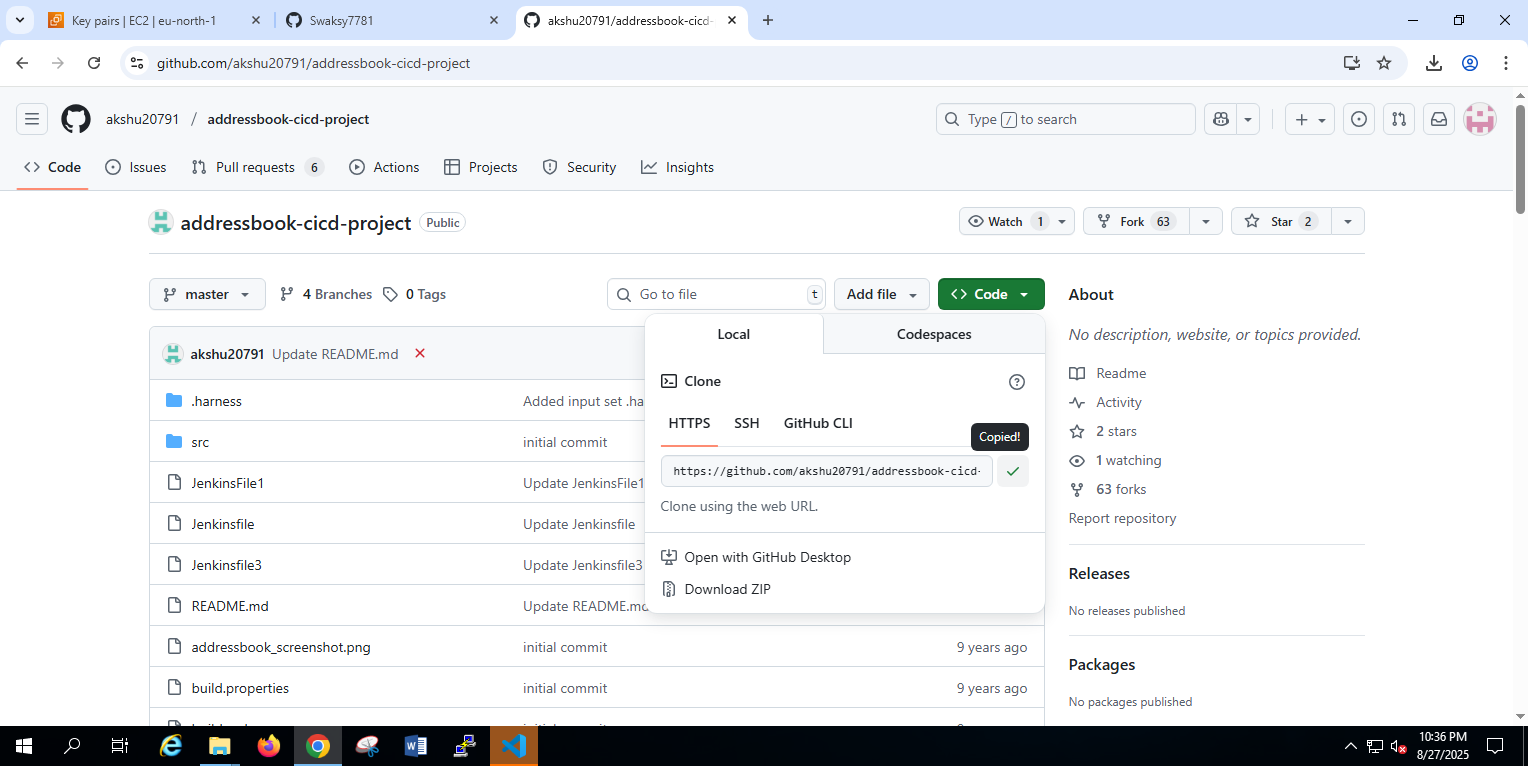
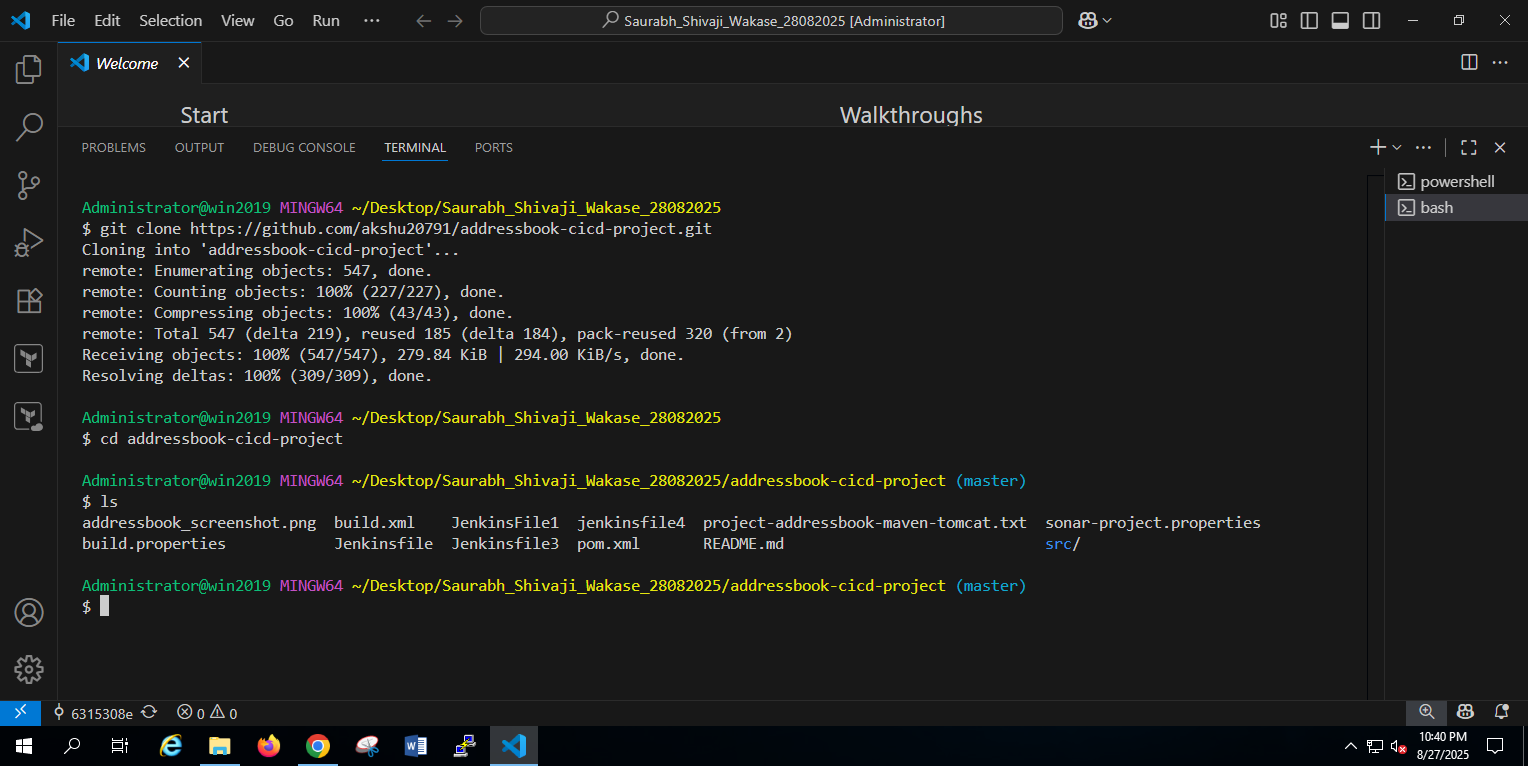
**Github Clone:**



Copying the provided github link.

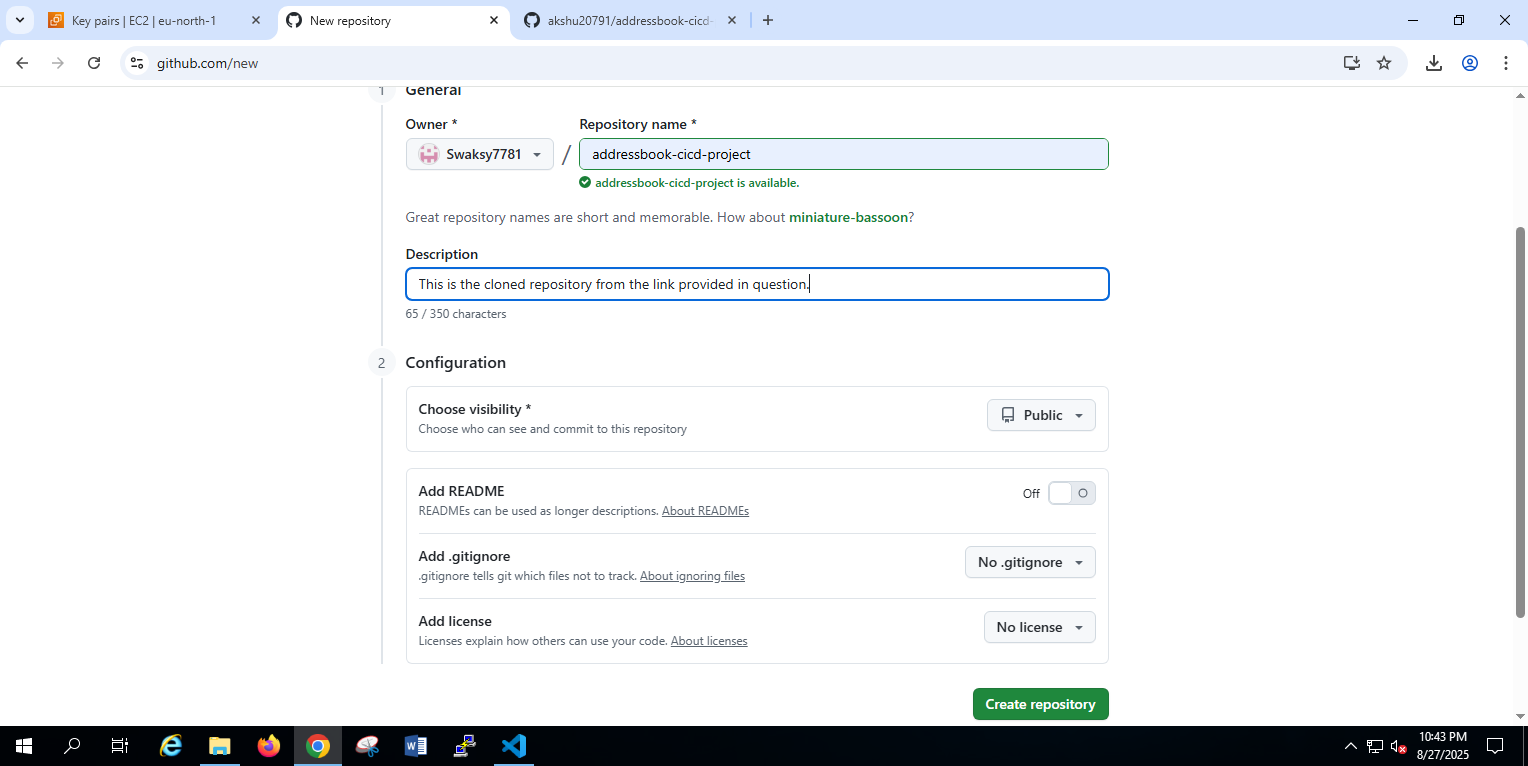


Ran commands to clone the repo.

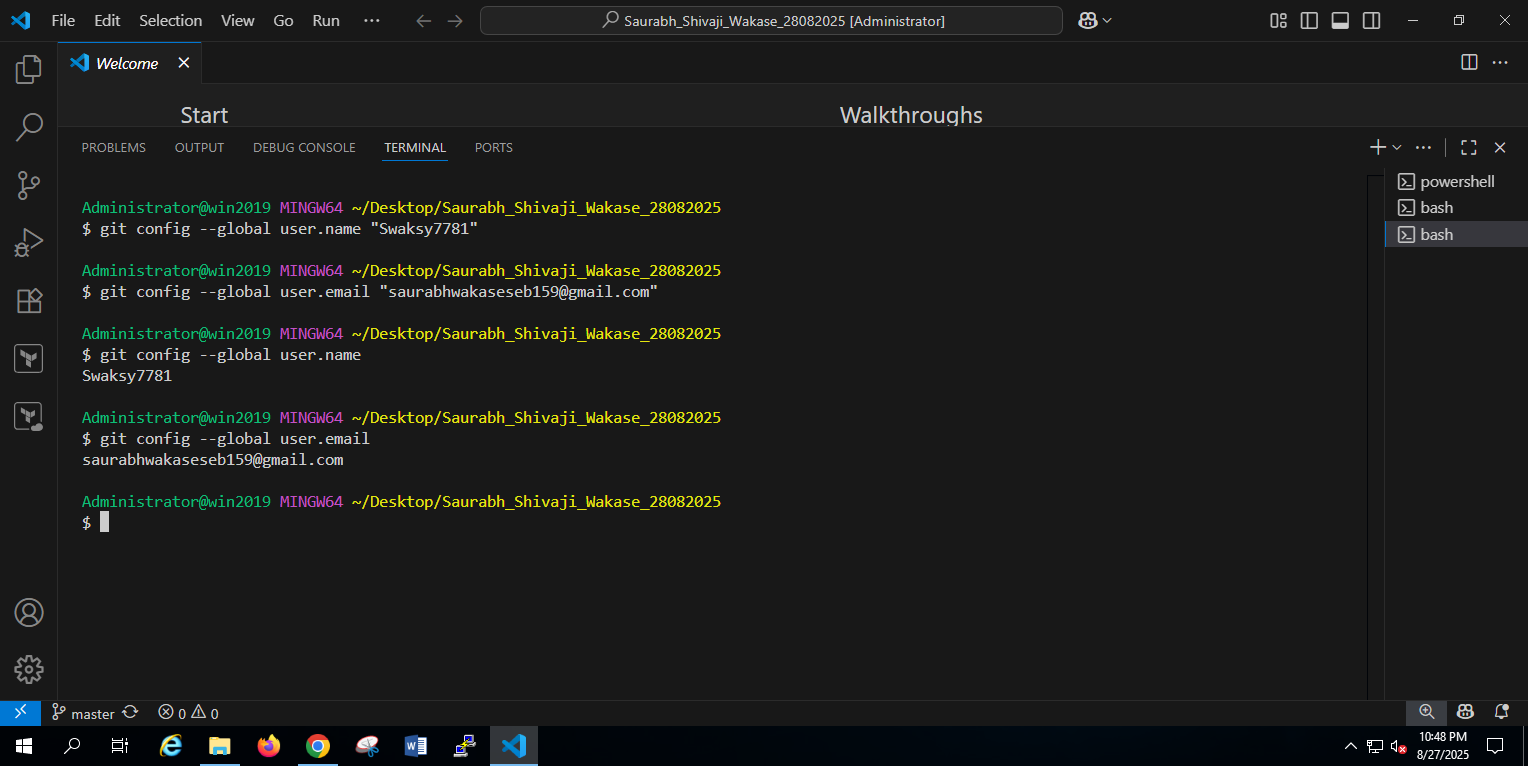
After cloning, changed directory in repo.

Checked to see the contents of repo, confirming **Successful Cloning.**

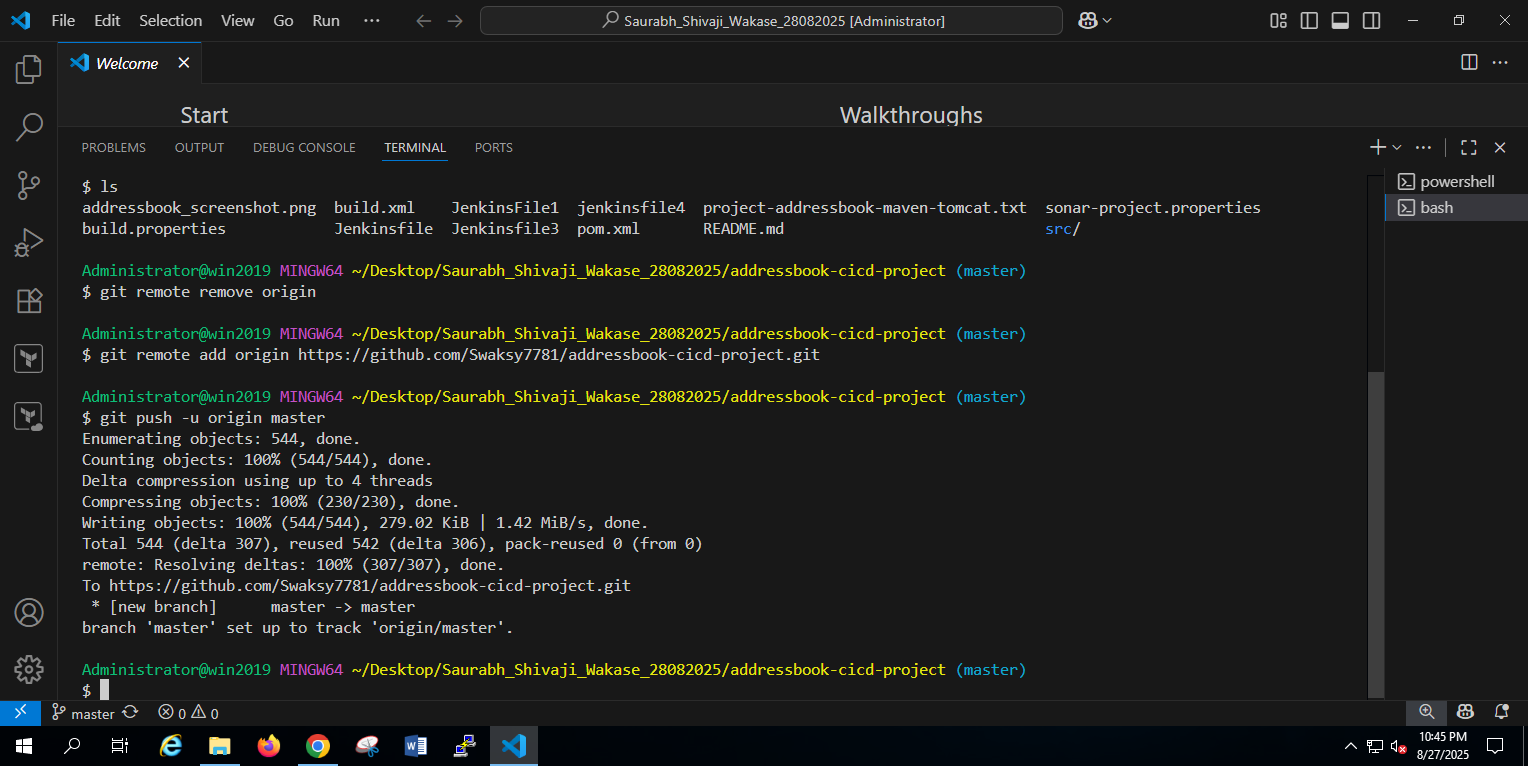
**Github create repo and push:**



Creating my repo named same as provided repo.



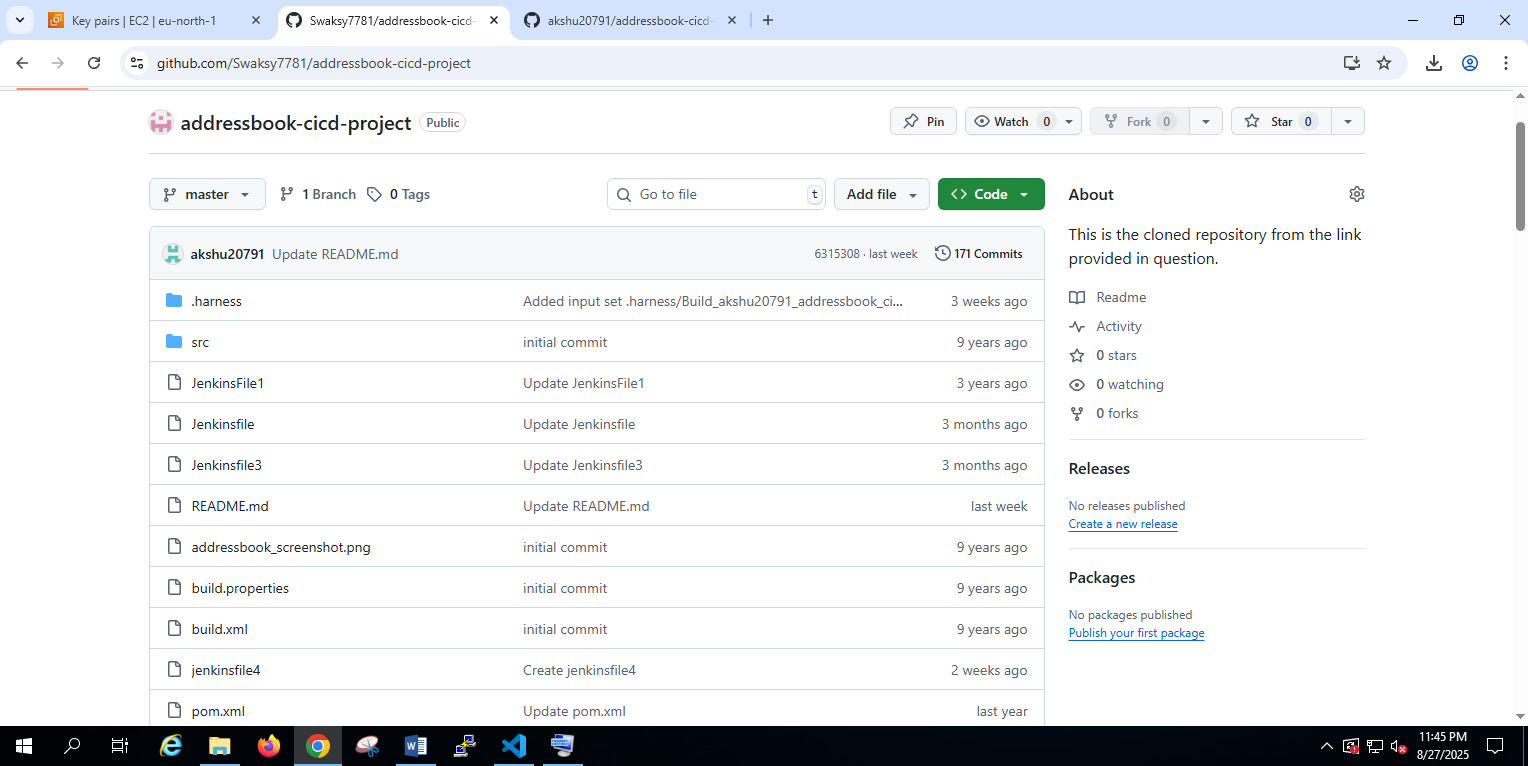
Configuring my credentials in order to connect to my github. Successful configuration.



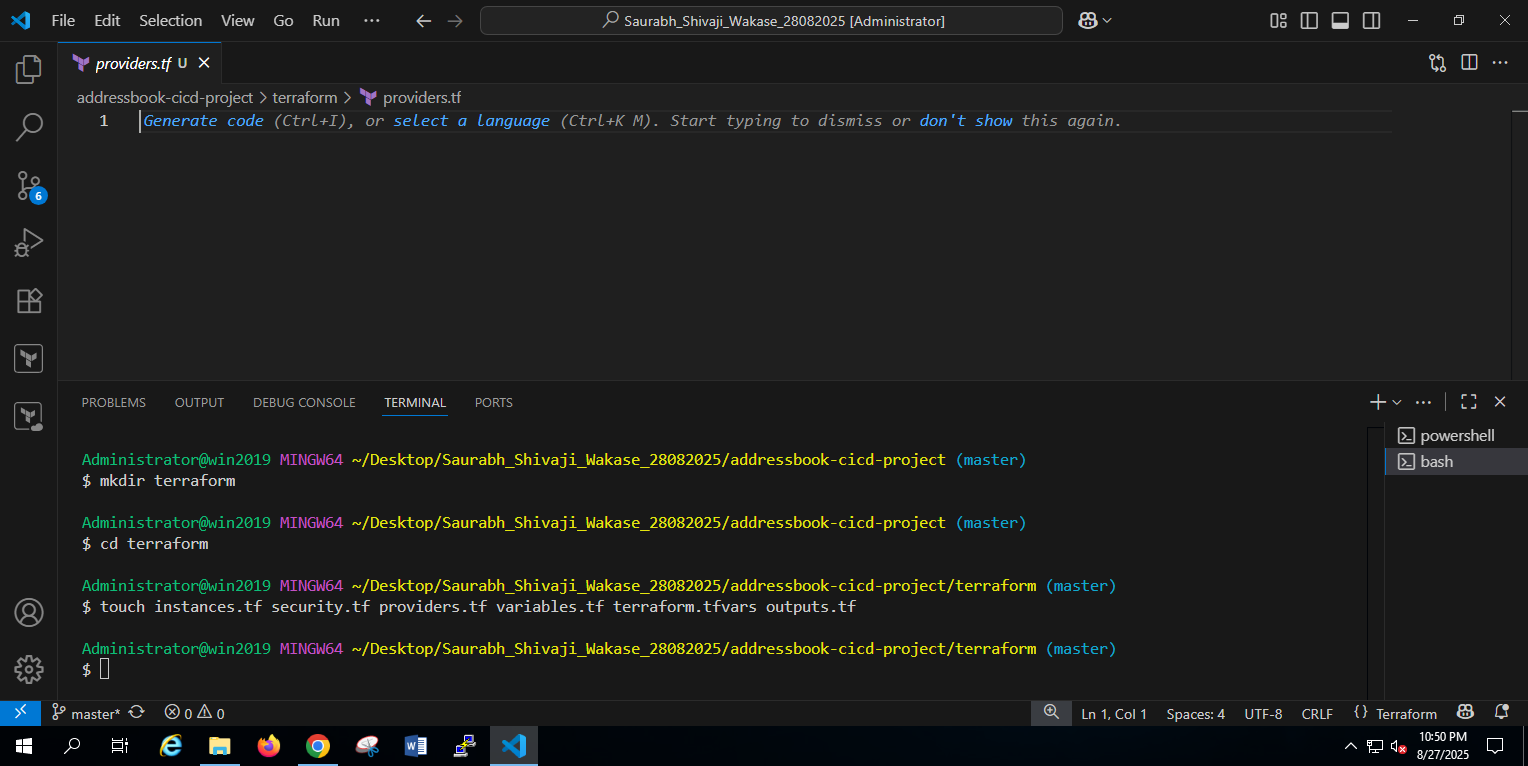
Ran git remote remove command, because it was linked to the repo that was cloned, but I needed to push it to my repo, I have to remove old one.

Added New remote origin so that I will not face issue in pushing to my repo.

Ran git push command.

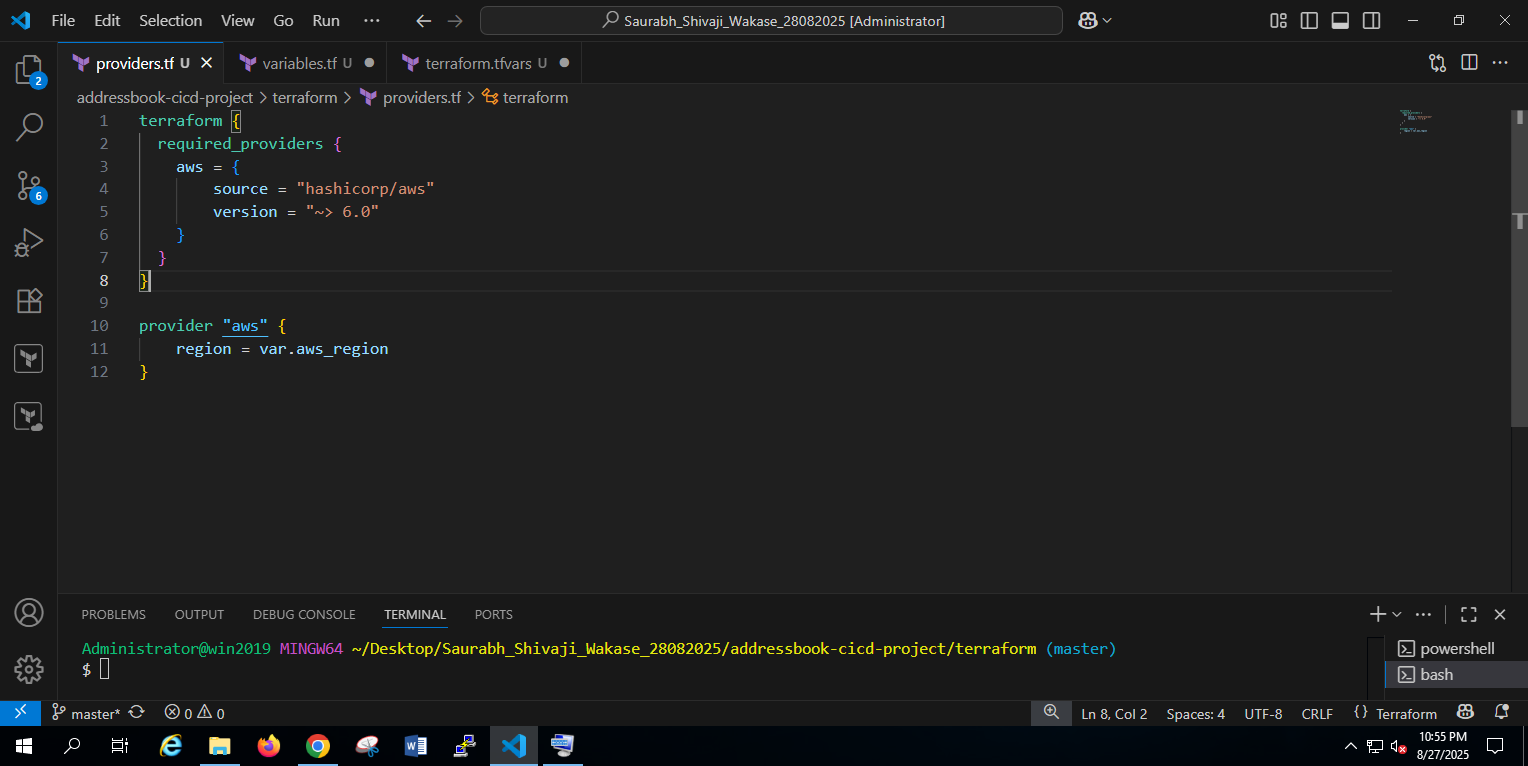


**Successfully push the files** from addressbook folder.

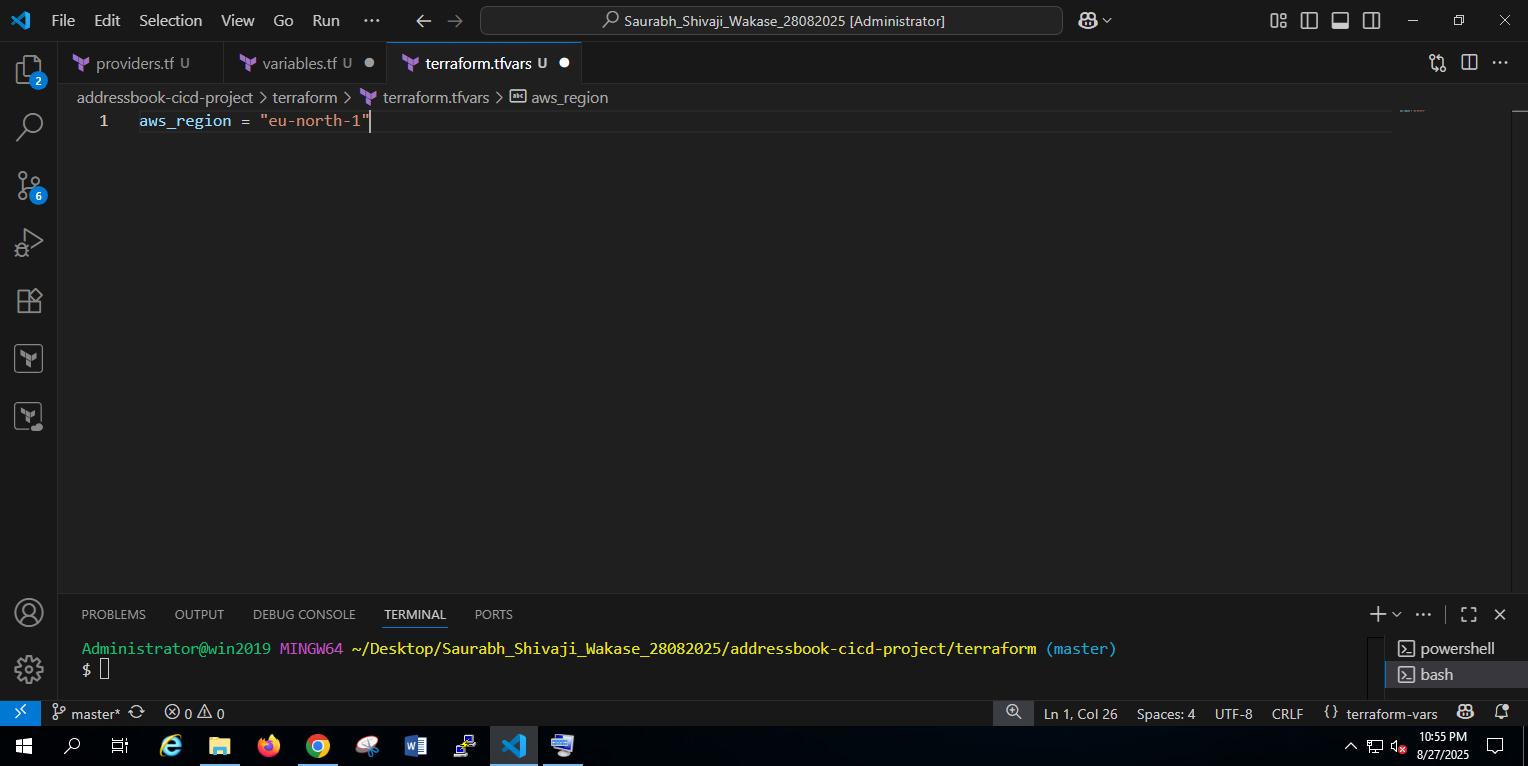
**Terraform:**

Made terraform folder.

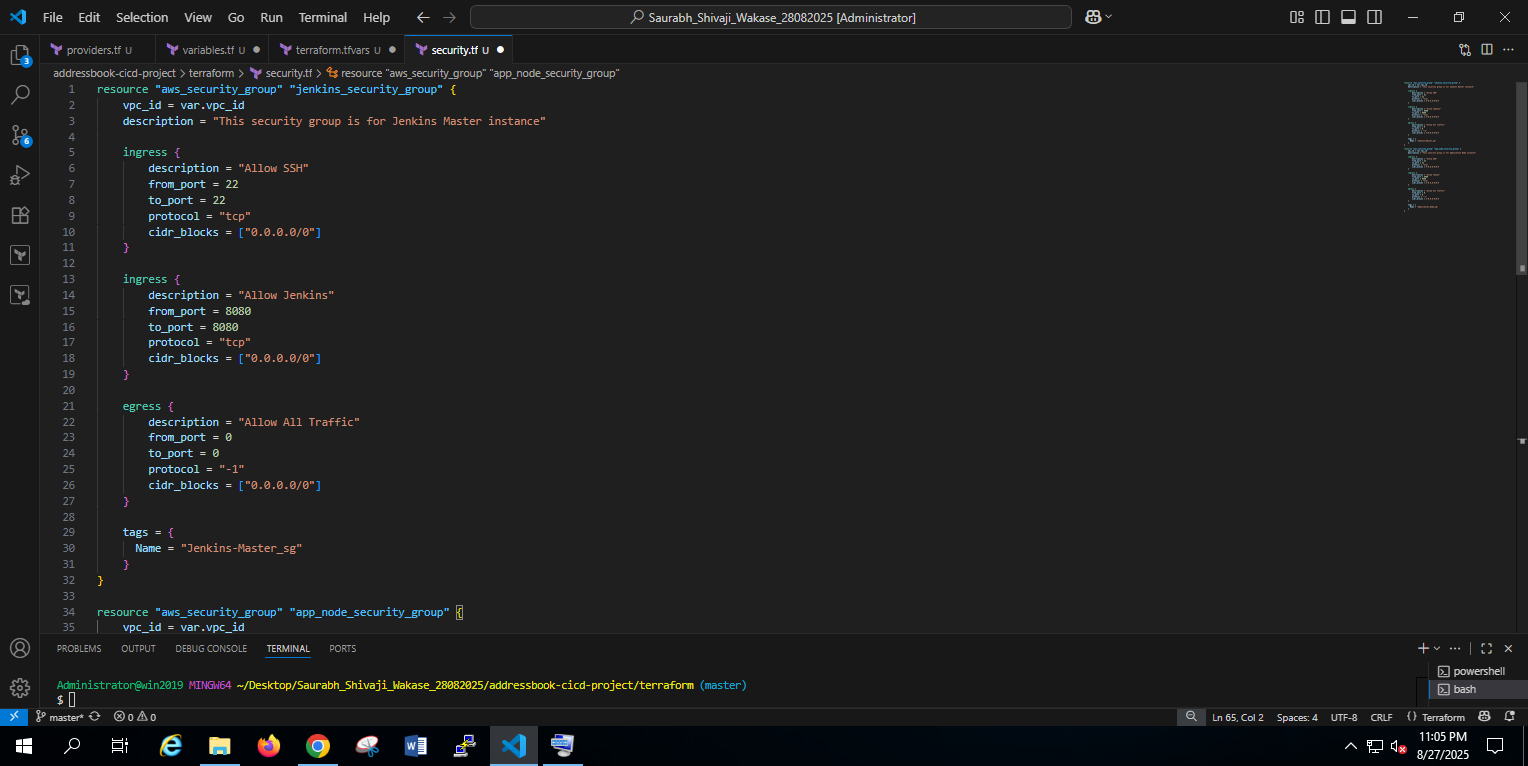
Created terraform files using linux cmd: touch.



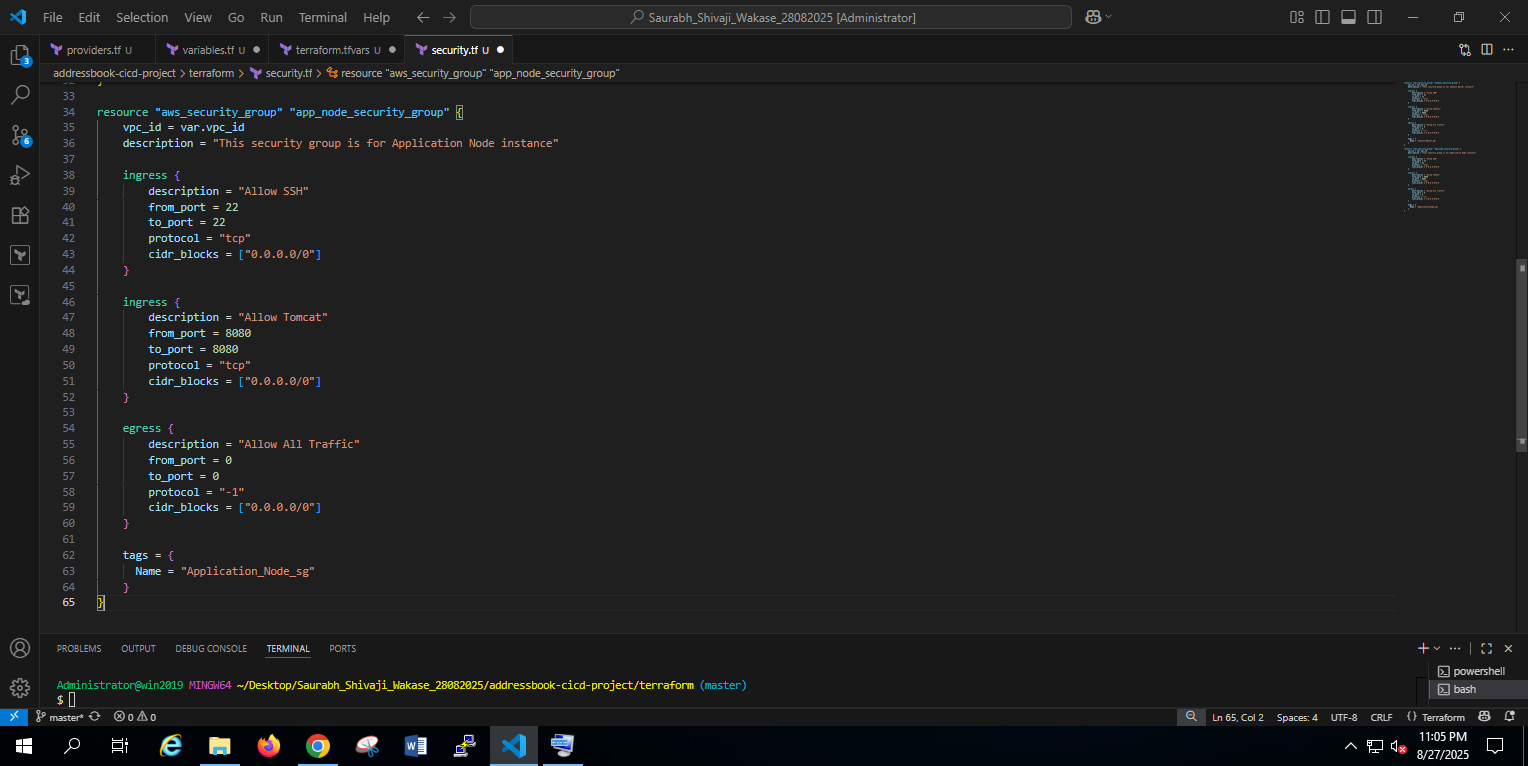
Script for which provider and aws region to use.



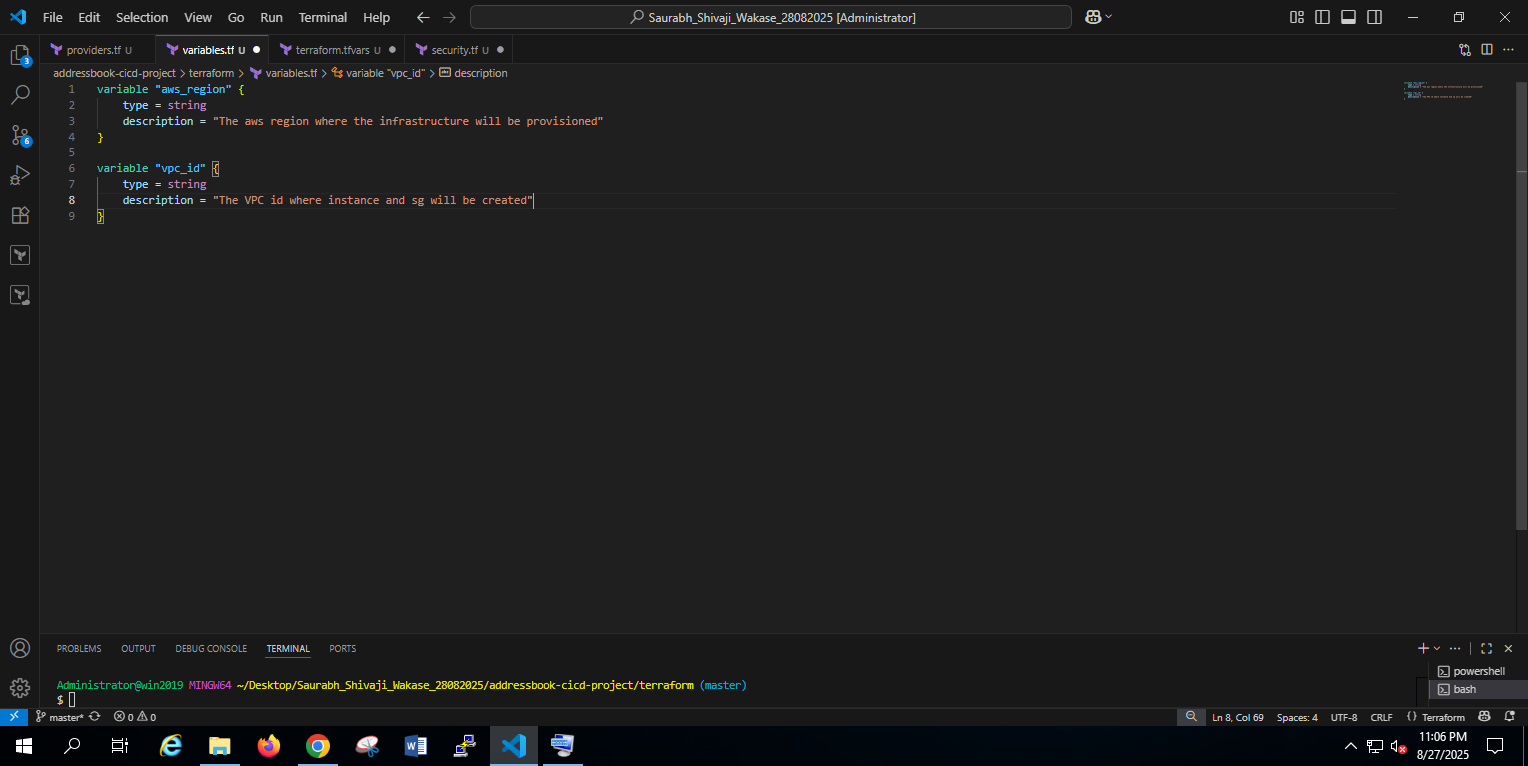
Added variable of aws region.



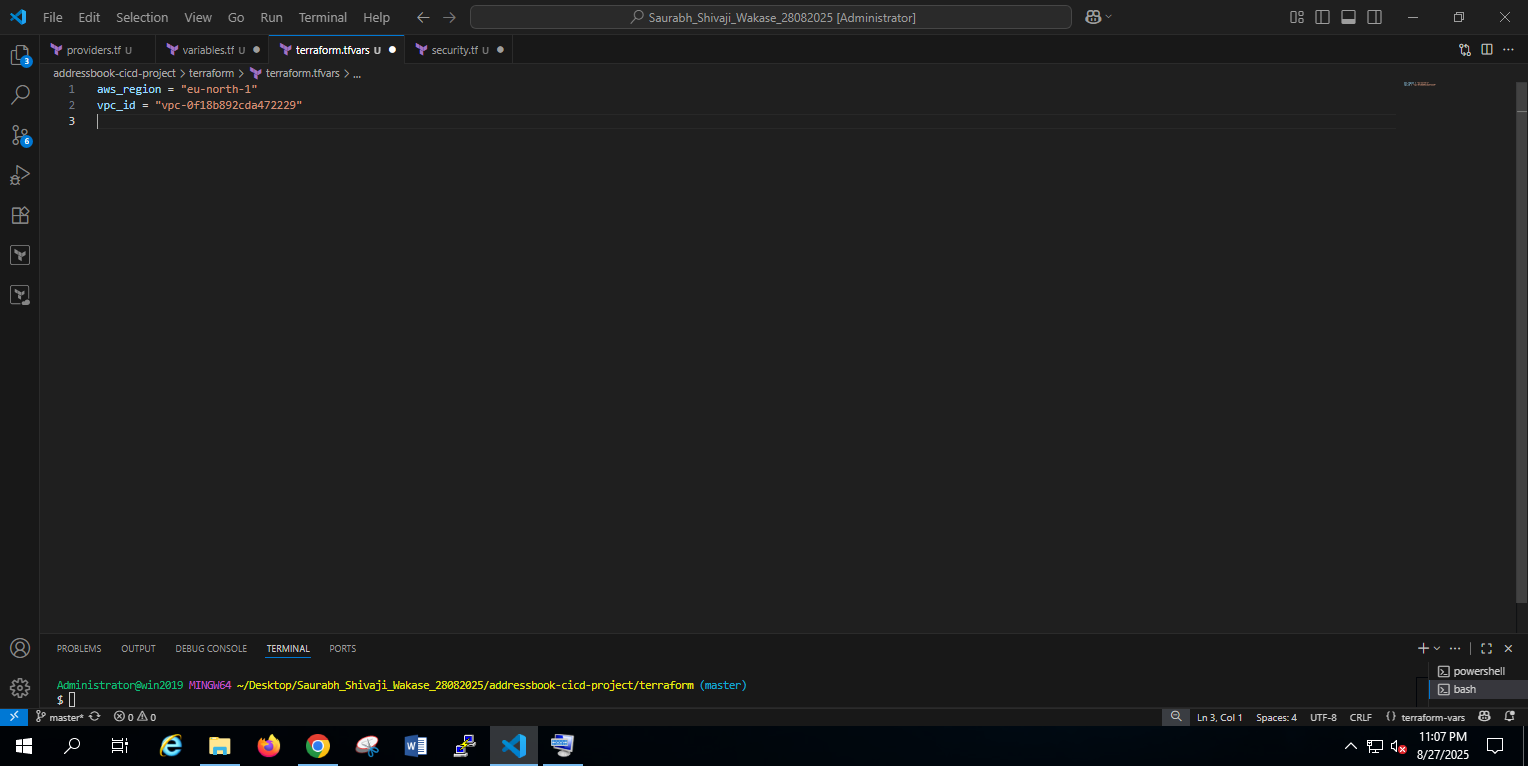
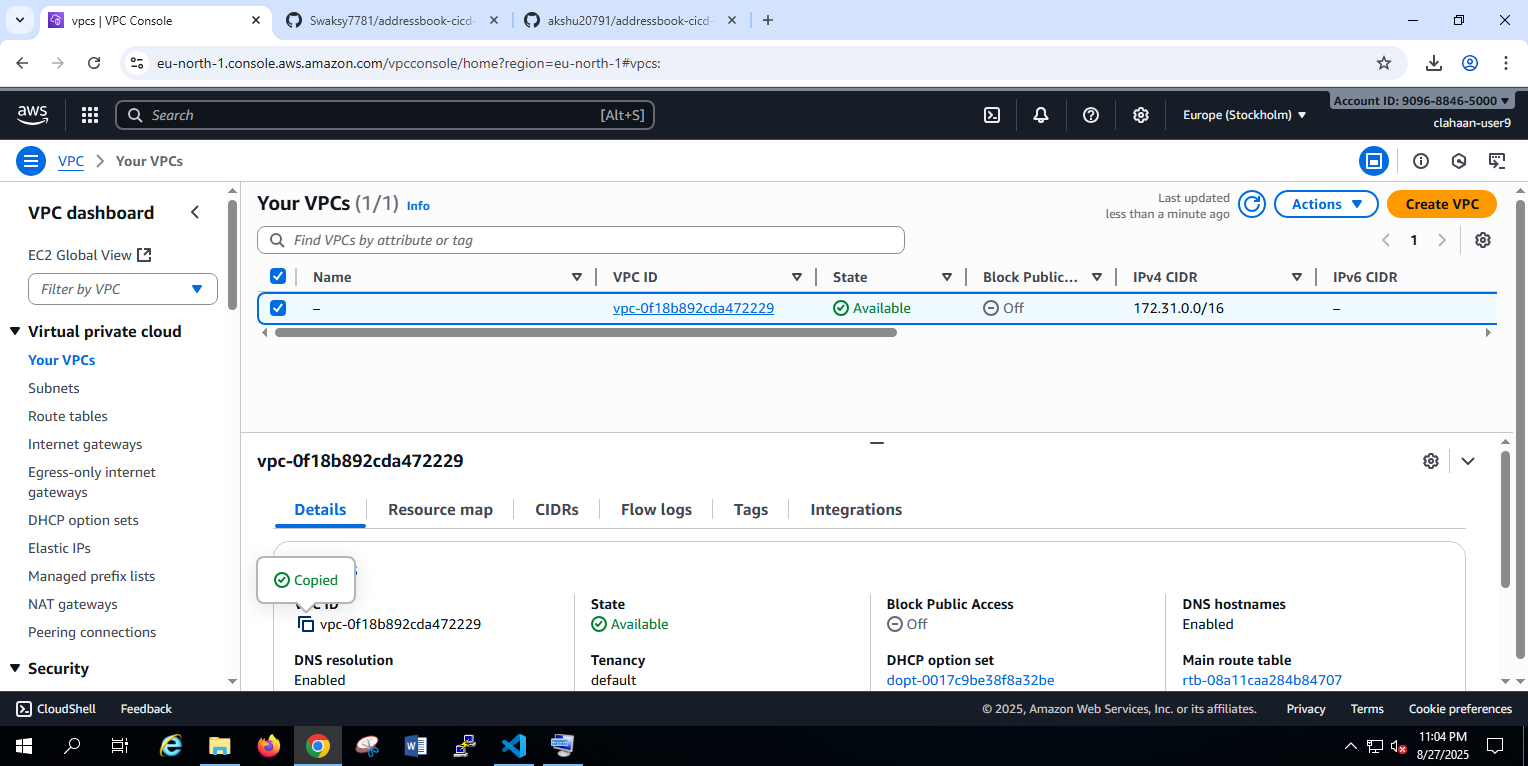
Security group script for jenkins master node, we could have done using 1 group only, but question explicitly mentioned groups.



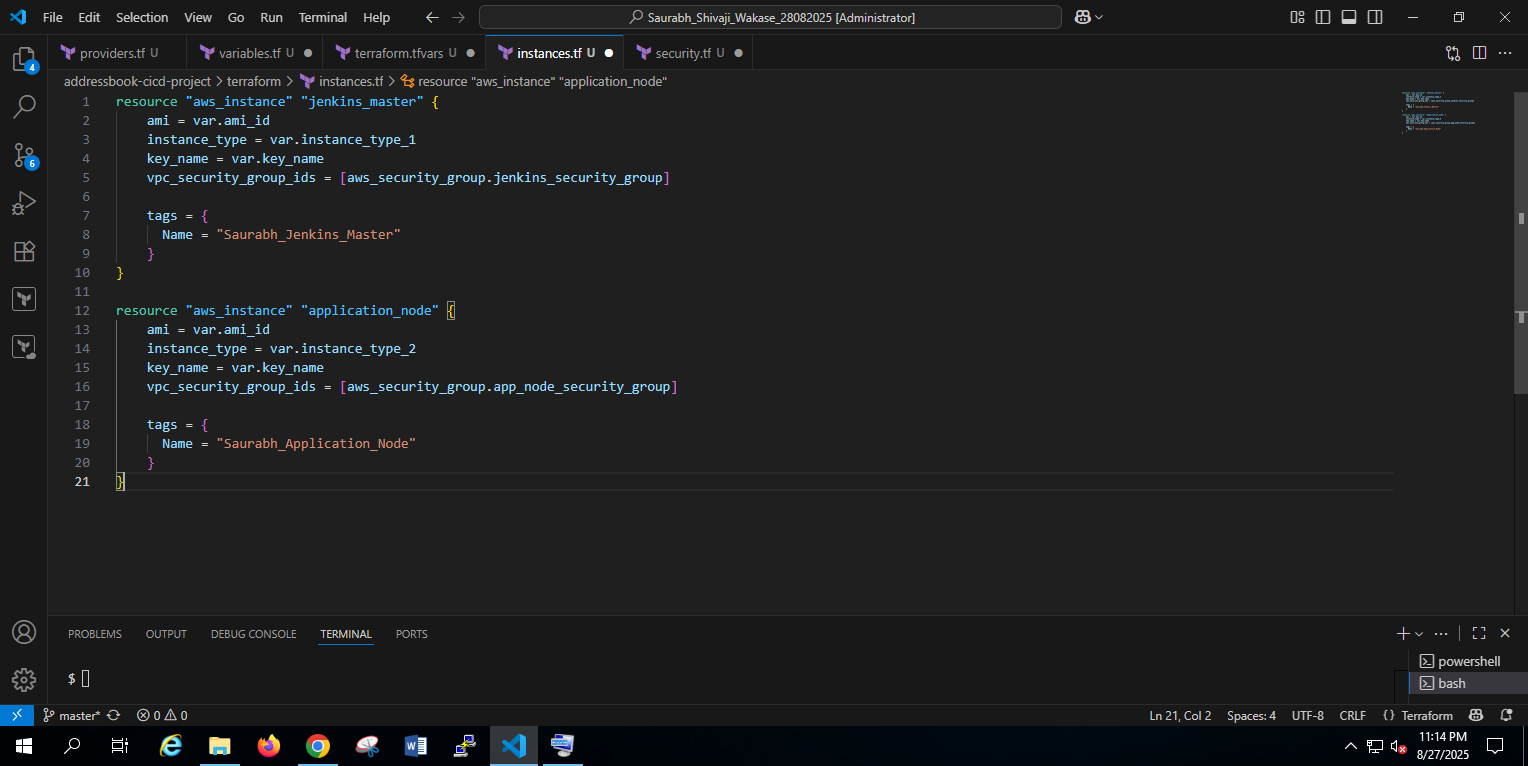
Security group script for application node.



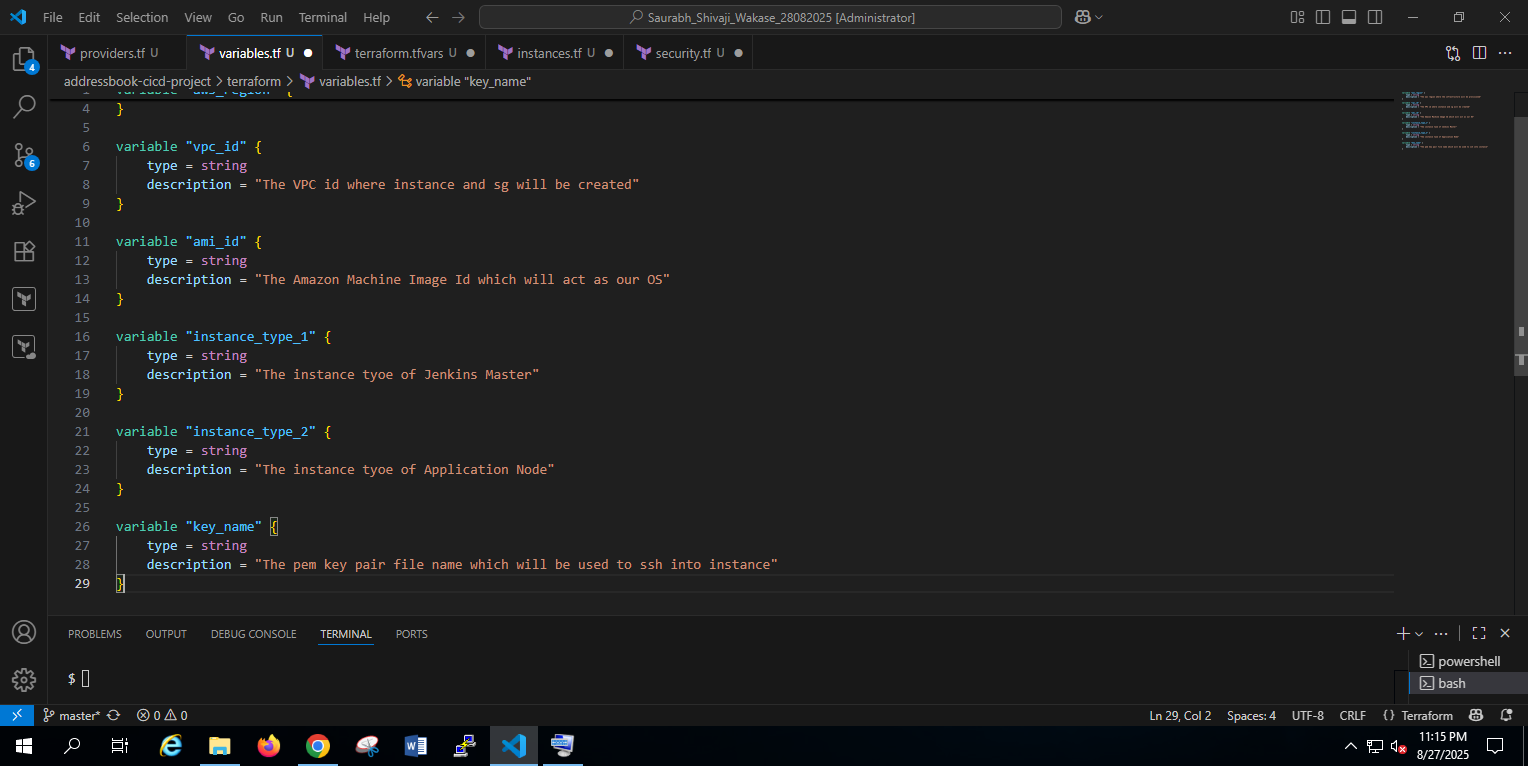
Adding vpc\_id variable



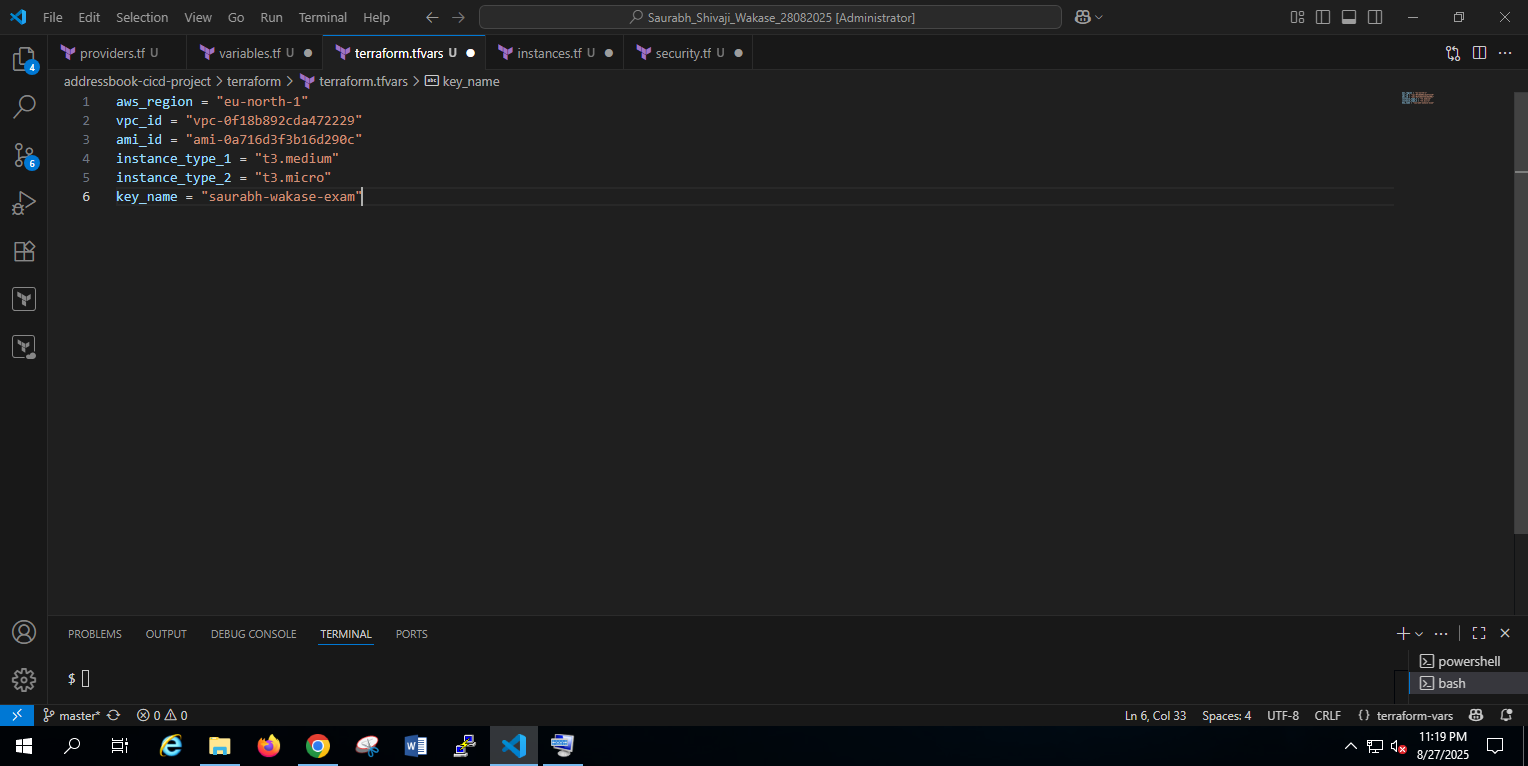
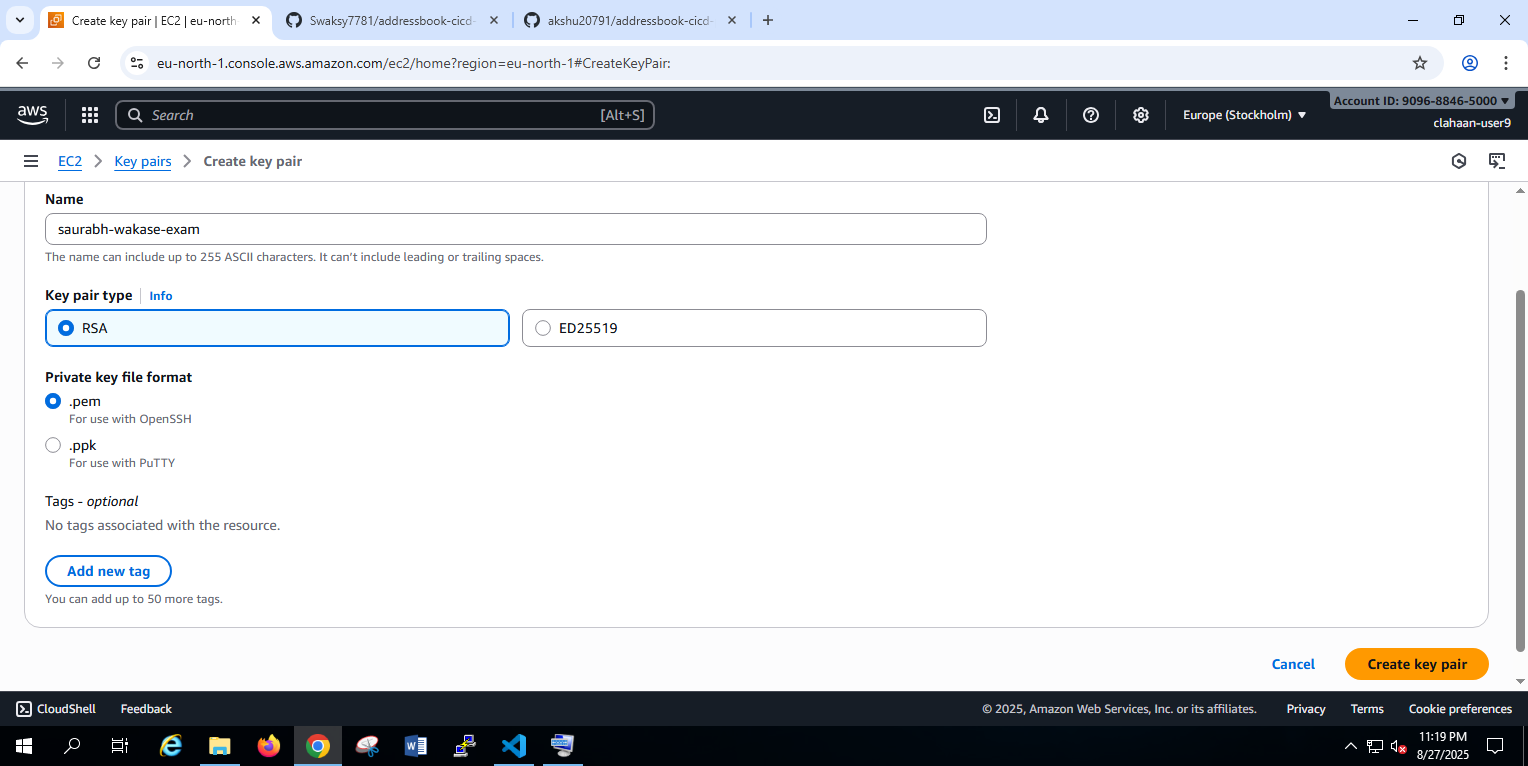
Added the value of voc\_id by copying from aws.

Creating ec2 instances:

Instane script.

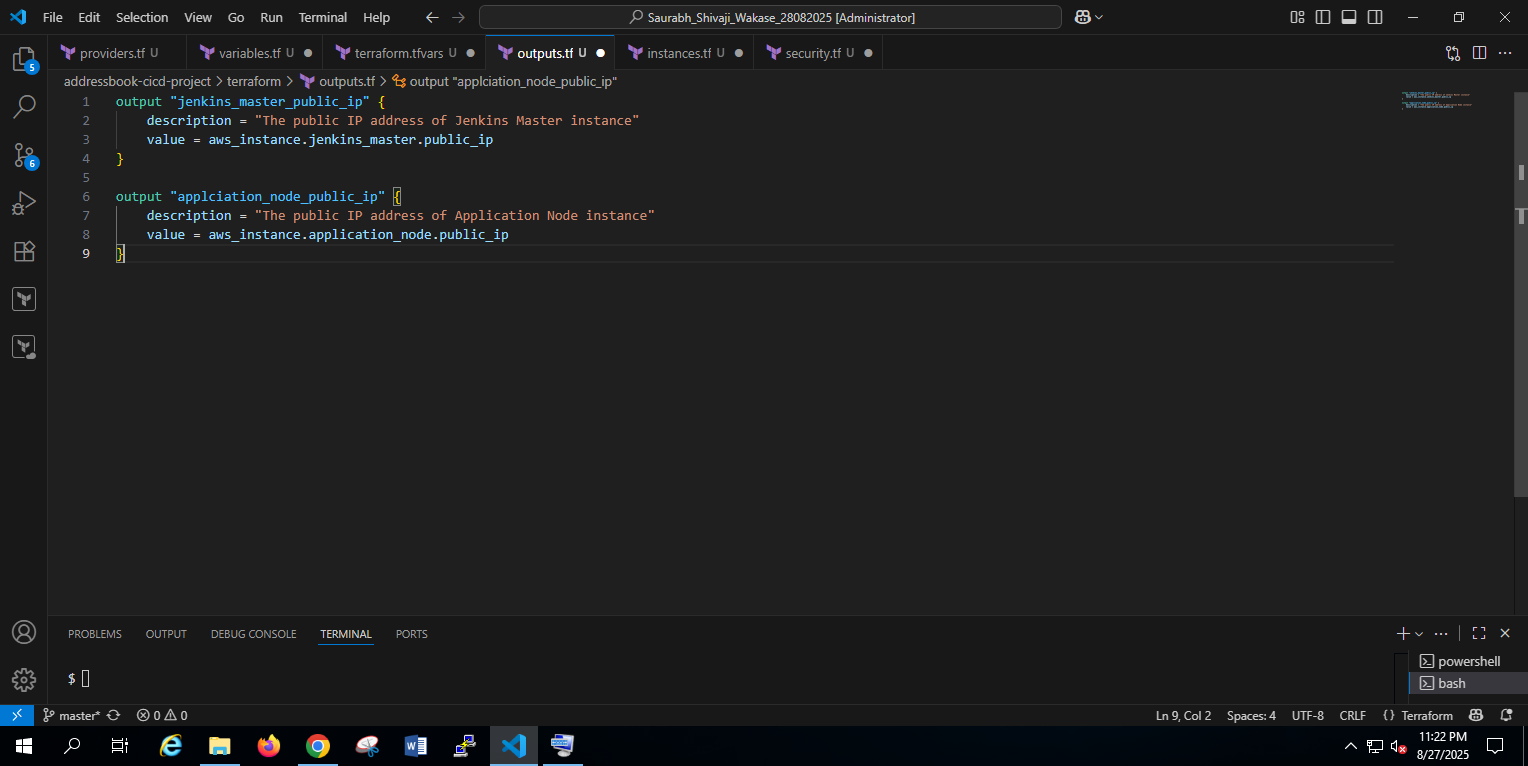


Updating variables of ec2 instance in variables.tf

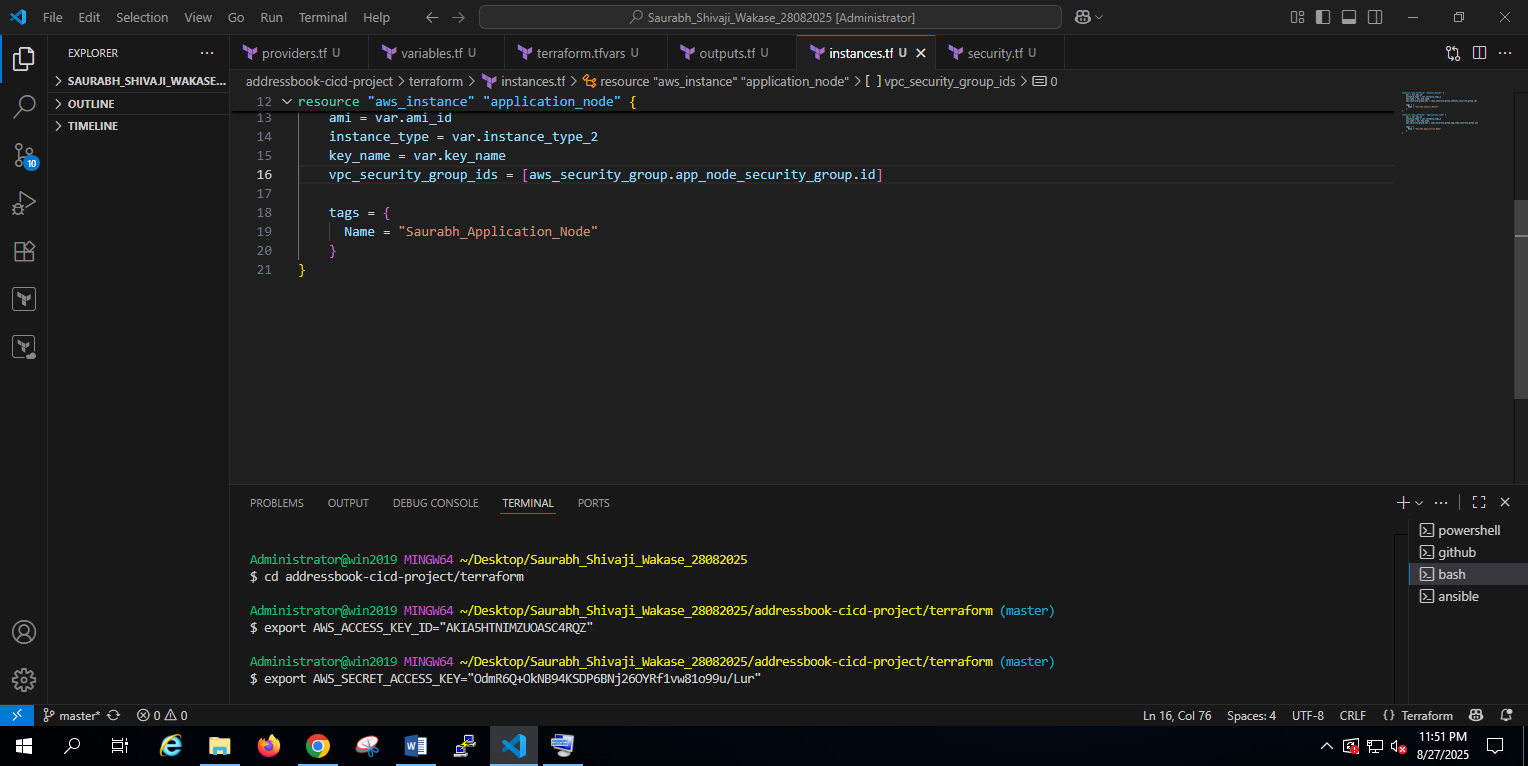


Added the value of instane type and key name variables.  
for jenkins master its t3.medium.

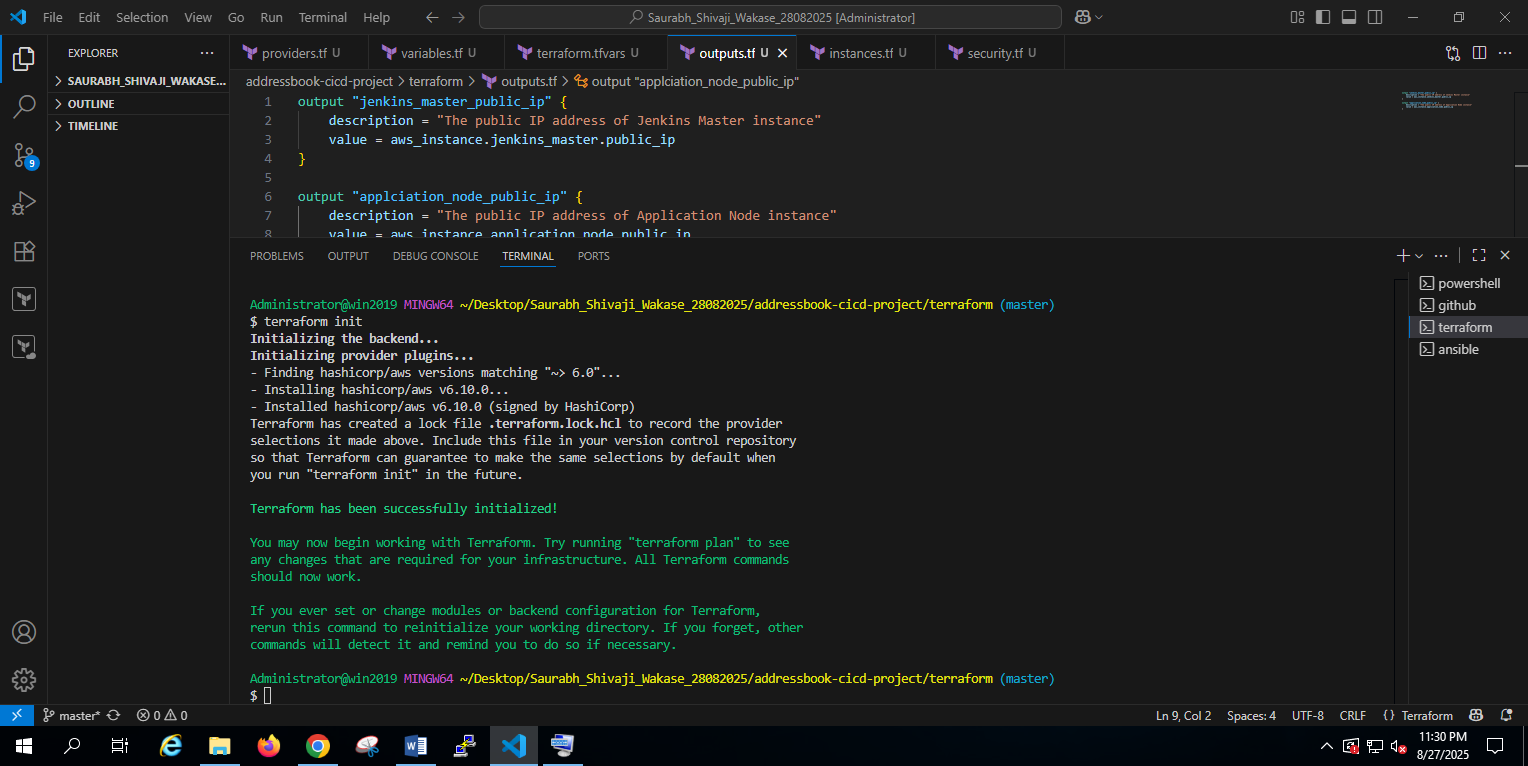
For application node its t3.micro.



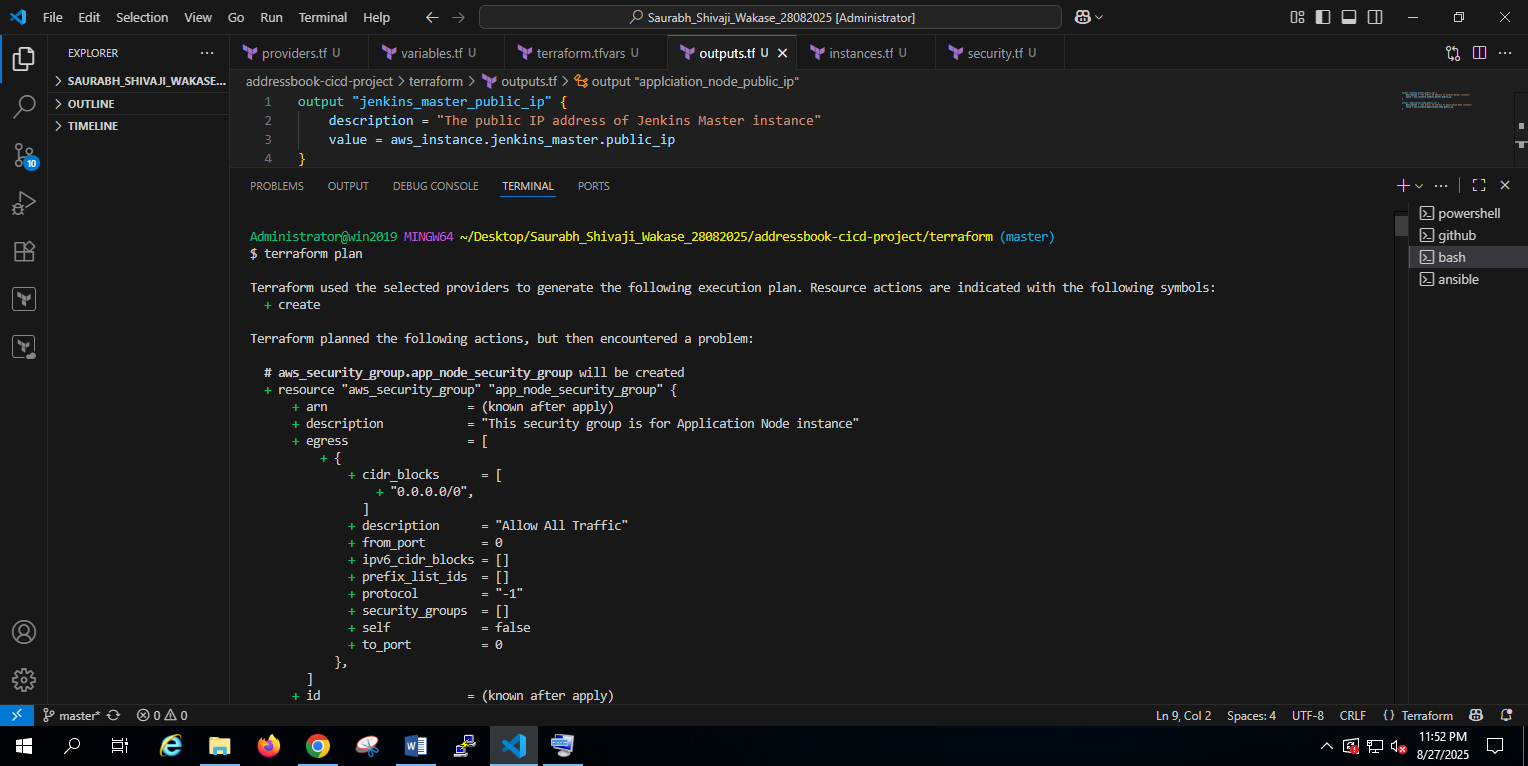
Outputs.tf file for showing result of our infrastructure provisioning.



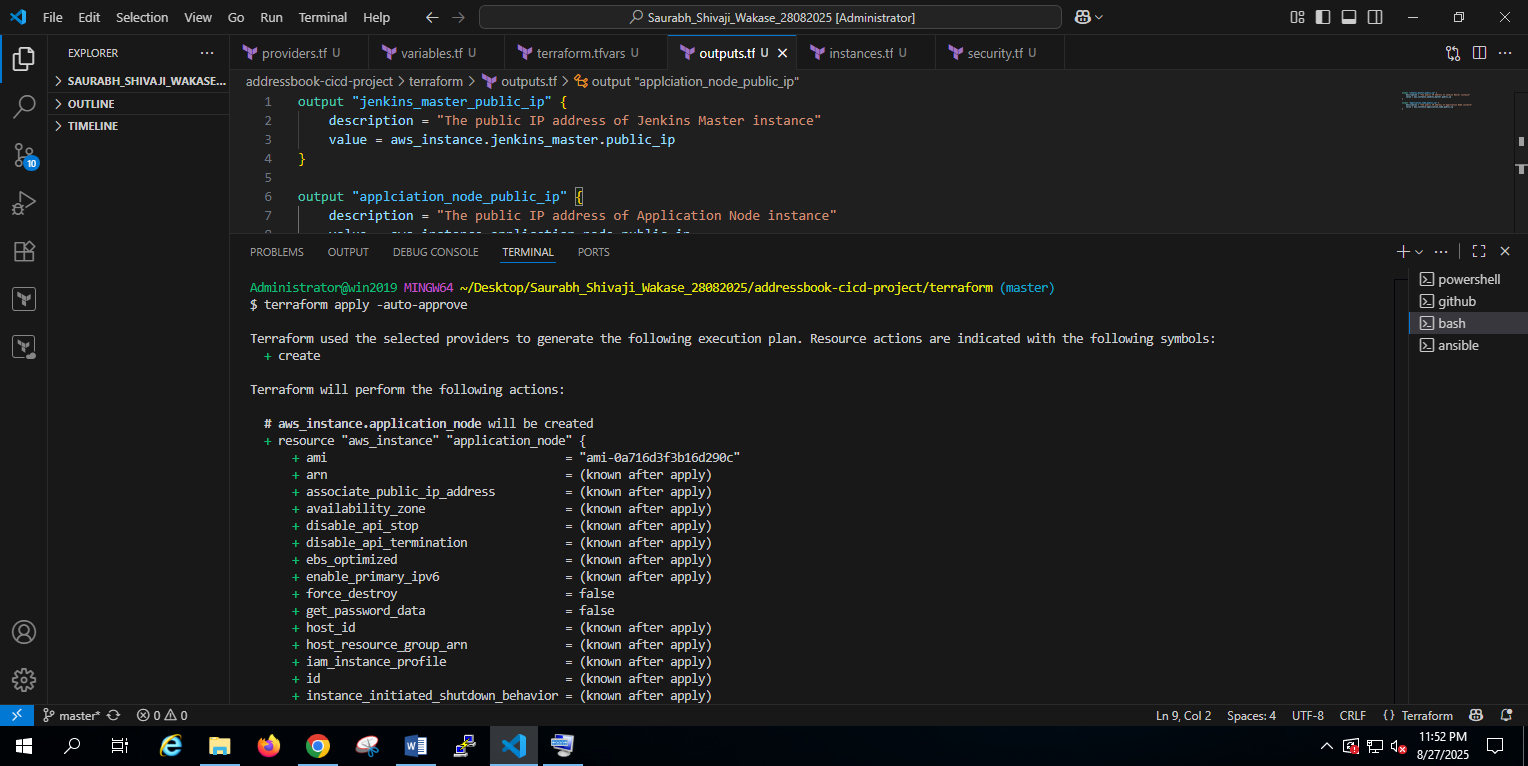
Adding aws credentials.



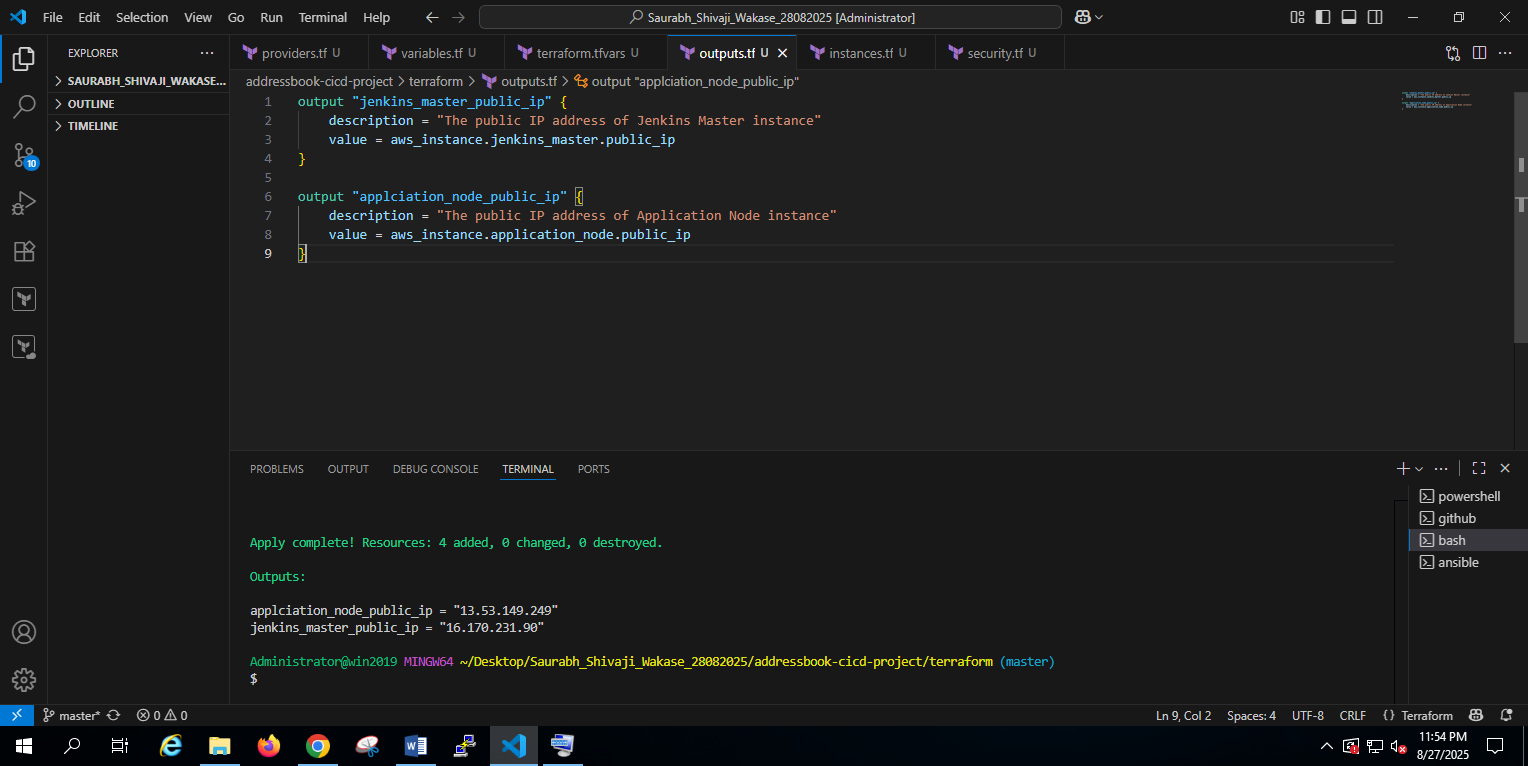
Terraform init



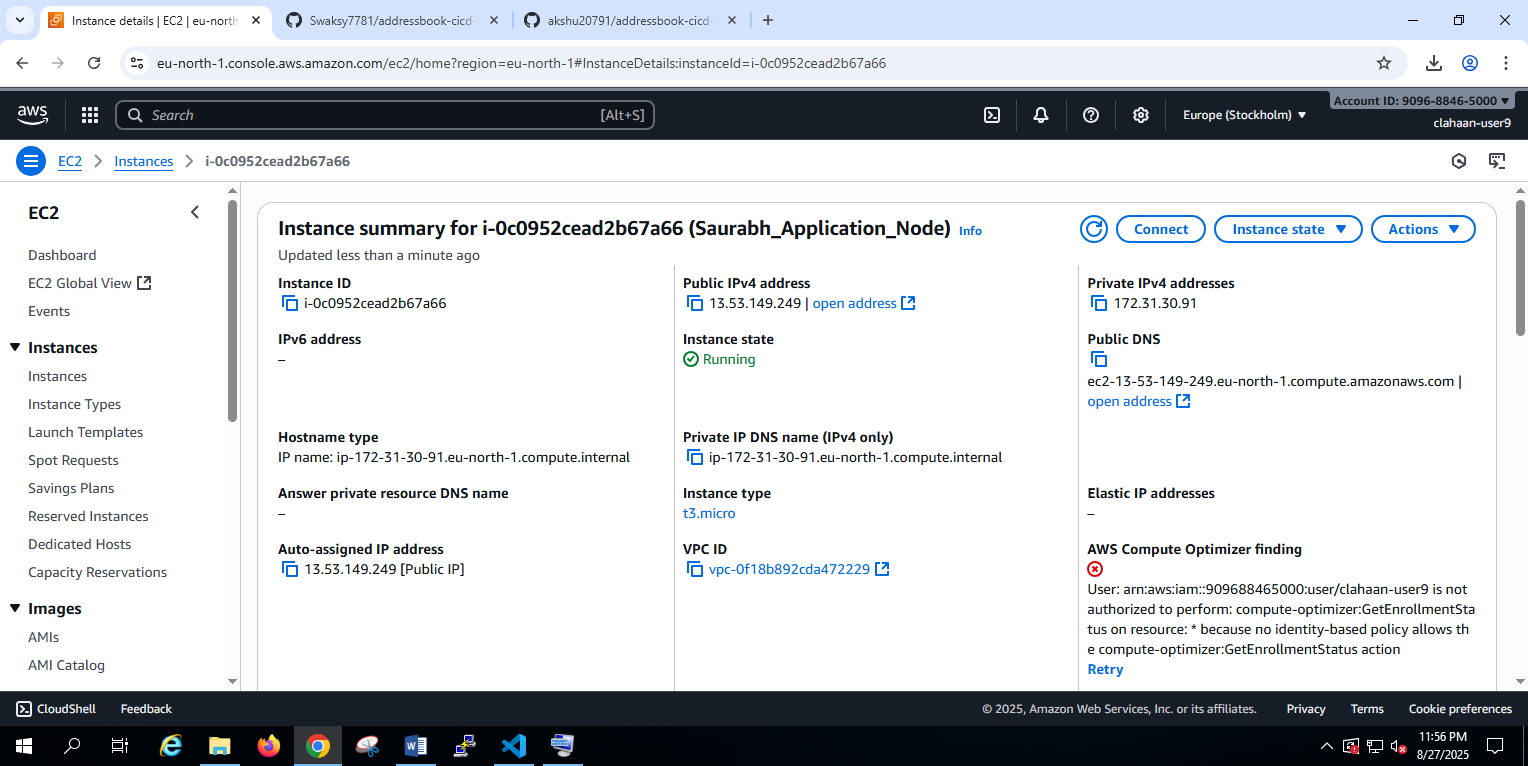
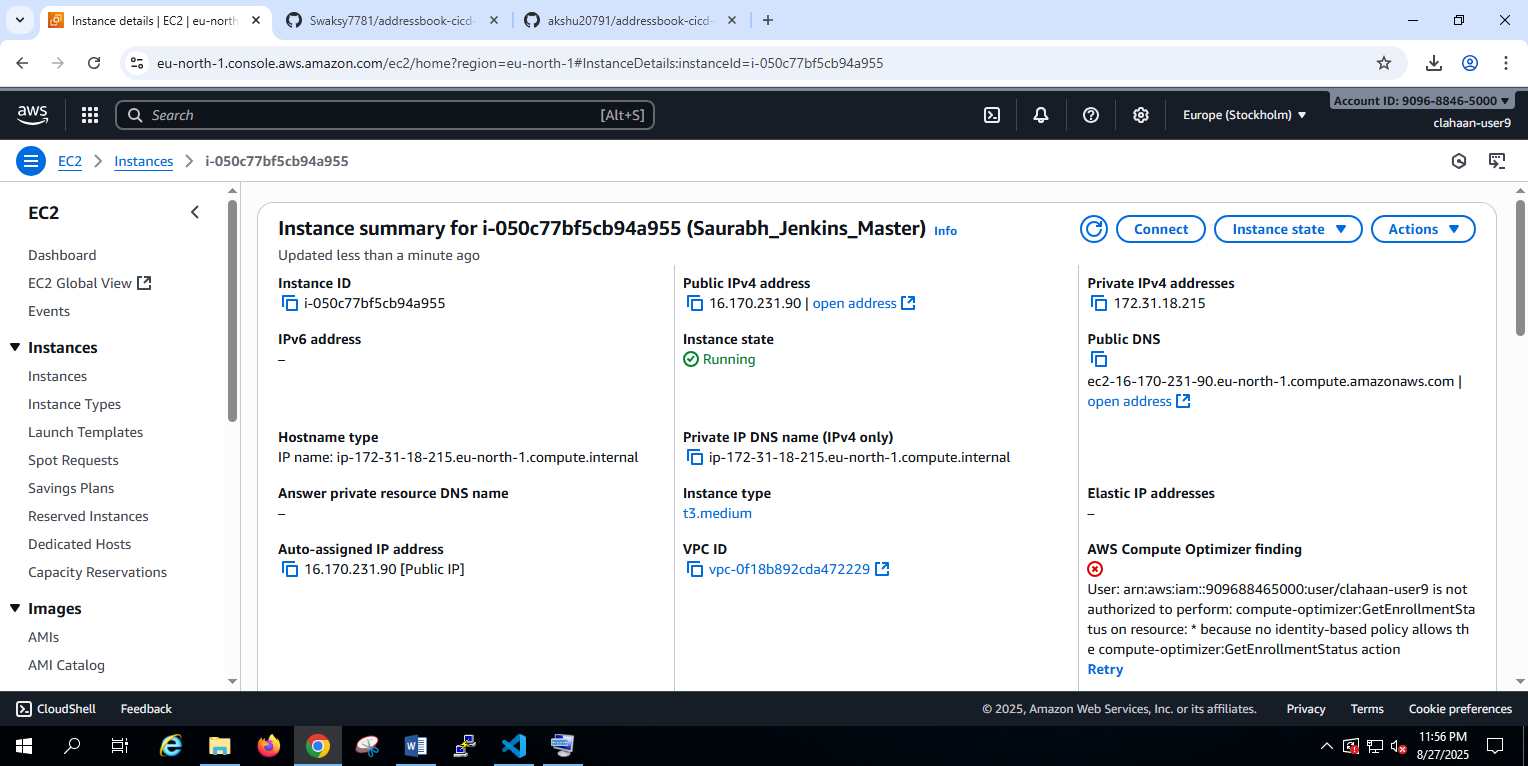
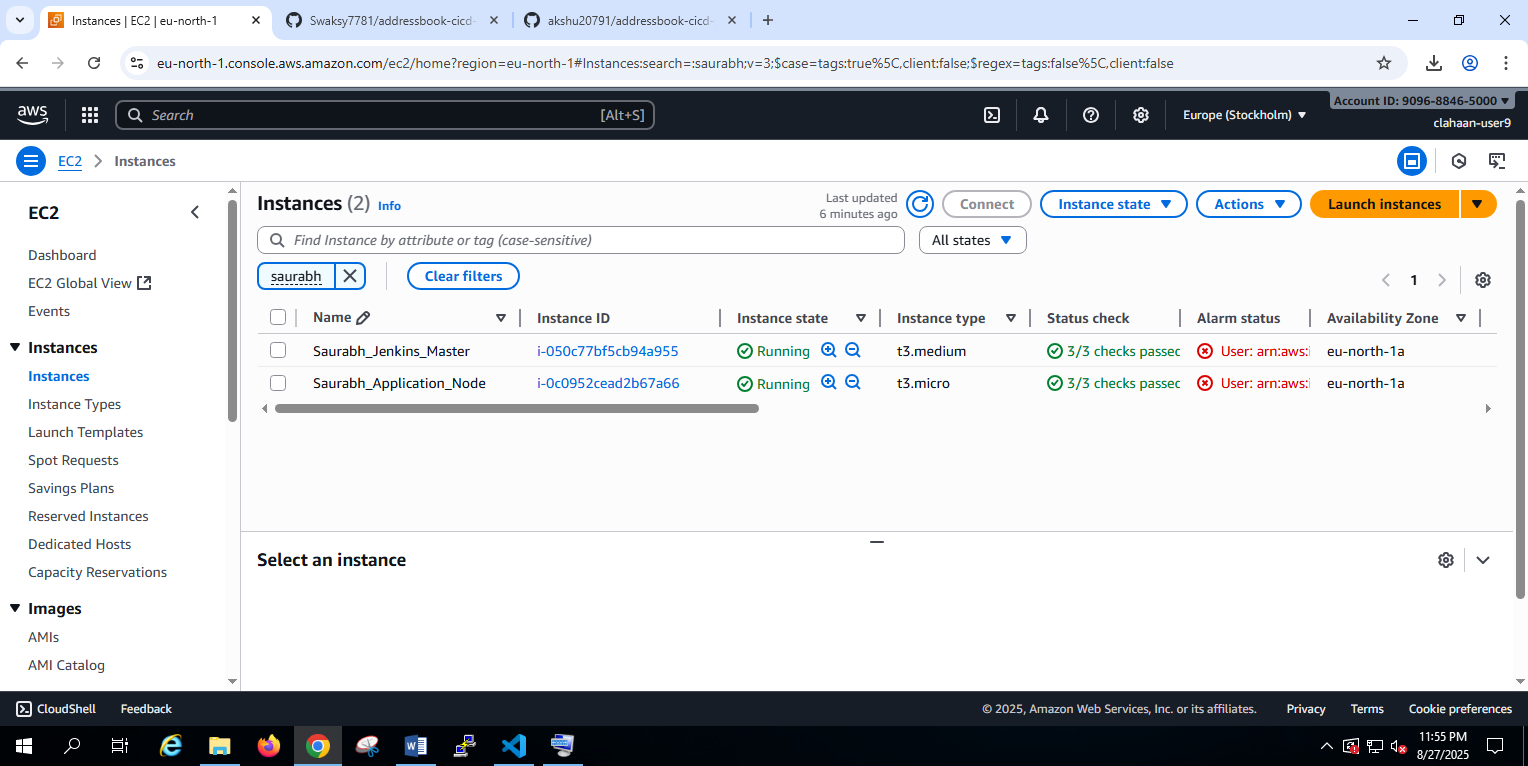
Terraform plan



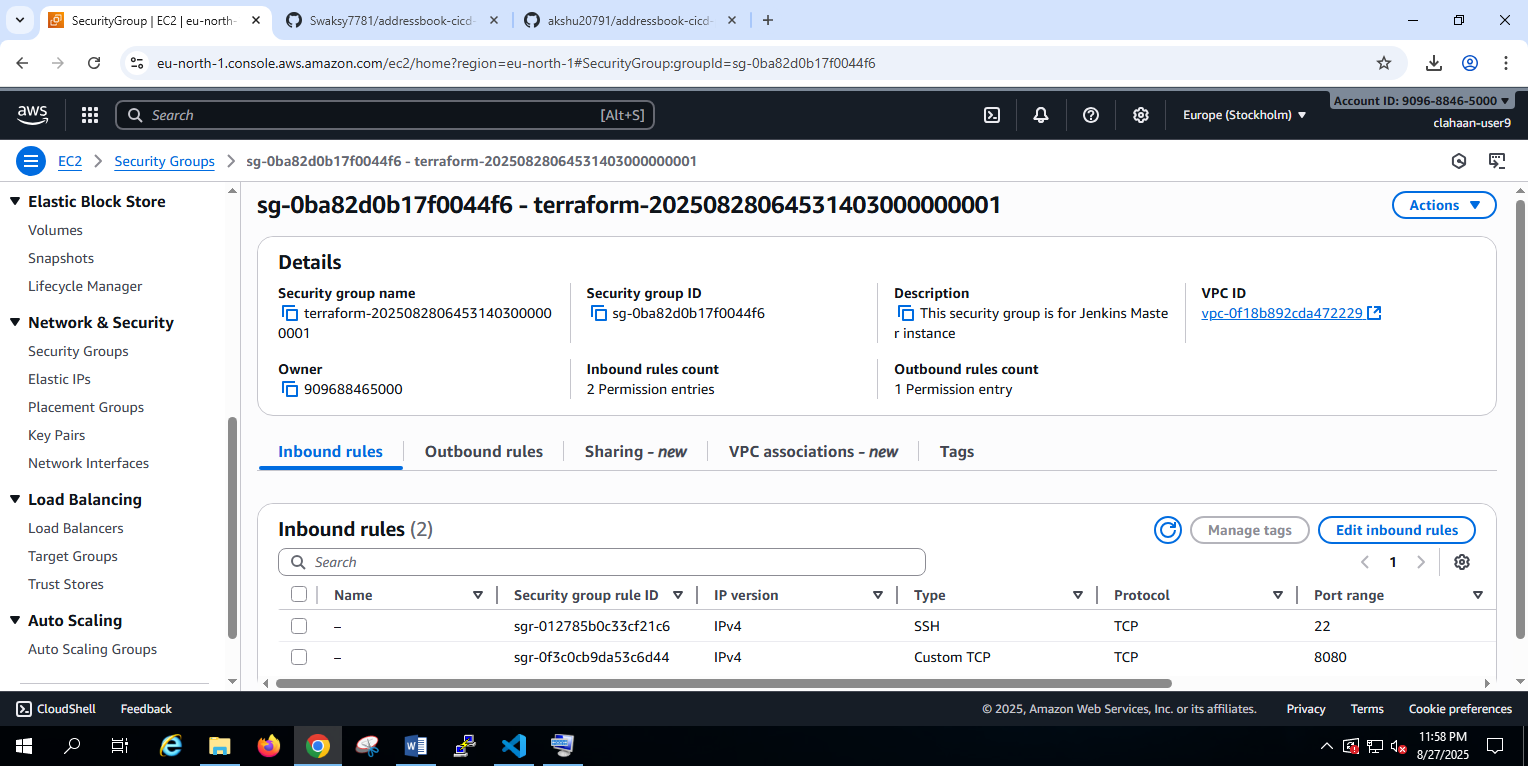
Terraform apply

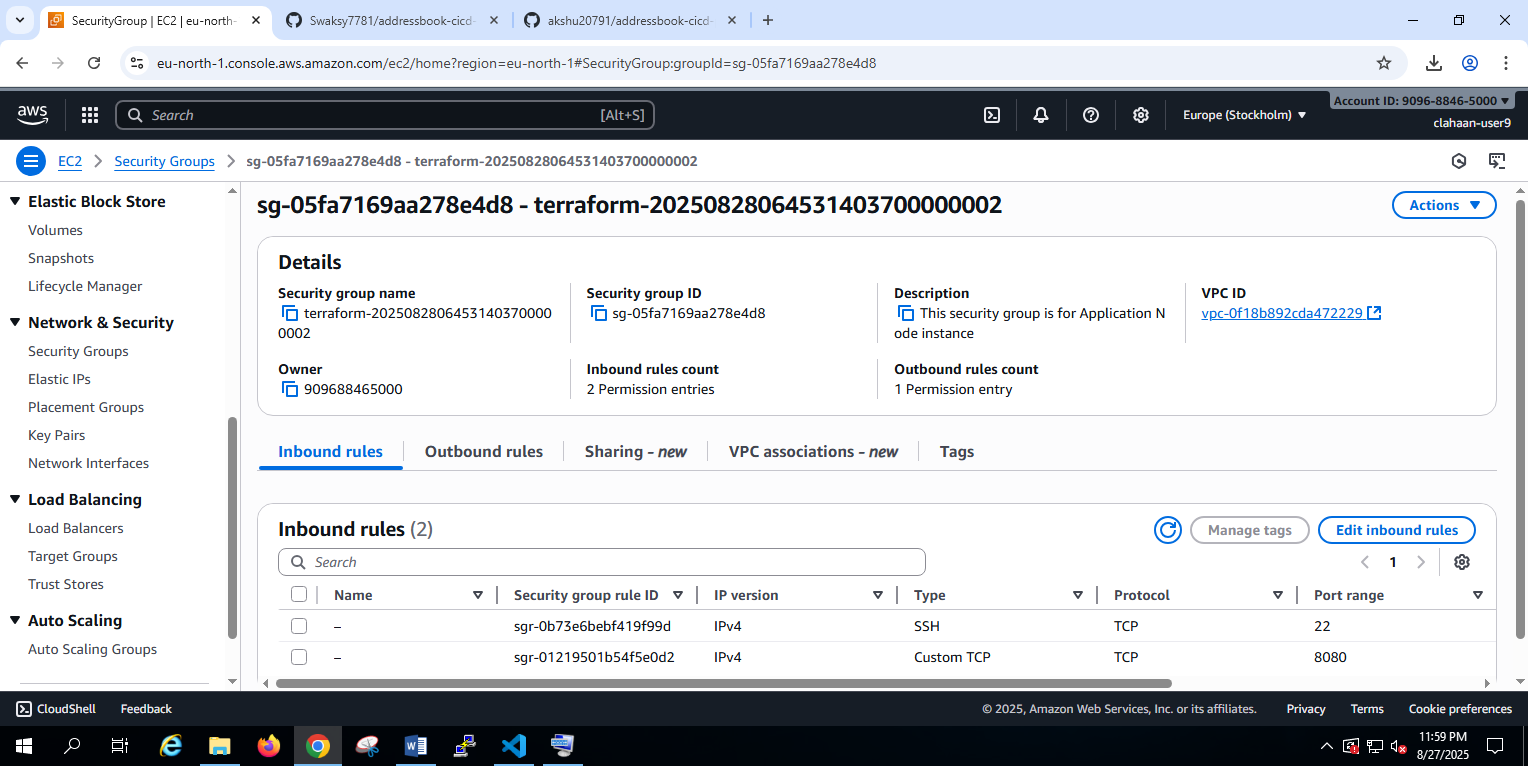


Succesfuuly created 2 ec2 instances and 2 security groups.

Results:

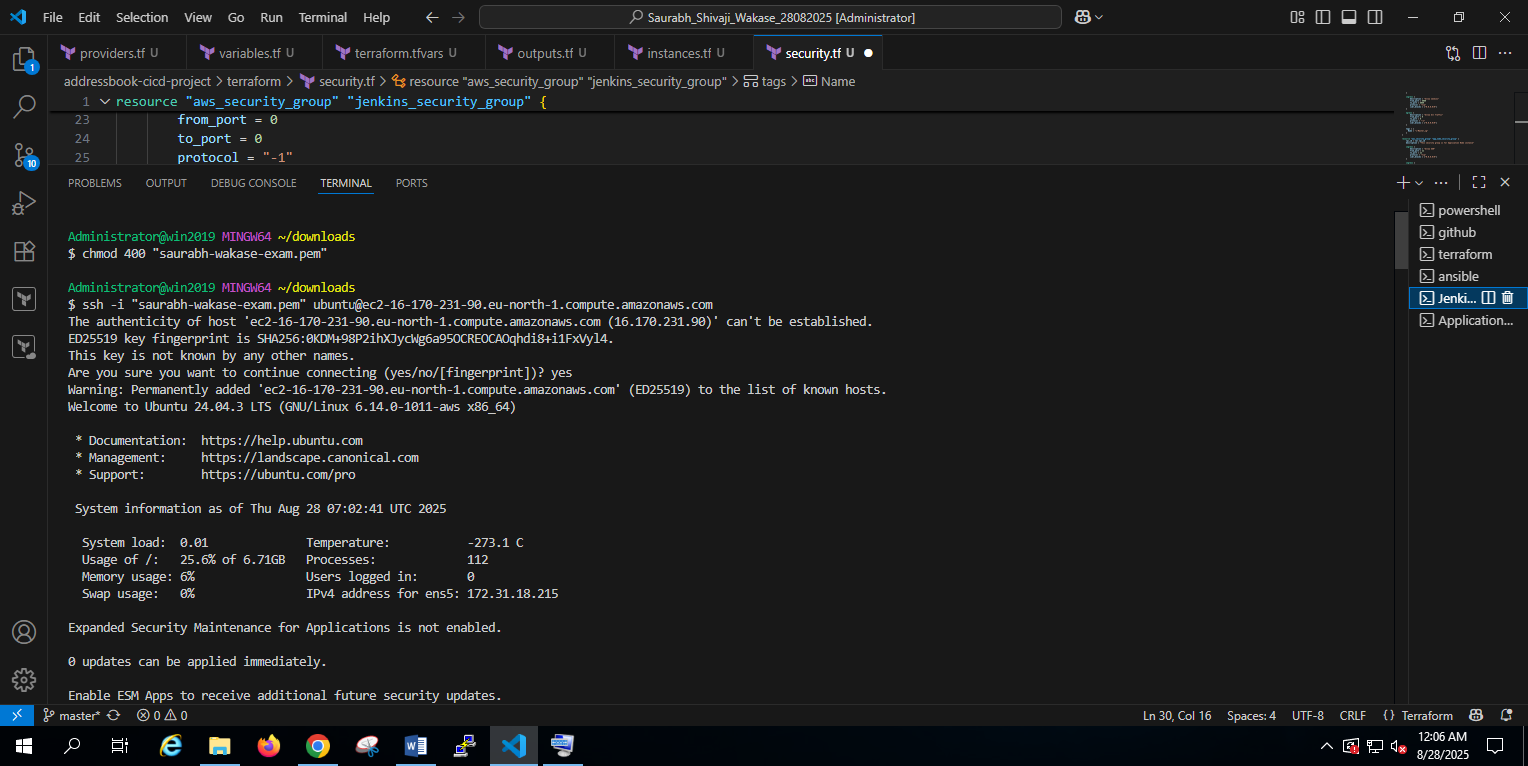
Both instances are created successfully.





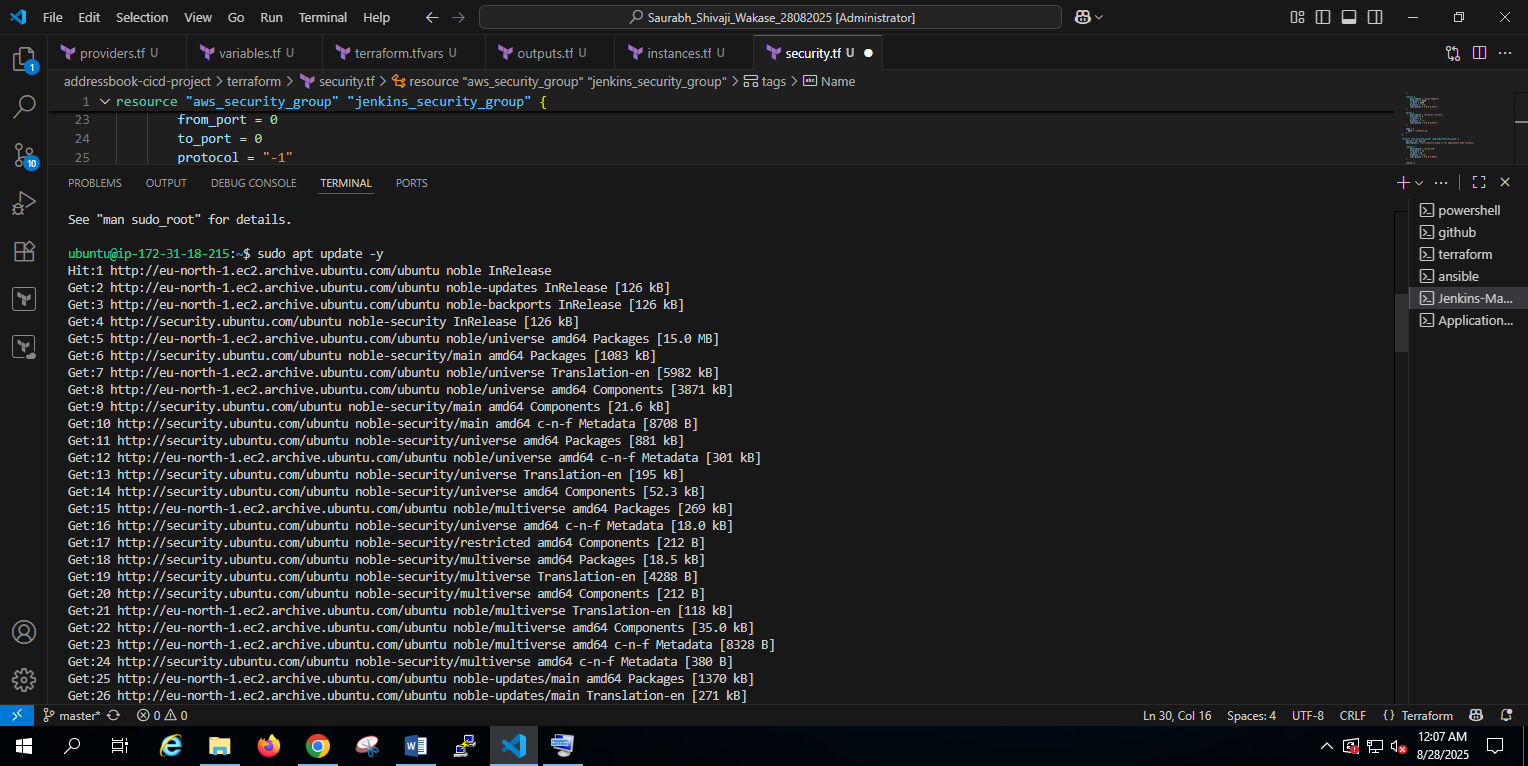
Security groups created succesfully.

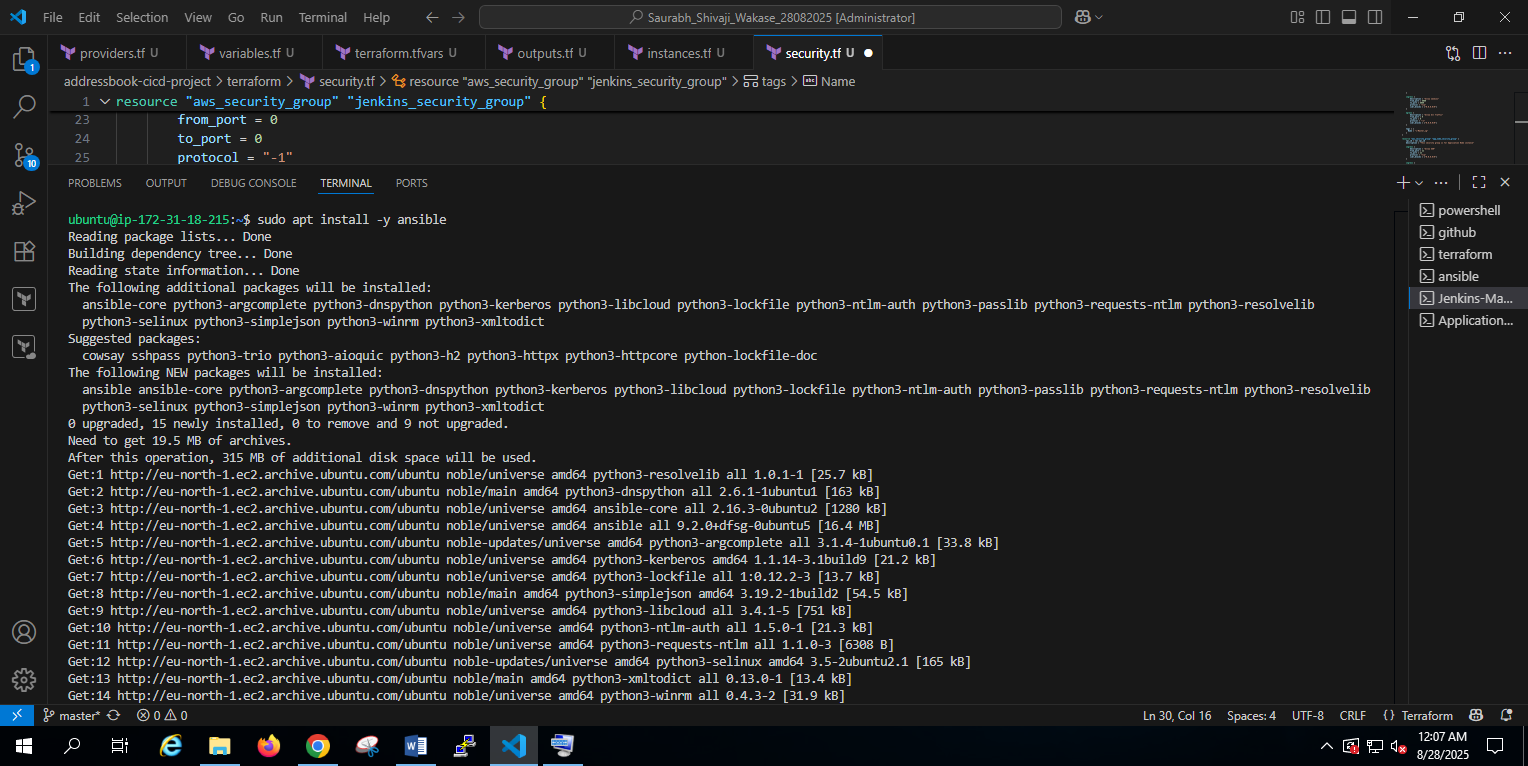
**Installing ansible.**jenkinsmaster ansible installation:

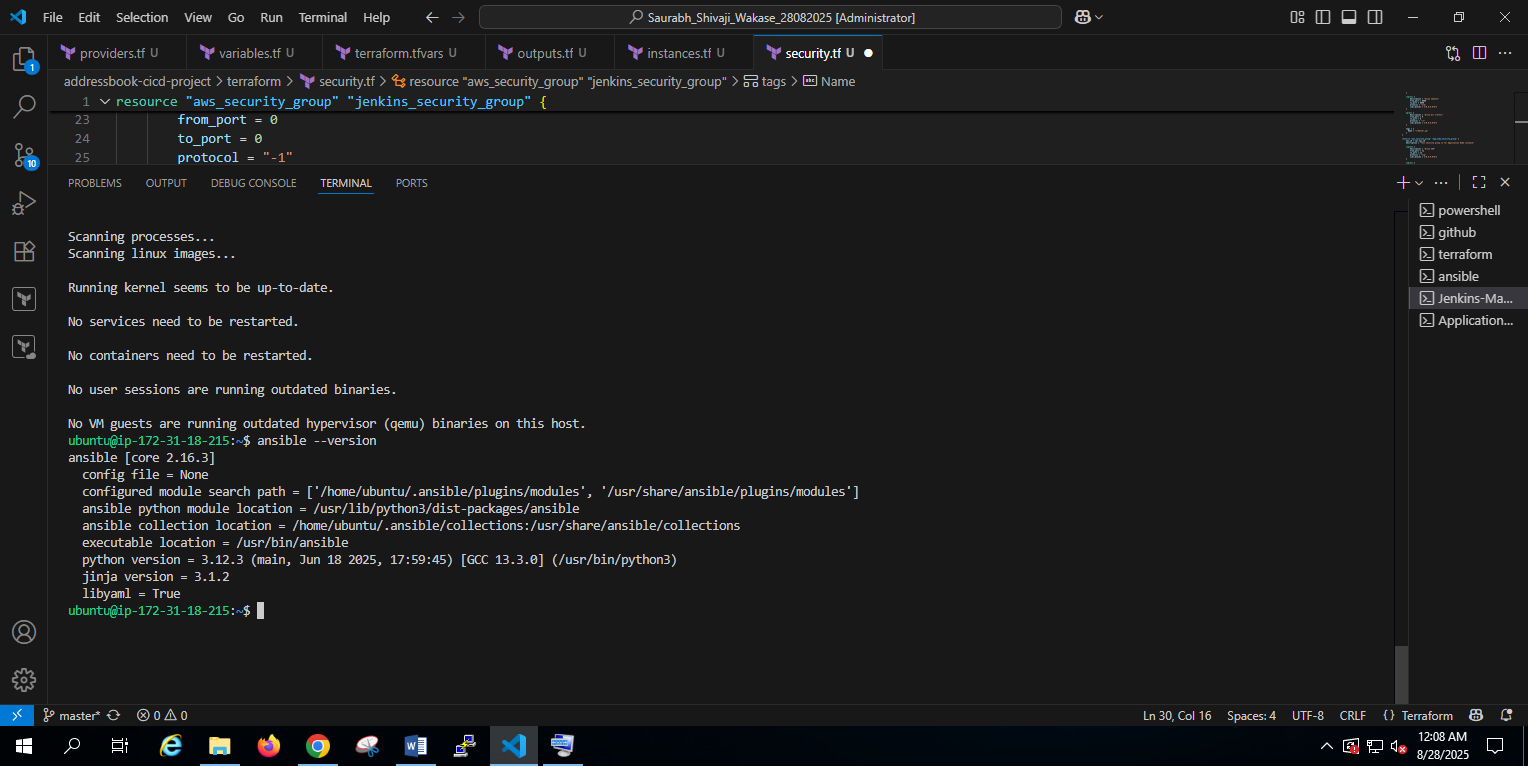


Secured the pem key.  
ssh into jenkins master.

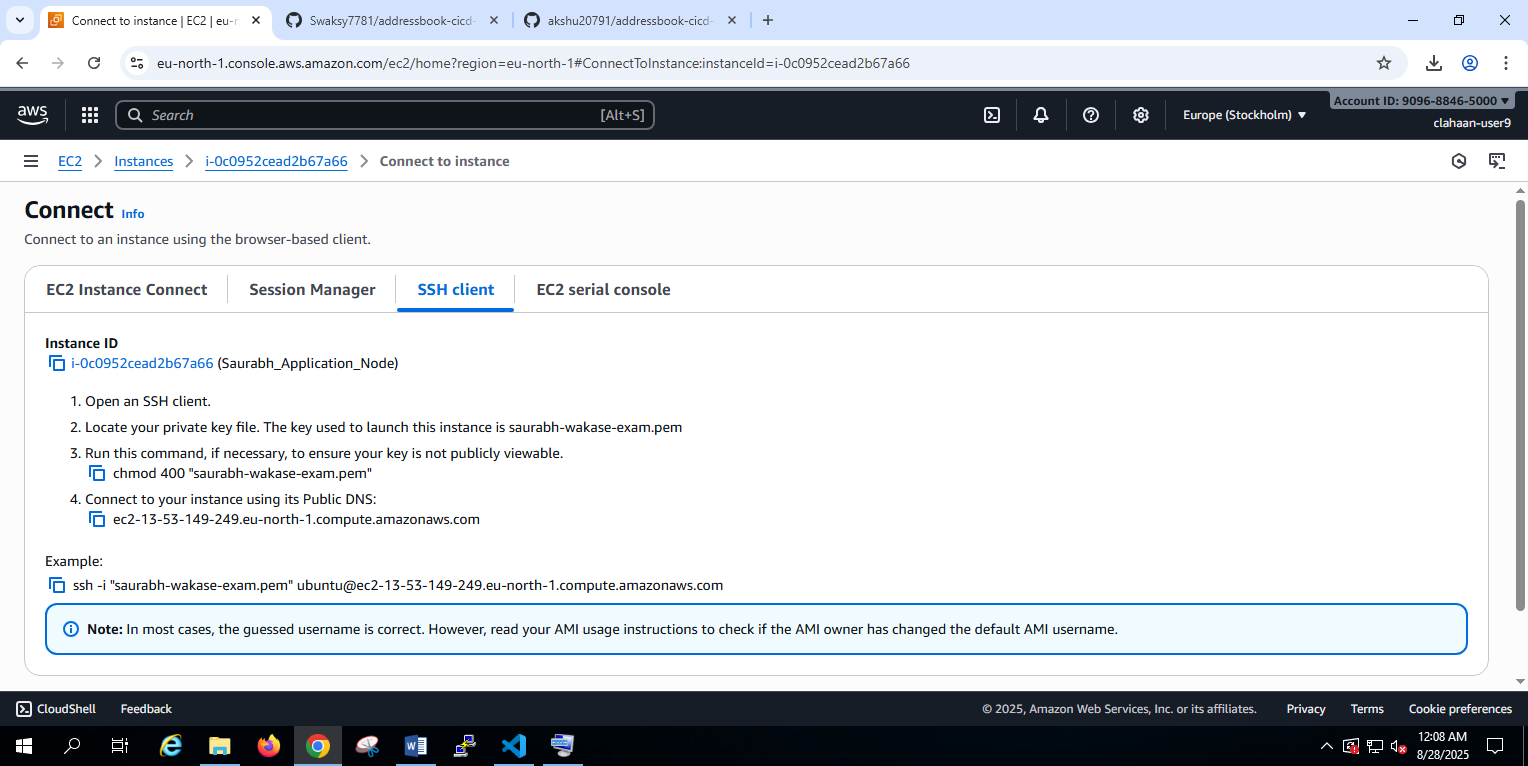
Installing ansible using commands

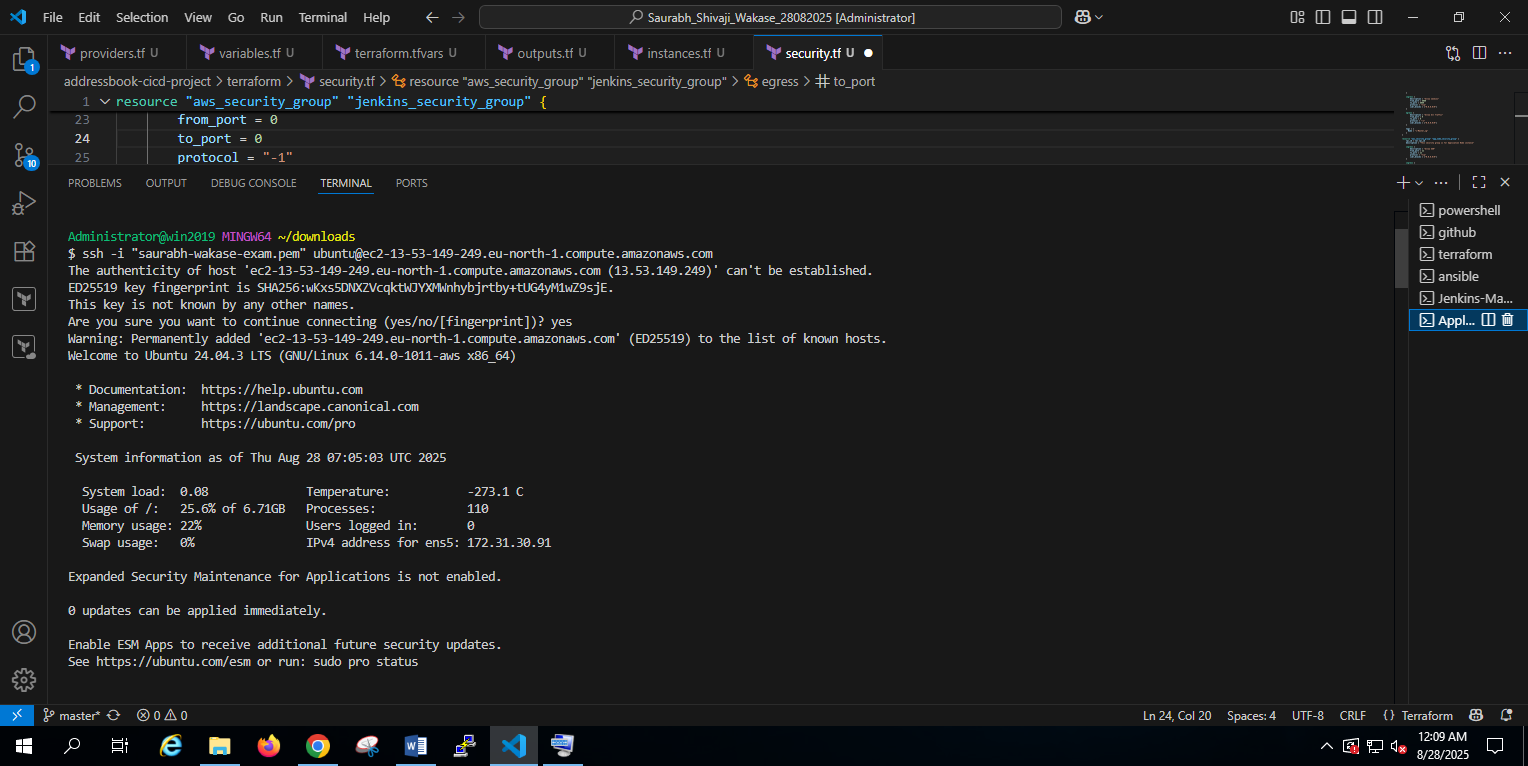


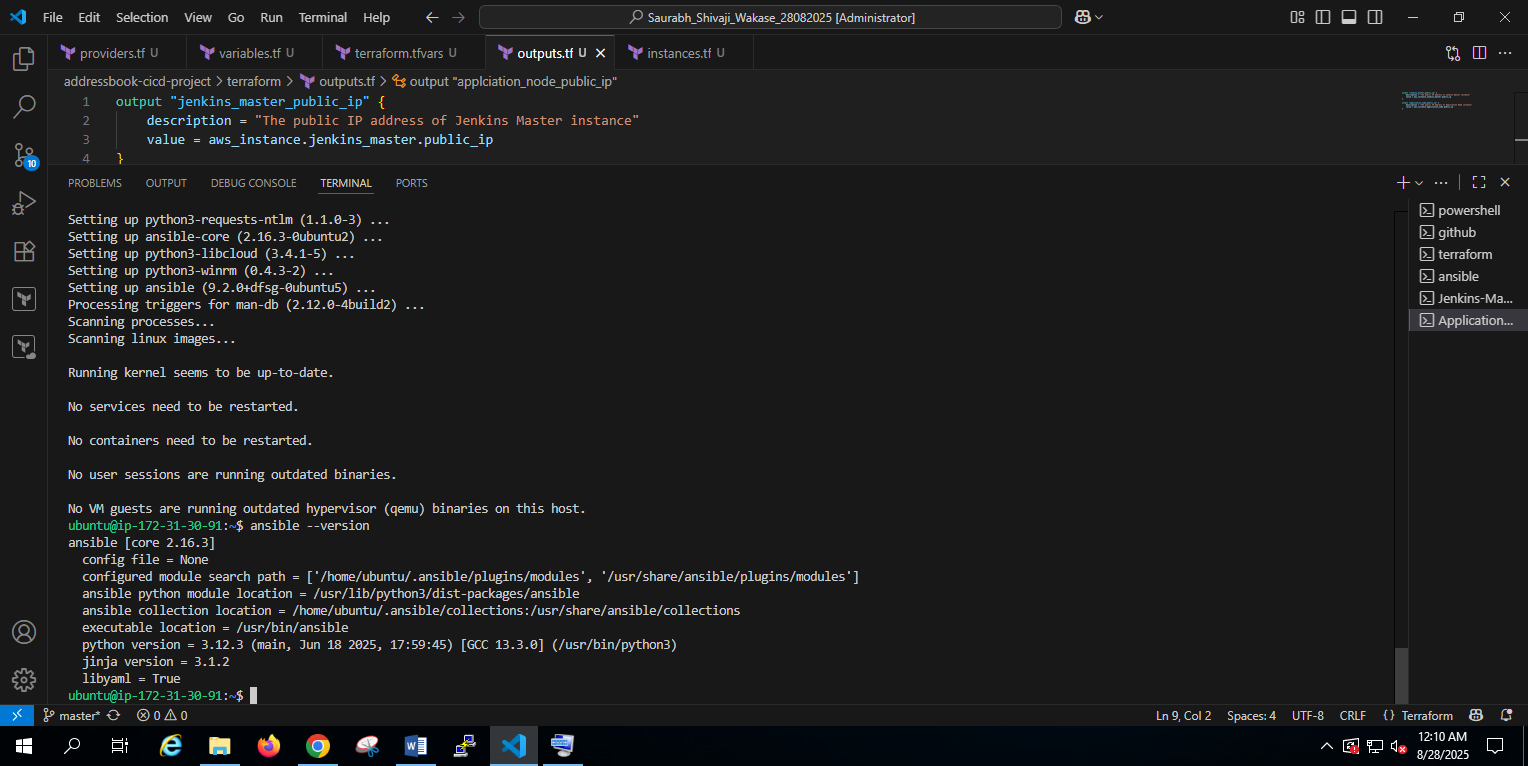
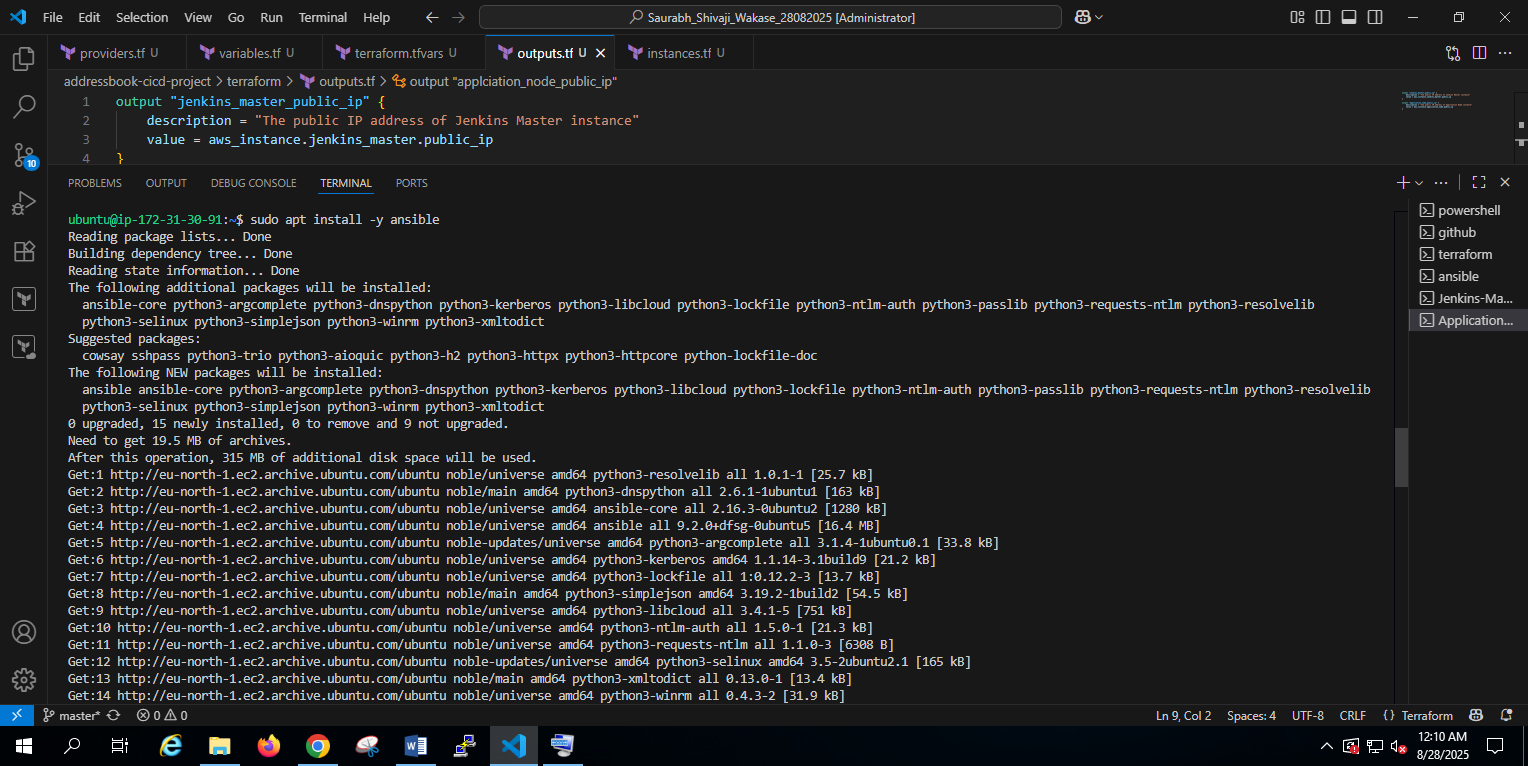
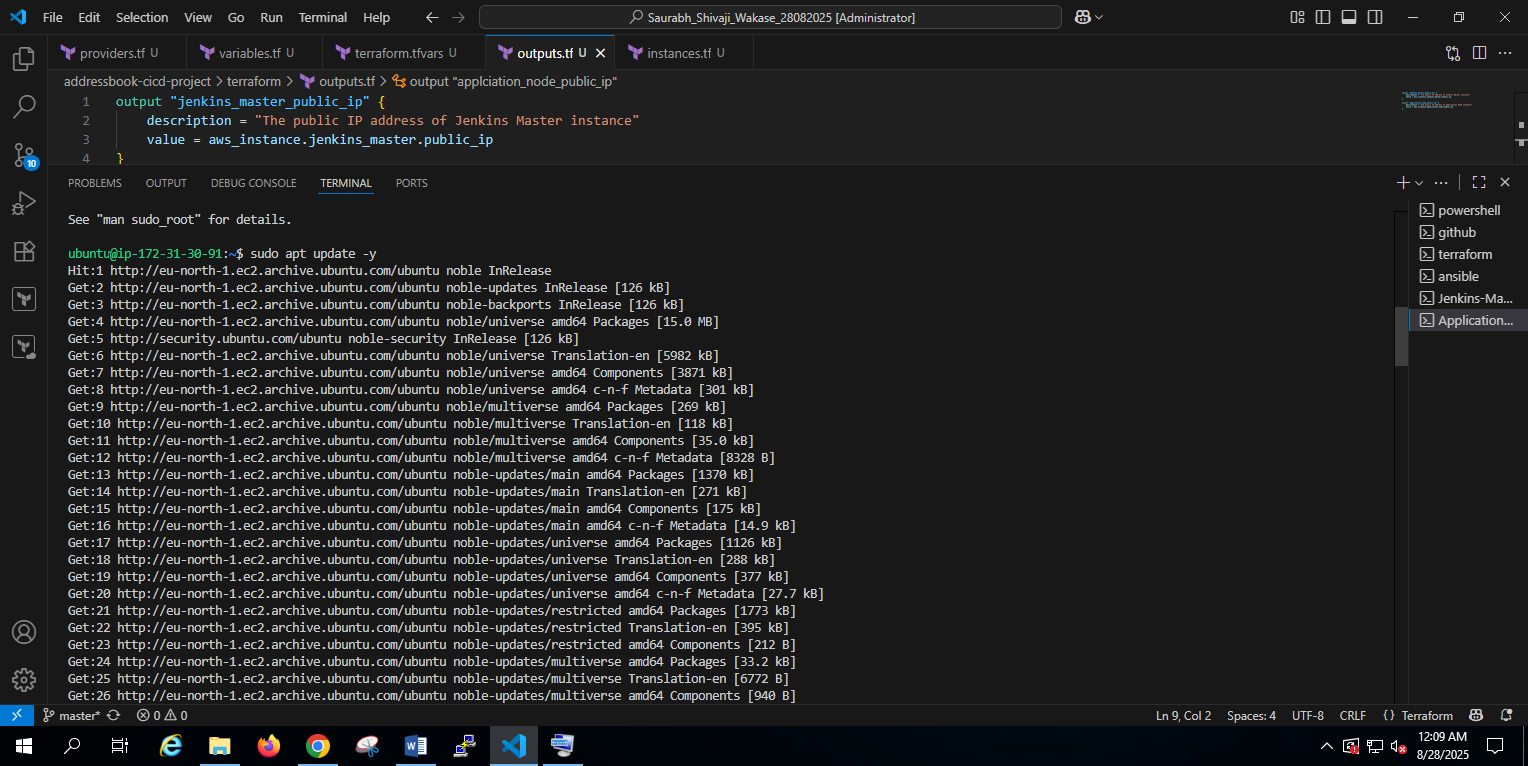




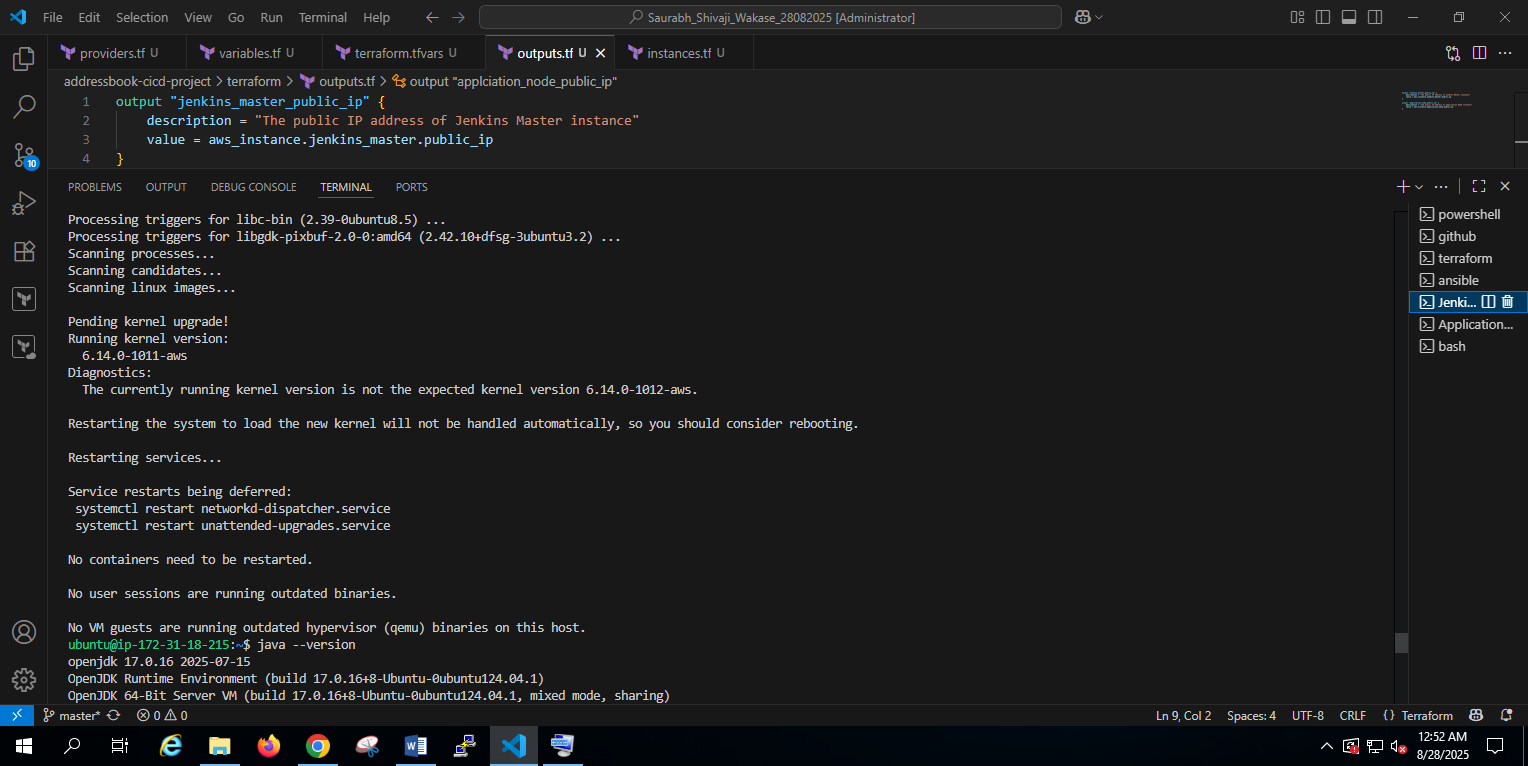
Successful ansible installation.

**Installing ansible into application node:**

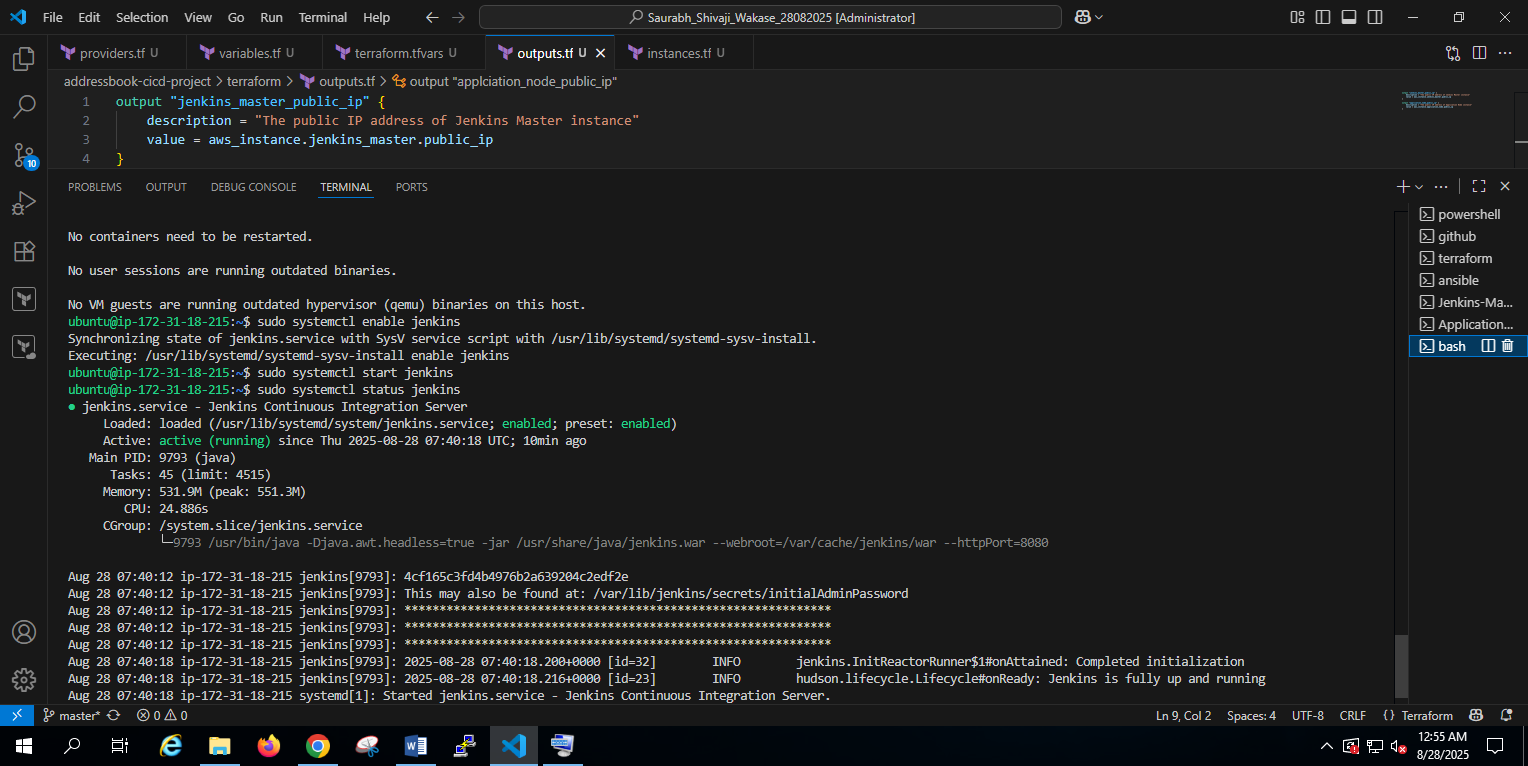
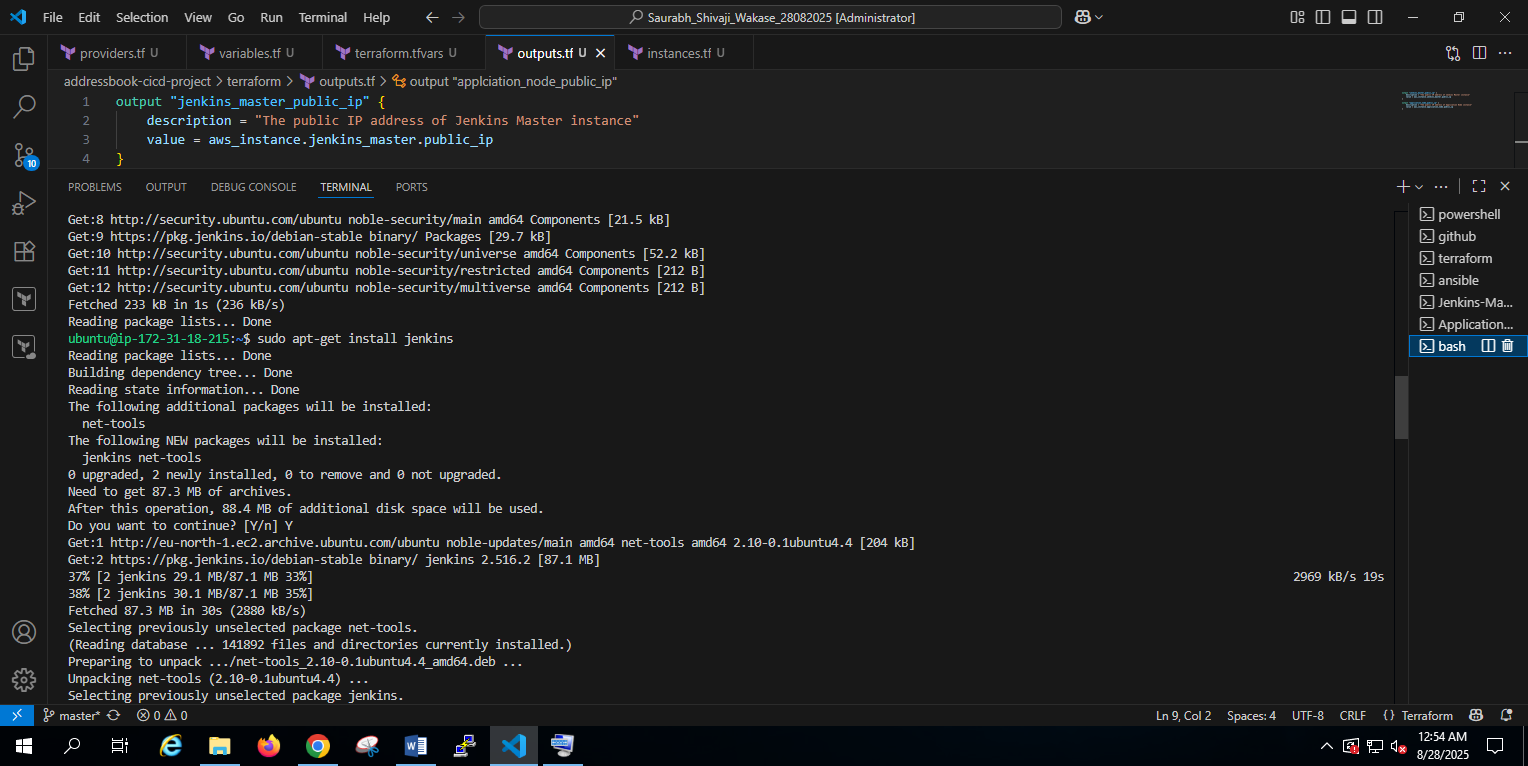
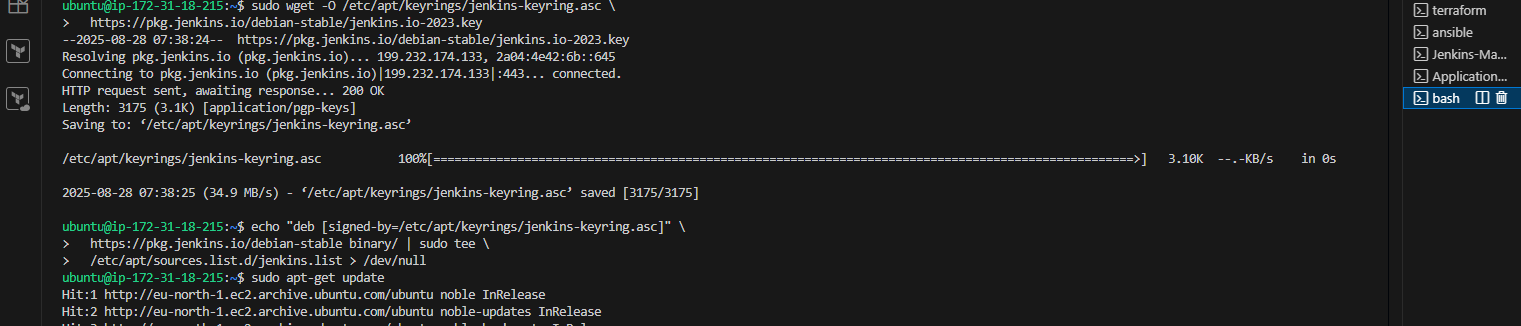




Successful installation of ansible on application node server.

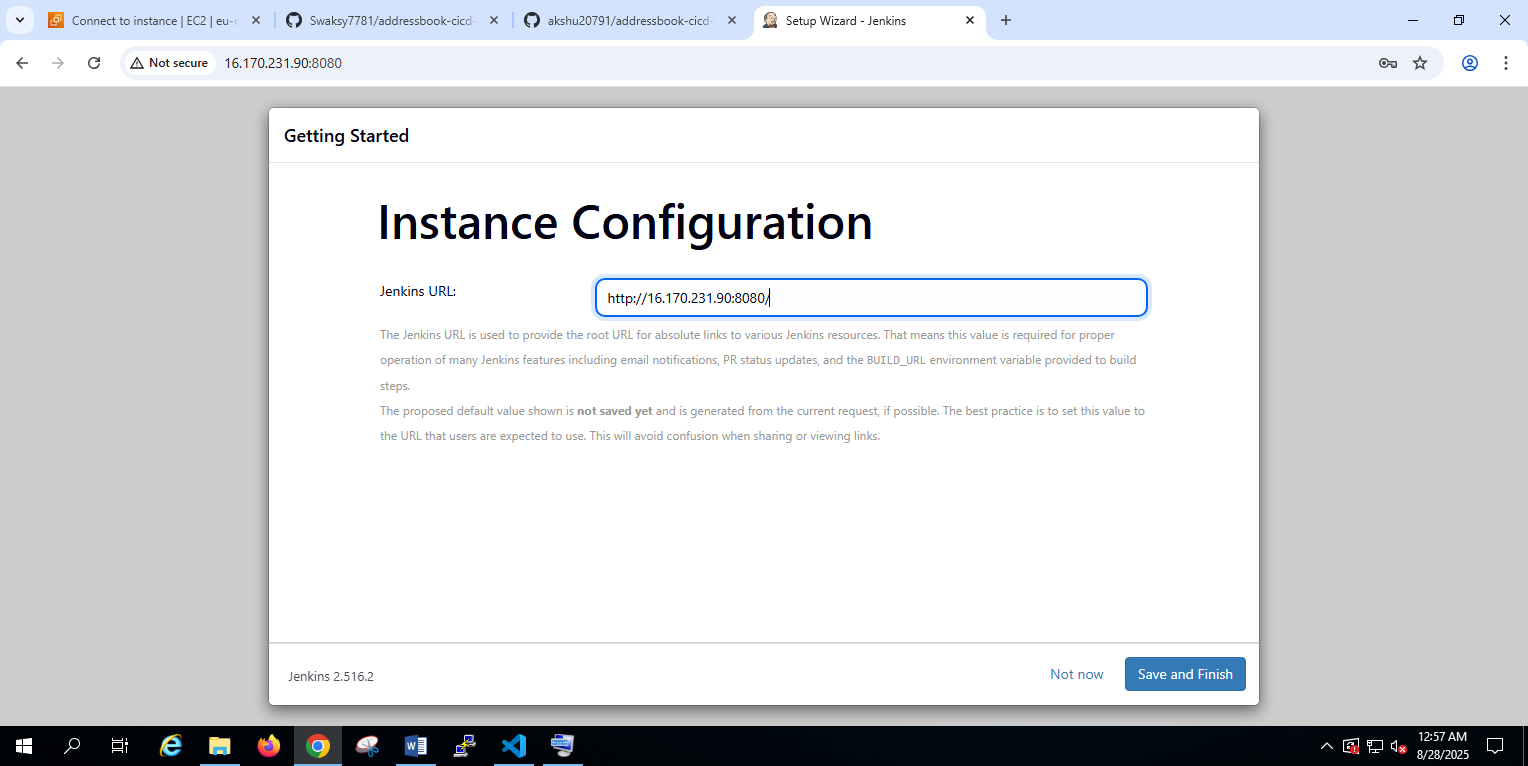
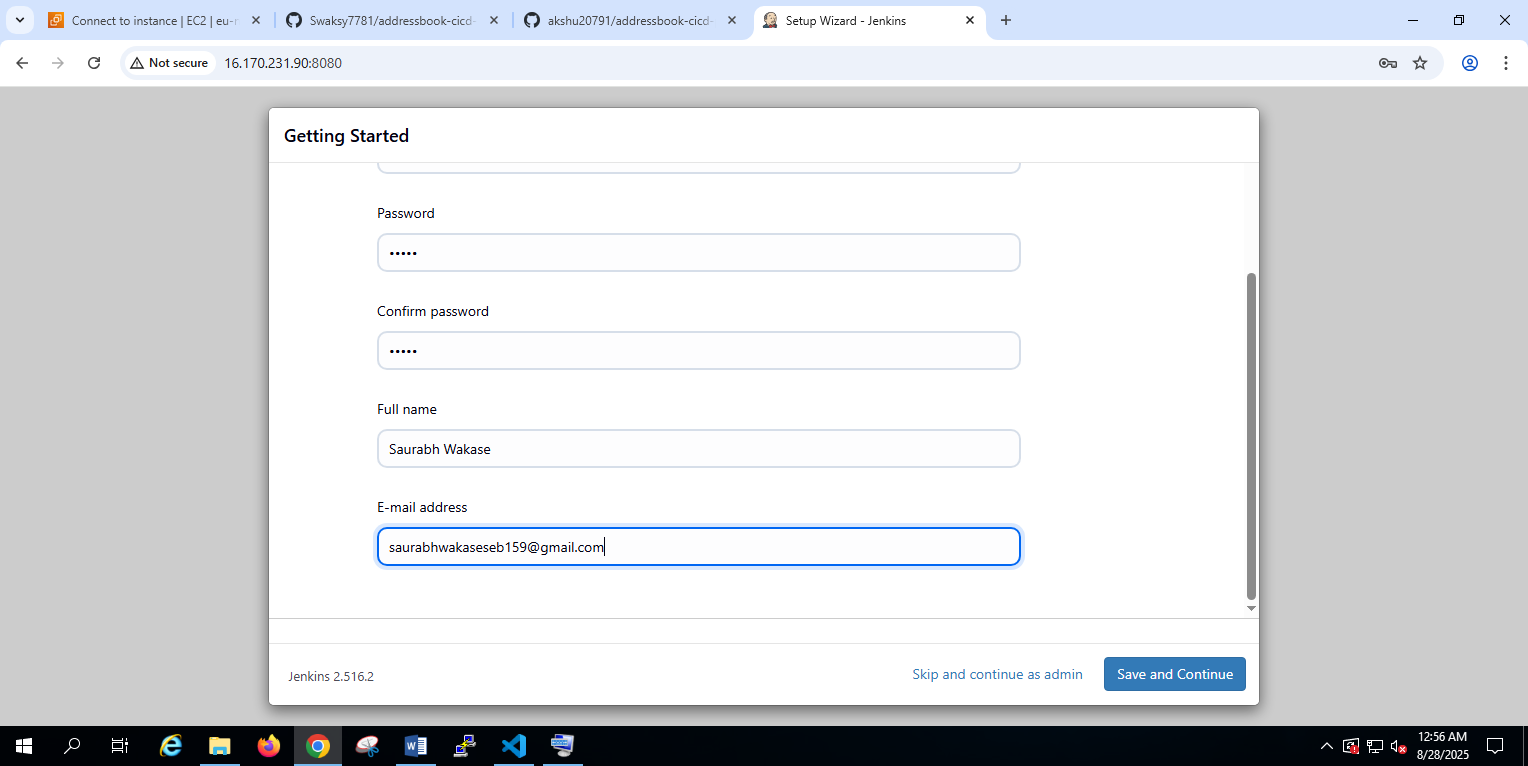
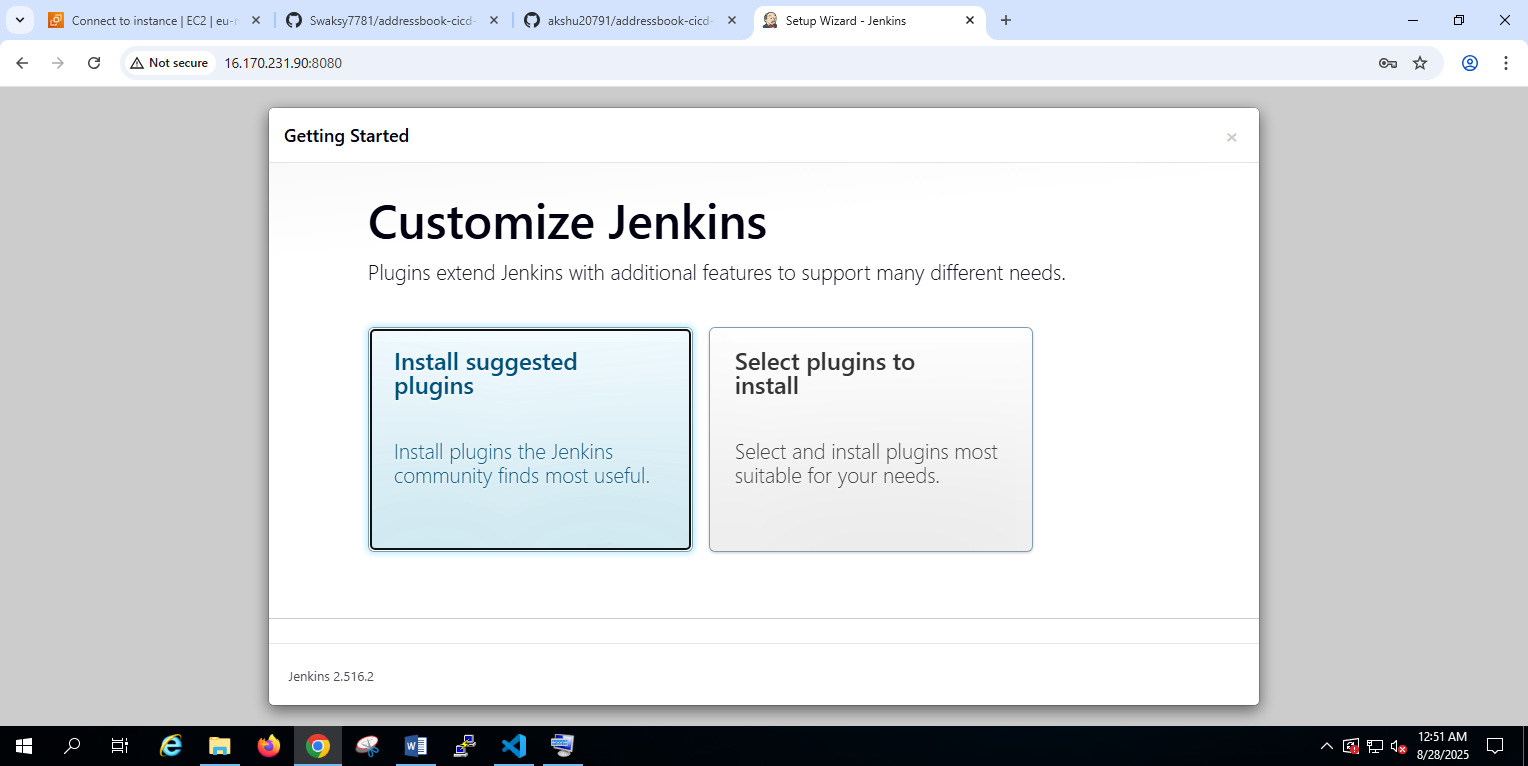
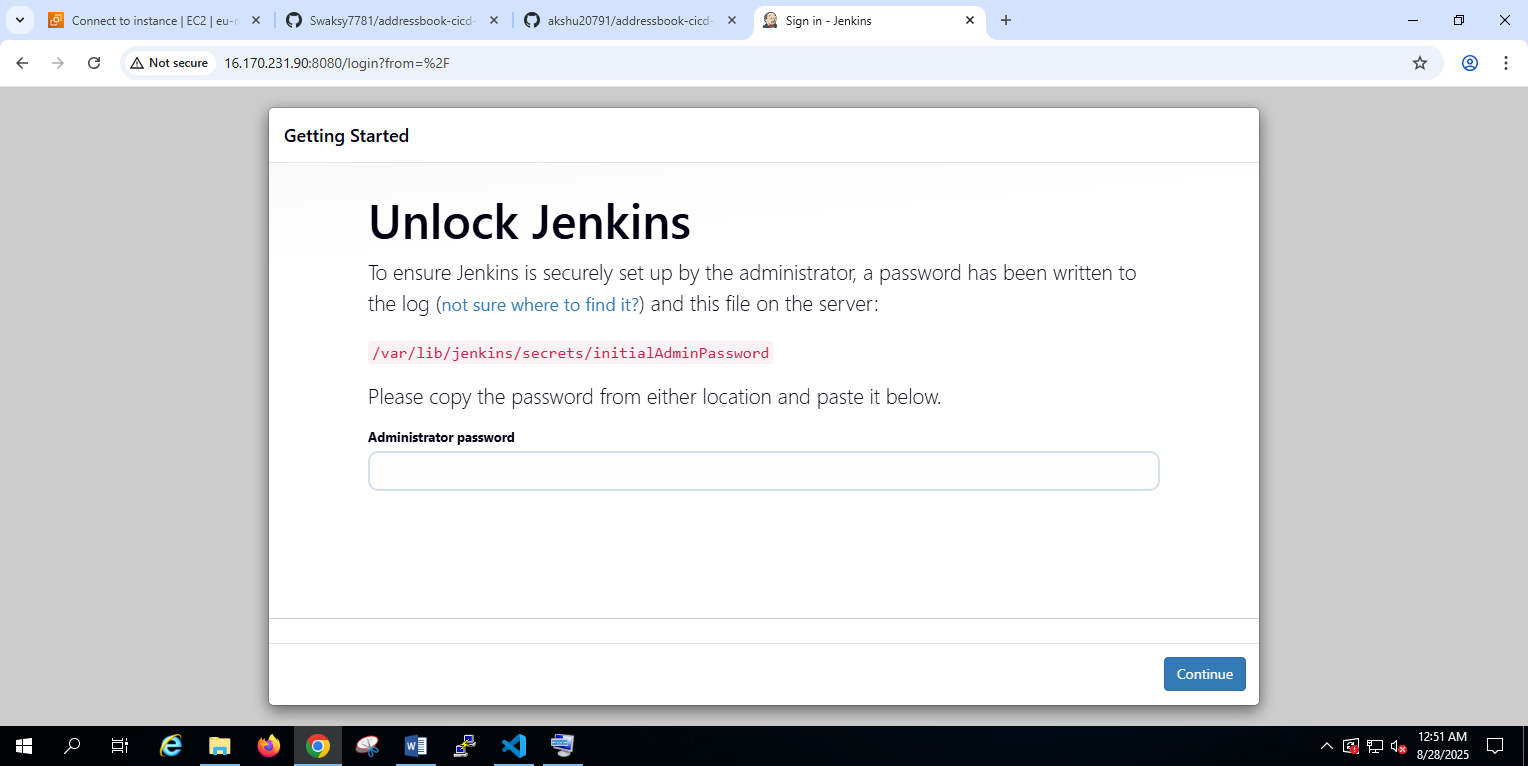
**Installing Jenkins on Jenkins Master**:

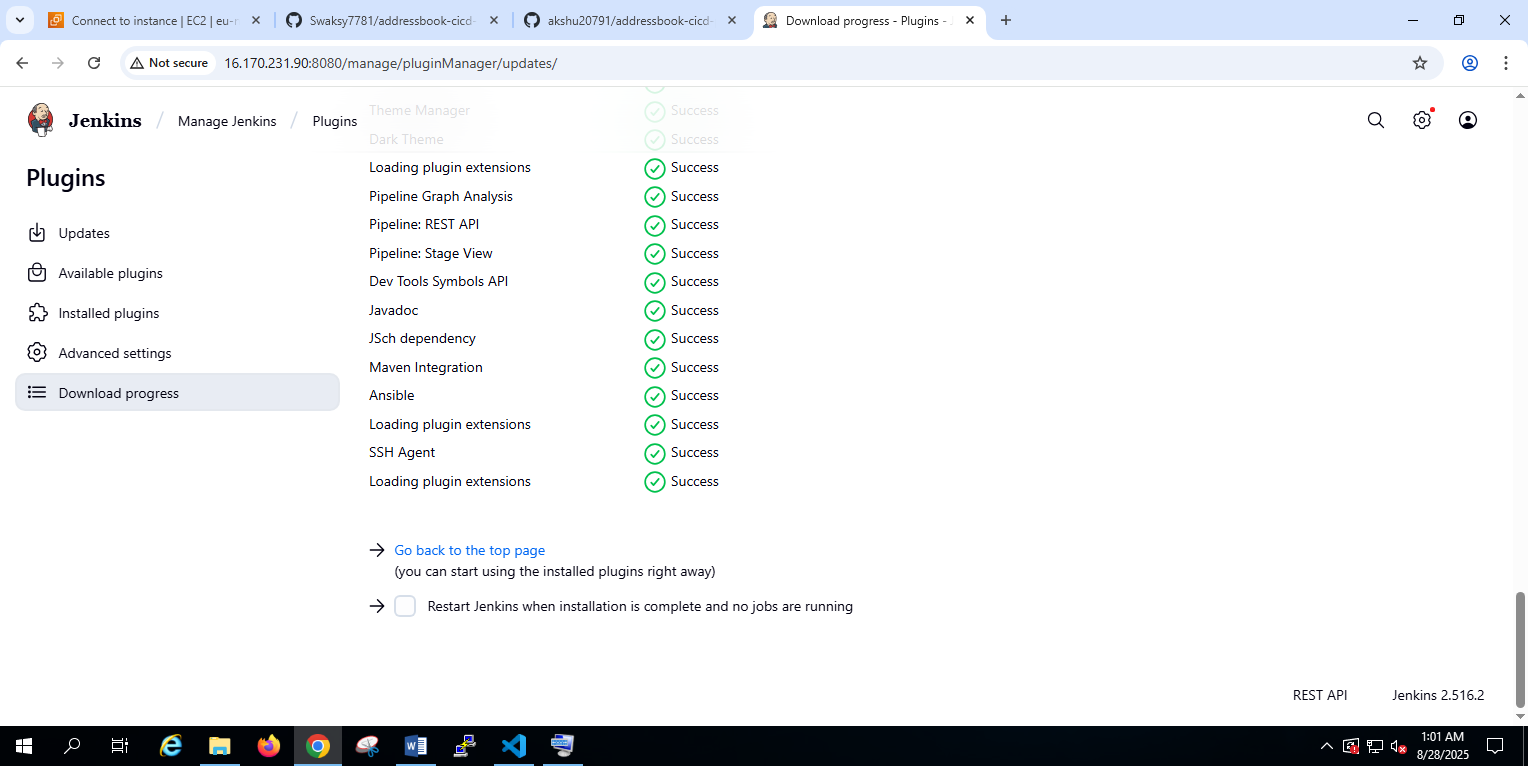
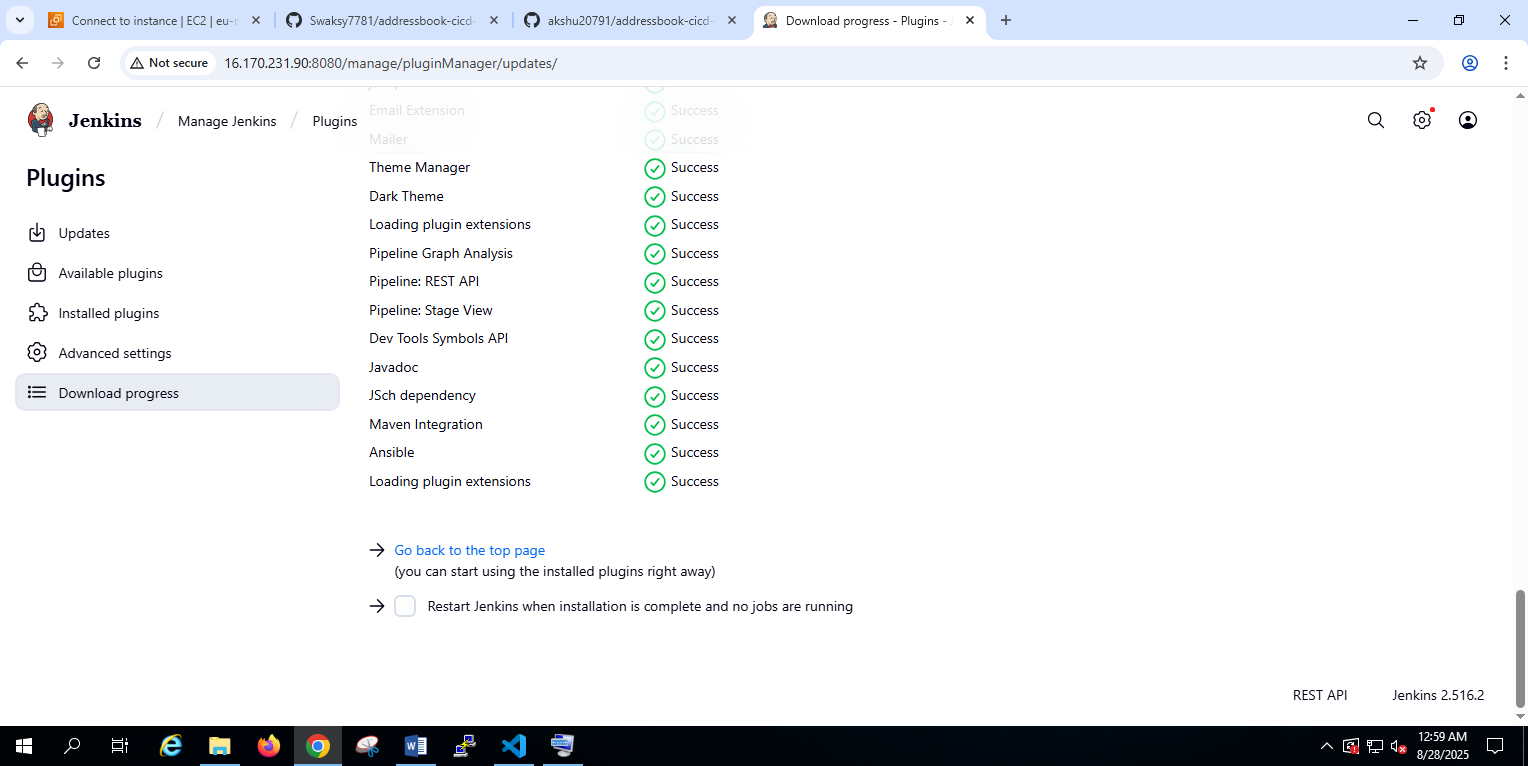
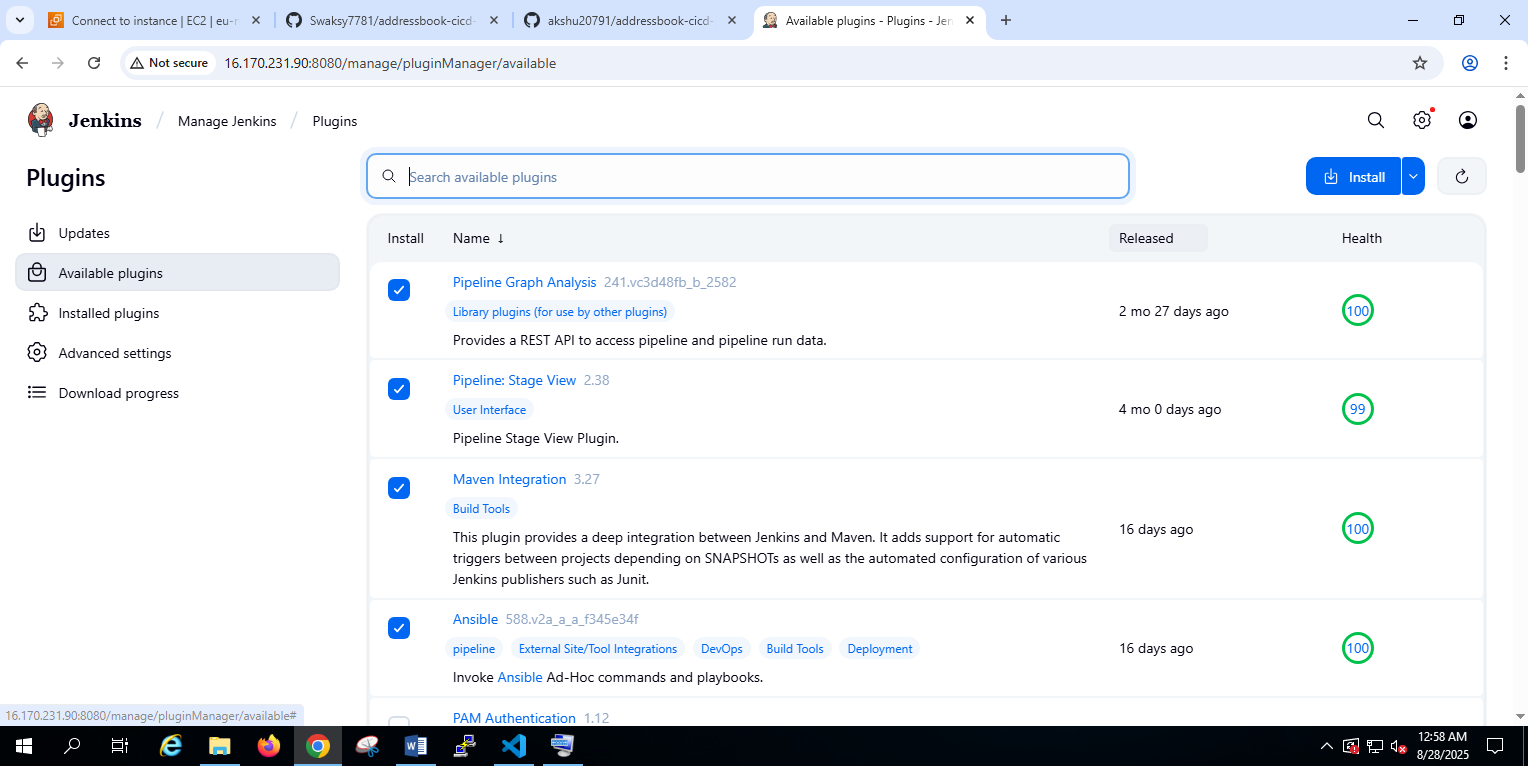
Java installation before jenkins.

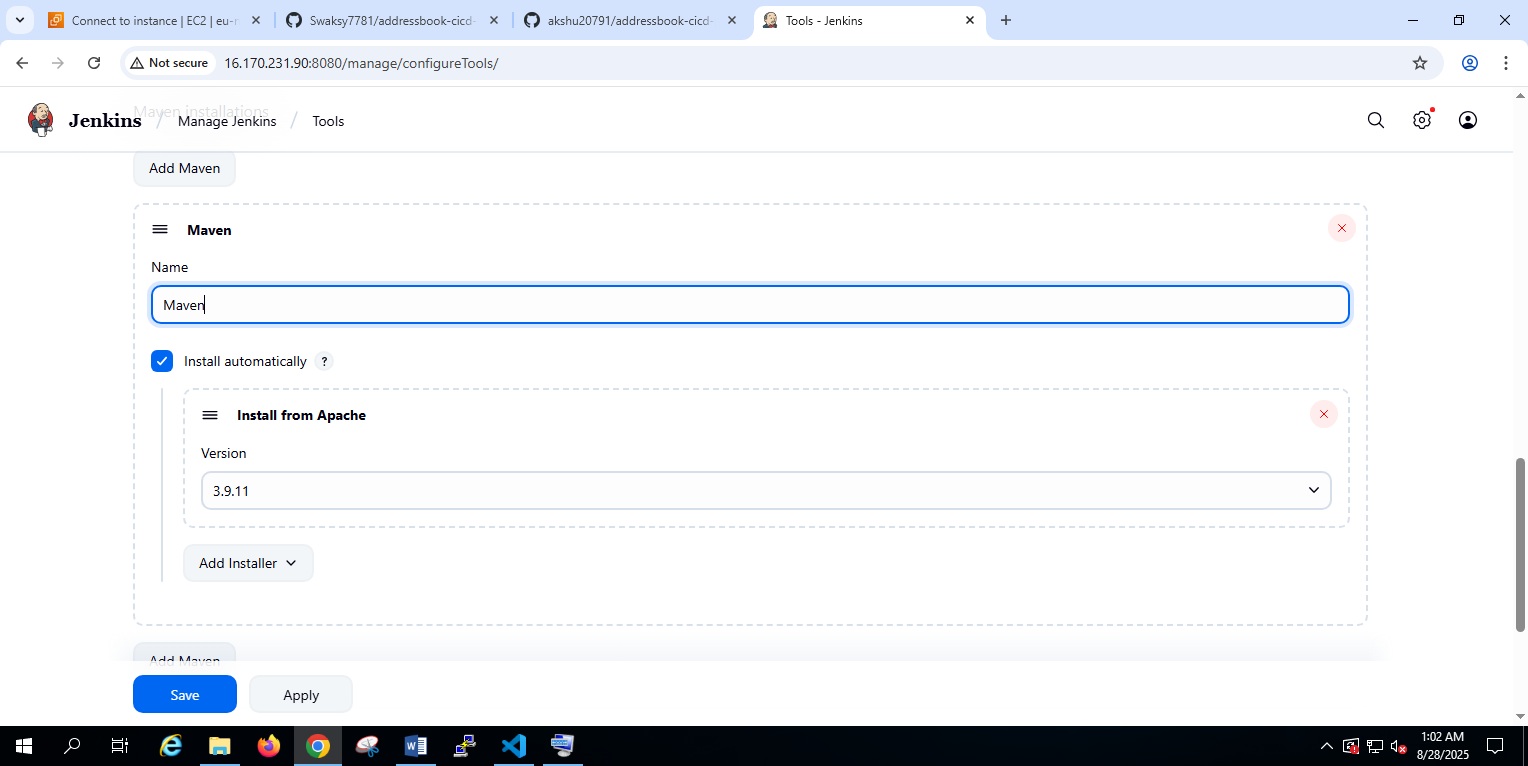


Install successful.

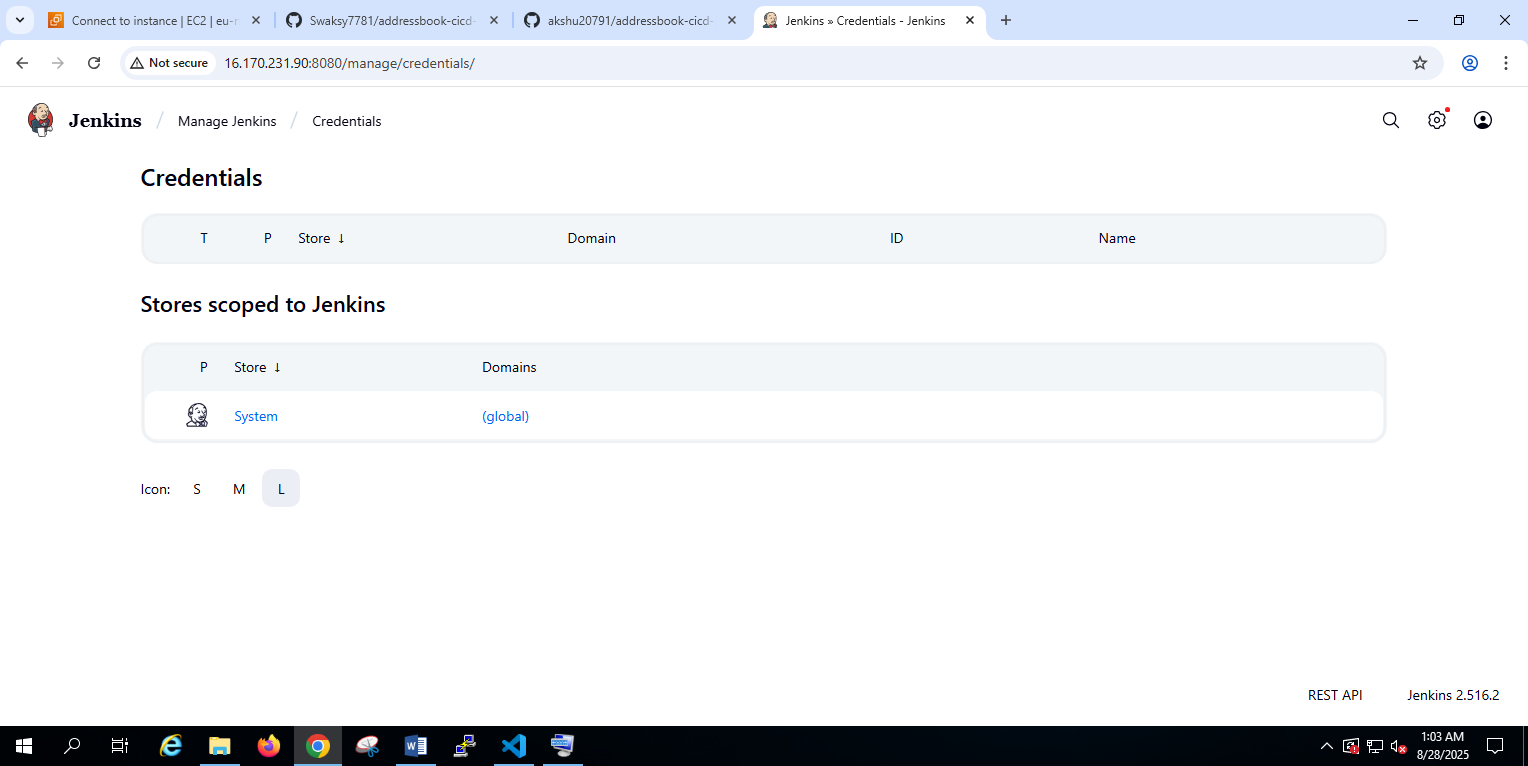
setting up jenkins

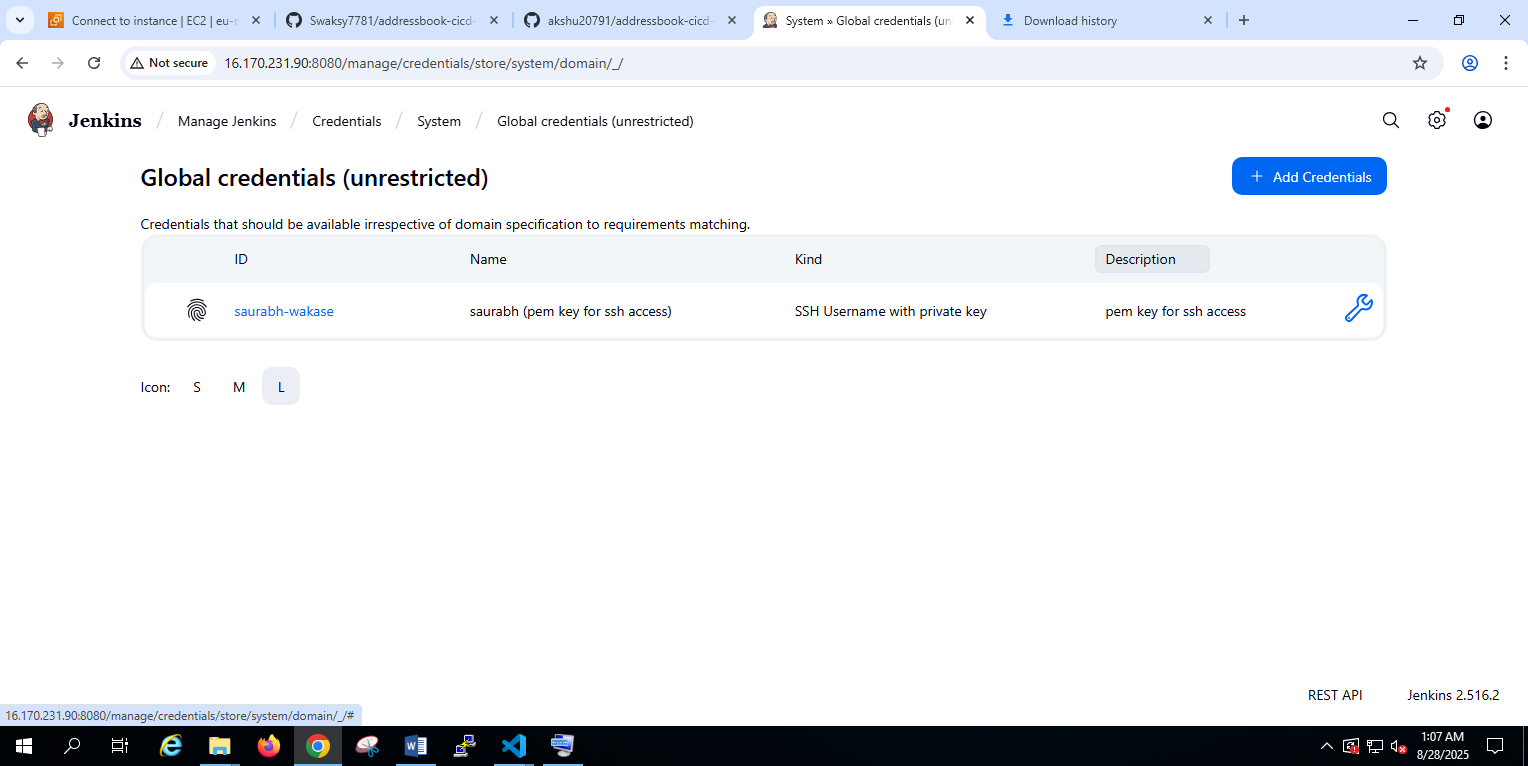
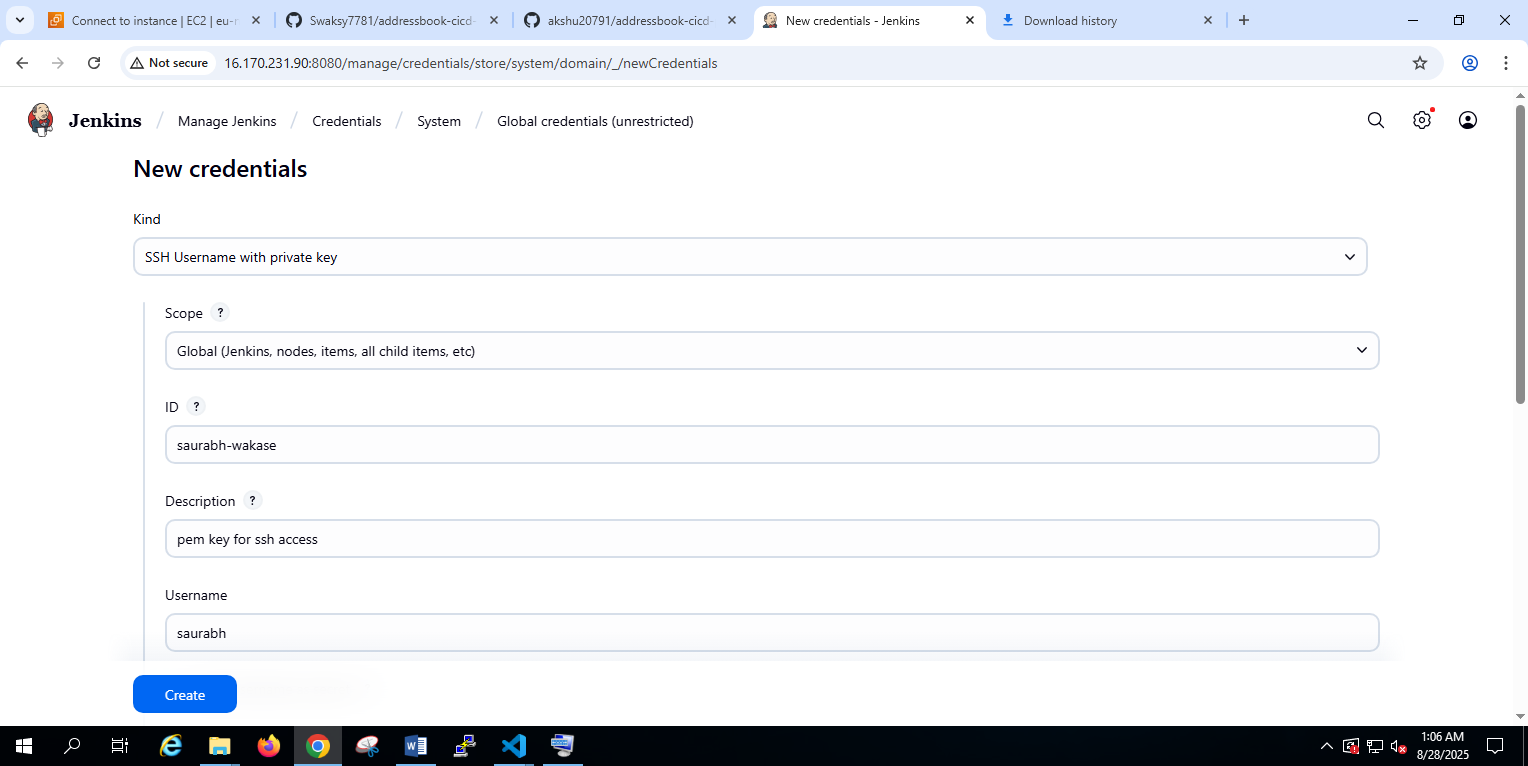


Installing necessary plugins

Adding Maven tool

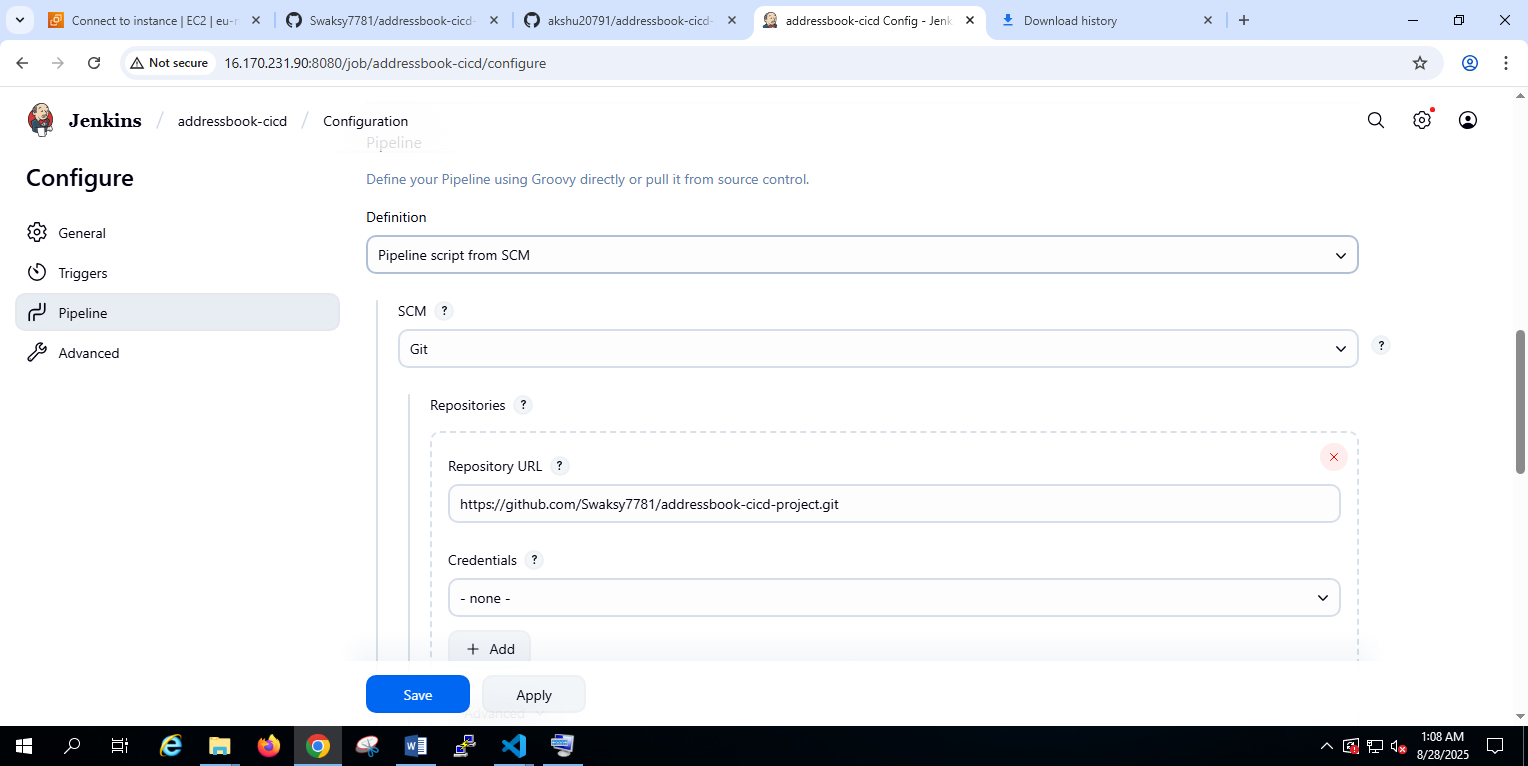
Adding ssh pem key into credentials for secure login into application node.



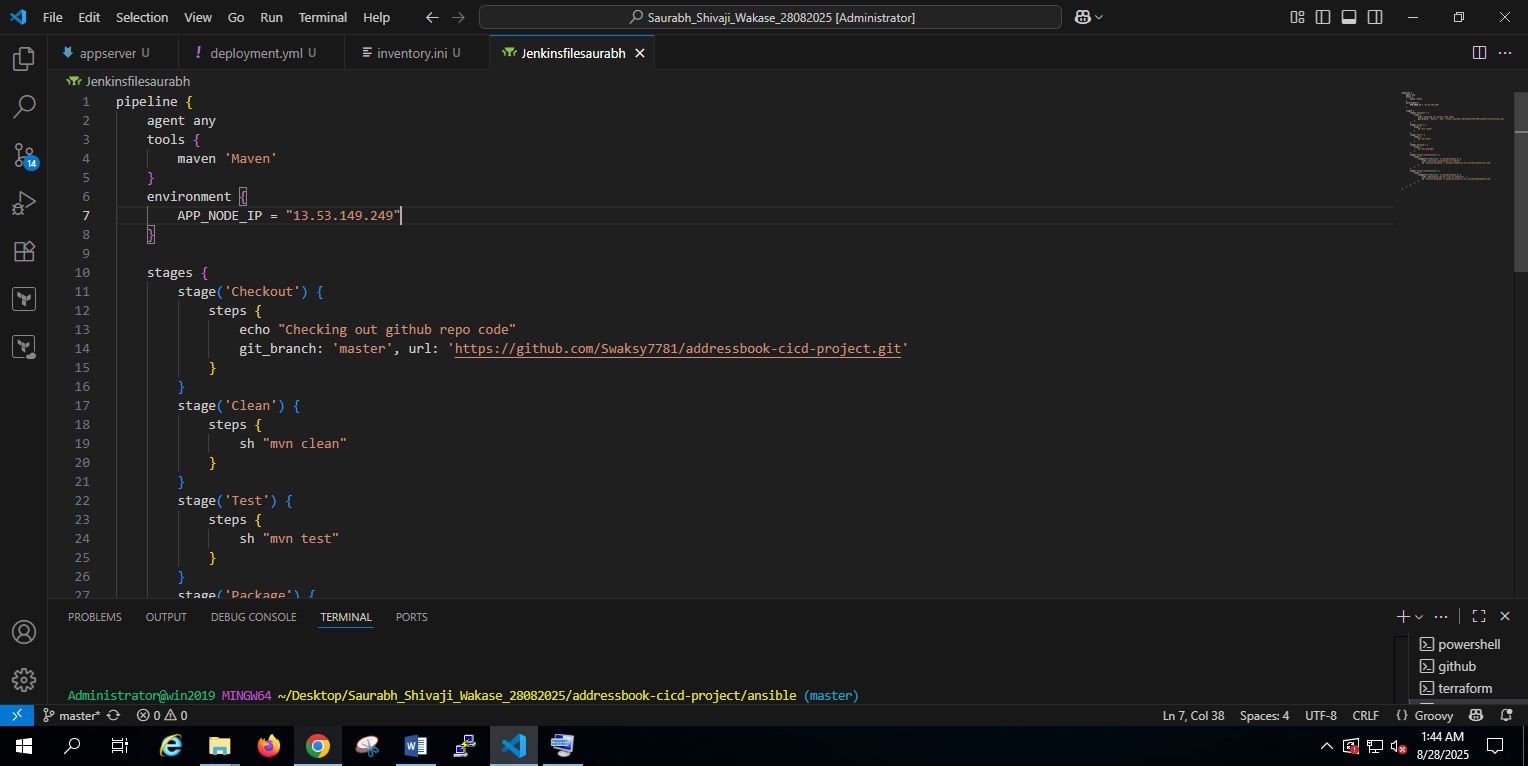


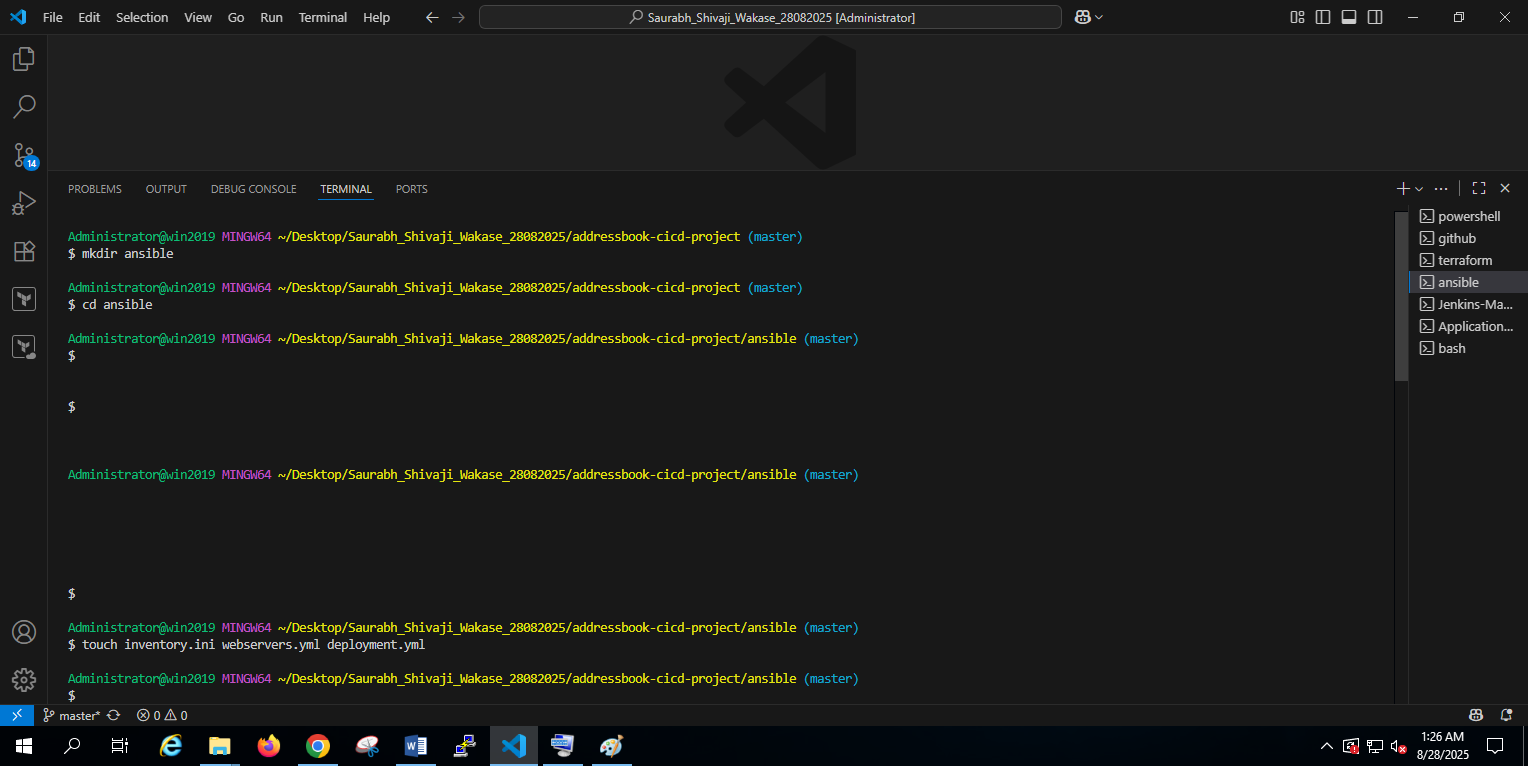
Jenkins basic setup done.

**Job setup:**

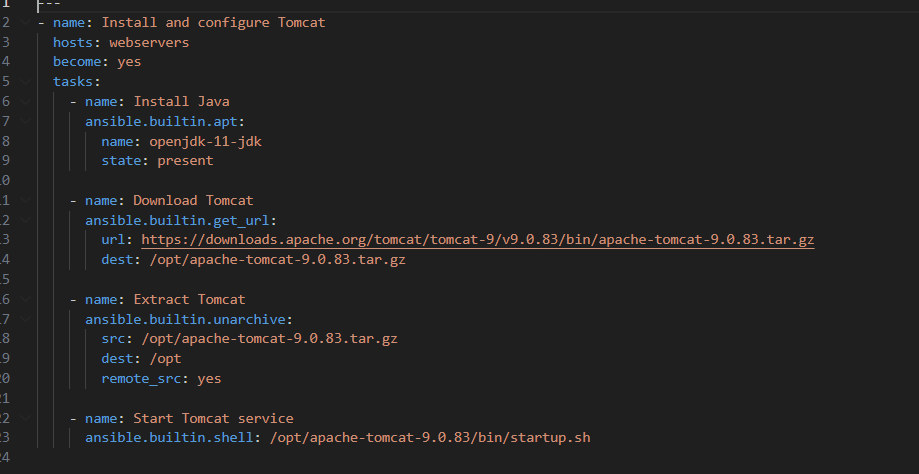
****

Created basic job setup.

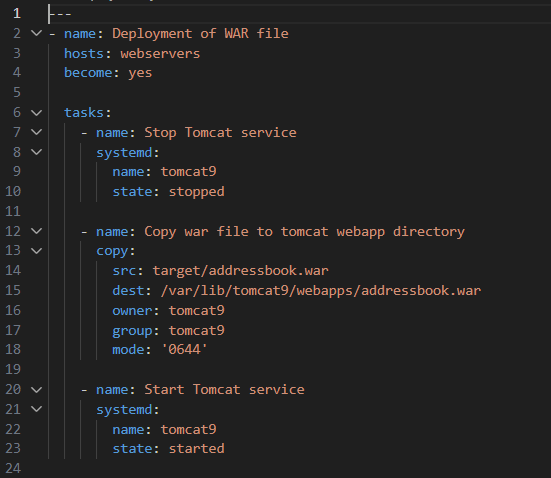
**Jenkins pipeline**

**Creating ansible files**

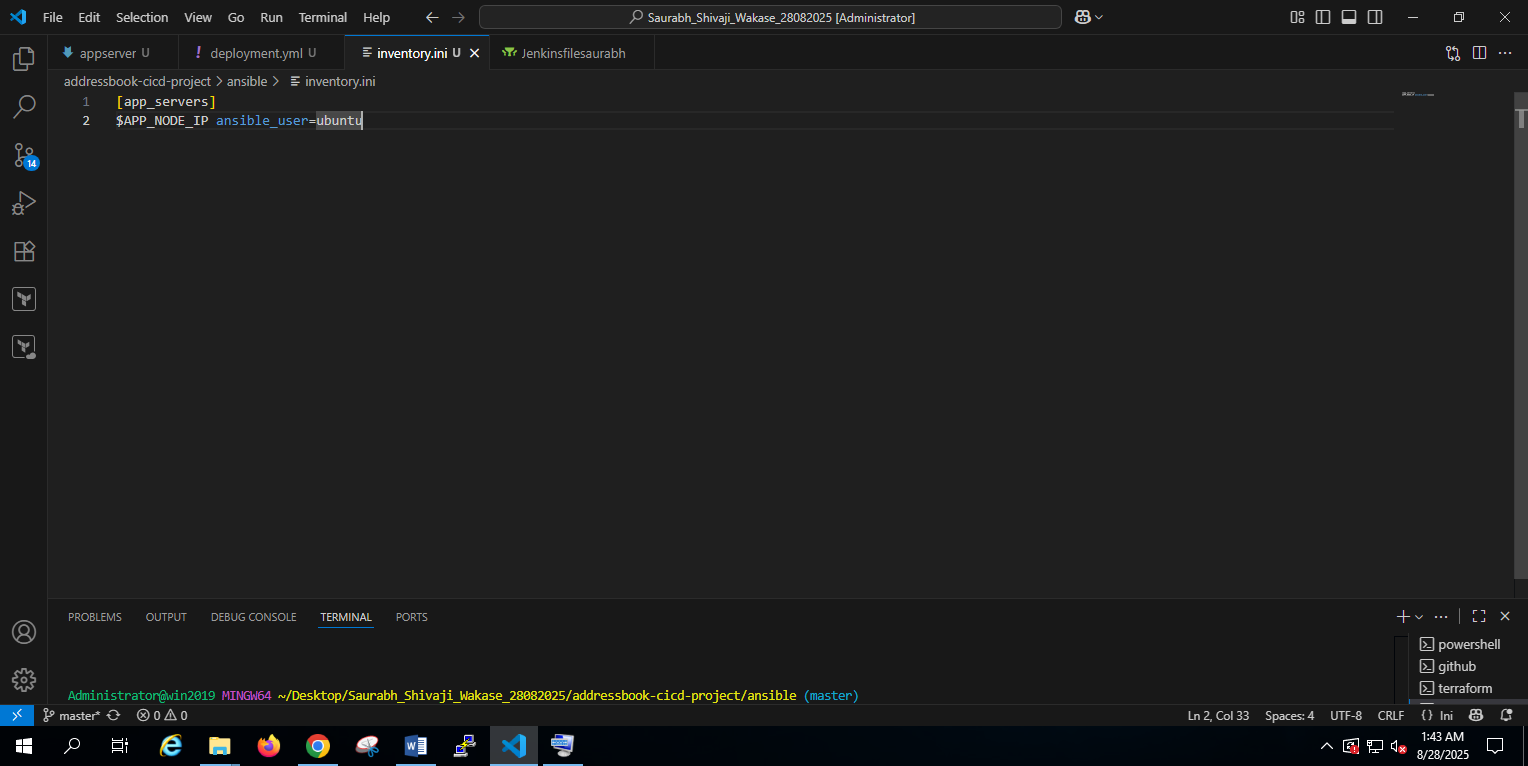
Created inventory.ini, appservers.yml and deployment.yml



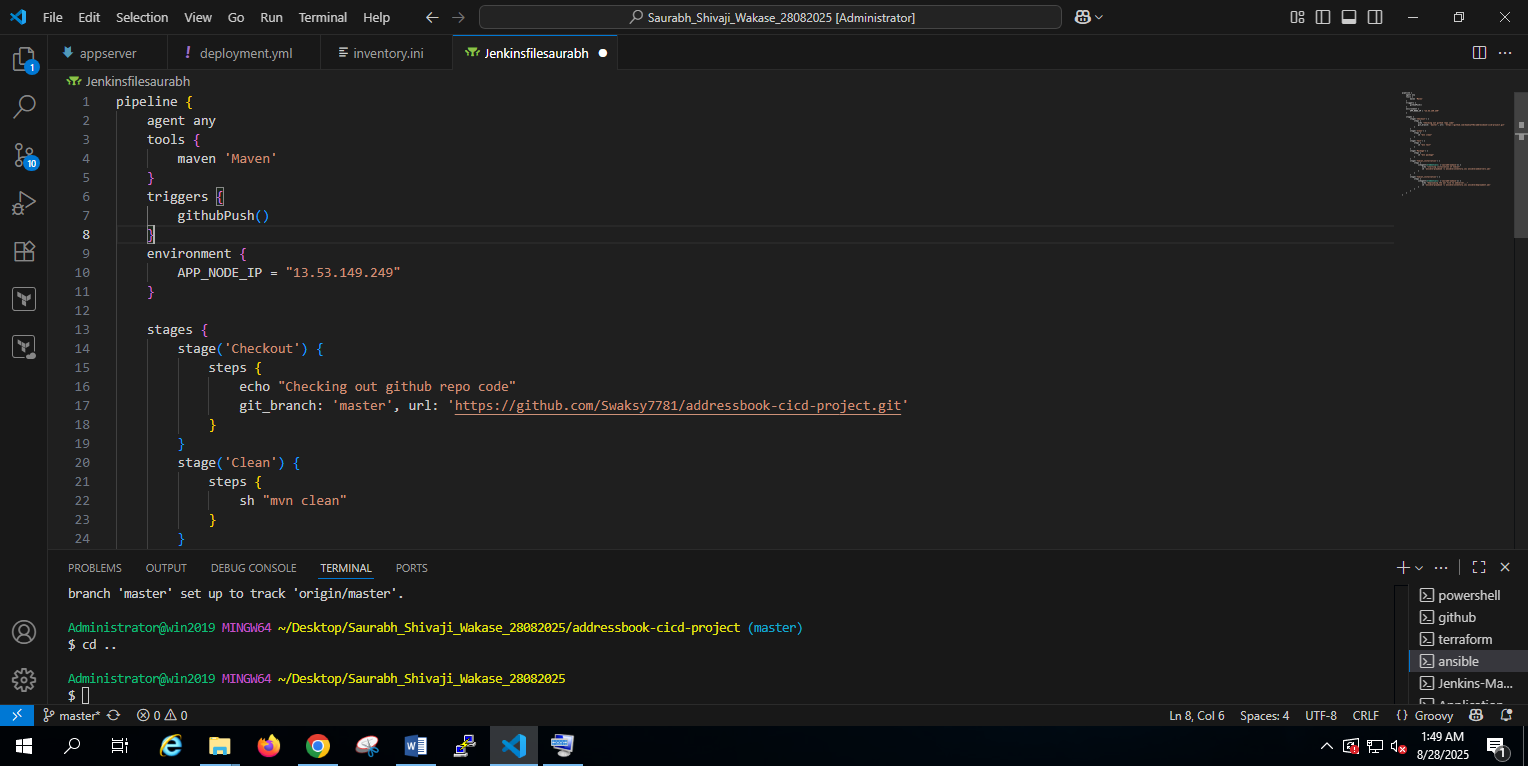
Appserver file to install java and tomcat, because java is must for tomcat.



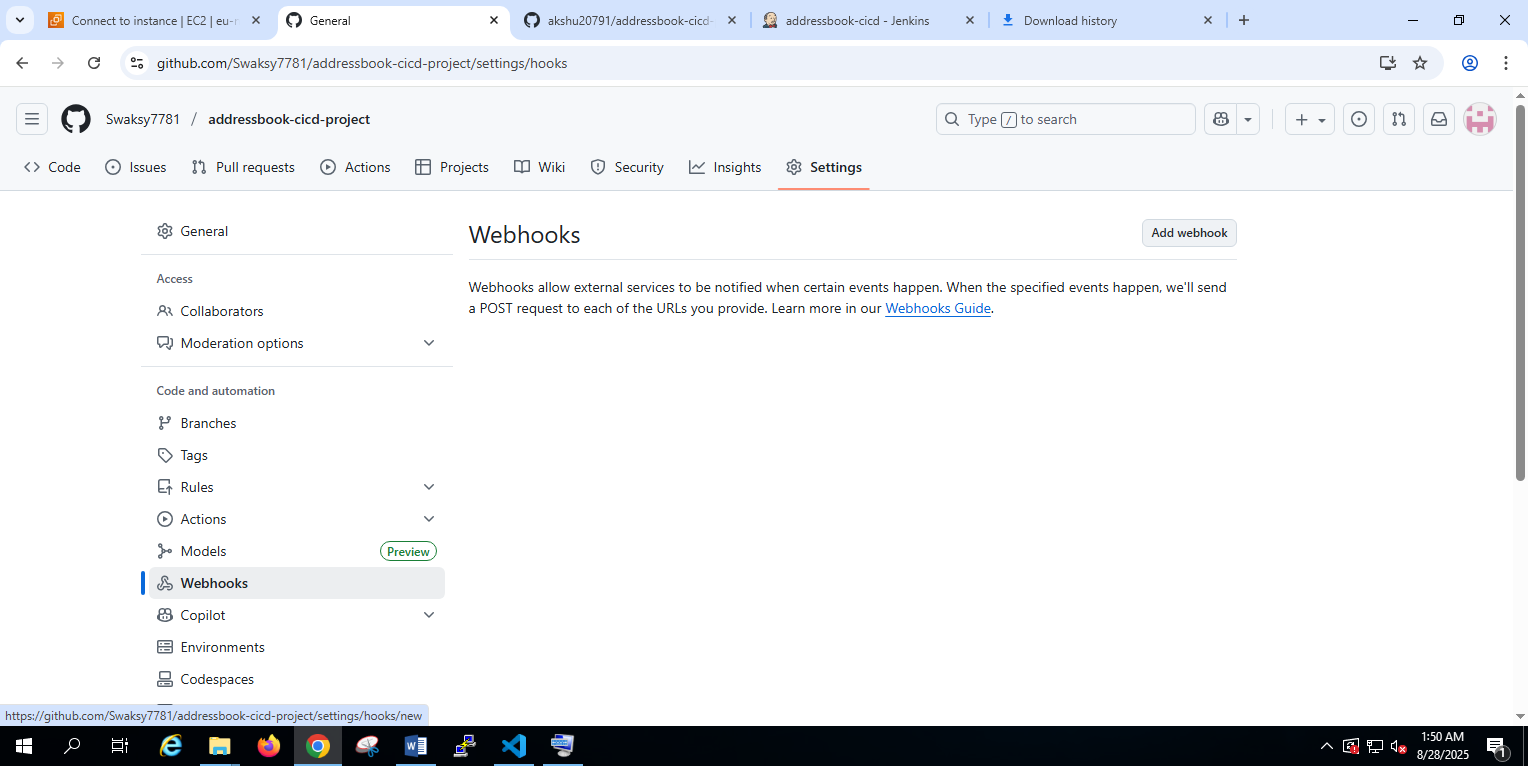
Deployment.ml file for deploying the project.



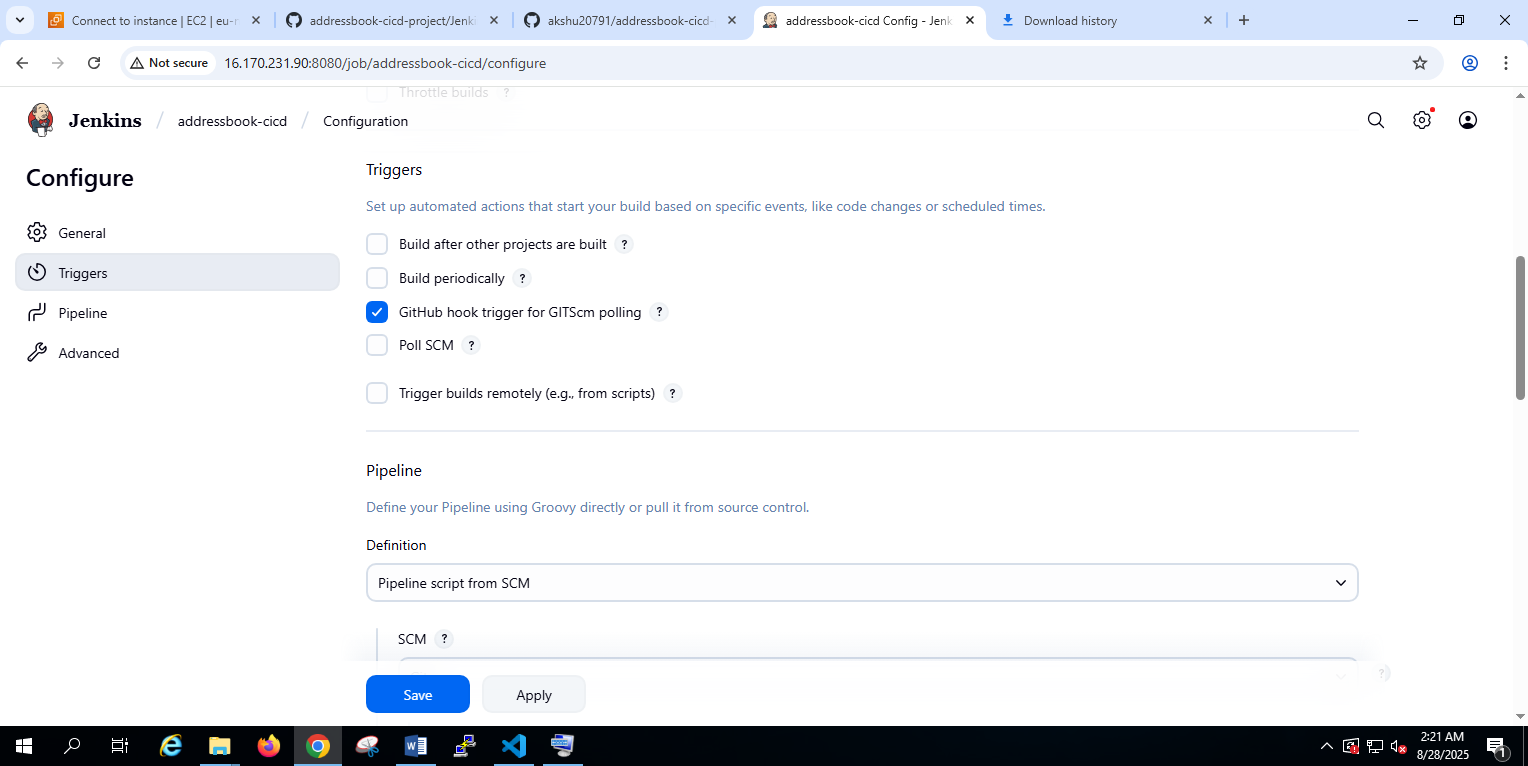
Inventory.ini file .

added trigger to jenkinsfile:

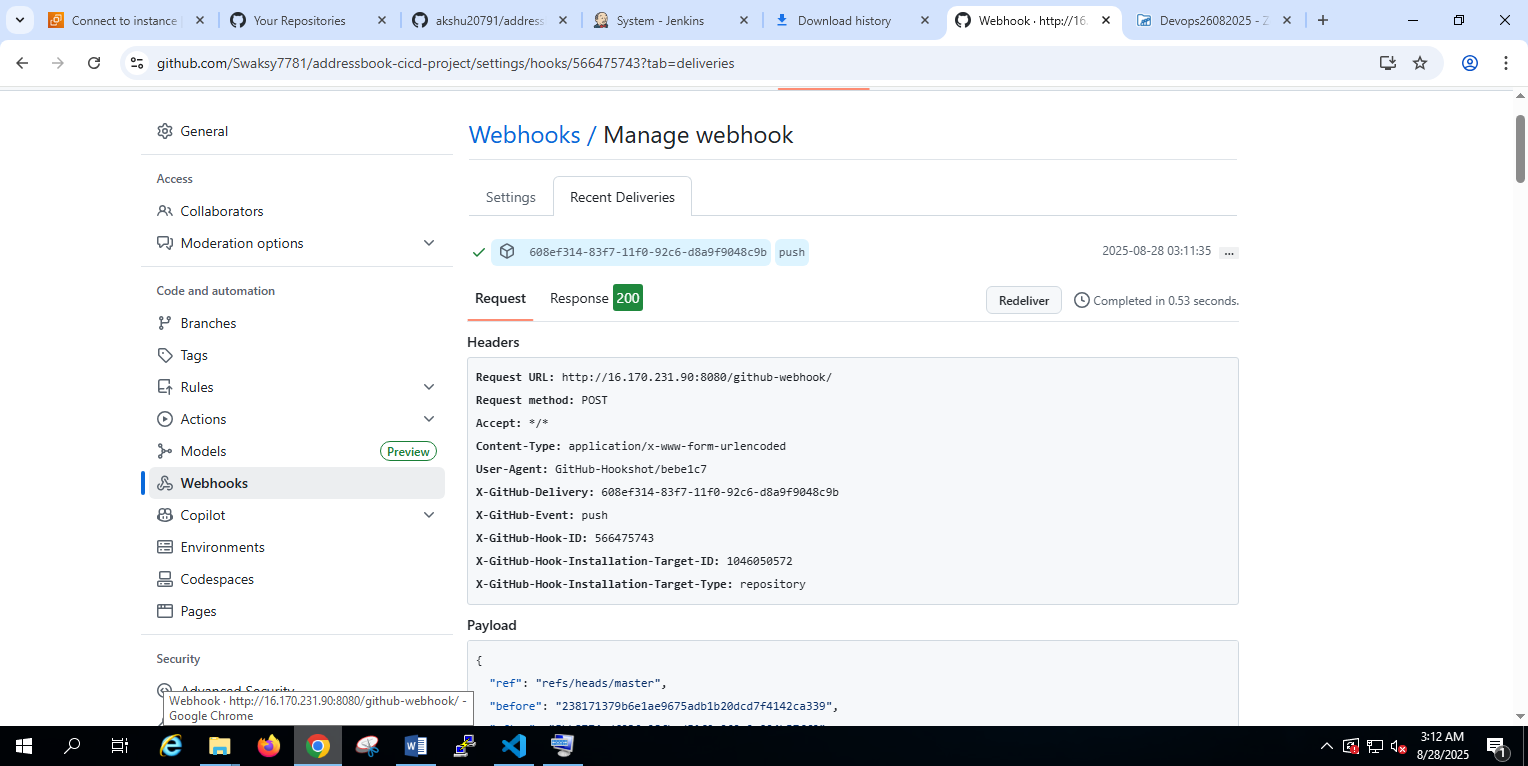
**git hub webhook:**



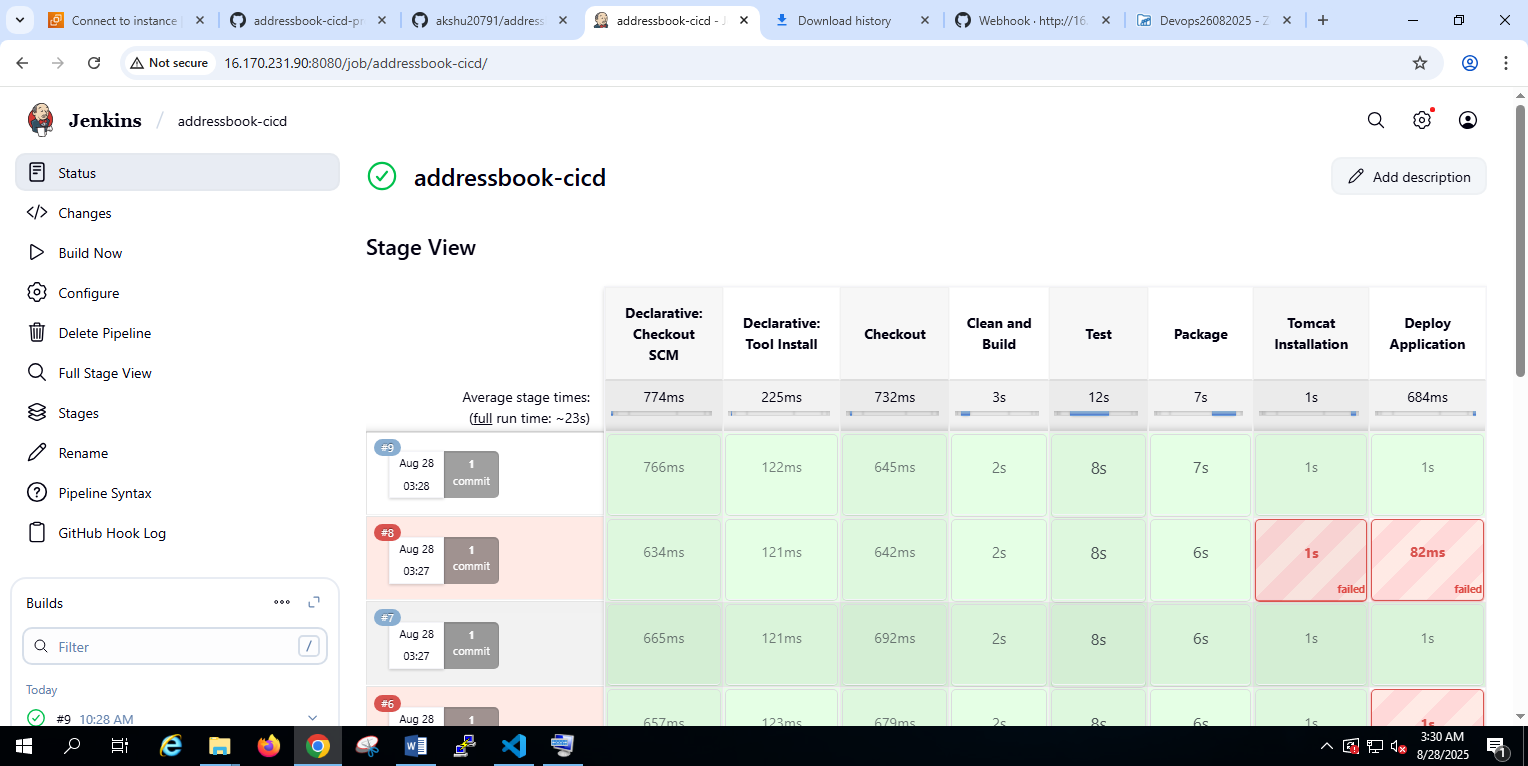
No webhook, adding webhook



Adding the git poll scm config for auto build.



Successful deliverance of github webhook.



Build and deployment success.