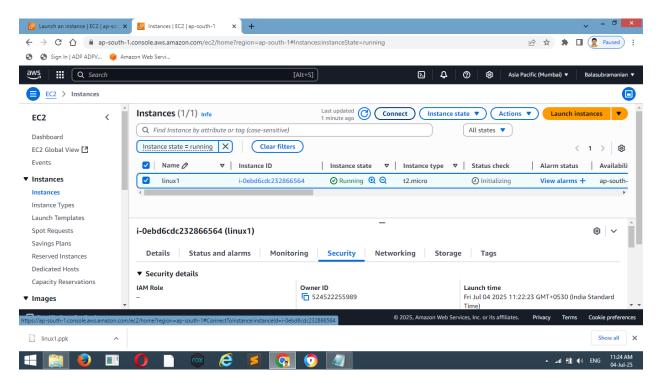
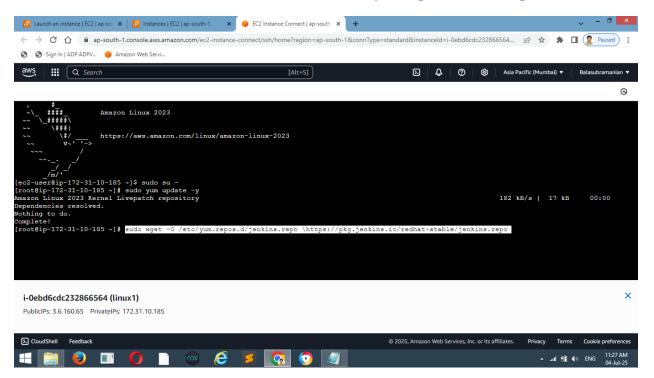
#### CI/CD WITH JENKINS PROJECT

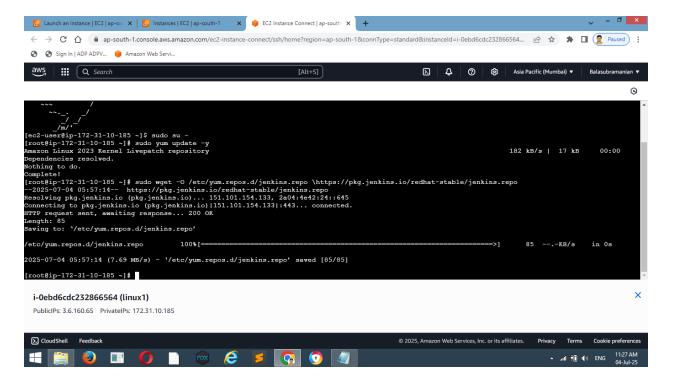
## SUMMARY: INSTALLED AND CONFIGURED JENKINS TO AUTOMATE BUILD AND DEPLOYMENT PROCESS

