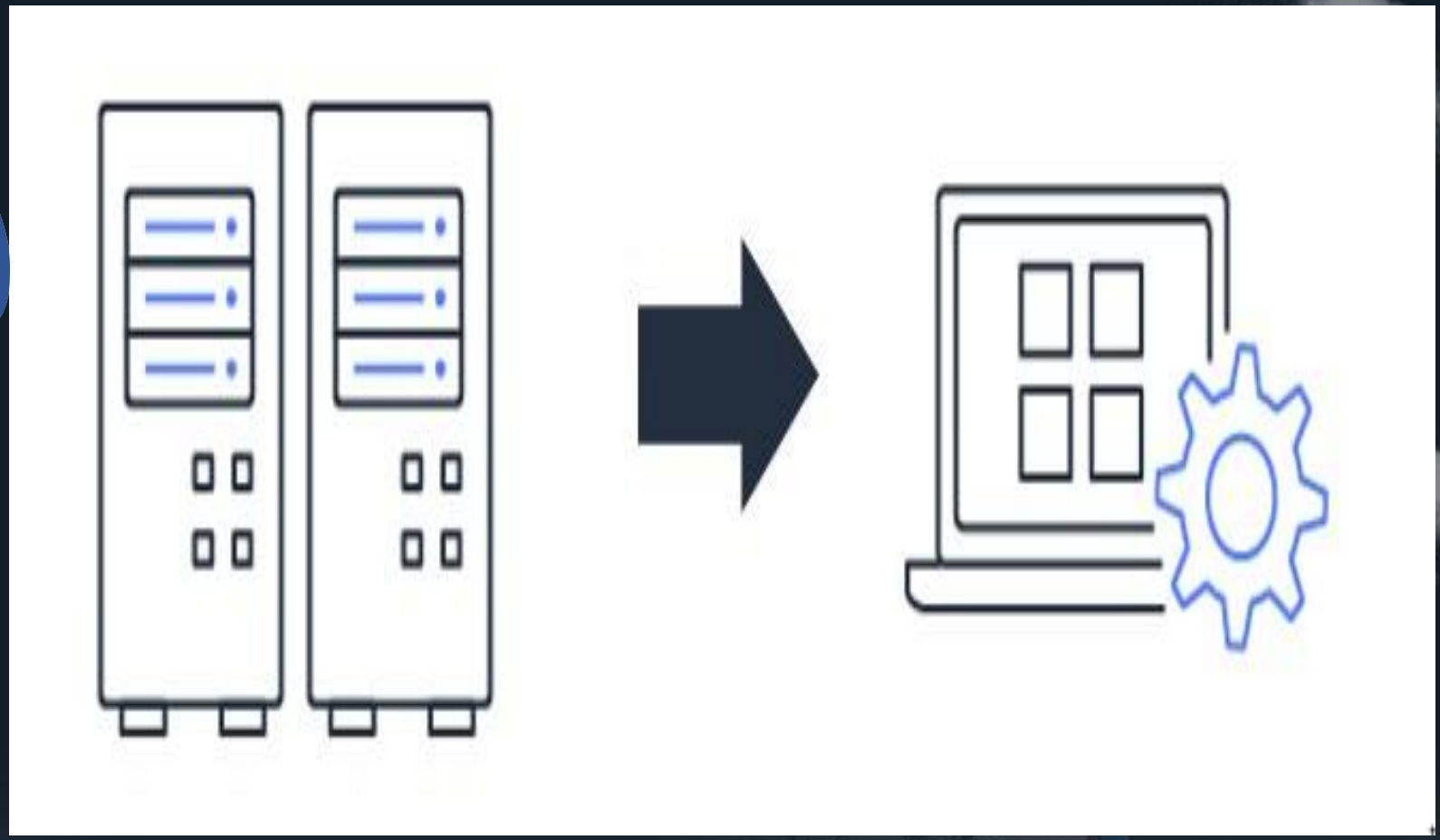
# CONTENTS:-

- What is Cloud Computing?
- Types of Clouds
- Cloud service models
- Advantages
- Disadvantages
- Project details
- Conclusion

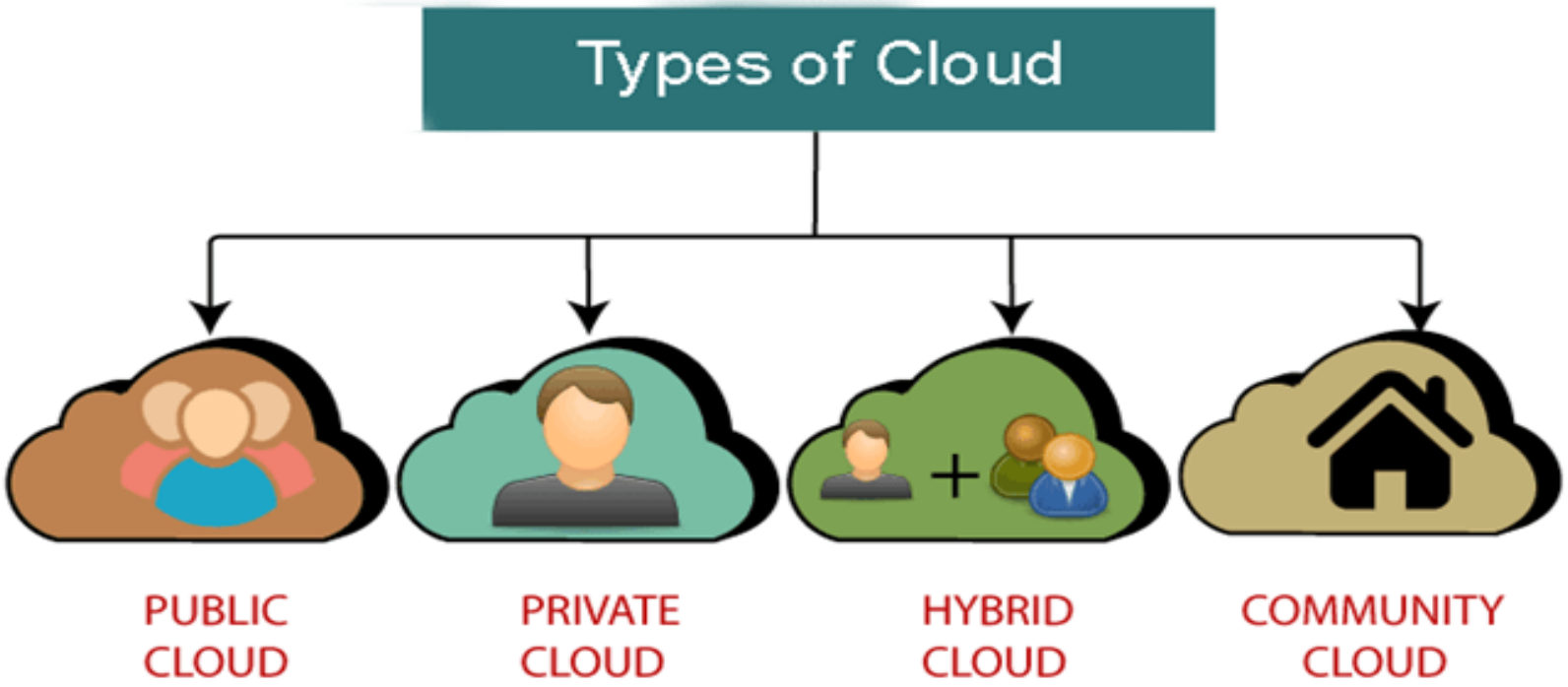
# What is cloud computing?


Cloud Computing is the delivery of computing services such as servers, storage, databases, networking, software, analytics, intelligence, and more, over the Cloud (Internet).

Definition2: Cloud computing enables you to stop thinking of your infrastructure as hardware, and instead think of it (and use it) as software



# ❑ Types of clouds:-



# PUBLIC CLOUD:

→The cloud resources that are owned and operated by a thirdparty cloud service provider are termed as public clouds.

→It delivers computing resources such as servers, software, and storage over the internet.

# PRIVATE CLOUD:

The cloud computing resources that are exclusively used inside a single business or organization are termed as a private cloud.

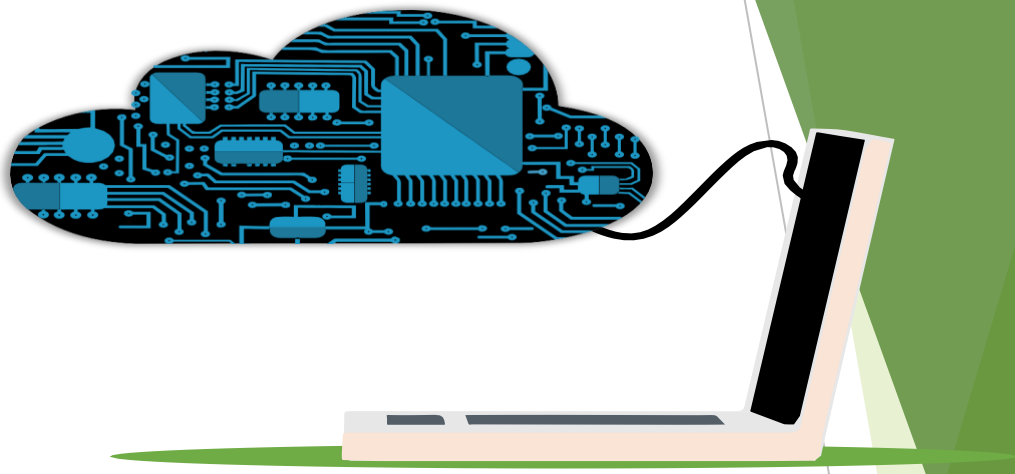
# HYBRID CLOUD:

The hybrid cloud is any cloud infrastructure environment that combines both public and private cloud solutions. The resources are typically orchestrated as an integrated infrastructure environment.

- Organizations can use private cloud environments for their IT workloads and complement the infrastructure with public cloud resources to accommodate occasional spikes in network traffic.

- The best hybrid cloud provider companies are **Amazon, Microsoft, Google, Cisco,** and **NetApp**

