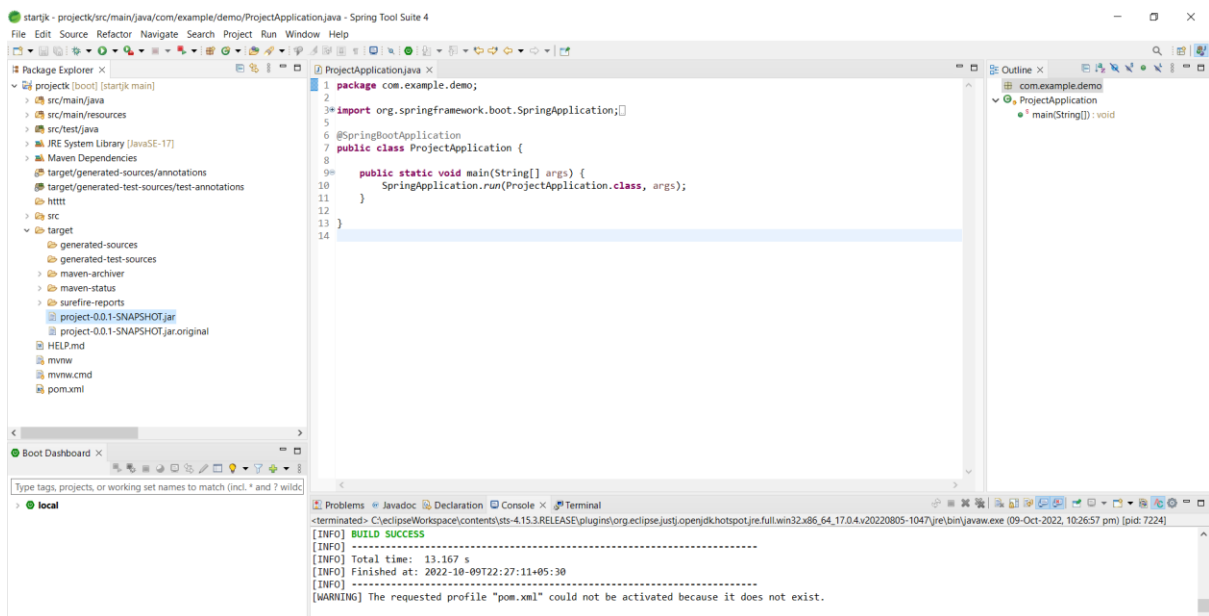


Deploy an Application on Cloud

1. Create Spring Boot Project in STS

- After creating the Project :
 - Maven Clean
 - Maven Install
 - Maven Update
- After this we find the **SNAPSHOT.jar** in Target folder.



2. Now Create an EC2 Instance With User Data In it.

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

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 **Quick Start**

[Amazon Linux](#) [macOS](#) [Ubuntu](#) [Windows](#) [Red Hat](#) [SUSE](#) [Browse more AMIs](#)

Summary

Number of instances [info](#):

Software Image (AMI): Amazon Linux 2 Kernel 5.10 AMI... [read more](#)
ami-026b57f3c385c2e0c

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 includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier

[Cancel](#) [Launch Instance](#)

Instance type [info](#)

t2.micro [Compare instance types](#)

Family: t2 1 vCPU 1 GiB Memory
On-Demand Linux pricing: 0.0116 USD per Hour
On-Demand Windows pricing: 0.0162 USD per Hour

Key pair (login) [info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required: [Create new key pair](#)

Network settings [info](#) [Edit](#)

Network [info](#): vpc-0f0ee4d9b89463e2f

Subnet [info](#): No preference (Default subnet in any availability zone)

Auto-assign public IP [info](#): Enable

Firewall (security groups) [info](#)

Summary

Number of instances [info](#):

Software Image (AMI): Amazon Linux 2 Kernel 5.10 AMI... [read more](#)
ami-026b57f3c385c2e0c

Virtual server type (instance type): t2.micro

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[Cancel](#) [Launch Instance](#)

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

Services Search for services, features, blogs, docs, and more [Alt+S]

