Install the below tools on AWS EC2 Instance:

- Jenkins
- Maven
- Git

Points to remember:

- Install Jenkins on the EC2 instance
- Store the SSH Private key on Jenkins using “Manage Credentials” with “SSH Username with private key”
- Update “Host Key Verification Strategy” to “No Verification.
  “Manage Jenkins” → “Configure Global Security” → “Git Host Key Verification Configuration”

Tips:

- Install “SSH agent” and “Git Credentials” plugin
- https://techviewleo.com/install-jenkins-server-on-amazon-linux/
- https://github.com/VishnuvardhanKrishnan/devops-aug-sep-batch/blob/devops/jenkins-sample-pipelines/10-gitPushSSHJenkinsfile

Jenkins Pipeline Project 1:

1) Create a Pipeline named “project-1”
2) Create environment variables with the below name & value
   - git_push = true
3) Stage 1: Clone the Git repository “devops-aug-sep-batch”
4) Switch to the branch “maven”
5) Stage 2: Copy the contents of the branch and push it to your own Git repository
6) Stage 2 should run only when the environment variable git_push is set to true

Jenkins Pipeline Project 2:

1) Create a Pipeline named “project-2”
2) Stage 1: Clone the Git repository “devops-aug-sep-batch”
3) Switch to the branch “maven”
4) Stage 2: Run the maven build
5) Stage 3: Copy the contents of the branch “main” and push it to your own Git repository
6) Stage 2 & 3 should run in parallel

Jenkins Pipeline Project 3:

1) Create a Pipeline named “project-3” as a copy of the pipeline “project-2”
2) “project-3” pipeline should run only when there is a git push event happens on GitHub
3) Achieve it through GitHub WebHook

Jenkins Pipeline Project 4:

1) Create a Pipeline named “project-1”
2) Stage 1: Clone the Git repository “devops-aug-sep-batch”
3) Switch to the branch “maven”
4) Stage 2: Copy the contents of the branch into an S3 bucket