

Project 3

Implement infrastructure as code (IaC). Main objective will be how to use IaC tools to automate the deployment and management of infrastructure

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steps

1. Create an instance
2. Install terraform and jenkins
3. In jenkins install terraform plugin
4. create IAM user for access & secret key
5. Create a file in .tf extension , file contain provider and resource of s3 bucket
6. Push file in respective repository (bhagi-terra)
7. In jenkins pipeline clone it and do terraform inti ,Validate, plan , apply
8. And build

PIPELINE:

```
pipeline {
    agent any

    stages{
        stage('clone'){
            steps{
                checkout scmGit(branches: [[name: '*/main']], extensions: [], userRemoteConfigs: [[url:
'https://github.com/Bhargavi413/bhagi-terra.git']])
            }
        }

        stage('terraform init'){
            steps{
                sh 'terraform init'
            }
        }

        stage('terraform validate'){
            steps{
                sh 'terraform validate'
            }
        }
    }
}
```

```

    }

    stage('terraform plan'){
        steps{
            sh 'terraform plan'
        }
    }

    stage('terraform apply'){
        steps{
            sh 'terraform apply --auto-approve'
        }
    }

}

}

```

OUTPUT :



TERRAFORM TF FILE CODE:I

```

provider "aws" {
    region = "us-east-1"

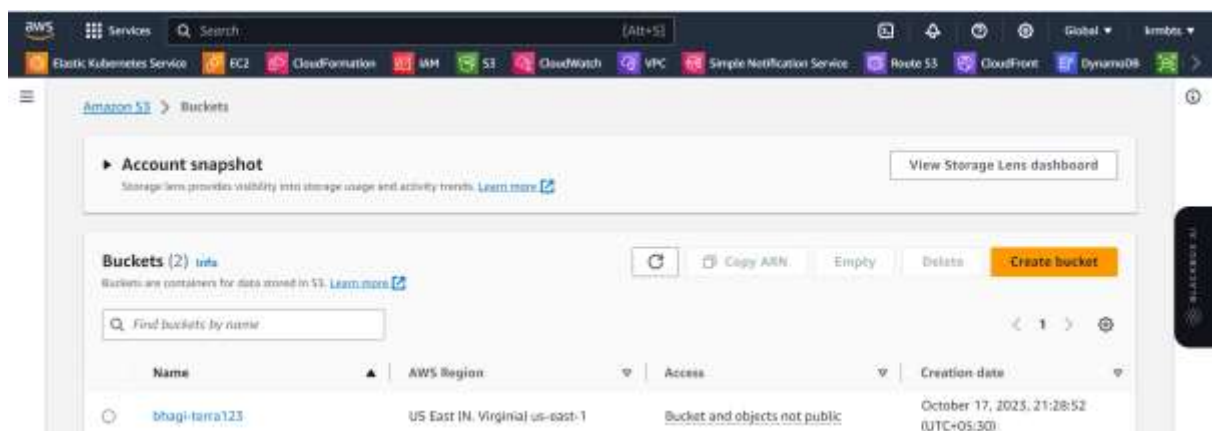
    access_key = "*****"

    secret_key = "*****"
}

```

```
}
resource "aws_s3_bucket" "s3bucket" {
  bucket = "bhagi-terra123"
  tags = {
    Name = "terraform"
  }
}
```

S3-BUCKET CREATED THROUGH JENKINS PIPELINE



CONSOLE OUTPUT OF CREATING S3 BUCKET

[illegible]