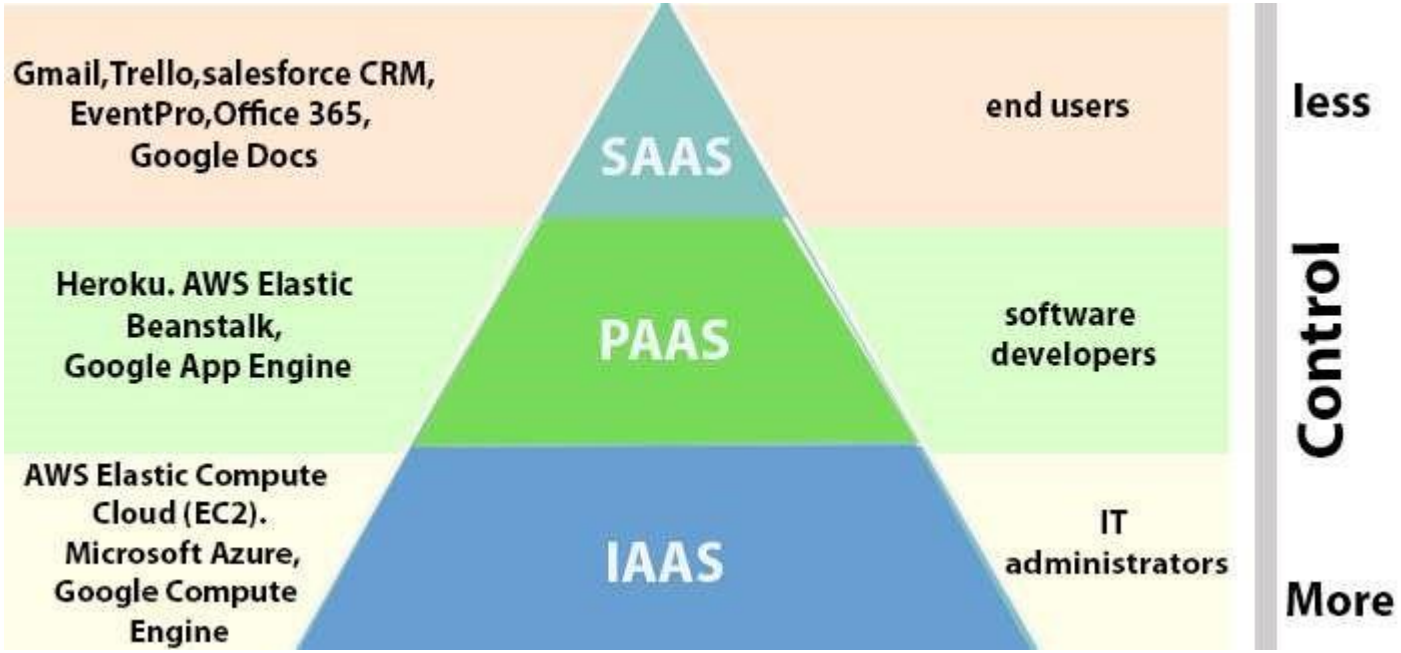
# Community Cloud:



Community cloud is a cloud infrastructure that allows systems and services to be accessible by a group of several organizations to share the information. It is owned, managed, and operated by one or more organizations in the community, a third party, or a combination of them.

- **Example:** Our government organization within India may share computing infrastructure in the cloud to manage data

# CLOUD SERVICE MODELS :



# Infrastructure as a Service (IaaS):

- In IaaS, we can rent IT infrastructures like servers and virtual machines (VMs), storage, networks, operating systems from a cloud service vendor.
- We can create VM running Windows or Linux and install anything we want on it.
- Using IaaS, we get maximum flexibility, but still, we need to put more effort into maintenance.

# ❑ Platform as a service(Paas):

- Paas is a complete development and deployment environmentin the cloud,cloud-enabled enterprise Applications.

- paas is designed to support the complete web applicationlifecycle:building,testing,deploying,updating and managing.

# Software as a Service (SaaS):

- It provides a centrally hosted and managed software services to the end-users.
- E.g., Microsoft One Drive, Dropbox, WordPress, Office 365, and Amazon Kindle. SaaS is used to minimize the operational cost to the maximum extent.

# Advantages of Cloud Computing

Cost: It reduces the huge capital costs of buying hardware and software.

→Speed: Resources can be accessed in minutes, typically within a few clicks.

→Scalability: We can increase or decrease the requirement of resources according to the business requirements.

# Disadvantagesof Cloud Computing

→Dependency:

One of the major disadvantage of cloud computing is users dependency on the cloud providers .Internet users do not have their data stored with them.

→Risk:

Cloud Computing services means taking services from remote servers.There is always insecurity regarding stored documents because users do not have control over their software.

# Project:

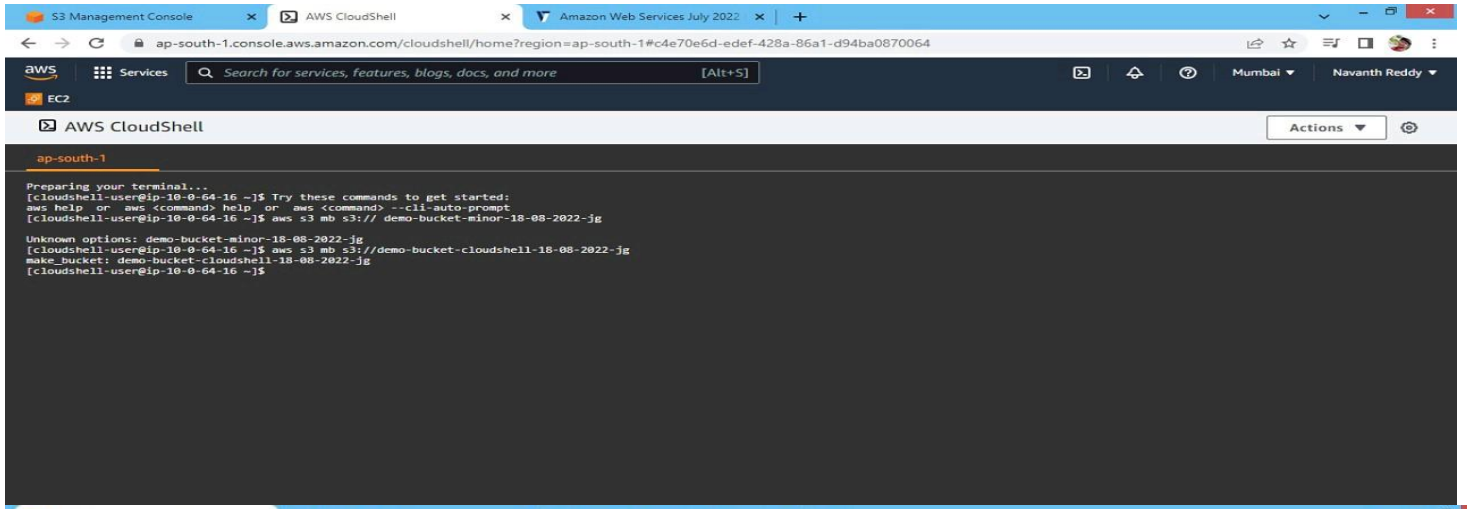
QUIZARO

## Minor Project

- **Project Name:**
  Amazon Web Services May Minor Project
- **Project Description:**

  1. Create an S3 bucket, enable versioning on it, host a static website on the s3 bucket then make some changes on your website, reupload it and them rollbackto your previous version.

  2. Create two EC2 web servers one with the apache http server installed on it and one with the nginx server installed on it and do all the installations using the userdata section of ec2.


S3 Management Console
AWS CloudShell
Amazon Web Services July 2022
ap-south-1.console.aws.amazon.com/cloudshell/home?region=ap-south-1#c4e70e6d-edef-428a-86a1-d94ba0870064
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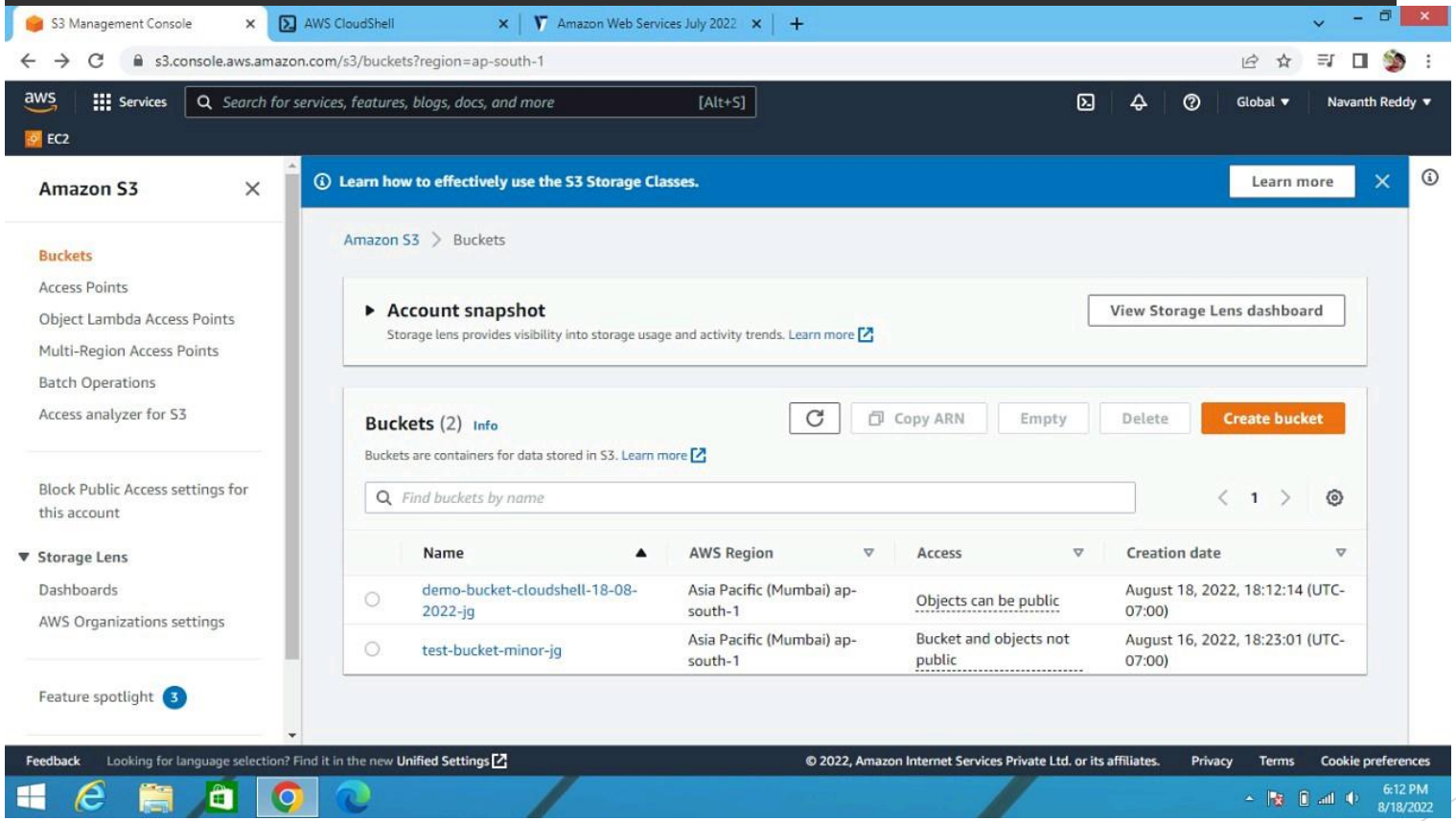
EC2
AWS CloudShell
Actions
ap-south-1
Preparing your terminal...
[cloudshell-user@ip-10-0-64-16 ~]$ Try these commands to get started:
aws help or aws <command> help or aws <command> --cli-auto-prompt
[cloudshell-user@ip-10-0-64-16 ~]$ aws s3 mb s3:// demo-bucket-minor-18-08-2022-jg
Unknown options: demo-bucket-minor-18-08-2022-jg
[cloudshell-user@ip-10-0-64-16 ~]$ aws s3 mb s3://demo-bucket-cloudshell-18-08-2022-jg
make_bucket: demo-bucket-cloudshell-18-08-2022-jg
[cloudshell-user@ip-10-0-64-16 ~]$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Amazon S3
Learn how to effectively use the S3 Storage Classes.
Learn more
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
Access analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight 3
Amazon S3 > Buckets
Account snapshot
Storage lens provides visibility into storage usage and activity trends. Learn more
