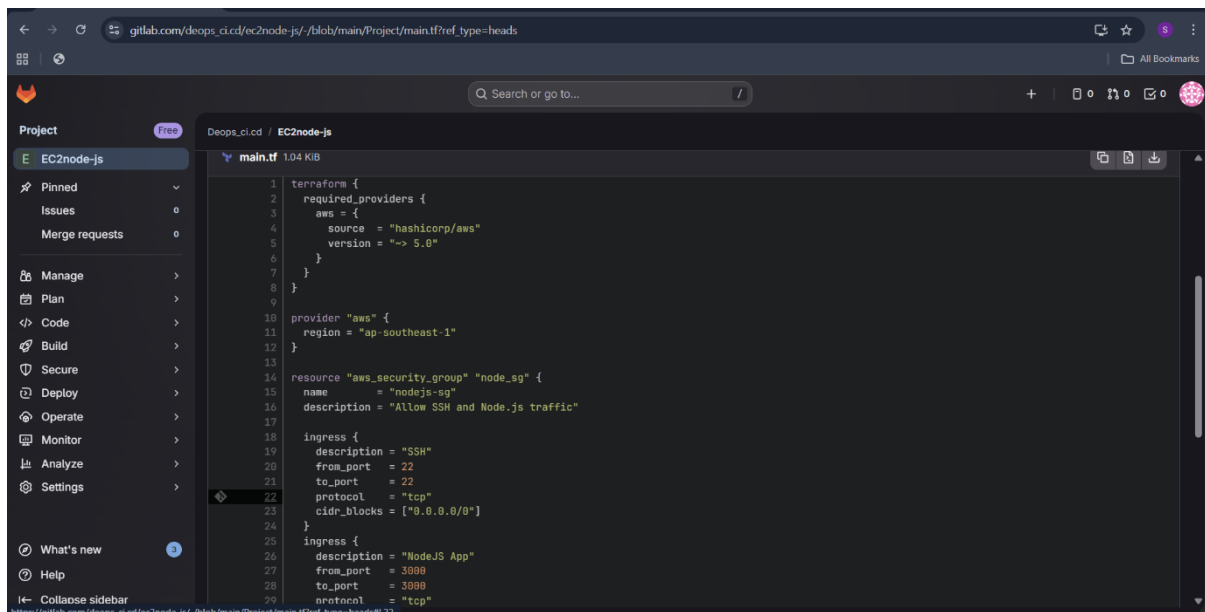


Task-18

Deploy the Node js hands on - in the EC2

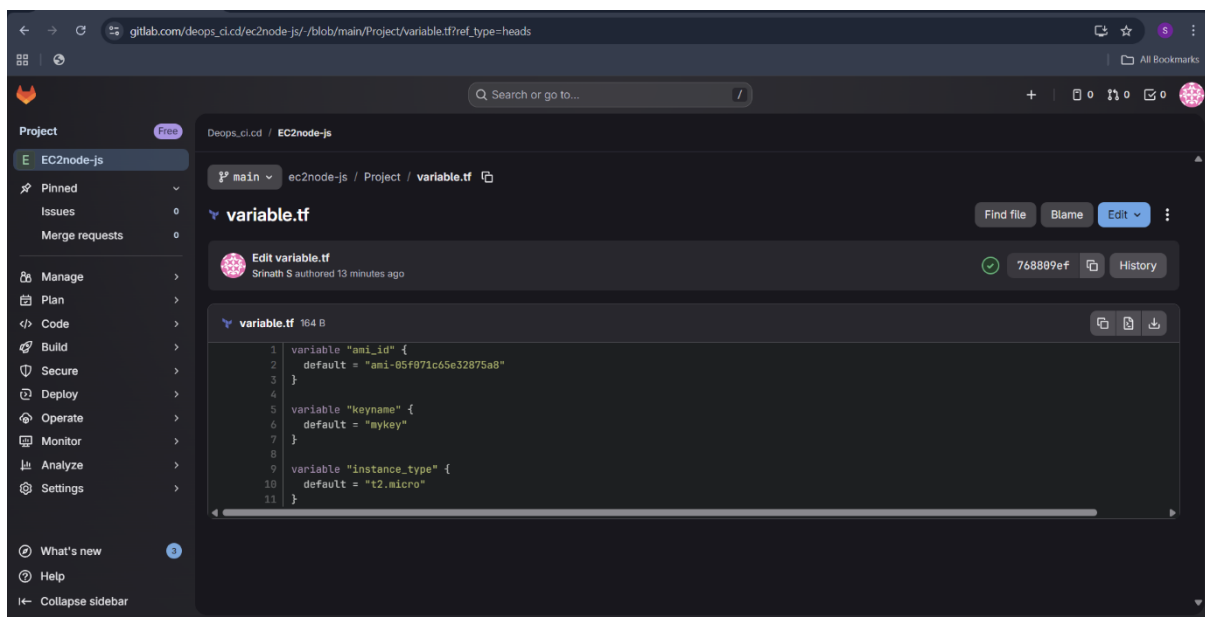
Create main.tf in Gitlab:



The screenshot shows the GitLab web interface for a project named 'Deops_ci.cd / EC2node-js'. The file 'main.tf' is selected, showing its content in a dark-themed editor. The file is 1.04 KIB in size. The content is a Terraform configuration for an AWS EC2 instance with an associated security group.

```
1 terraform {
2   required_providers {
3     aws = {
4       source = "hashicorp/aws"
5       version = "~> 5.0"
6     }
7   }
8 }
9
10 provider "aws" {
11   region = "ap-southeast-1"
12 }
13
14 resource "aws_security_group" "node_sg" {
15   name        = "nodejs-sg"
16   description = "Allow SSH and Node.js traffic"
17
18   ingress {
19     description = "SSH"
20     from_port   = 22
21     to_port     = 22
22     protocol    = "tcp"
23     cidr_blocks = ["0.0.0.0/0"]
24   }
25
26   ingress {
27     description = "NodeJS App"
28     from_port   = 3000
29     to_port     = 3000
30     protocol    = "tcp"
31   }
32 }
```

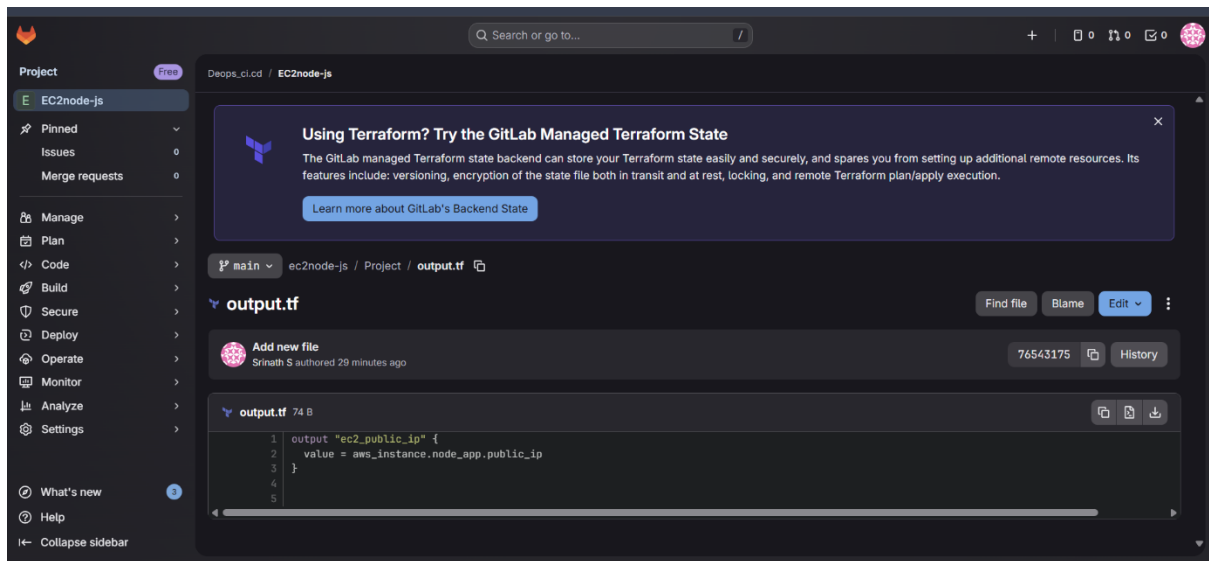
Create Variable.tf file:



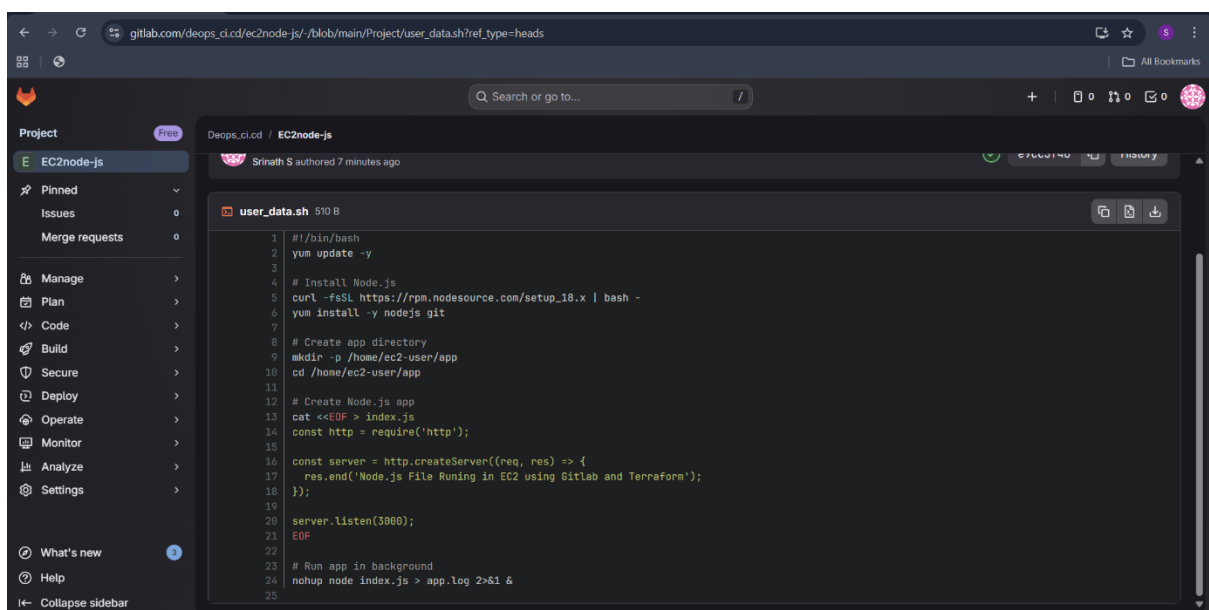
The screenshot shows the GitLab web interface for the same project, now displaying the 'variable.tf' file. The file is 164 B in size. The content defines three variables: 'ami_id', 'keyname', and 'instance_type'.

```
1 variable "ami_id" {
2   default = "ami-05f071c05e32875a8"
3 }
4
5 variable "keyname" {
6   default = "mykey"
7 }
8
9 variable "instance_type" {
10  default = "t2.micro"
11 }
```

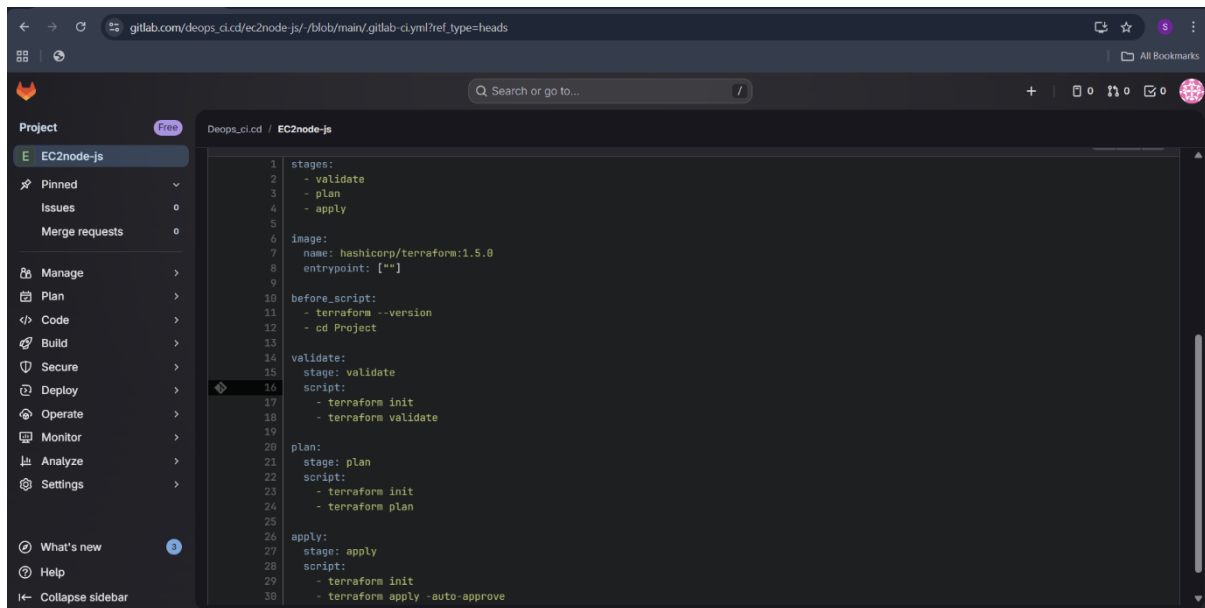
Create output.tf file:



Create user data File:



Create .gitlab-ci.yml file:



Code:

stages:

- validate
- plan
- apply

image:

name: hashicorp/terraform:1.5.0
entrypoint: [""]

before_script:

- terraform --version
- cd Project

validate:

stage: validate

script:

- terraform init
- terraform validate

plan:

stage: plan

script:

- terraform init
- terraform plan

apply:

stage: apply

script:

- terraform init
- terraform apply -auto-approve

Output:

