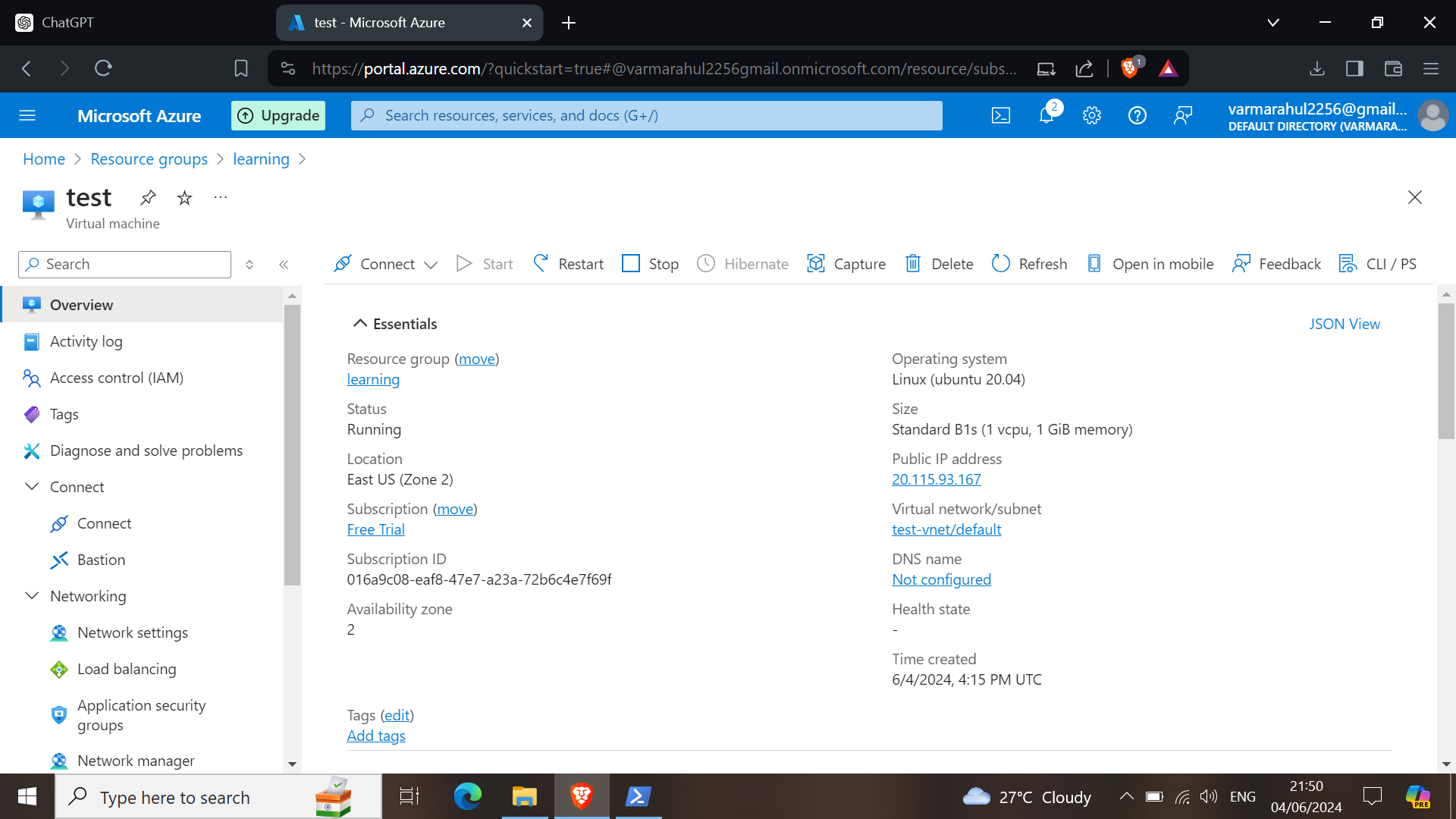
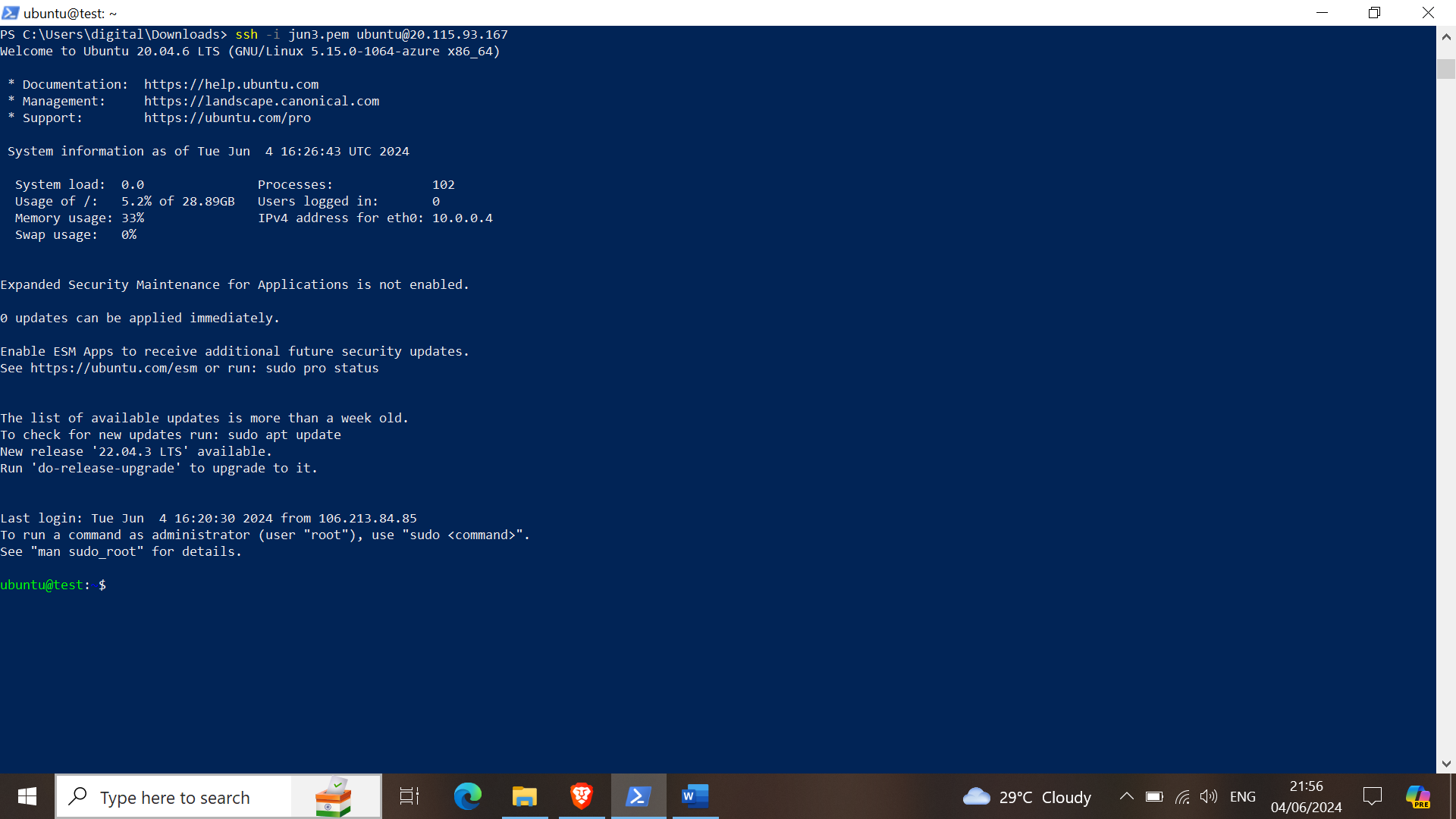
**Automation in deployment using Aure Server**