#### **STEP 1: FIRST EC2 INSTANCE IS RUNNING MODE AND TO CONNECT**

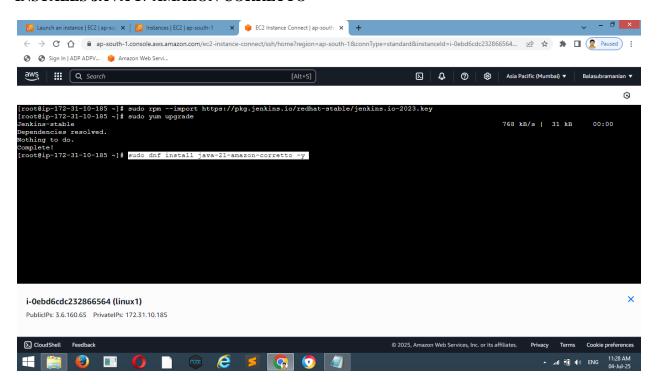


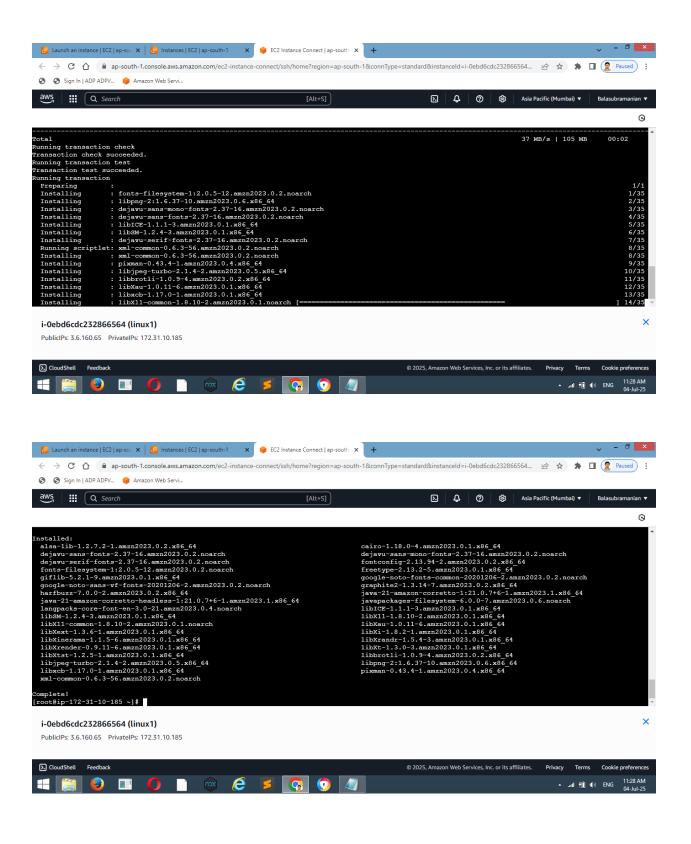
# STEP 2: sudo su - SWITCHES THE USER TO ROOT ACCOUNT AND DOWNLOADS THE JENKINS REPOSITORY FILE AND SAVES IT TO /etc/yum.repos.d/Jenkins.repo



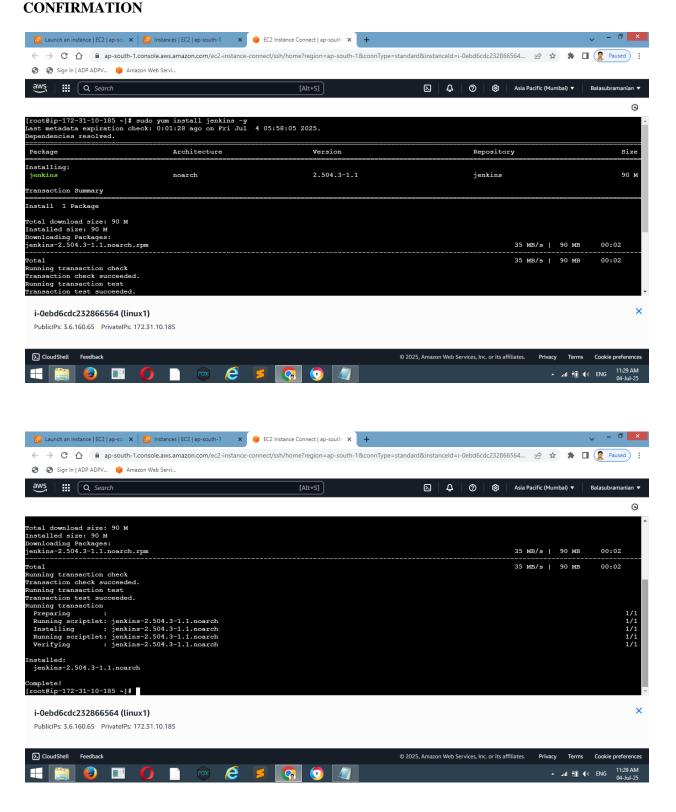


STEP 3: sudo rpm −import → IMPORTS THE JENKINS GPG KEY, sudo yum upgrade → UPDATES ALL INSTALLED PACKAGES, sudo dnf install java-17-amazon-corretto-y → INSTALLS JAVA 17 AMAZON CORRETTO

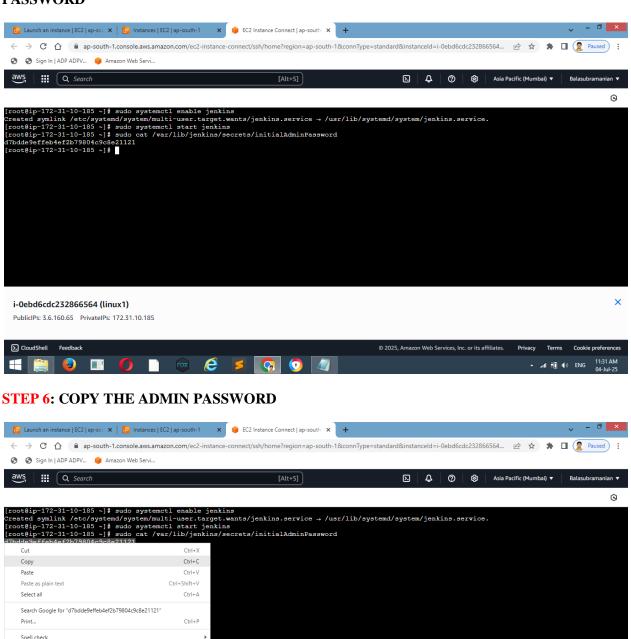




### STEP 4: sudo yum install Jenkins −y → INSTALLS JENKINS WITH AUTOMATIC



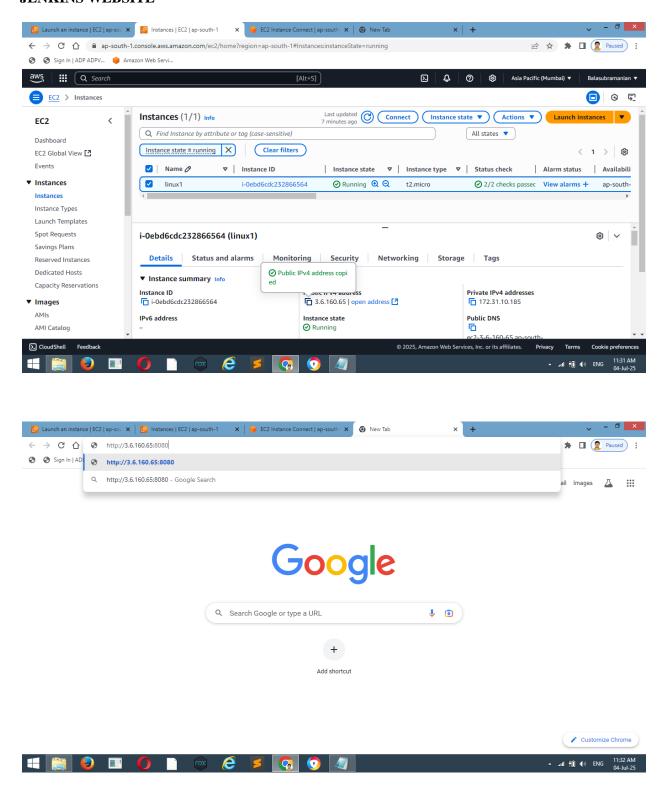
STEP 5: sudo systemctl enable jenkins – ENABLES JENKINS TO START ON BOOT, sudo systemctl start jenkins – STARTS THE JENKINS SERVICE, sudo cat /var/lib/Jenkins/secrets/initialAdminPassword – DISPLAYS THE INITIAL JENKINS ADMIN PASSWORD

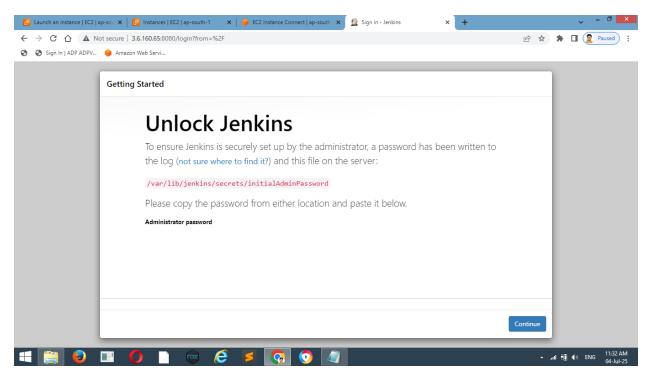




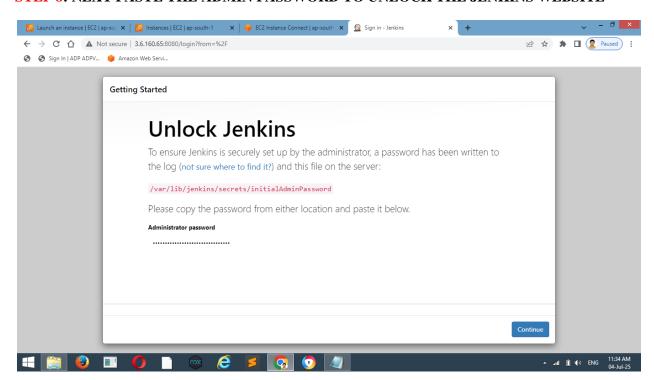
Writing Direction

## STEP 7: PASTE THE PUBLIC IP IN BROWSER AND ADD PORT 8080 TO VIEW THE JENKINS WEBSITE

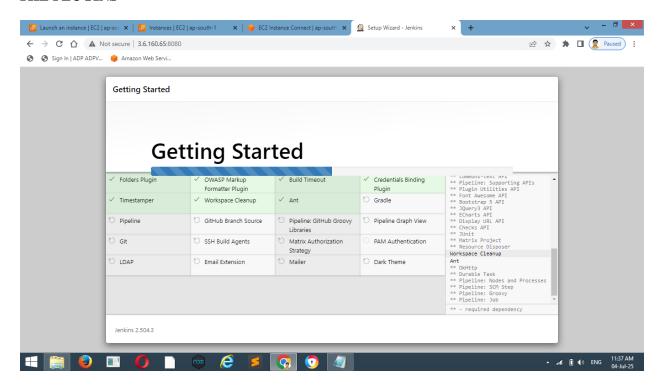




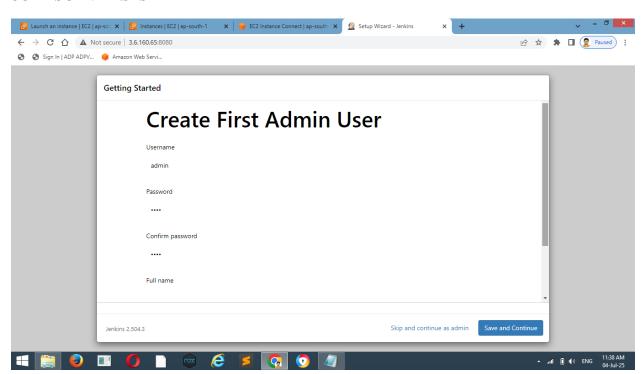
#### STEP 8: NEXT PASTE THE ADMIN PASSWORD TO UNLOCK THE JENKINS WEBSITE

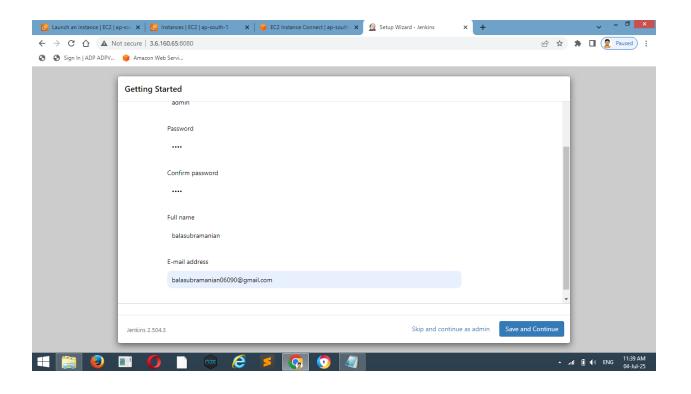


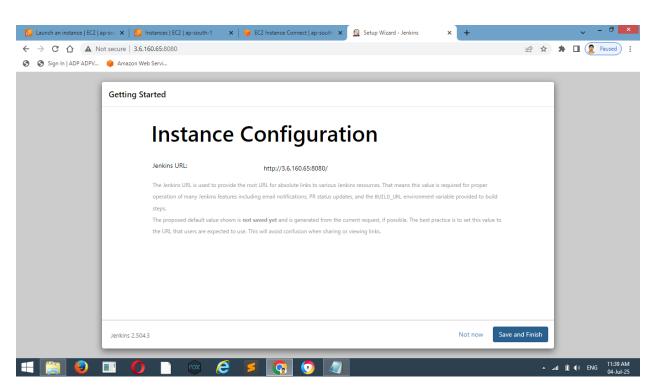
### STEP 9: NEXT CLICK ON THE 'INSTALL SUGGESTED PLUGINS' BUTTON TO INSTALL THE PLUGINS

