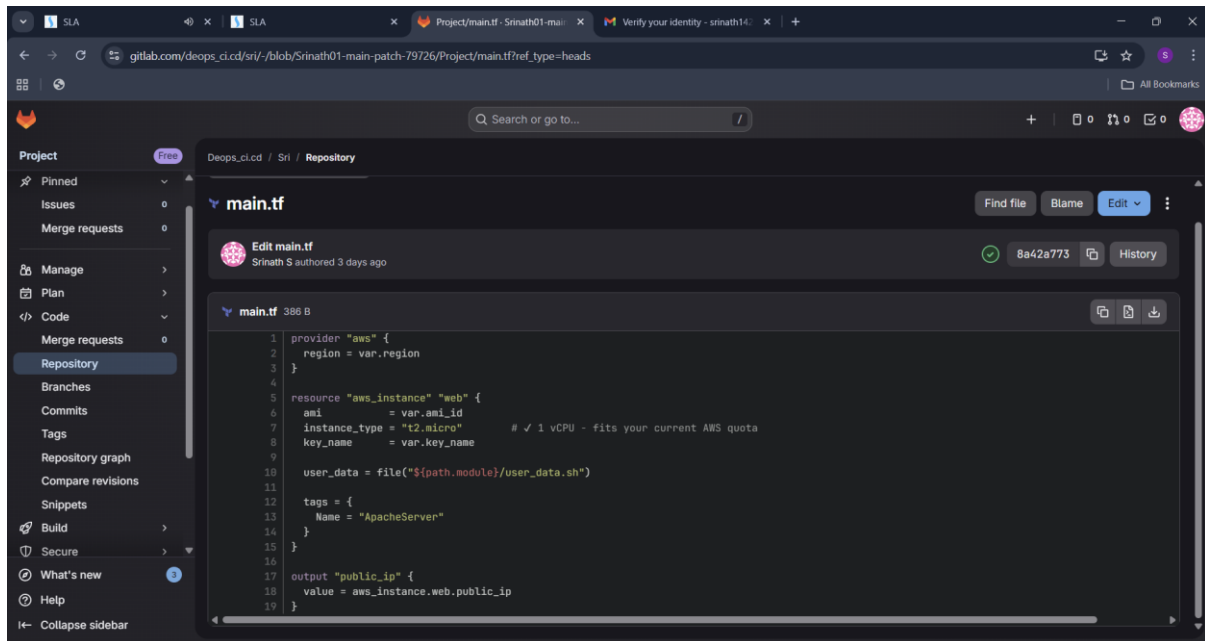


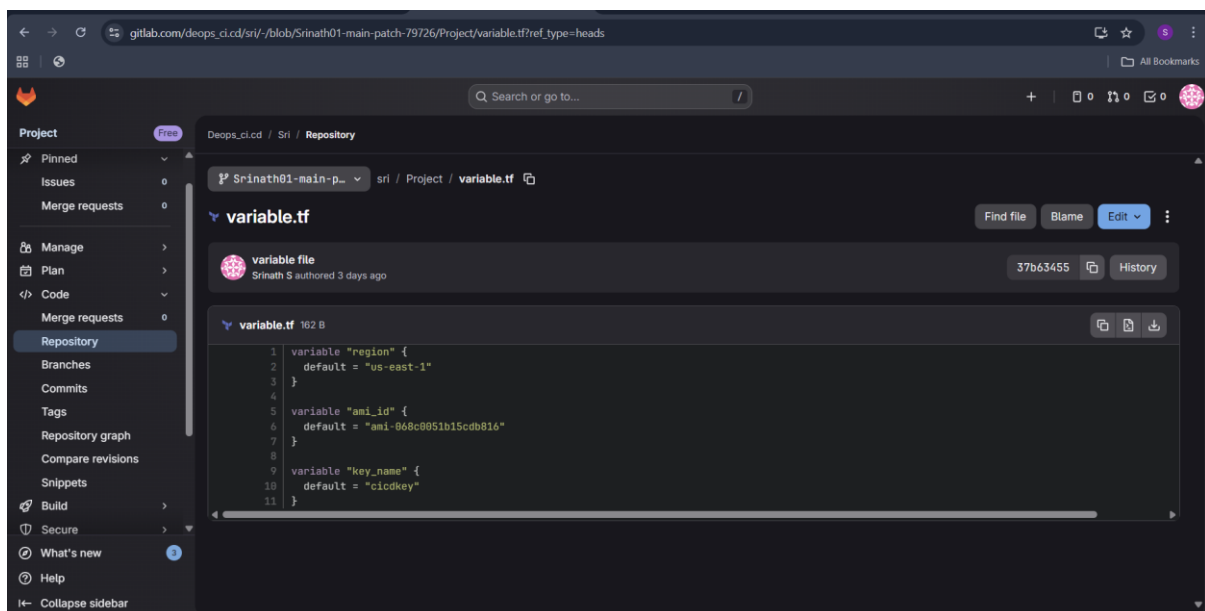
TASK-17

