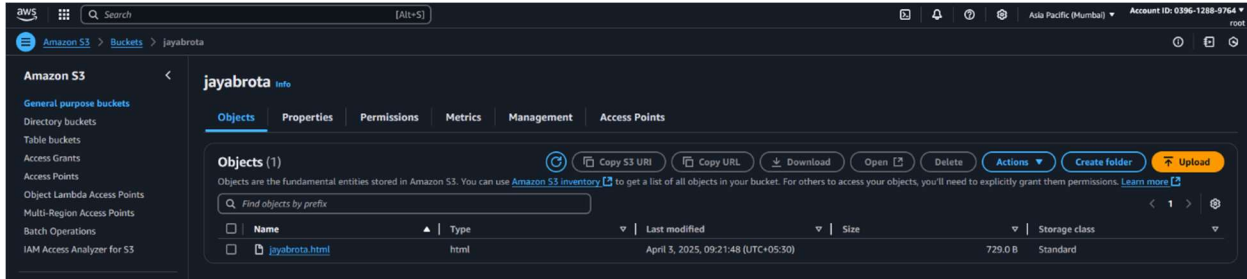


Experiment 4 : S3 Bucket Creation in AWS and Uploading Files

Step 1: Log in to AWS Console

Step 2: Create an S3 Bucket

Step 3: Upload a File to the S3 Bucket



Experiment 5 : Hosting a Web Page on AWS

Step 1: Setting Up an AWS EC2 Instance

Step 2: Connecting to the EC2 Instance

Step 3: Installing a Web Server

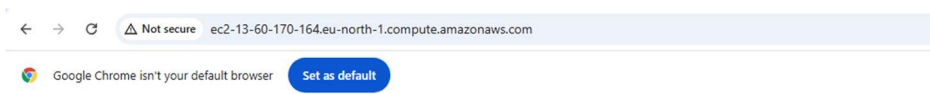
- Update the package list using:
- `sudo apt update`
- Install Apache (or Nginx):
- `sudo apt install apache2 -y` # For Ubuntu
- Start and enable the web server:
- `sudo systemctl start apache2`
- `sudo systemctl enable apache2`

Step 4: Uploading the Web Page

- upload HTML files.
- Navigate to `/var/www/html/` (Apache default directory).
- Replace or create an `index.html` file:
- `echo '<h1>Welcome to My AWS Hosted Web Page</h1>' | sudo tee /var/www/html/index.html`

Step 5: Testing the Web Page

- Open a web browser and enter `http://<EC2-Public-IP>`.
- The web page should load successfully, indicating a successful deployment.



Experiment 6 : To-Do List App on AWS (Deploying Cloud Project)