Select

Metadata version info

Select

Metadata response hop limit info

Select

Allow tags in metadata info

Select

User data info

```
#!/bin/bash
sudo yum update -y

# Install Java
sudo amazon-linux-extras install -y java-openjdk17
sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo
sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key
sudo yum install -y epel-release
sudo yum install -y java-17-openjdk-devel
sudo /usr/sbin/alternatives --config java <<< '1'

# Install Maven
sudo wget http://repos.fedorapeople.org/repos/dchen/apache-maven/epel-
```

Summary

Number of instances info

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more
ami-026b57f3c383c2eec

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 includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier

Cancel Launch instance

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

Services Search for services, features, blogs, docs, and more [Alt+S]

Select

Metadata response hop limit info

Select

Allow tags in metadata info

Select

User data info

```
apache-maven.repo -O /etc/yum.repos.d/epel-apache-maven.repo
sudo sed -i s/$/releasever/6/g /etc/yum.repos.d/epel-apache-maven.repo
sudo yum install -y apache-maven

# Install git
sudo yum install git -y

# Install Jenkins
sudo yum install -y jenkins
sudo systemctl start jenkins
sudo systemctl enable jenkins

sudo java -version
sudo mvn --version
sudo git version
```

☐ User data has already been base64 encoded

Summary

Number of instances info

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more
ami-026b57f3c383c2eec

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 includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier

Cancel Launch instance

3. Add The Port -8080 to Security Groups.

The screenshot shows the AWS Management Console interface for editing inbound rules on a Security Group. The breadcrumb trail indicates the path: EC2 > Security Groups > sg-01c0e36c613eeead3 - launch-wizard-1 > Edit inbound rules. The page title is 'Edit inbound rules' with an 'Info' link. A subtitle states: 'Inbound rules control the incoming traffic that's allowed to reach the instance.'

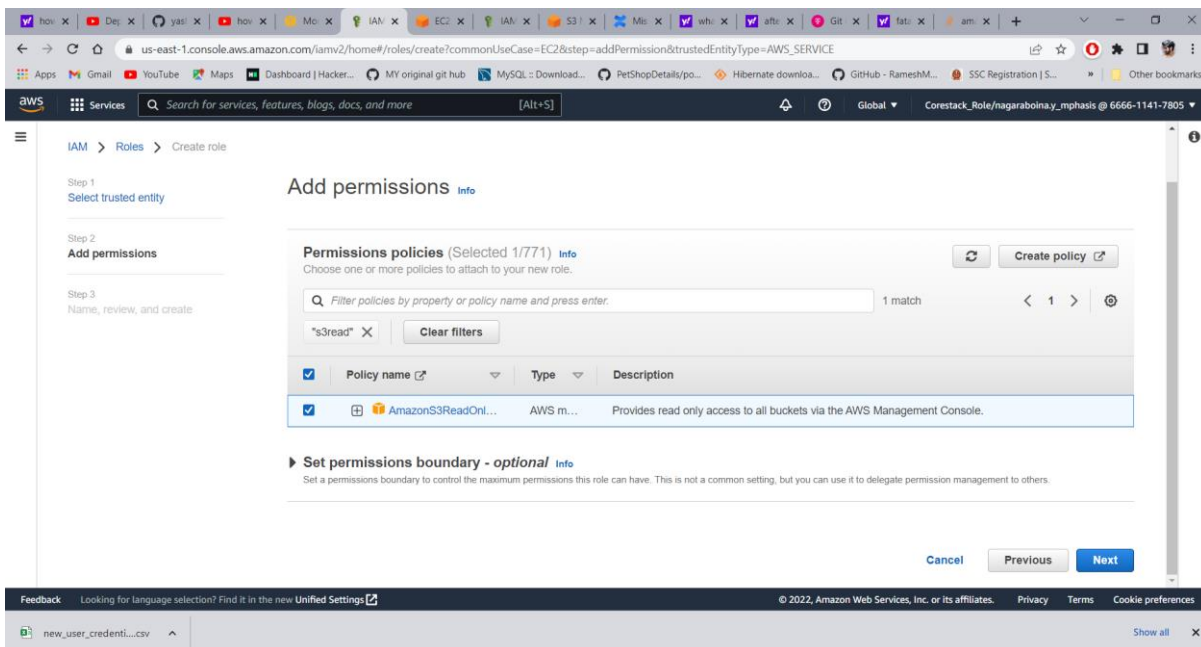
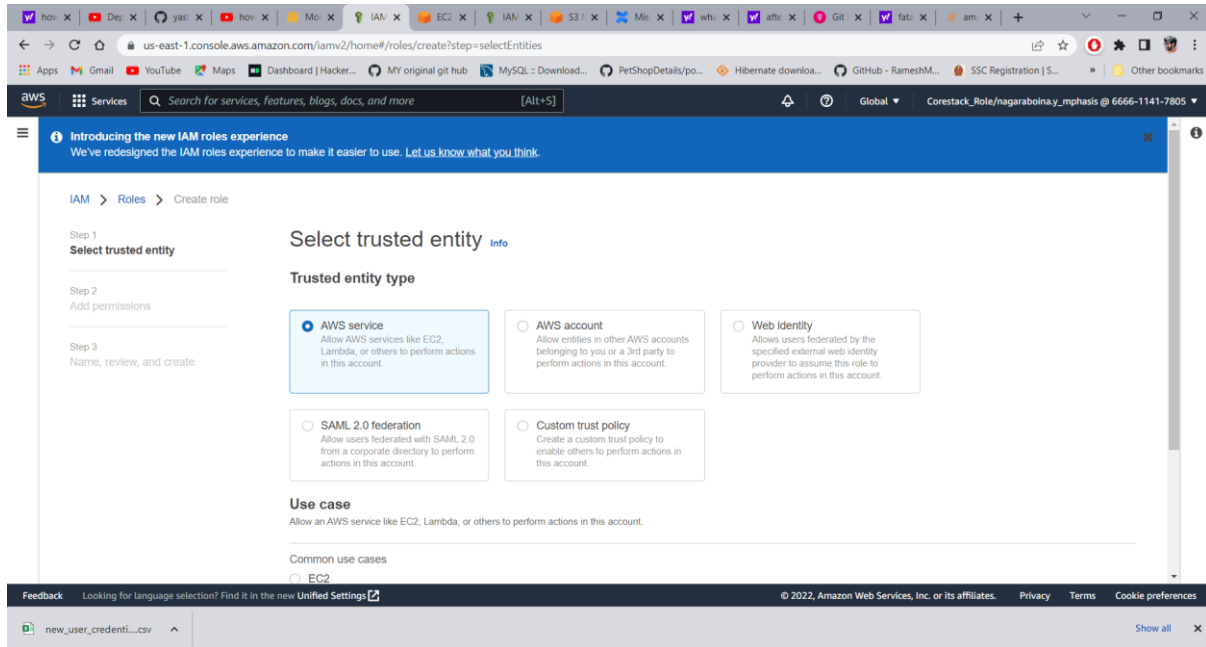
The 'Inbound rules' section contains a table with the following data:

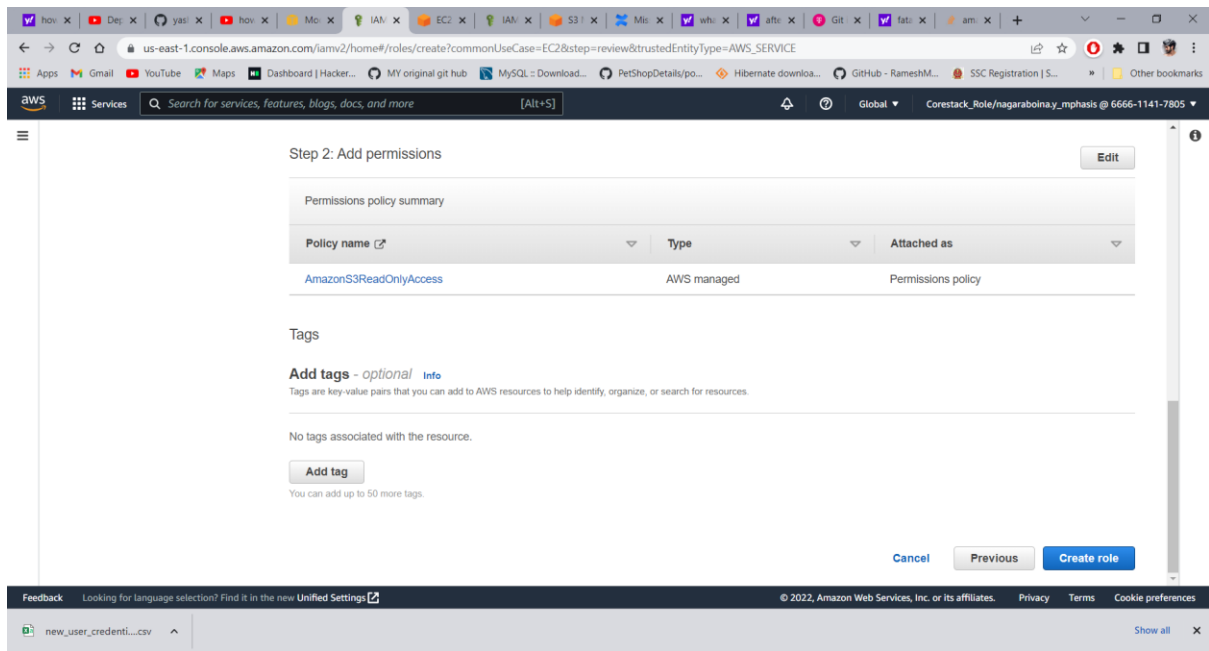
Security group rule ID	Type	Protocol	Port range	Source	Description - optional	
sgr-0d2392474f3aebdfd	HTTP	TCP	80	Custom		Delete
sgr-04023ae2404c1cffd	SSH	TCP	22	Custom		Delete
sgr-080f82205ac9fb201	Custom TCP	TCP	8080	Custom		Delete

Below the table is an 'Add rule' button. At the bottom of the console, there are buttons for 'Cancel', 'Preview changes', and 'Save rules'.

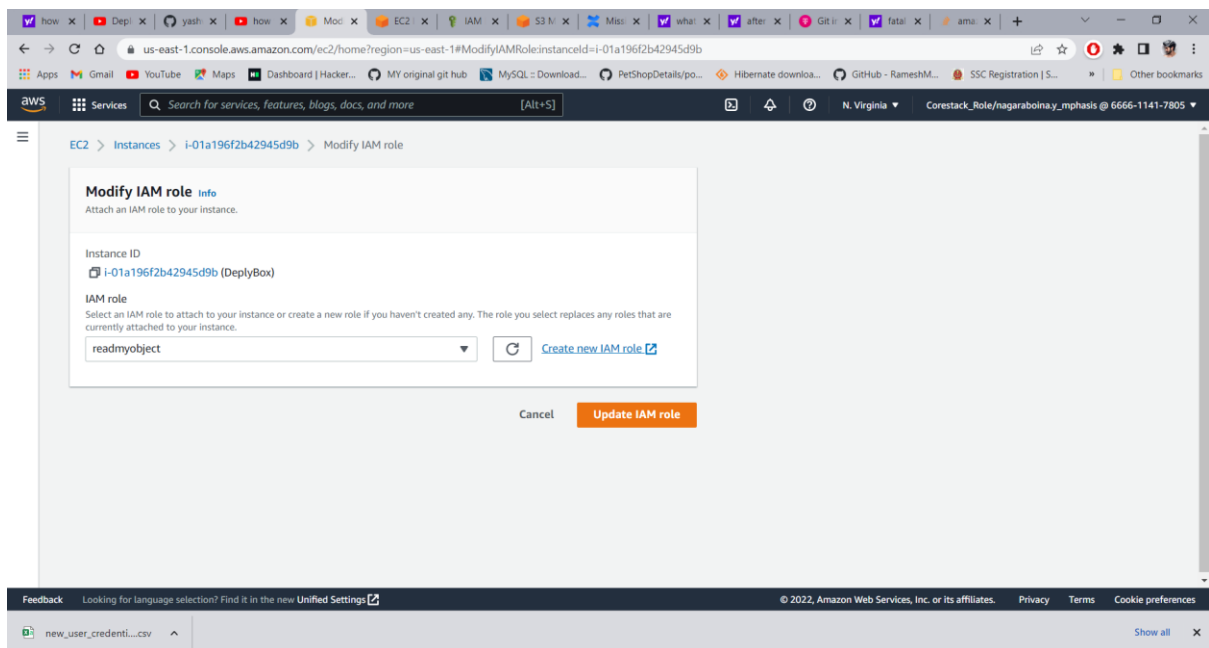
4. Create A New Role for the EC2 instance.

- Created a role to read S3 Objects.





- Now add the Role To the instance.



us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:

Search for services, features, blogs, docs, and more

Services

new EC2 Experience

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images

AMIs

Instances (1/2) Info

Find instance by attribute or tag (case-sensitive)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 D
<input type="checkbox"/>	deploy	i-06c7d01e016f1e101	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-54-165-21
<input checked="" type="checkbox"/>	DeployBox	i-01a196f2b42945d9b	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-3-86-93-1

Instance: i-01a196f2b42945d9b (DeployBox)

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-01a196f2b42945d9b (DeployBox)	3.86.93.120 open address	172.31.93.227
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-3-86-93-120.compute-1.amazonaws.com open address
Hostname type	Private IP DNS name (IPv4 only)	

Feedback

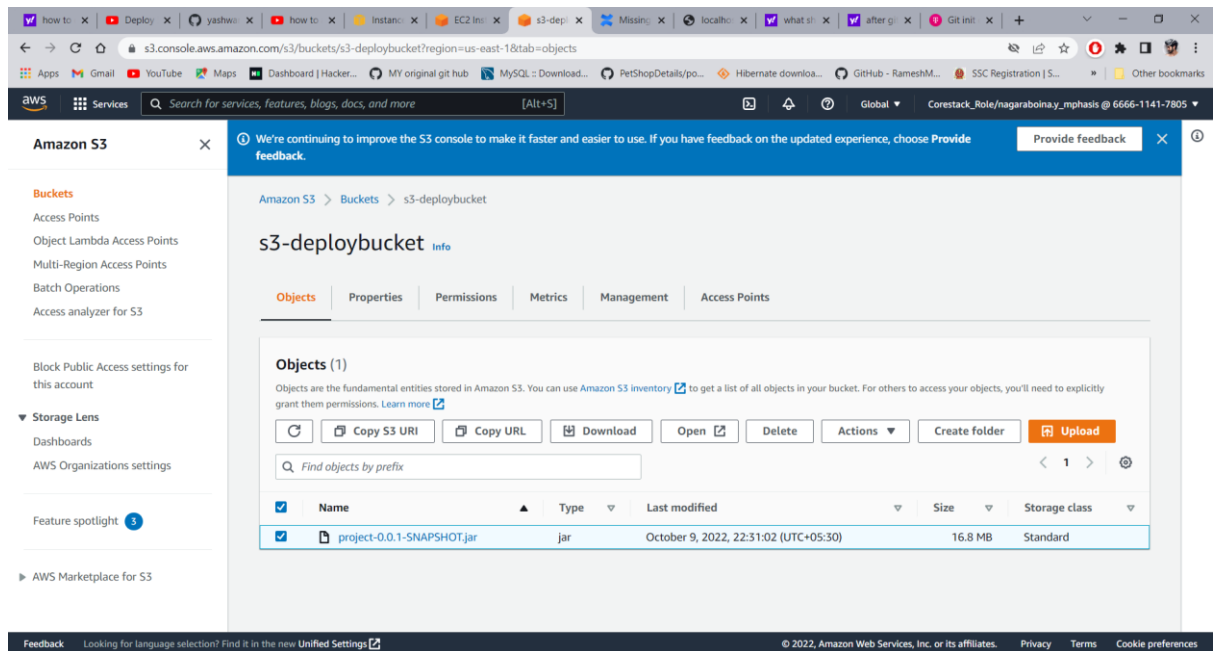
Looking for language selection? Find it in the new Unified Settings

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new_user_credenti...csv

Show all

5. Create a **S3 Bucket** and add the SNAPSHOT.jar into the Bucket.



6. Now Run the jar File from Bucket through EC2.