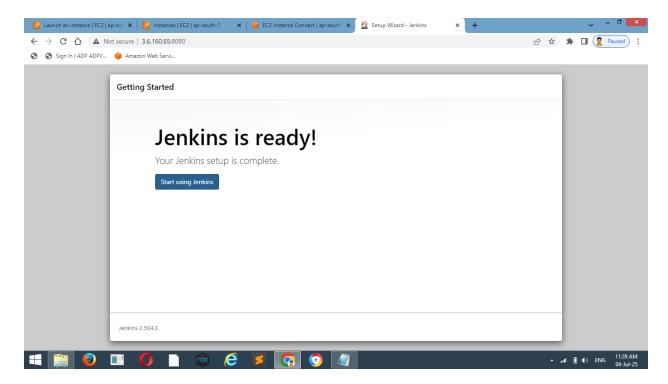


### STEP 10: NEXT CREATE AN ADMIN USER ON THE JENKINS WEBSITE AND FINALLY COMES JENKINS IS READY

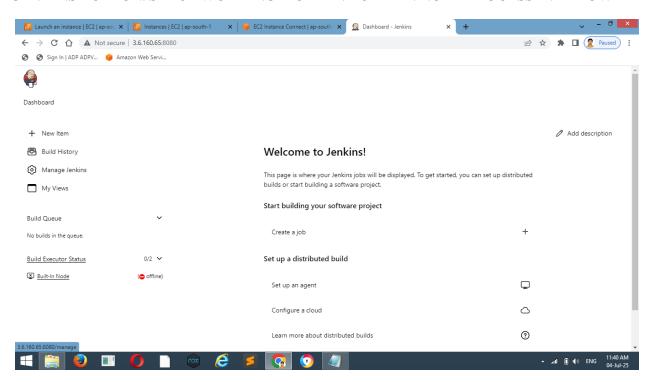


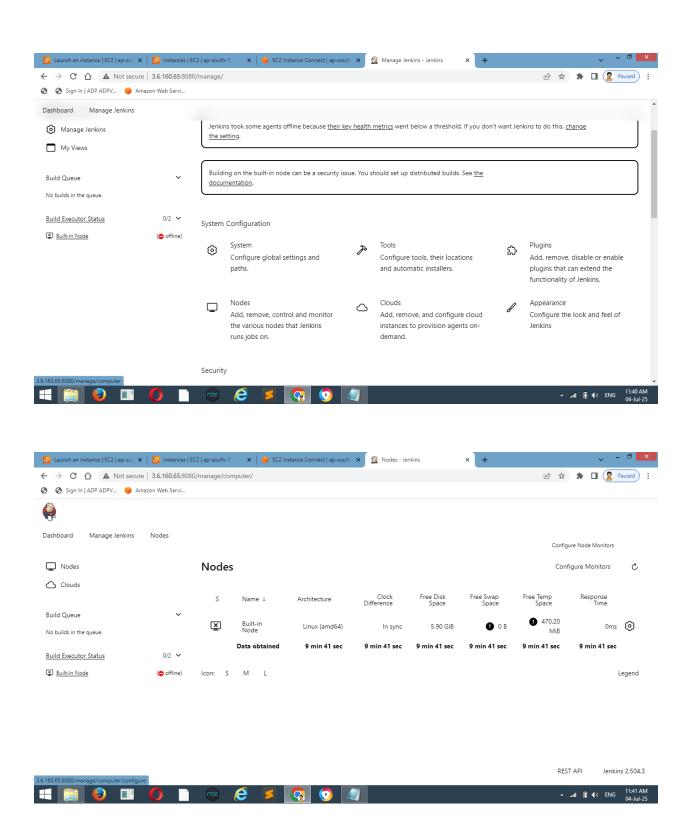


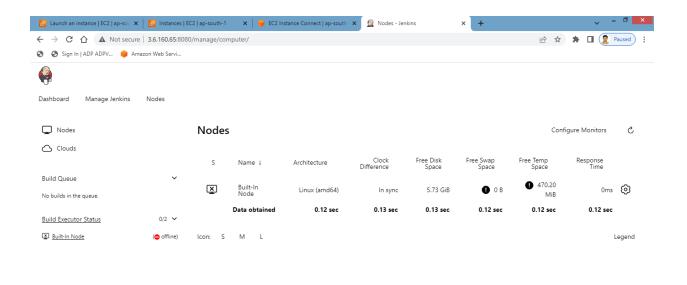




STEP 11: THE BUILT-IN-NODE IS OFFLINE DUE TO LOW DISK SPACE, SETTING THESE OPTIONS PREVENTS AGENTS FROM GOING OFFLINE. CLICK ON THE MANAGE JENKINS BUTTON. SETUP WORKING MODE IN BUILT-IN NODE PROCESS IN BELOW