1. Launch an EC2 Instance

2. Connect to Your Instance

```
ssh -i your-key.pem ec2-user@your-instance-public-ip
```

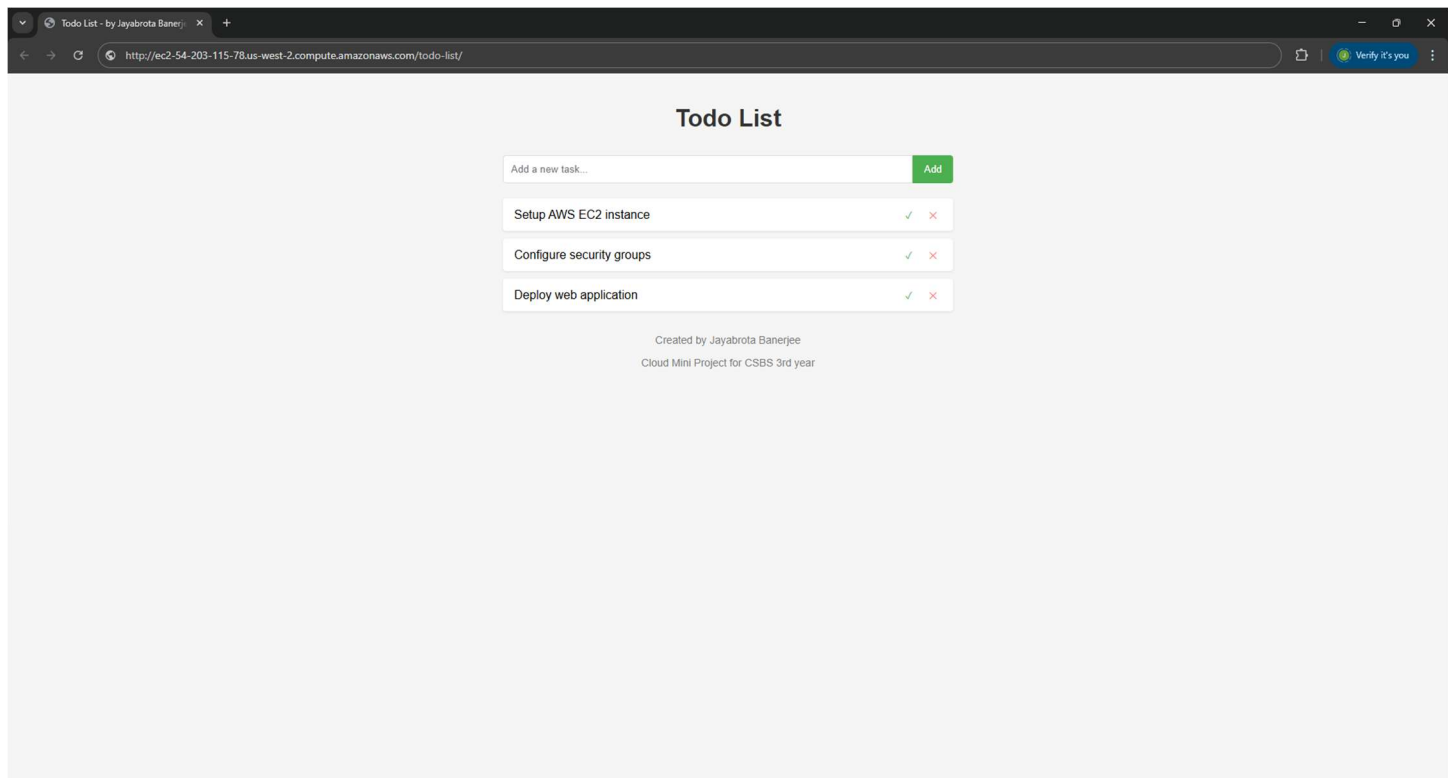
3. Install Apache

- i. `sudo yum update -y`
- ii. `sudo yum install httpd -y`
- iii. `sudo systemctl start httpd`
- iv. `sudo systemctl enable httpd`

4. Deploy To-Do List App

```
scp -i your-key.pem -r todo-list/* ec2-user@your-instance-public-ip:~/
```

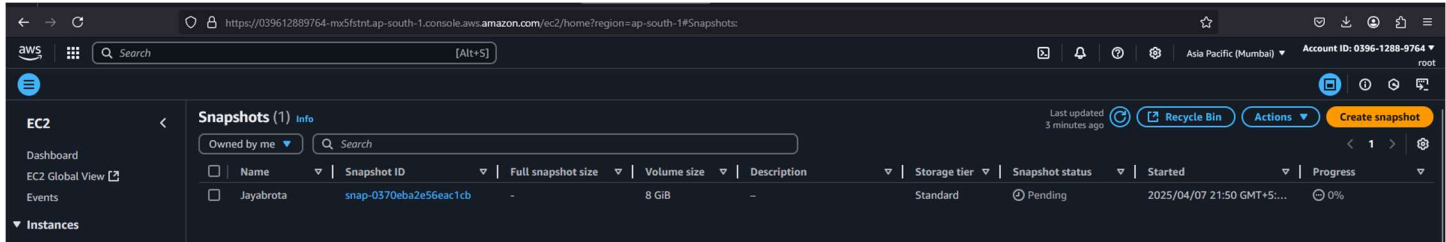
```
sudo cp -r ~/* /var/www/html/
```



Experiment 7 : Creating a Snapshot and an Image in AWS

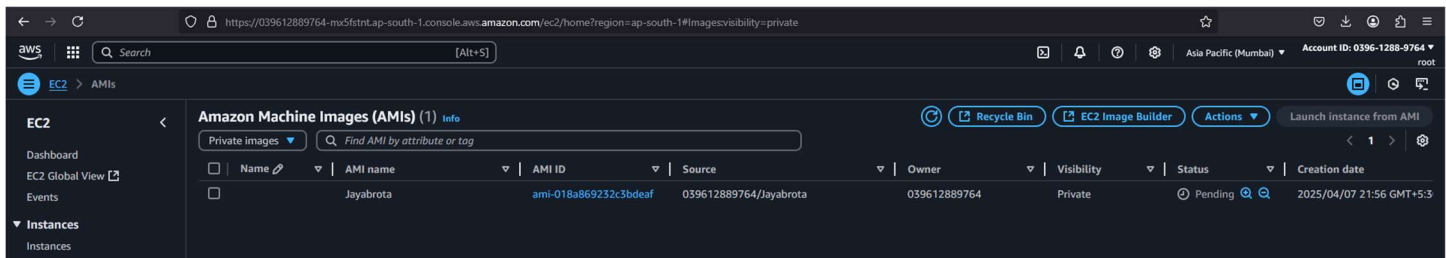
Step 1: Creating an EBS Snapshot

1. Log in to AWS Console
2. Select the EBS Volume
3. Create a Snapshot



Step 2: Creating an AMI from an EC2 Instance

1. Navigate to EC2 Dashboard
2. Create an AMI
3. Monitor AMI Creation



Experiment 8: Live VM Migration on AWS

Step 1: Share AMI with another AWS account

Name and tags [Info](#)

Name: [Add additional tags](#)

Application and OS Images (Amazon Machine Image) [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

Recents **My AMIs** Quick Start

☐ Owned by me ☒ Shared with me

[Browse more AMIs](#)
Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Jayabrota
ami-018a869232c3bdeaf
2025-04-07T16:26:11.000Z Virtualization: hvm ENA enabled: true Root device type: ebs Boot mode: uefi-preferred

Summary

Number of instances [Info](#): 1

Software Image (AMI): Jayabrota
ami-018a869232c3bdeaf

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

[Free tier](#): In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier.

[Cancel](#) [Launch instance](#) [Preview code](#)

Step 2: Launch instance from shared AMI

Instances (2) [Info](#)

Last updated: less than a minute ago

[Connect](#) [Instance state](#) [Actions](#) [Launch instances](#)

[All states](#)

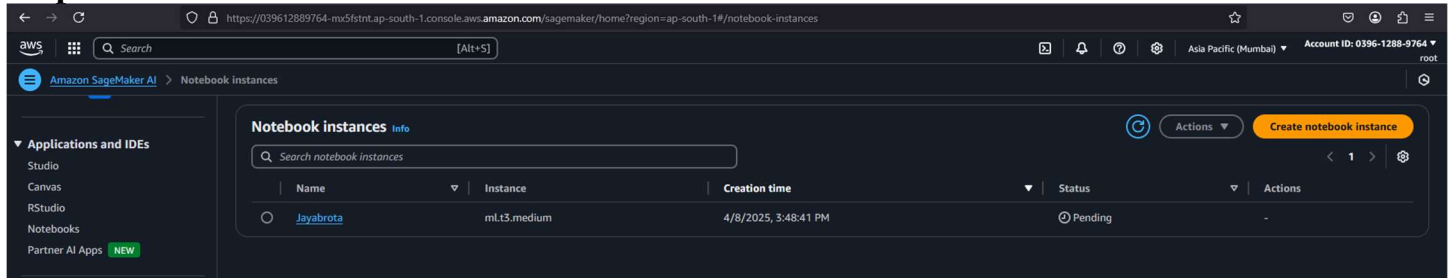
[Instance state \(client\) != terminated](#) [Clear filters](#)

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	PU
<input type="checkbox"/>	My AMI Web server	i-0527b6e8e0bfc05f2	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	ec
<input type="checkbox"/>	Gourav_Jayabrota_shared	i-0779bba6f0ca46d49	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	ec

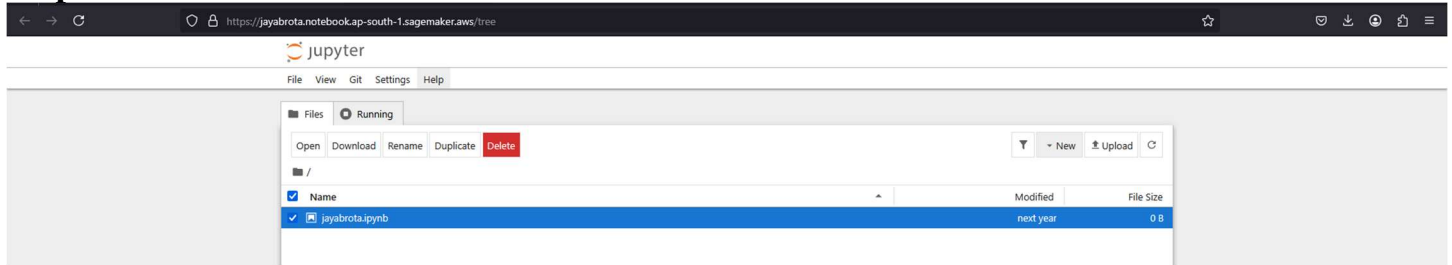
Select an instance

Experiment 9 : AWS SageMaker

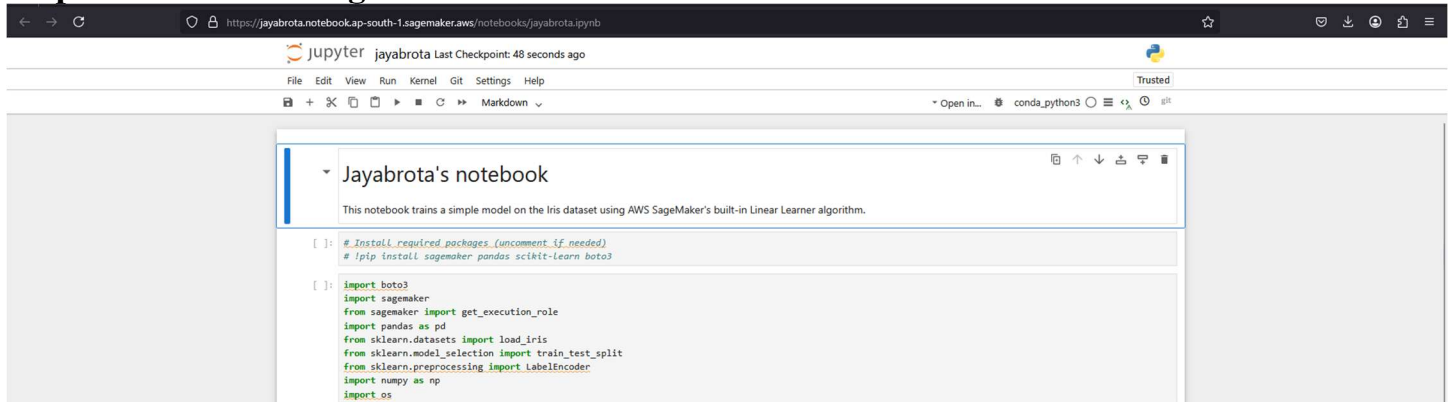
Step 1: Create Notebook Instance



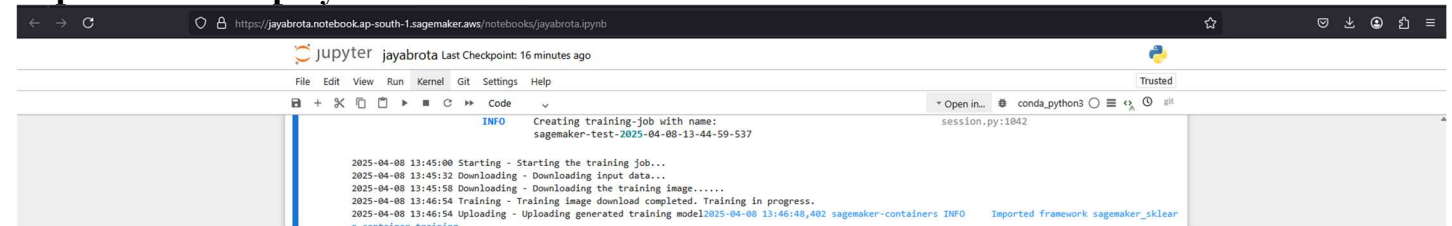
Step 2: Create notebook



Step 3: Model Training



Step 4: Model Deployment



Step 5: Monitoring Results