View Storage Lens dashboard
Buckets (2) Info
Copy ARN
Empty
Delete
Create bucket
Buckets are containers for data stored in S3. Learn more
Find buckets by name
1
Name
AWS Region
Access
Creation date
demo-bucket-cloudshell-18-08-2022-jg
Asia Pacific (Mumbai) ap-south-1
Objects can be public
August 18, 2022, 18:12:14 (UTC-07:00)
test-bucket-minor-jg
Asia Pacific (Mumbai) ap-south-1
Bucket and objects not public
August 16, 2022, 18:23:01 (UTC-07:00)
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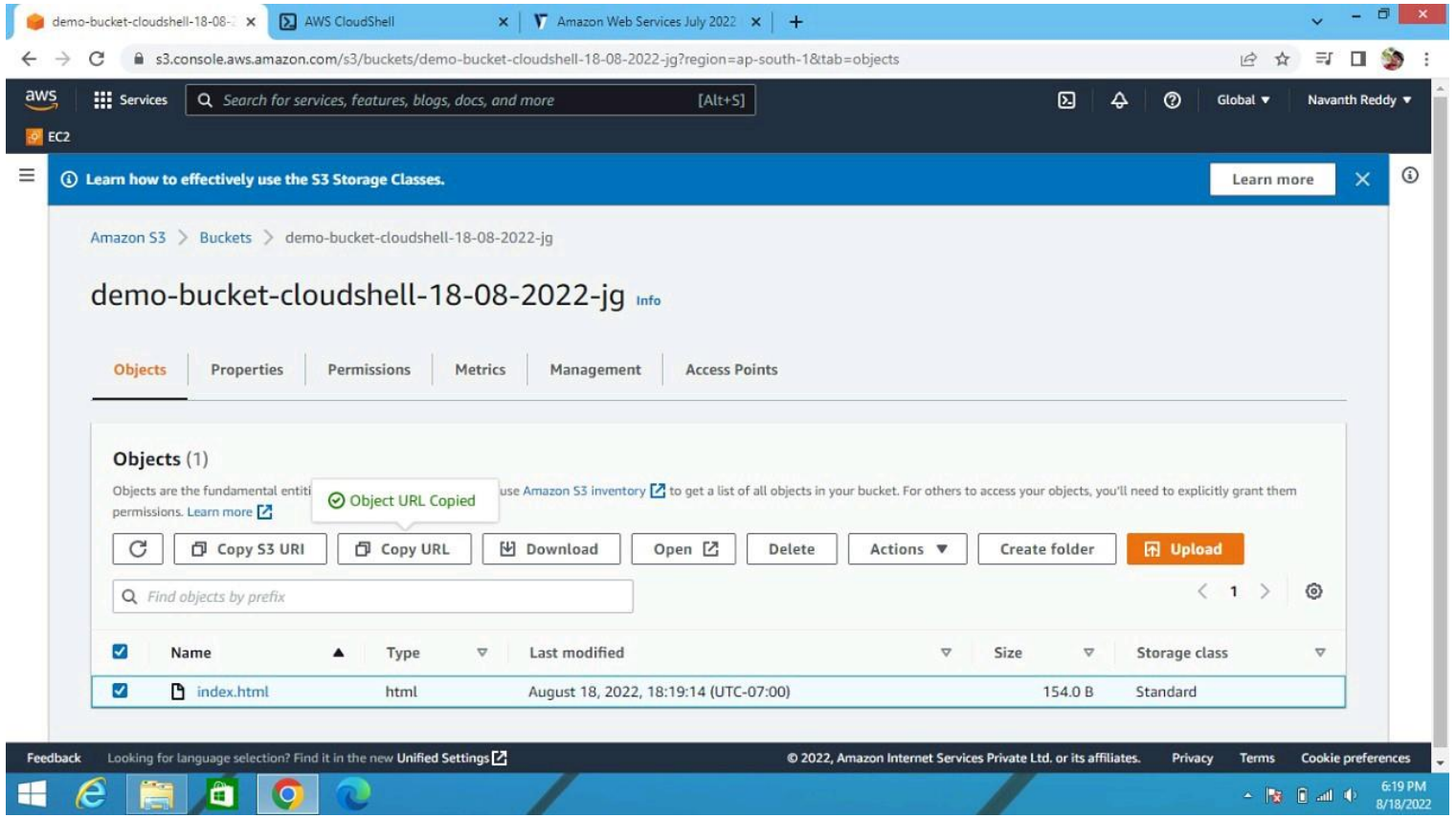
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Amazon Web Services July 2022
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Learn how to effectively use the S3 Storage Classes.
Learn more
Amazon S3 > Buckets > demo-bucket-cloudshell-18-08-2022-jg
demo-bucket-cloudshell-18-08-2022-jg
Info
Objects
Properties
Permissions
Metrics
Management
Access Points
Objects (1)
Objects are the fundamental entiti
Object URL Copied
use Amazon S3 inventory
to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions.
Learn more
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
1
Name
Type
Last modified
Size
Storage class
index.html
html
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https://demo-bucket-cloudshell-