Created azure server



Using public IP connected to windows PowerShell

ssh -i jun3.pem ubuntu@20.115.93.167



Update & upgrade the preinstalled packages of server

apt update -y && apt upgrade -y

Install jdk for java

apt install openjdk-11-jdk -y

Install Jenkins

curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo tee \

/usr/share/keyrings/jenkins-keyring.asc > /dev/null

echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \

https://pkg.jenkins.io/debian-stable binary/ | sudo tee \

/etc/apt/sources.list.d/jenkins.list > /dev/null

sudo apt update -y

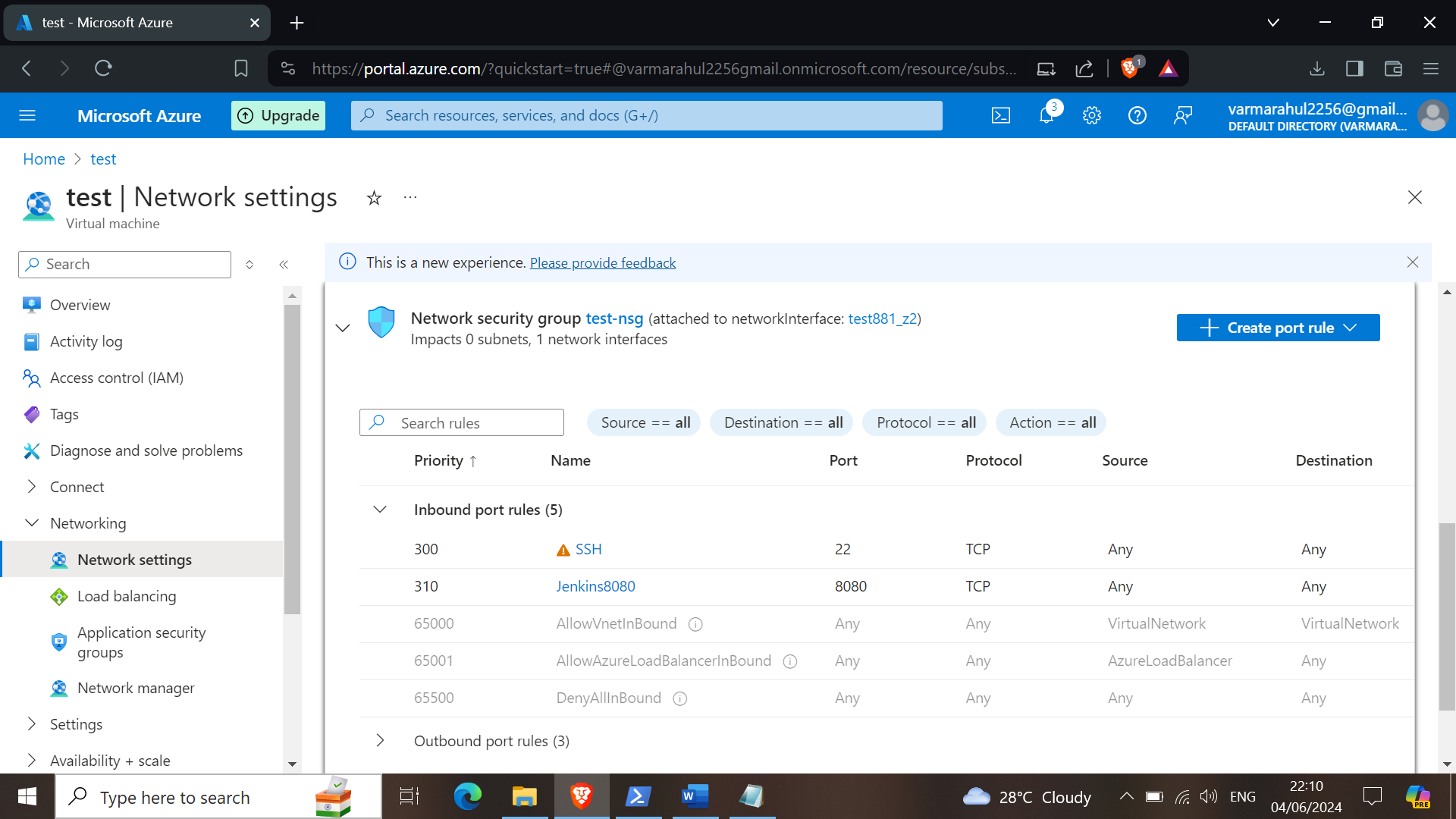
sudo apt install jenkins -y

Get Jenkins password

cat /var/lib/jenkins/secrets/initialAdminPassword

Add Inbound rule

After installing Jenkins in azure servers network setting create new inbound rule for port 8080 for Jenkins

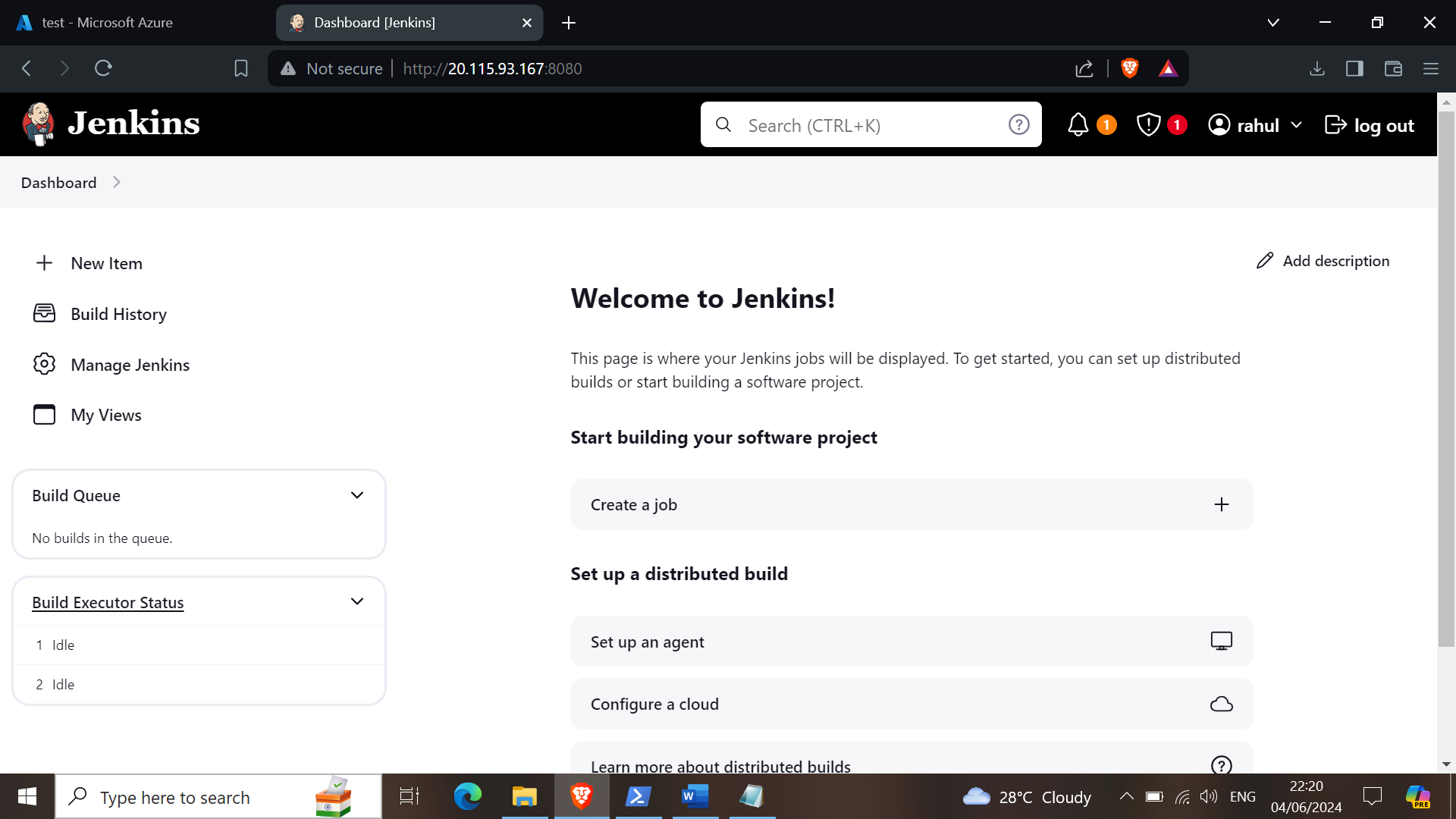


Login Jenkins

Serch http://<public ip>:8080/ in browser

And use Jenkins password to login in Jenkins

Then Create User in Jenkins and start Jenkins



Now in manage Jenkins -> tools -> add maven

-> plugins -> availabel plugins -> search & install

1. build pipeline

2. maven integration

3. deploy to container

4. copy artifact

Install tomcat & tomcat admin

apt install tomcat9 -y

apt install tomcat9-admin -y

Change tomcat port 8080 to 8090

vi /etc/tomcat9/server.xml

Add user roll for tomcat

vi /var/lib/tomcat9/conf/tomcat-users.xml

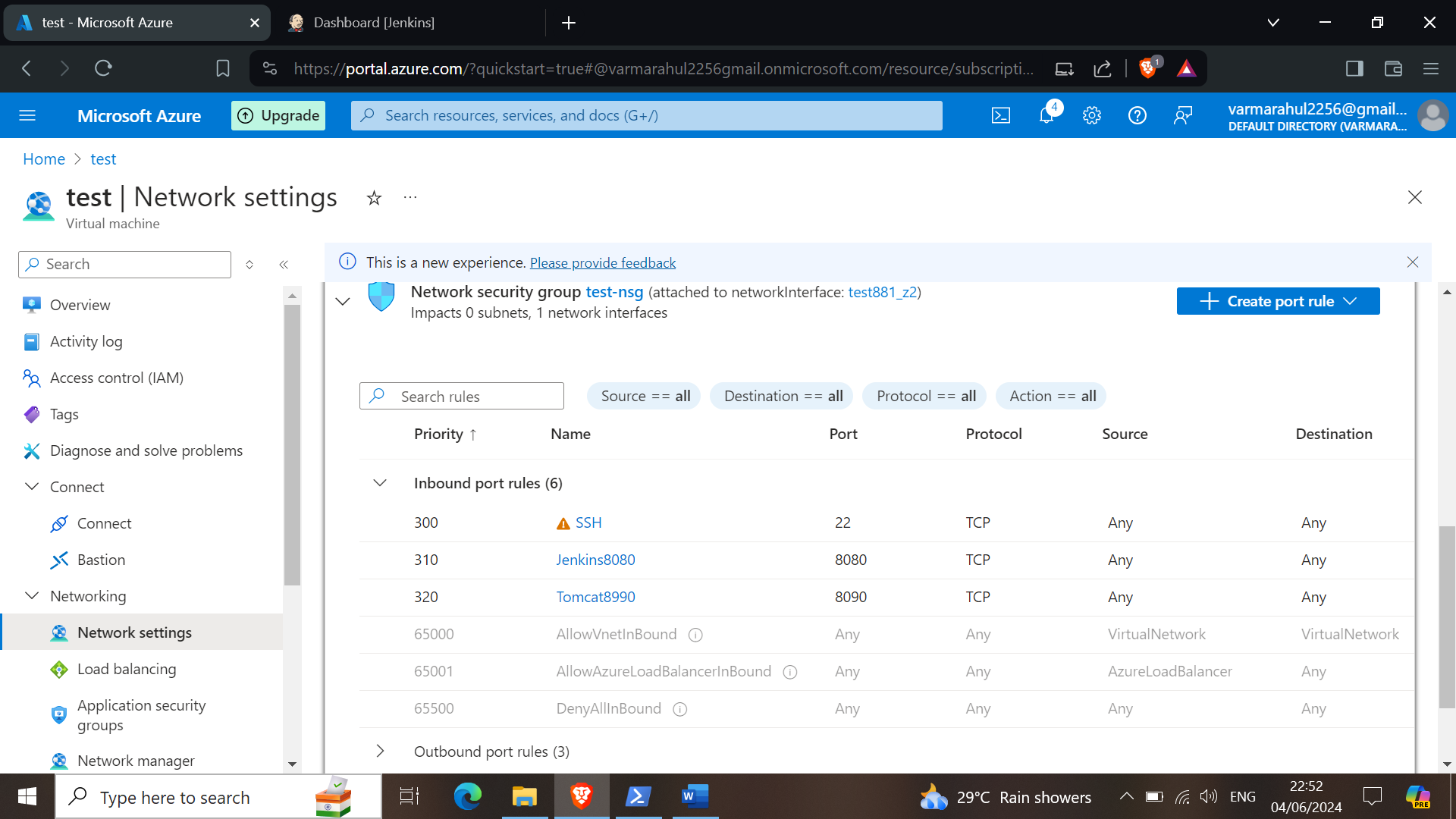
Add below content in above file at the end of file (Change username ana password as you want)

<role rolename="manager-gui"/>

<user username="tomcat" password="tomcat" roles="manager-gui, manager-gui, manager-script, manager-jmx, manager-status"/>

Add Inbound rule

After installing tomcat in azure servers network setting create new inbound rule for port 8090 for tomcat



Restart tomcat

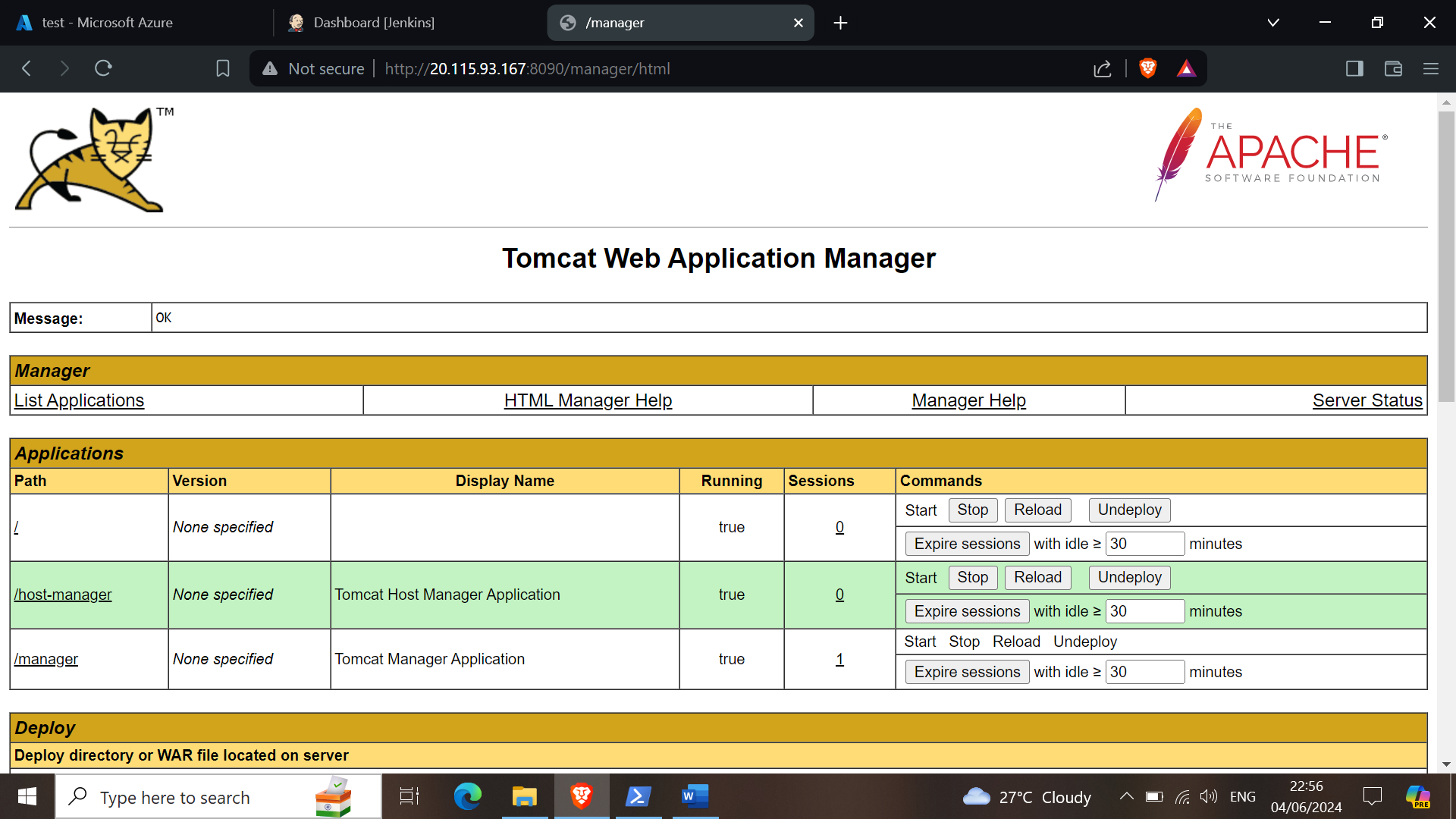
service tomcat9 restart

service tomcat9 status

Login Tomcat

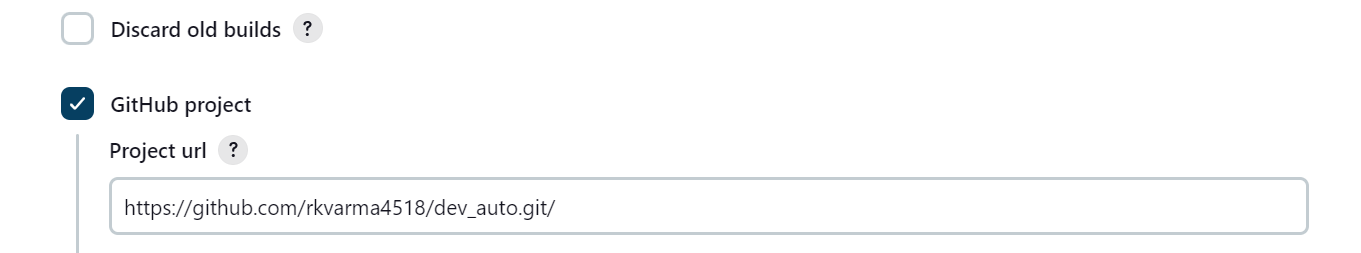
Serch http://<public ip>:8090/manager/ in browser

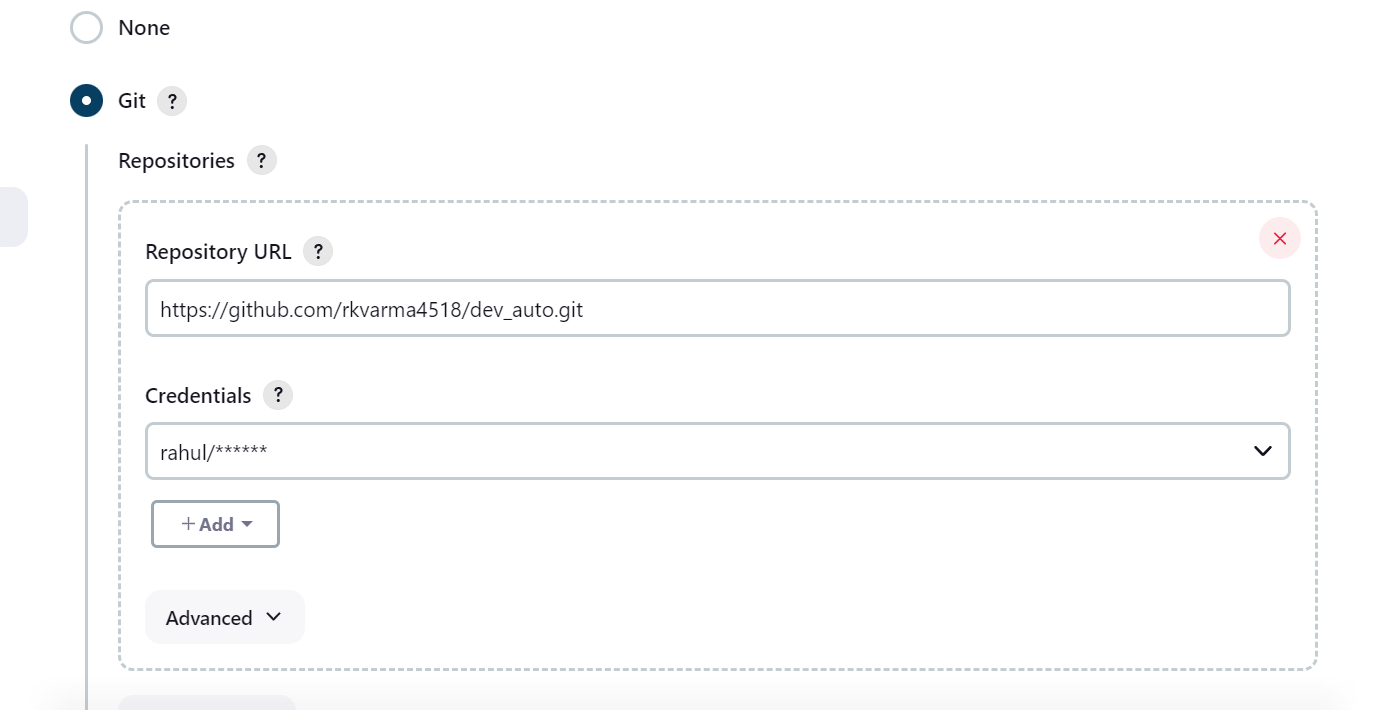
And use tomcat username and password to login



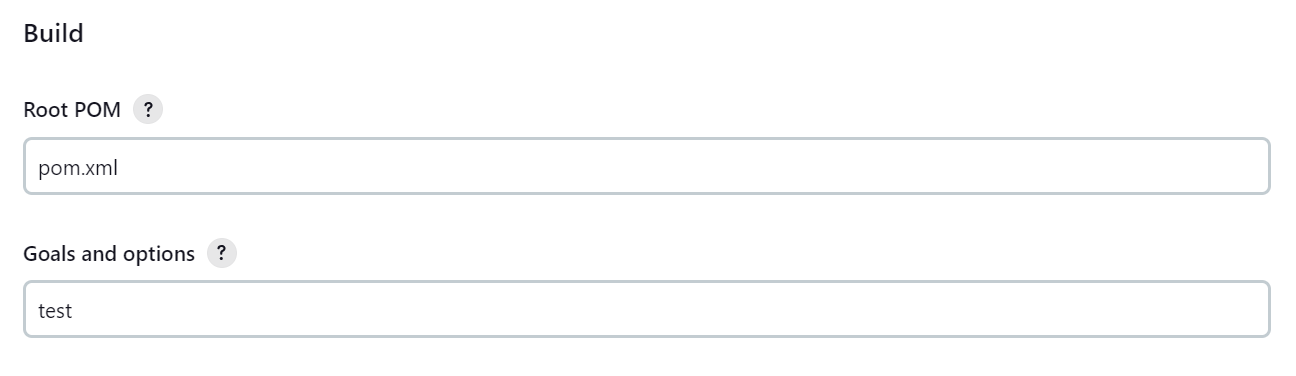
Create test Job in jenkins

Create job (maven) -> Hello-world-test -> git url and maven "test"

