**Create EC2, VPC and Subnet, Security Group in AWS by using Jenkins pipeline**

1. Write terraform script
2. Push into GitHub
3. Create EC2 instance
4. Install Jenkins
5. Install java
6. Install git
7. Install terraform
8. For this we need to attach role “because the Jenkins need to create AWS resources”
9. The role must have “ec2,vpc permissions” (I provided administration access)
10. Go to Jenkins create “project and select “pipeline type””
11. Select “scripted pipeline” and write “script”

pipeline {

agent any

stages {

stage("GitHub checkin"){

steps{

git branch: 'main', credentialsId: 'f618f6ea-5783-46e8-bce5-4197e880899c', url: 'https://github.com/Pavan-14/private\_terraform.git'

}

}

stage("terraform initilation"){

steps{

sh '''terraform init'''

sh '''terraform fmt'''

}

}

stage("terraform validate"){

steps{

sh "terraform validate"

sh "terraform plan "

}

}

stage('Approval') {

steps {

script {

def userInput = input(id: 'confirm', message: 'Apply Terraform?', parameters: [ [$class: 'BooleanParameterDefinition', defaultValue: false, description: 'Apply terraform', name: 'confirm'] ])

}

}

}

stage ('TF Apply') {

steps {

sh 'terraform apply -input=false --auto-approve'

}

}

}

}

1. Click on “Build now”