demo-bucket-cloudshell-18-08-2022-jg.s3.ap-south-1.amazonaws.com/index.html
This XML file does not appear to have any style information associated with it. The document tree is shown below.
<Error>
<Code>AccessDenied</Code>
<Message>Access Denied</Message>
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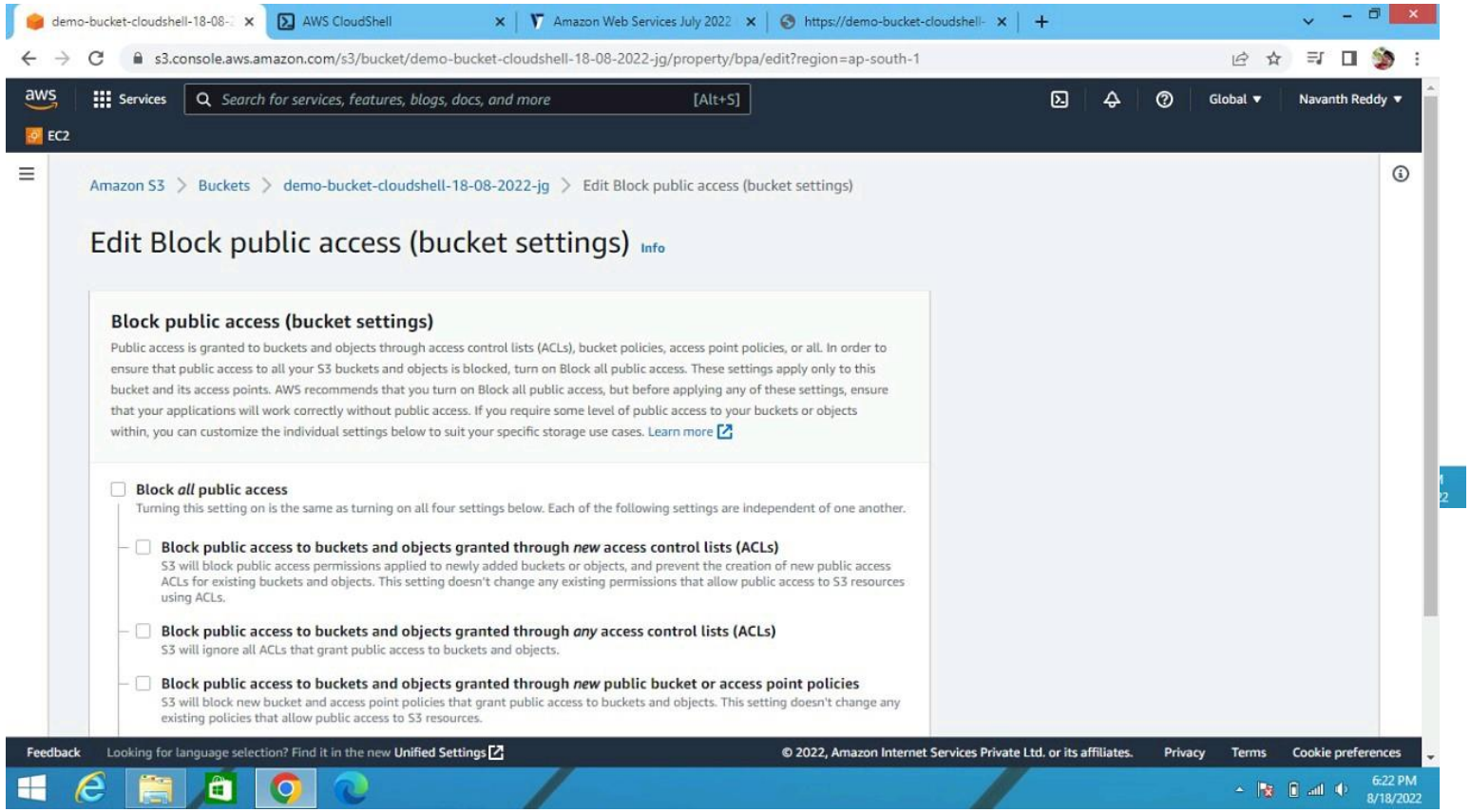
<HostId>fvRc6JqZB02Ofs/x6k/Sji9NAazUCMgSYMF08sbN1OhuJza2s0KcsJXNMBVSG0sJV095jWeCaqQ=</HostId>
</Error>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aws
Services
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Amazon S3 > Buckets > demo-bucket-cloudshell-18-08-2022-jg > Edit Block public access (bucket settings)
Edit Block public access (bucket settings) Info
Block public access (bucket settings)
Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. Learn more
Block all public access
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.
Block public access to buckets and objects granted through new access control lists (ACLs)
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
Block public access to buckets and objects granted through any access control lists (ACLs)
S3 will ignore all ACLs that grant public access to buckets and objects.
Block public access to buckets and objects granted through new public bucket or access point policies