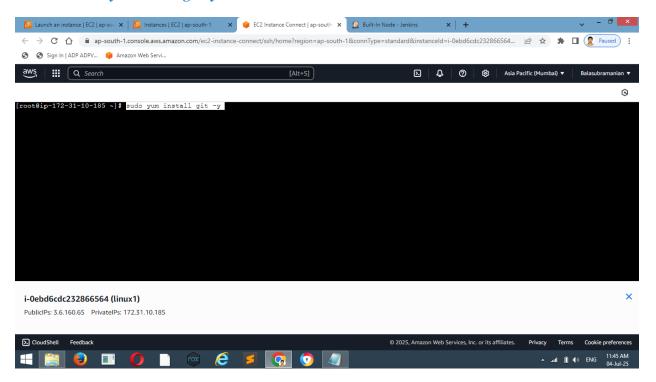


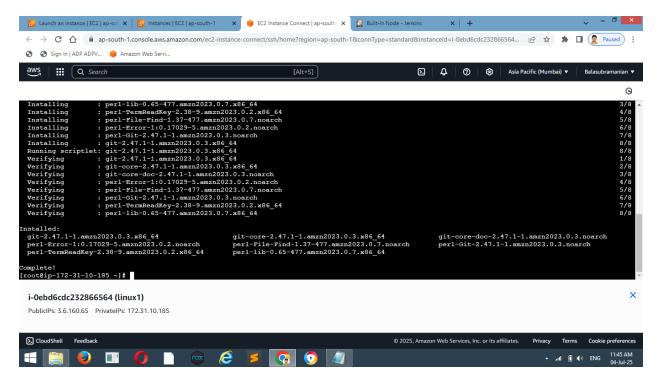




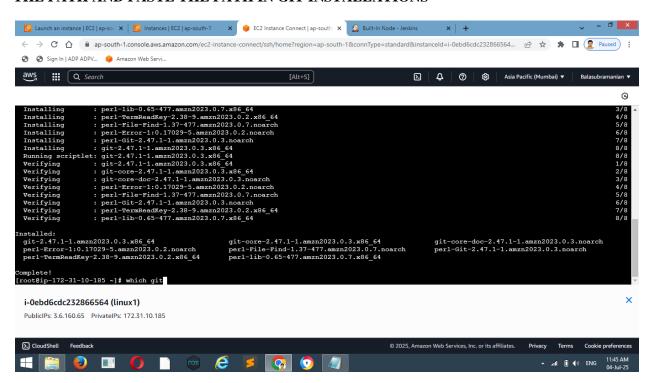
REST API

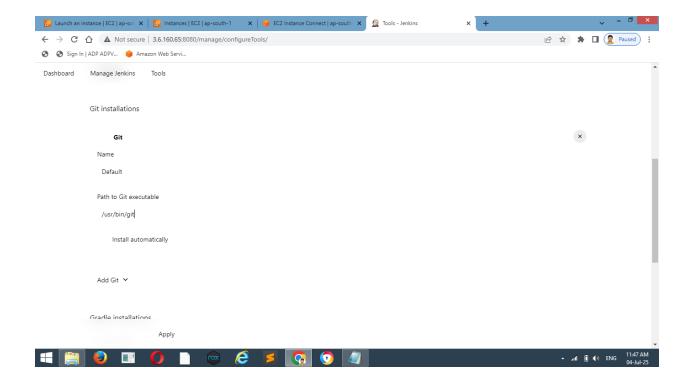
#### **STEP 12:** sudo yum install git −y → INSTALLS GIT WITH AUTOMATIC CONFIRMATION



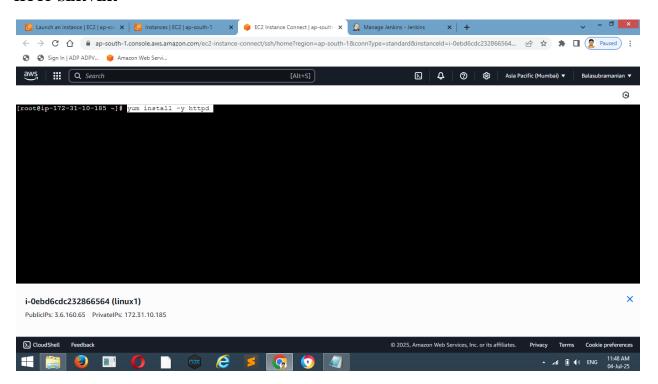


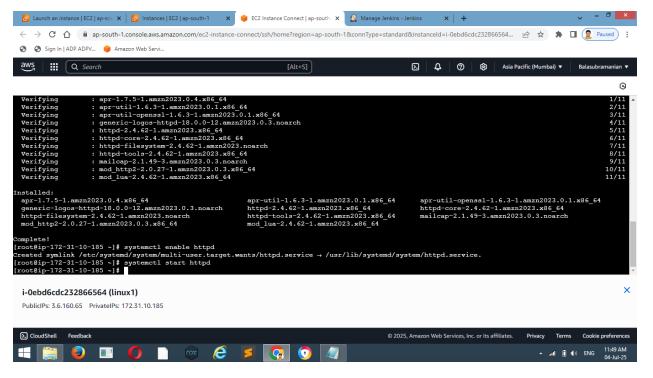
### STEP 13: which git – SHOWS THE PATH OF THE INSTALLED GIT EXECUTABLE TO COPY THE PATH AND PASTE THE PATH IN GIT INSTALLATIONS



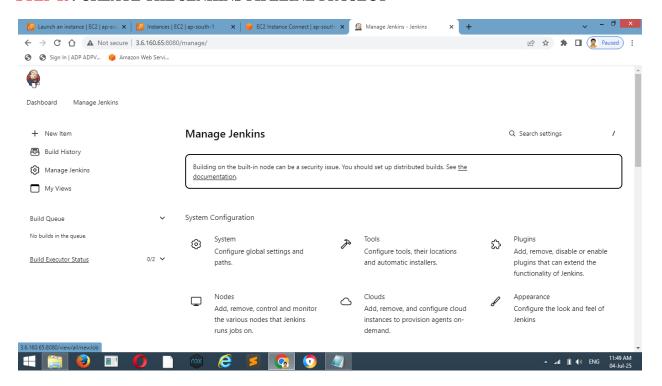


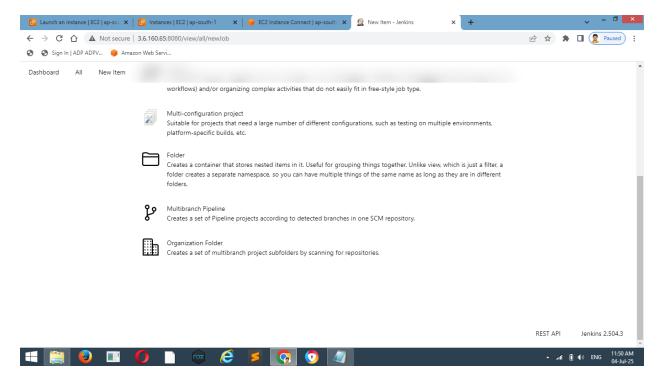
STEP 14: yum install httpd – INSTALLS THE APACHE HTTP SERVER, systemctl enable httpd – ENABLES APACHE TO START ON BOOT, systemctl start httpd – STARTS THE APACHE HTTP SERVER



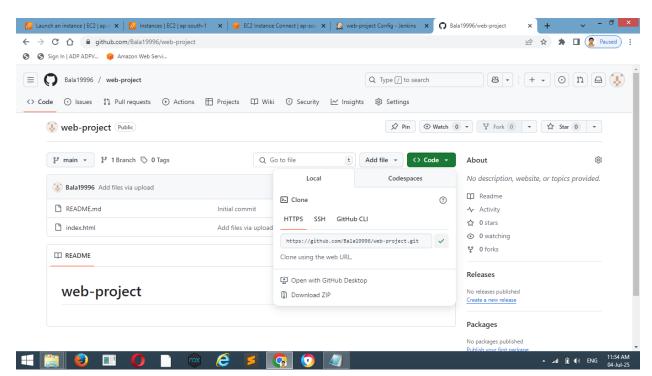


#### **STEP 15: CREATE THE JENKINS PIPELINE PROJECT**

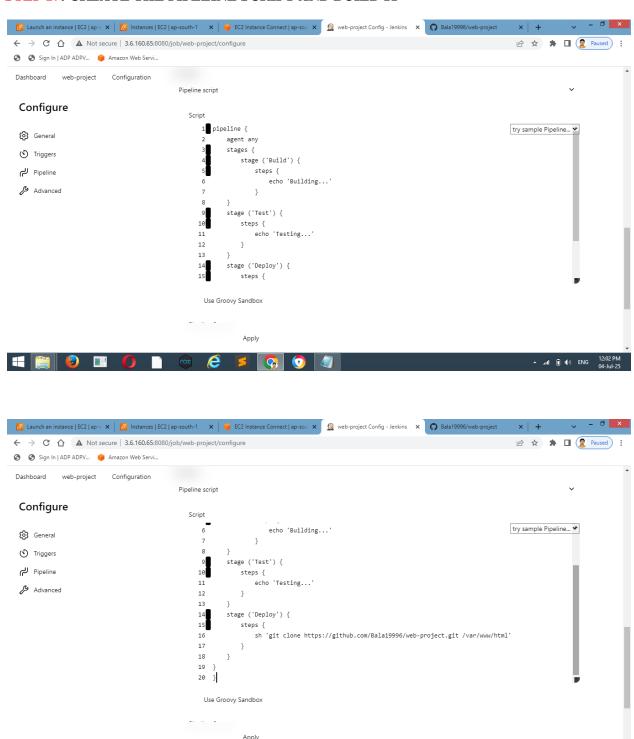




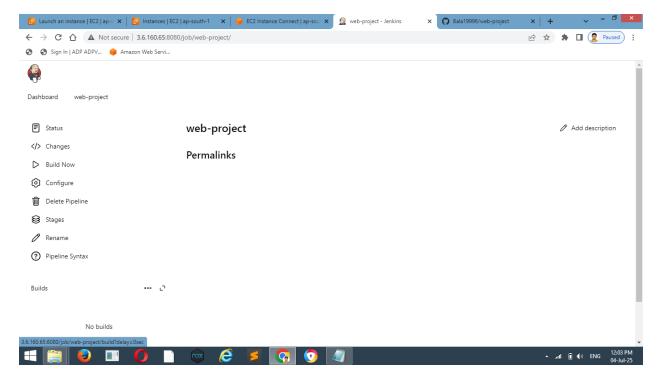
#### **STEP 16:** GO TO GITHUB REPOSITORY AND COPY THE URL



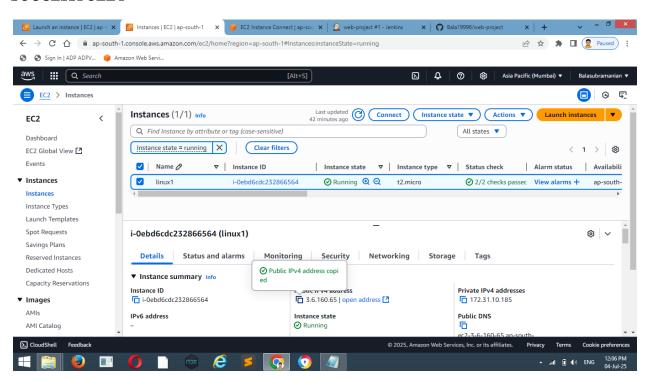
#### STEP 17: CREATE THE PIPELINE SCRIPT AND BUILD IT

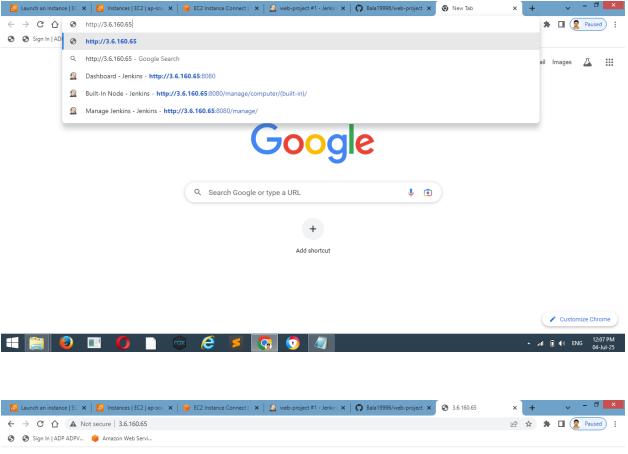


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## STEP 18: COPY THE PUBLIC IP AND PASTE IT ON BROWSER AND FINALLY DEPLOYED SUCCESSFULLY





It works!