Gitlab pipeline for Infrastructure Terraform

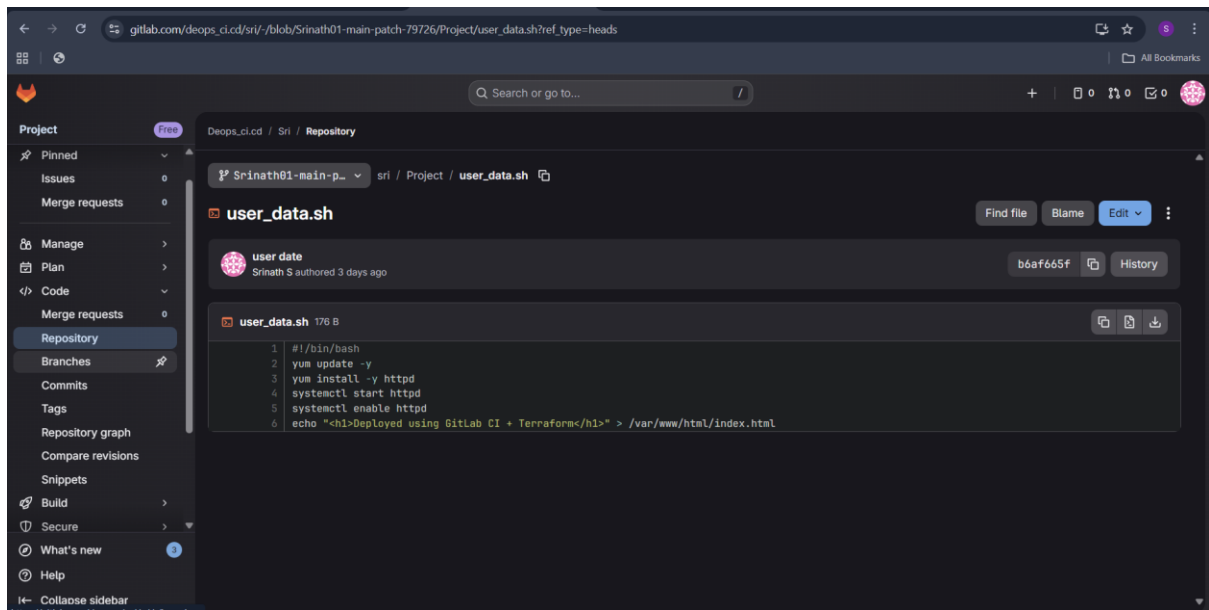
Create Terraform main file:



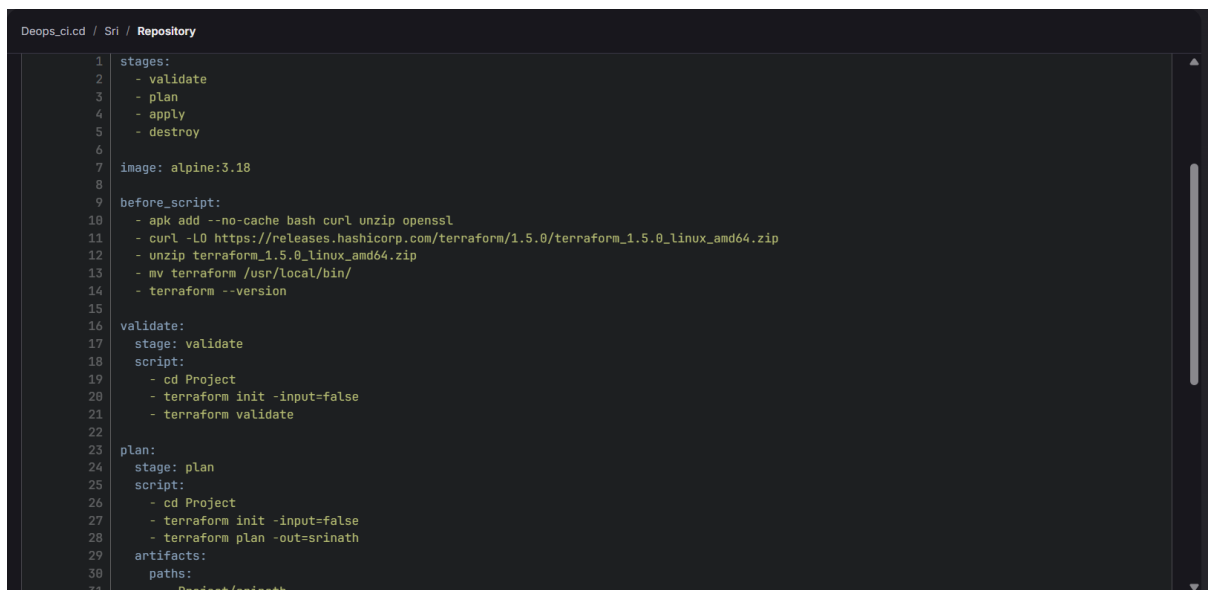
Create Variable File:



Create User_date:



Write a yaml file as .gitlab-ci.yml:



Code:

stages:

- validate
- plan
- apply

- destroy

image: alpine:3.18

before_script:

- apk add --no-cache bash curl unzip openssl
- curl -LO

https://releases.hashicorp.com/terraform/1.5.0/terraform_1.5.0_linux_amd64.zip

- unzip terraform_1.5.0_linux_amd64.zip
- mv terraform /usr/local/bin/
- terraform --version

validate:

stage: validate

script:

- cd Project
- terraform init -input=false
- terraform validate

plan:

stage: plan

script:

- cd Project
- terraform init -input=false
- terraform plan -out=srinath

artifacts:

paths:

- Project/srinath

apply:

stage: apply

when: manual

dependencies:

- plan

script:

- cd Project
- terraform init -input=false
- terraform apply -auto-approve srinath

artifacts:

paths:

- Project/terraform.tfstate
- Project/terraform.tfstate.backup

expire_in: 1 hour

destroy:

stage: destroy

when: manual

dependencies:

- apply

Pipe Line:

The screenshot shows the GitLab CI/CD interface for a project named 'Deops_ci.cd'. The pipeline configuration file, '.gitlab-ci.yml', is displayed, showing a pipeline with four jobs: 'validate', 'plan', 'apply', and 'destroy'. The pipeline is currently in a 'Passed' state, having been created 2 days ago by Srinath S. The pipeline is triggered by a commit '213beeb31' on the 'Srinath01-main-patch-79726' branch. The pipeline consists of 8 jobs, with a total duration of 6.06 minutes and 56 seconds, and it is currently queued for 2 seconds. The pipeline is shown as a sequence of steps: 'validate' (green checkmark), 'plan' (green checkmark), 'apply' (green checkmark), and 'destroy' (green checkmark). The 'destroy' job is the final step in the pipeline.

Instance Created

The screenshot shows the AWS Management Console for the 'us-east-1' region. The 'Instances' page is displayed, showing a list of EC2 instances. The table below represents the data shown in the console:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
ApacheServer	i-0225b7b37ccd5611d	Running	t2.micro	Initializing	View alarms	us-east-1b	ec2-50-19-1

The console also shows a 'Select an instance' section below the table. The footer of the console displays the copyright information: '© 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences'.

Instanced Deleted:

