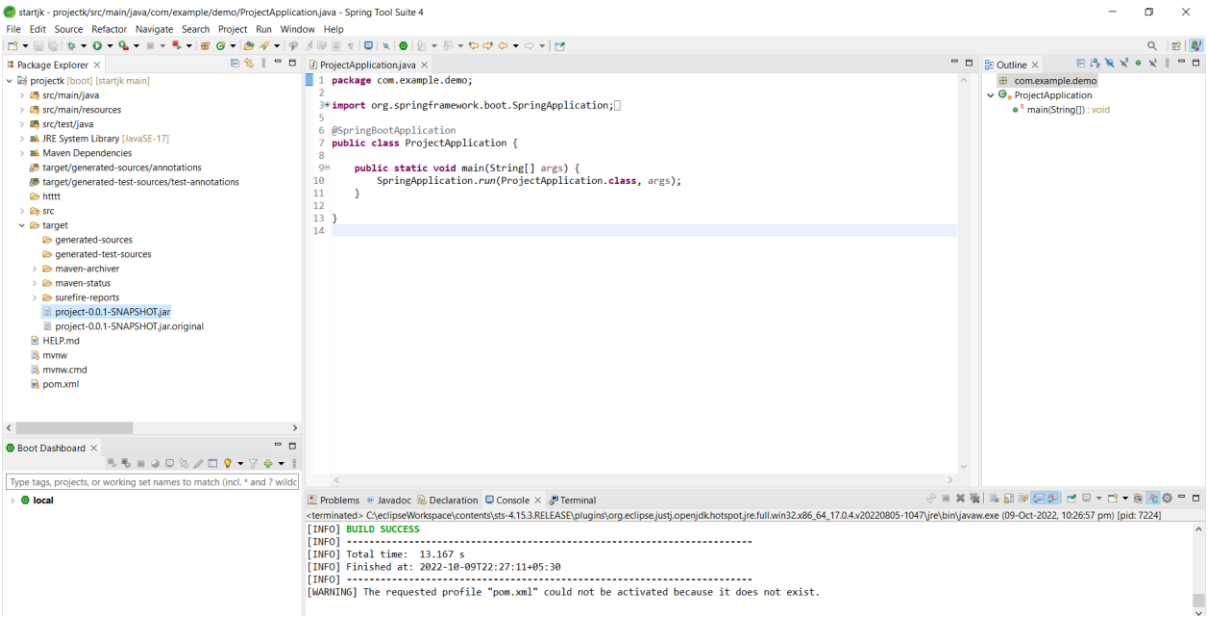
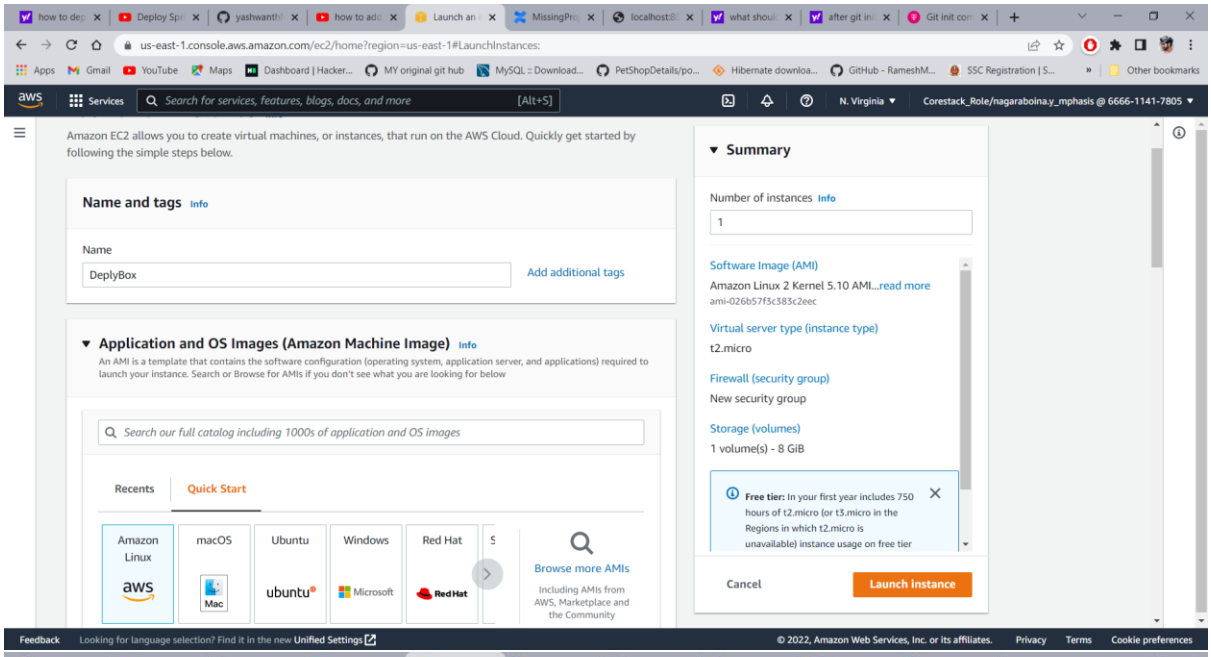
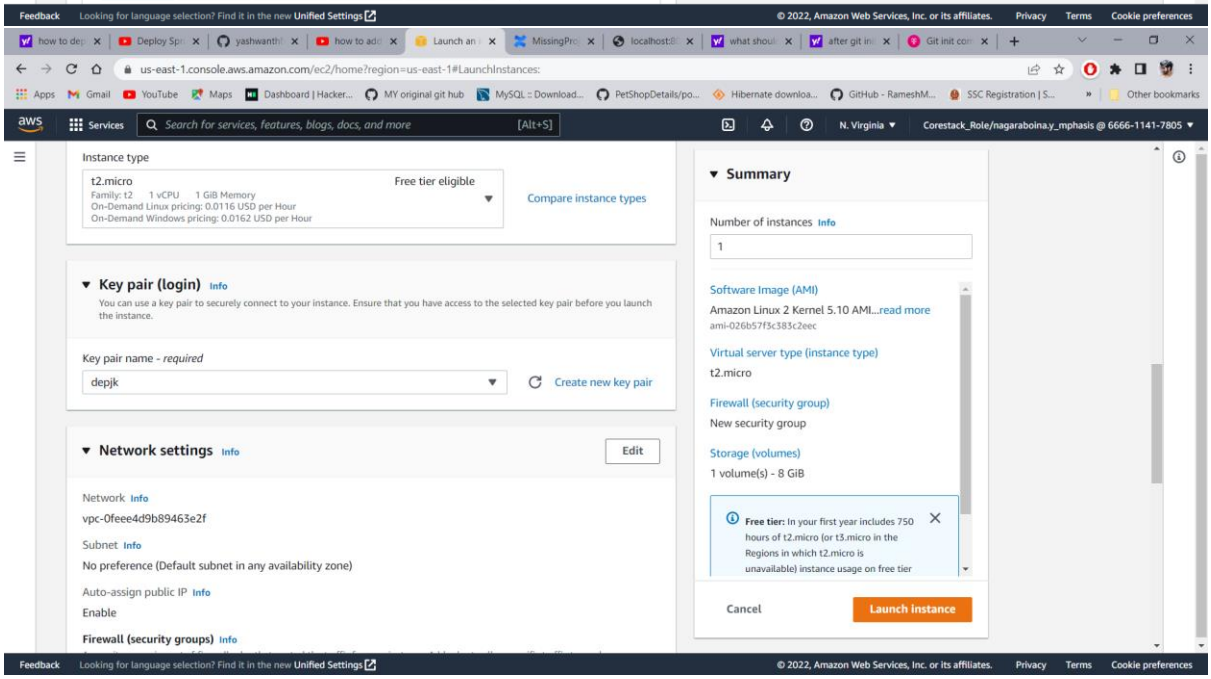
Deploy an Application on Cloud

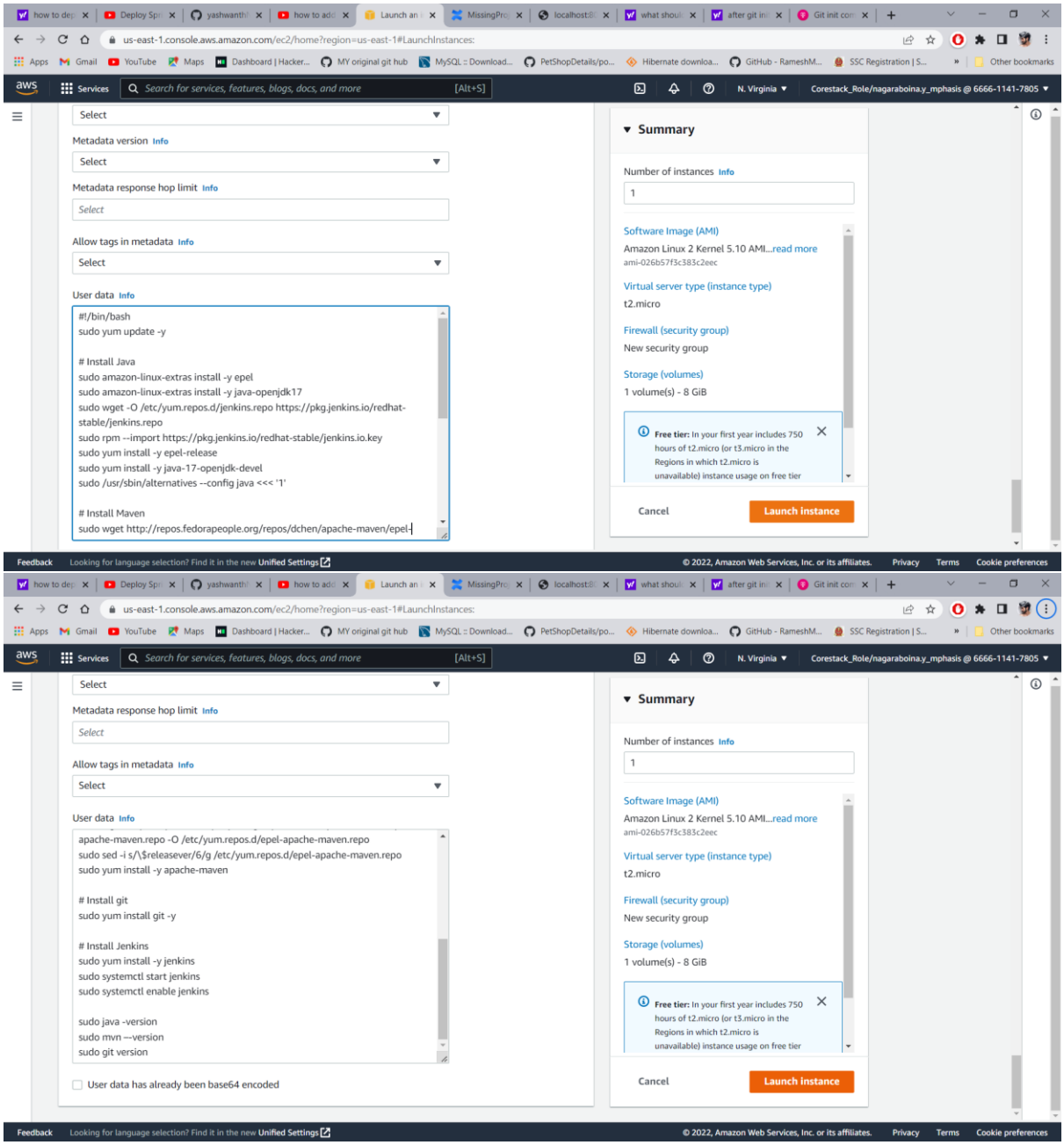
1. Create Spring Boot Project in STS
    - After creating the Project :
        - Maven Clean
        - Maven Install
        - Maven Update
    - After this we find the **SNAPSHOT.jar** in Target folder.



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






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 epel
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
Feedback
Looking for language selection? Find it in the new Unified Settings
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Privacy
Terms
Cookie preferences

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
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Cancel
Launch instance
Feedback
Looking for language selection? Find it in the new Unified Settings
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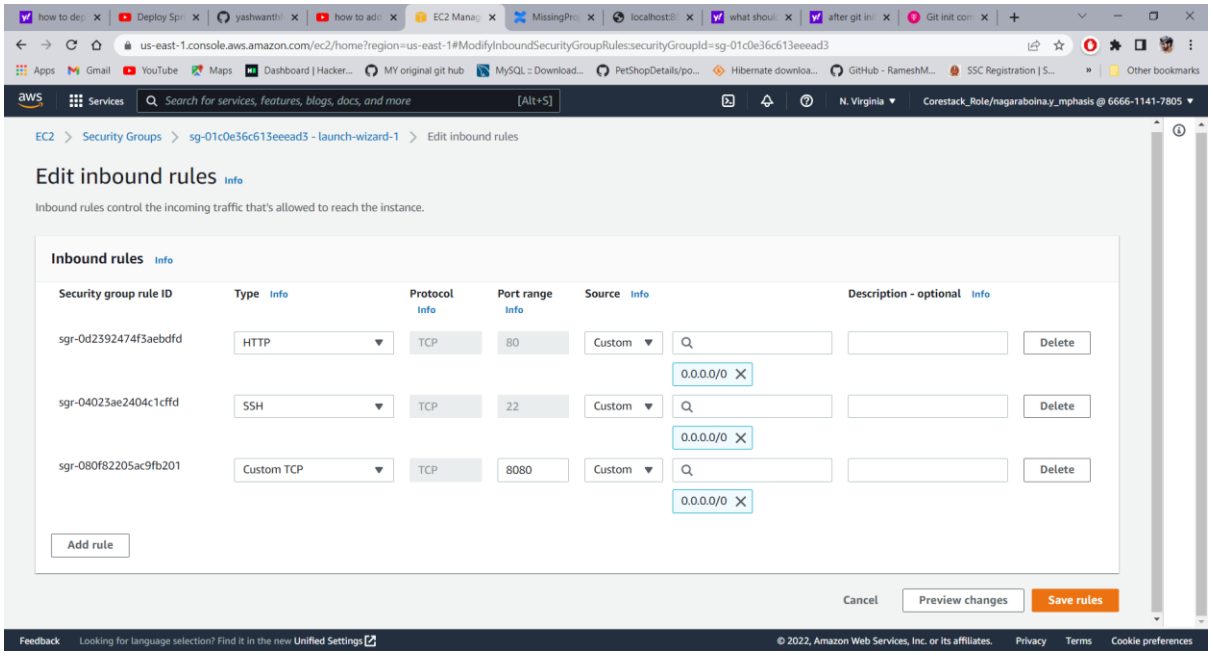
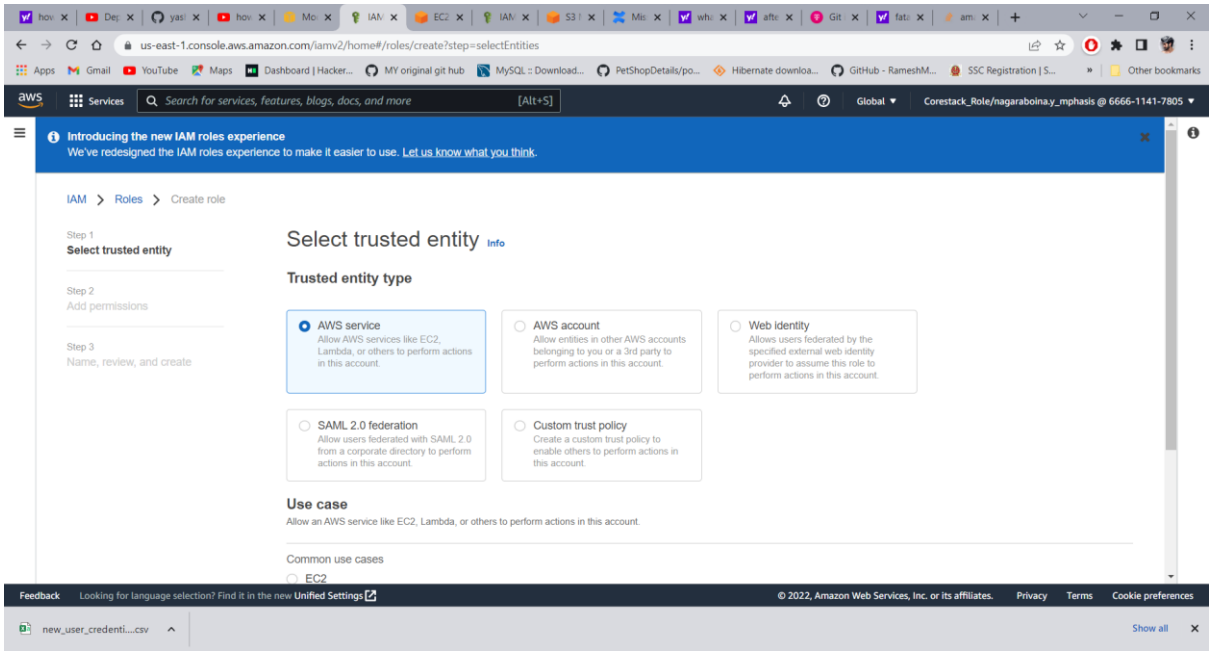
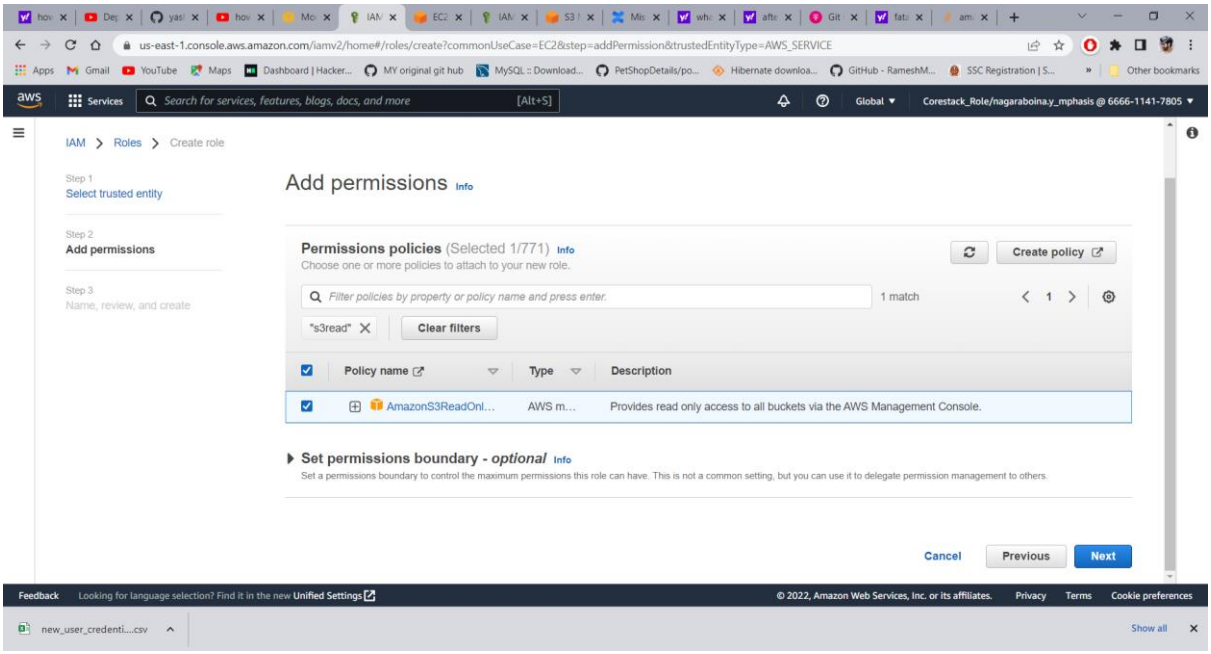
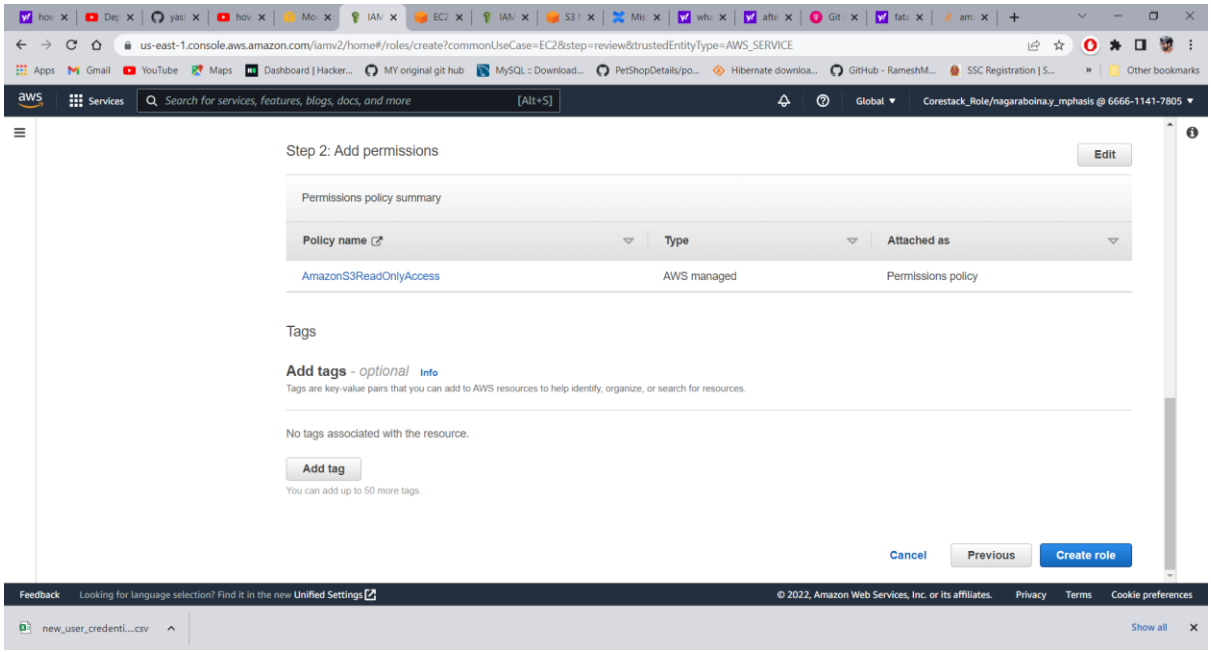
3. Add The Port -8080 to Security Groups.



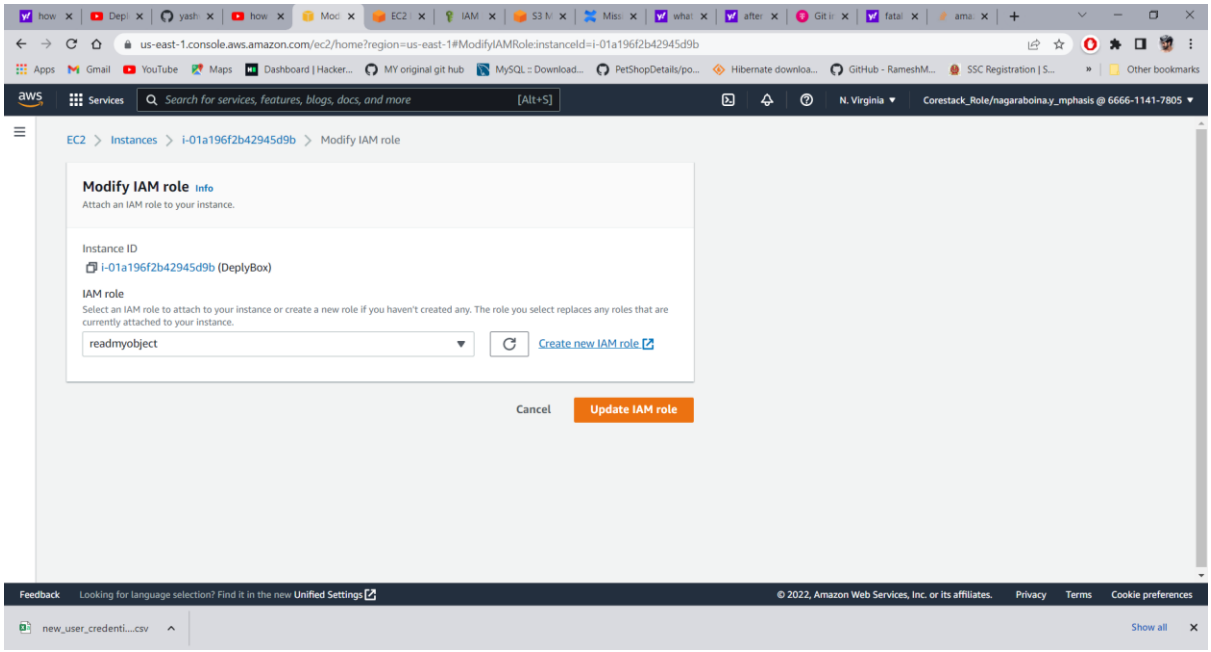
4. Create A New Role for the EC2 instance.
    - Created a role to read S3 Objects.

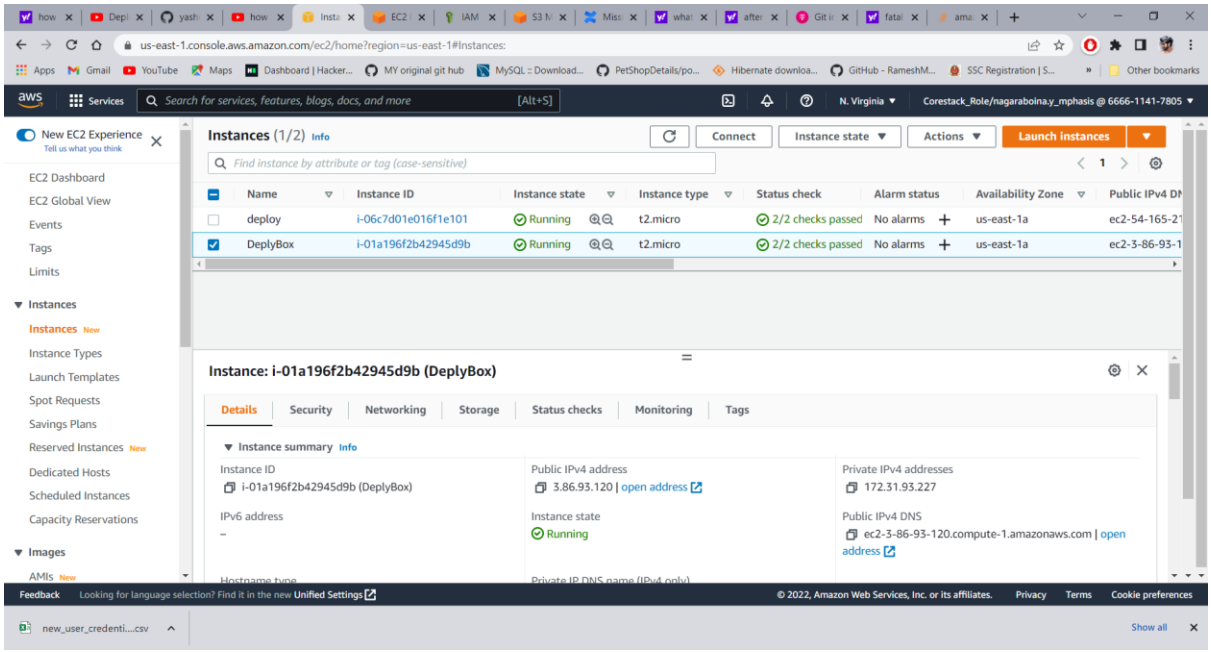






- Now add the Role To the instance.




us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:
Services
Search for services, features, blogs, docs, and more [Alt+S]
N. Virginia
Corestack_Role/nagaraboina.y_mphasis @ 6666-1141-7805
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs New
Instances (1/2) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
deploy
i-06c7d01e016f1e101
Running
t2.micro
2/2 checks passed
No alarms
us-east-1a
DeplyBox
i-01a196f2b42945d9b
Running
t2.micro
2/2 checks passed
No alarms
us-east-1a
Instance: i-01a196f2b42945d9b (DeplyBox)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance summary Info
Instance ID
i-01a196f2b42945d9b (DeplyBox)
Public IPv4 address
3.86.93.120 | open address
Private IPv4 addresses
172.31.93.227
IPv6 address
–
Instance state
Running
Public IPv4 DNS
ec2-3-86-93-120.compute-1.amazonaws.com | open address
Feedback
Looking for language selection? Find it in the new Unified Settings
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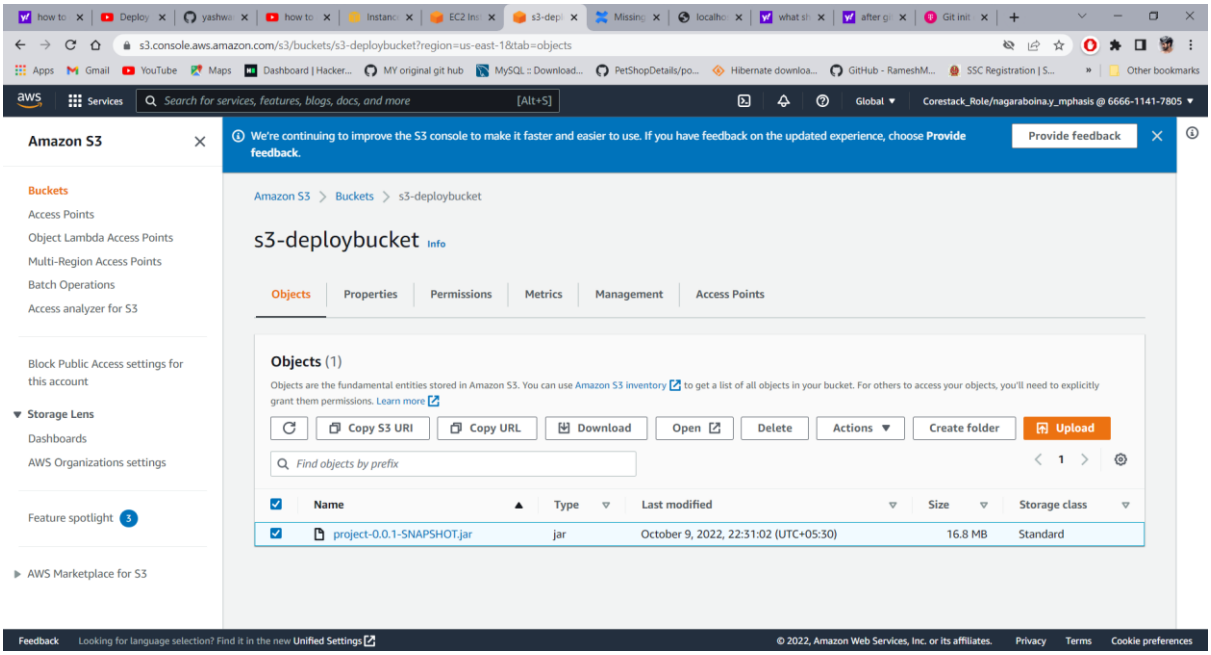
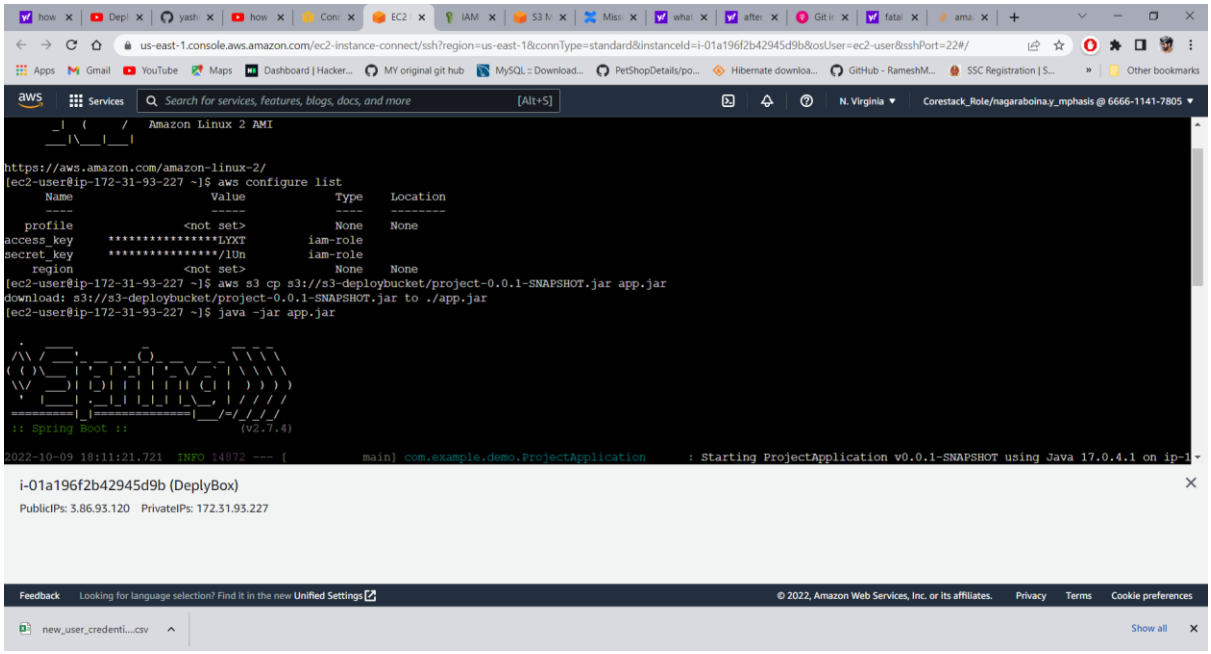
new_user_credenti....csv
Show all

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



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