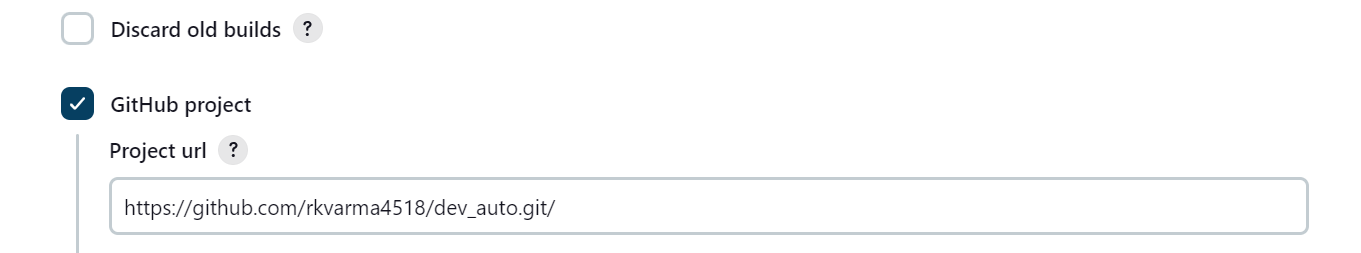


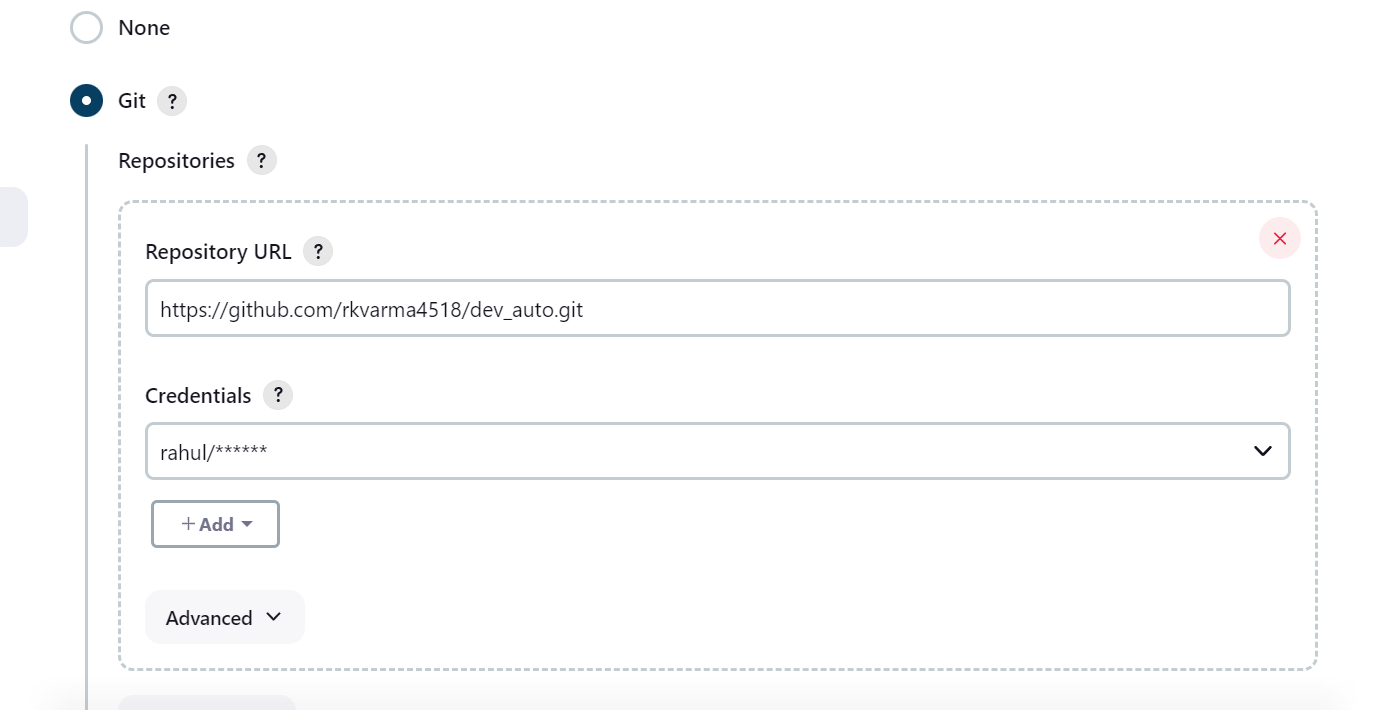




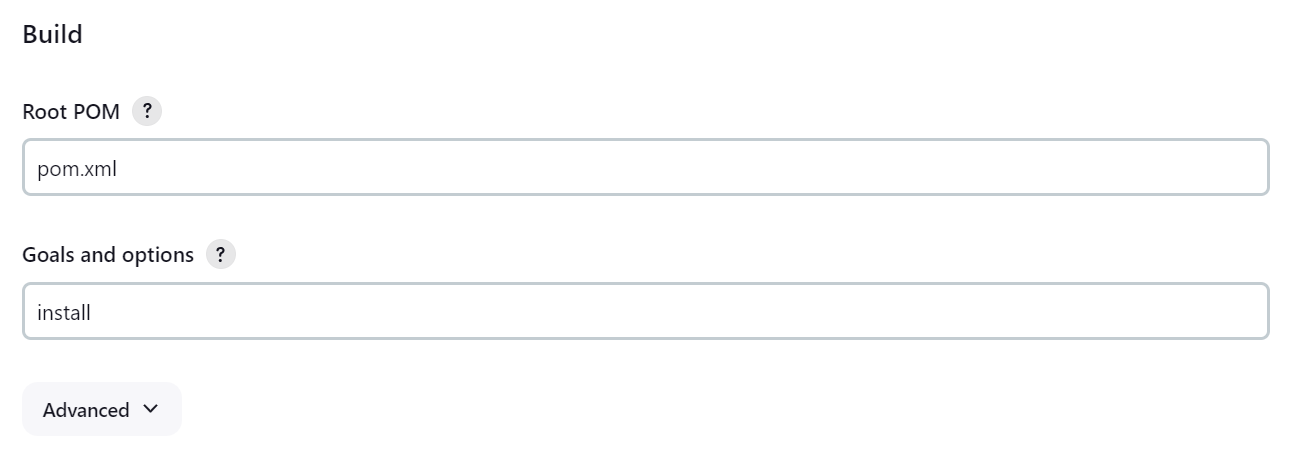


Create job (maven) -> Hello-world-build -> git url and maven "install"

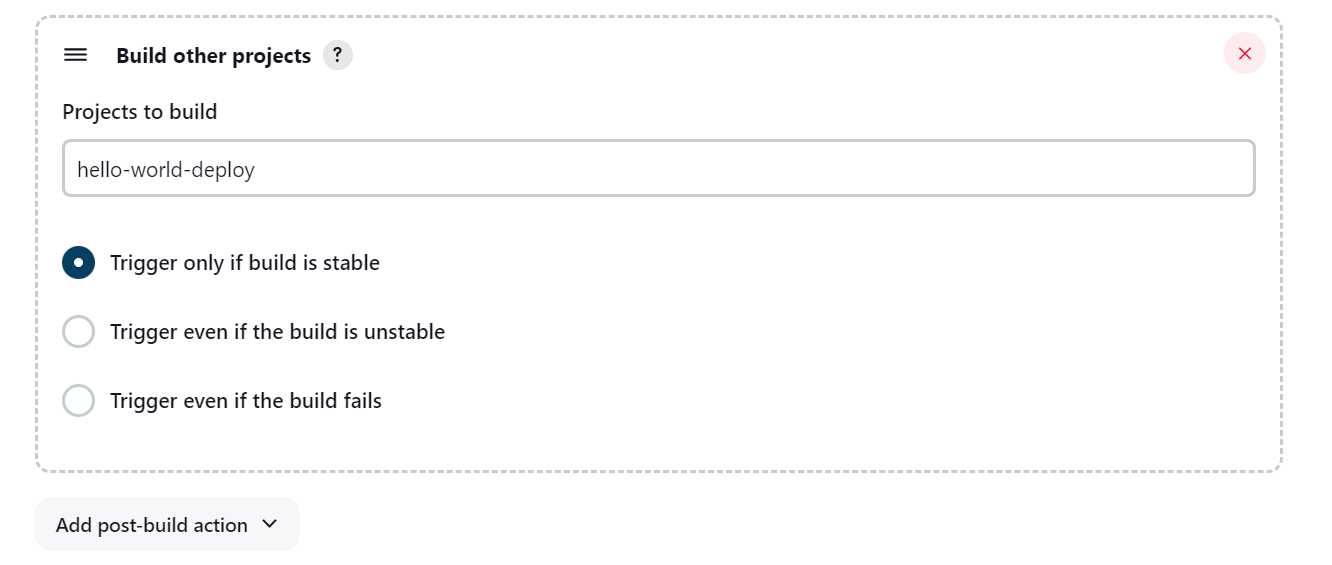




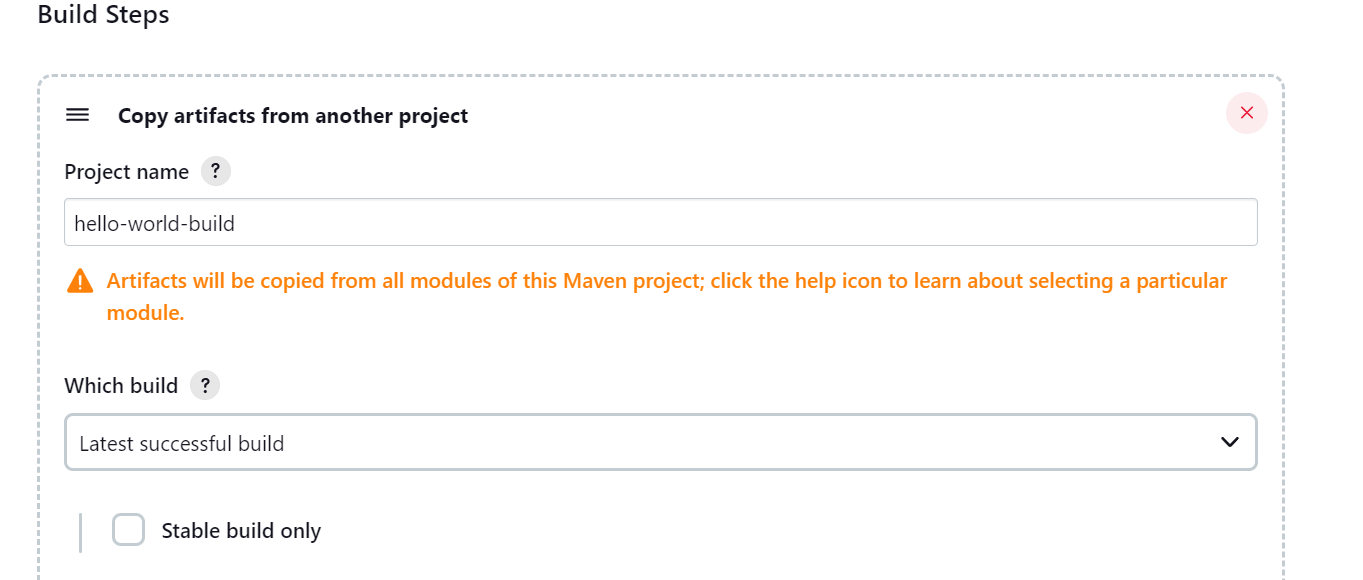








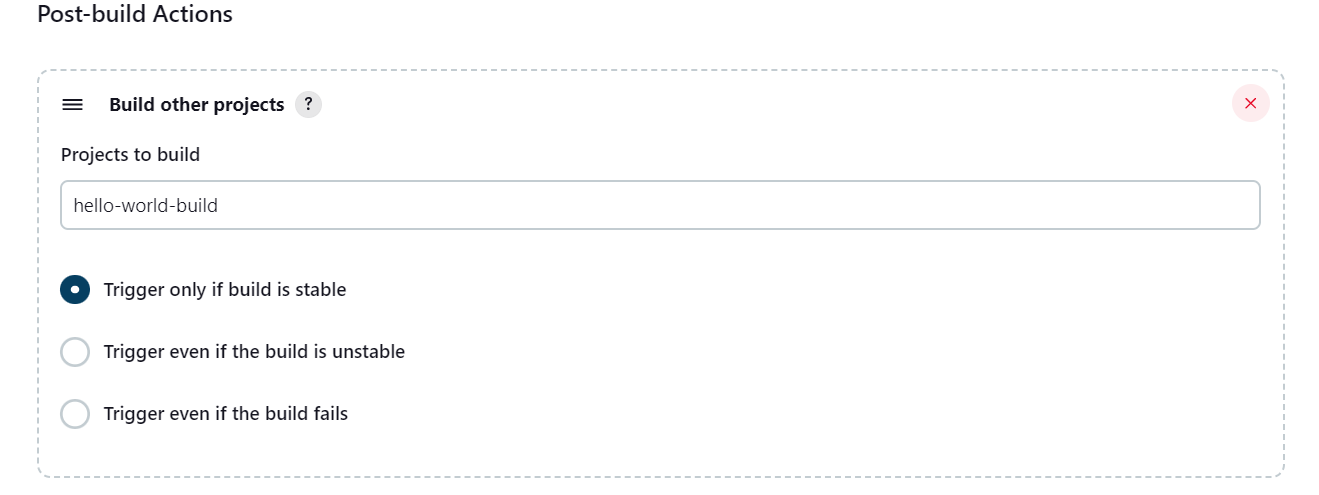
Create job (freestyle) -> Hello-world-deploy -> copy artifact & deploy to war





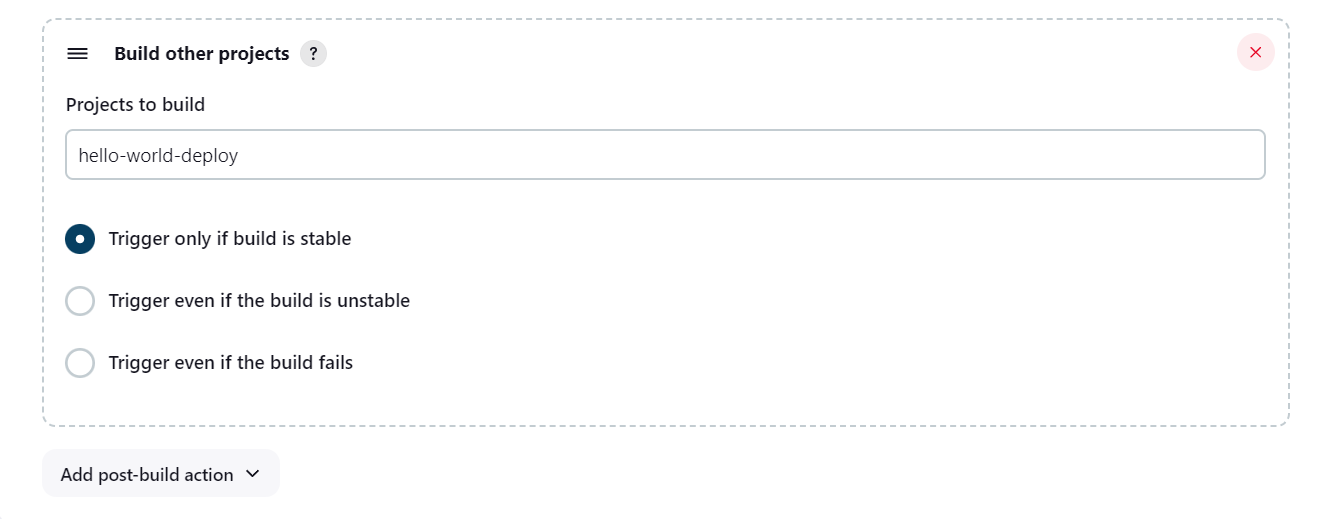
Add dependency

In hello-world-test



In hello-world-build





Add webhooks to redirect changes from GitHub

Github project -> settings -> webhooks -> add webhook

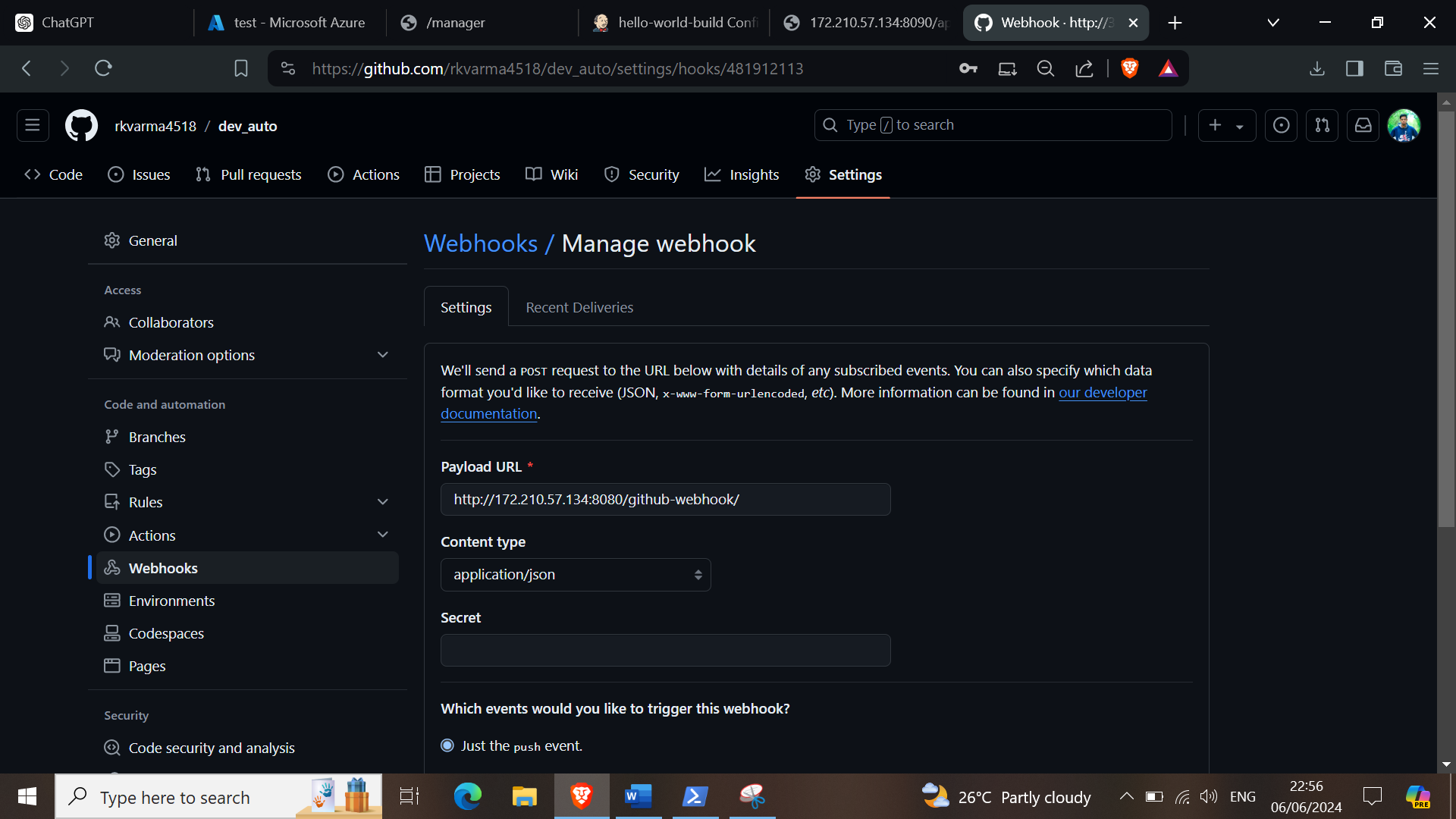
Payload url -> <http://172.210.57.134:8080/github-webhook/>

Content type -> application/json

Where

172.210.57.134 - public ip

8080 – Jenkins port



To create pipeline

Jenkins -> new view -> hello-world

-> type - build pipeline

create

-> select initial job - hello-world-test

Result