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
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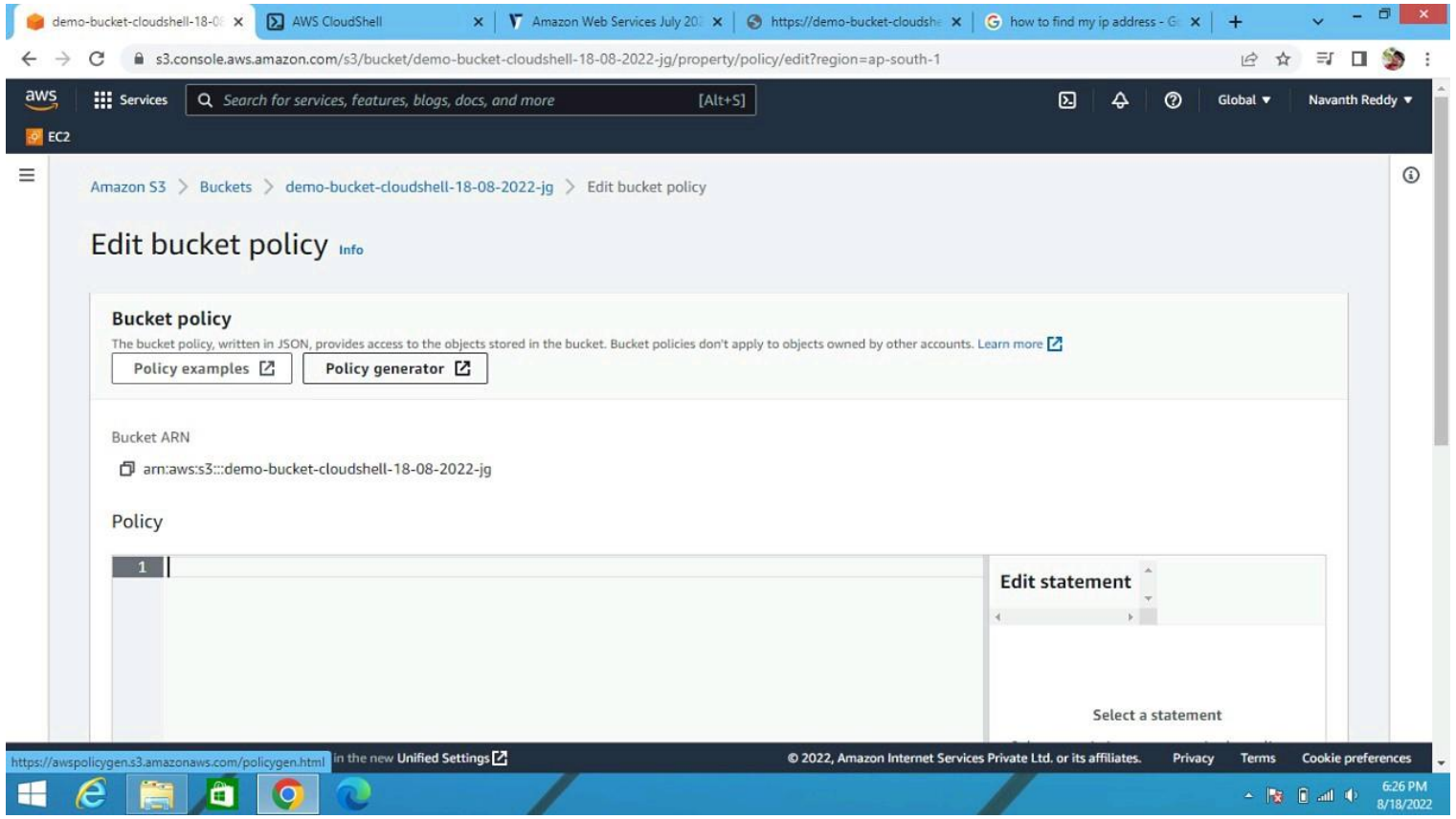
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how to find my ip address - G
s3.console.aws.amazon.com/s3/bucket/demo-bucket-cloudshell-18-08-2022-jg/property/policy/edit?region=ap-south-1
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Amazon S3 > Buckets > demo-bucket-cloudshell-18-08-2022-jg > Edit bucket policy
Edit bucket policy Info
Bucket policy
The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. Learn more
Policy examples
Policy generator
Bucket ARN
arn:aws:s3:::demo-bucket-cloudshell-18-08-2022-jg
Policy
1
Edit statement
Select a statement
https://awspolicygen.s3.amazonaws.com/policygen.html
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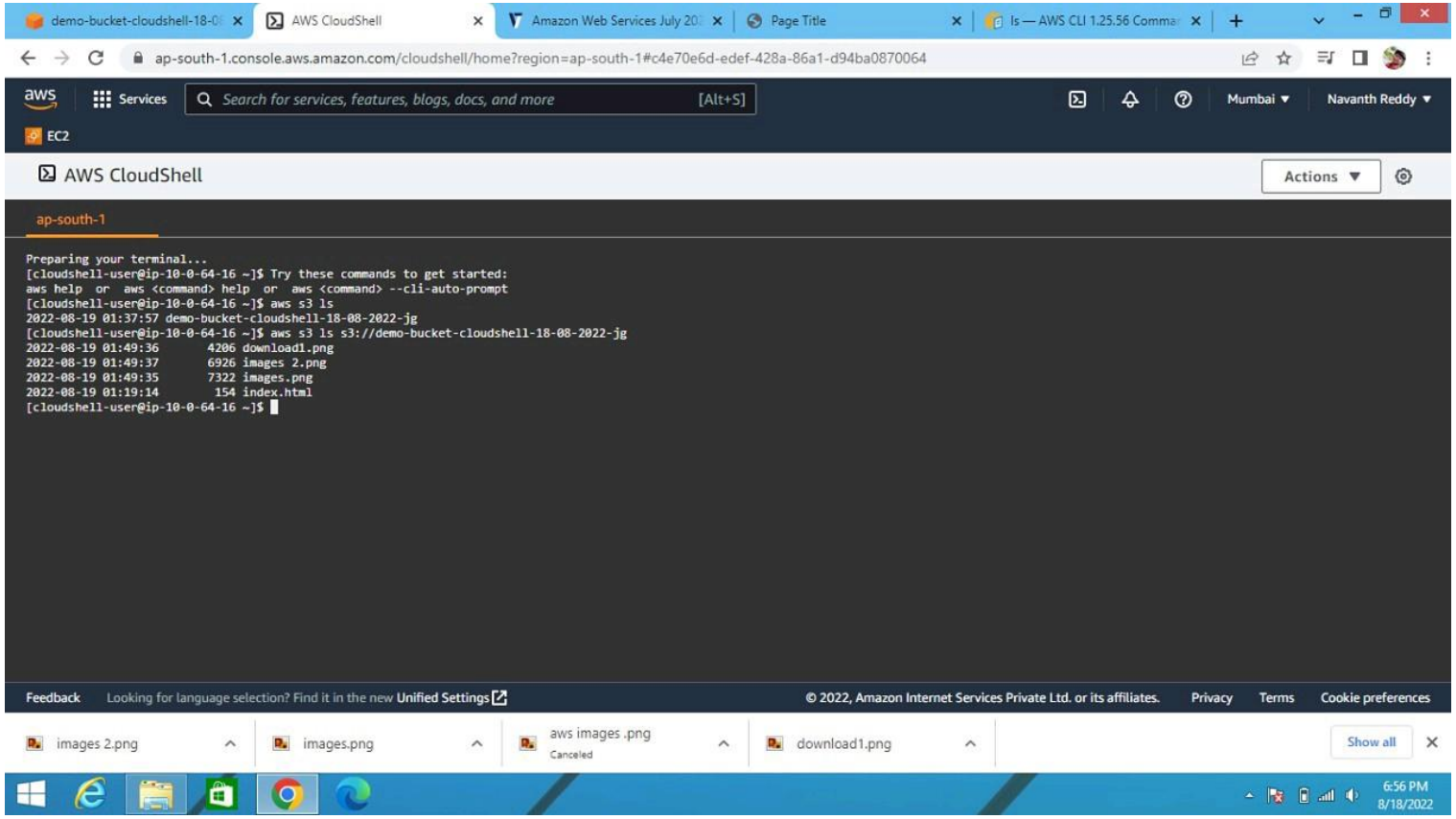
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ap-south-1
Preparing your terminal...
[cloudshell-user@ip-10-0-64-16 ~]$ Try these commands to get started:
aws help or aws <command> help or aws <command> --cli-auto-prompt
[cloudshell-user@ip-10-0-64-16 ~]$ aws s3 ls
2022-08-19 01:37:57 demo-bucket-cloudshell-18-08-2022-jg
[cloudshell-user@ip-10-0-64-16 ~]$ aws s3 ls s3://demo-bucket-cloudshell-18-08-2022-jg
2022-08-19 01:49:36 4206 download1.png
2022-08-19 01:49:37 6926 images 2.png
2022-08-19 01:49:35 7322 images.png
2022-08-19 01:19:14 154 index.html
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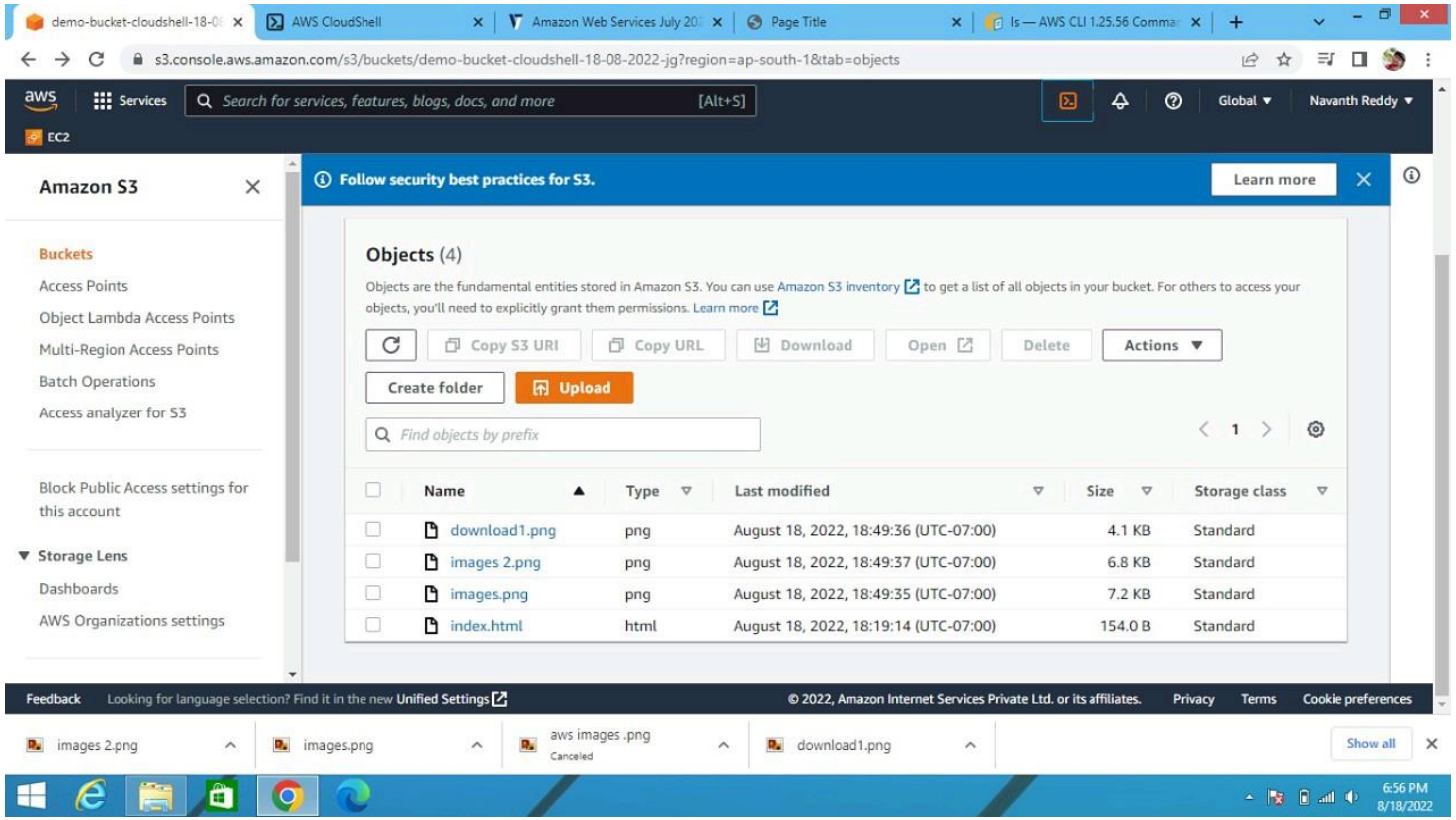
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Multi-Region Access Points
Batch Operations
Access analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Objects (4)
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
1
Name
Type
Last modified
Size
Storage class
download1.png
png
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## TRAINING AND PROGRAM

### COMPLETION OF CERTIFICATION

**G.P.HYMAVATHI**

Has Successfully Completed **Amazon Web Services Cloud Computing** Internship
from
05/09/2023 To 05/11/2023
During the Internship, we found the student to be a keen and enthusiastic candidate.

Verified Certificate

Certificate ID: 2023QEO487

Date : 05/11/2023

Our Internship Completion Certification are verified and are recognized by eminent industries and universities all over the world

Nandini N M
**Academic Head**

# Conclusion:

- cloud computing is recently new technological development that has the potential to have a great impact on the world.
- It has many benefits that it provides to it users and businesses.

# THANK YOU