

Terraform Part1

The screenshot shows the Visual Studio Code interface with the following details:

- File Menu:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Explorer Bar:** Shows icons for Document, Search, Open, Refresh, and Help.
- File Explorer:** Lists the project structure:
 - TERRAFORM:**
 - .terraform
 - Backend:** addData.py, app.py, data.txt, getData.py, requirements.txt
 - Frontend:** views, app.js, package-lock.json, package.json, .terraform.lock.hcl, ~\$part 1.docx, main.tf, outputs.tf, part 1.docx, provider.tf, terraform.tfstate, terraform.tfstate.backup, text, variable.tf
- Code Editor:** A file named "provider.tf" is open, showing its content (lines 1-8).
- Terminal:** Not visible in the screenshot.
- Problems:** No problems are listed.

Folder/file structure of project

After Created and configure all necessary file
initiate and apply terraform

1. terraform init

2. terraform apply -var="key_name=flask-node" -
var="private_key_path=F:/vmpractice/flask-node.pem"
key name and path not hardcoded in code

The screenshot shows the AWS EC2 Resources page. On the left, there's a sidebar with navigation links like DashBoard, Events, Instances, Images, and Elastic Block Store. The main area displays a summary of resources in the Asia Pacific (Mumbai) Region:

Instances (running)	1	Auto Scaling Groups	0
Dedicated Hosts	0	Elastic IPs	0
Key pairs	2	Load balancers	0
Security groups	2	Snapshots	0
Instances	2	Volumes	1

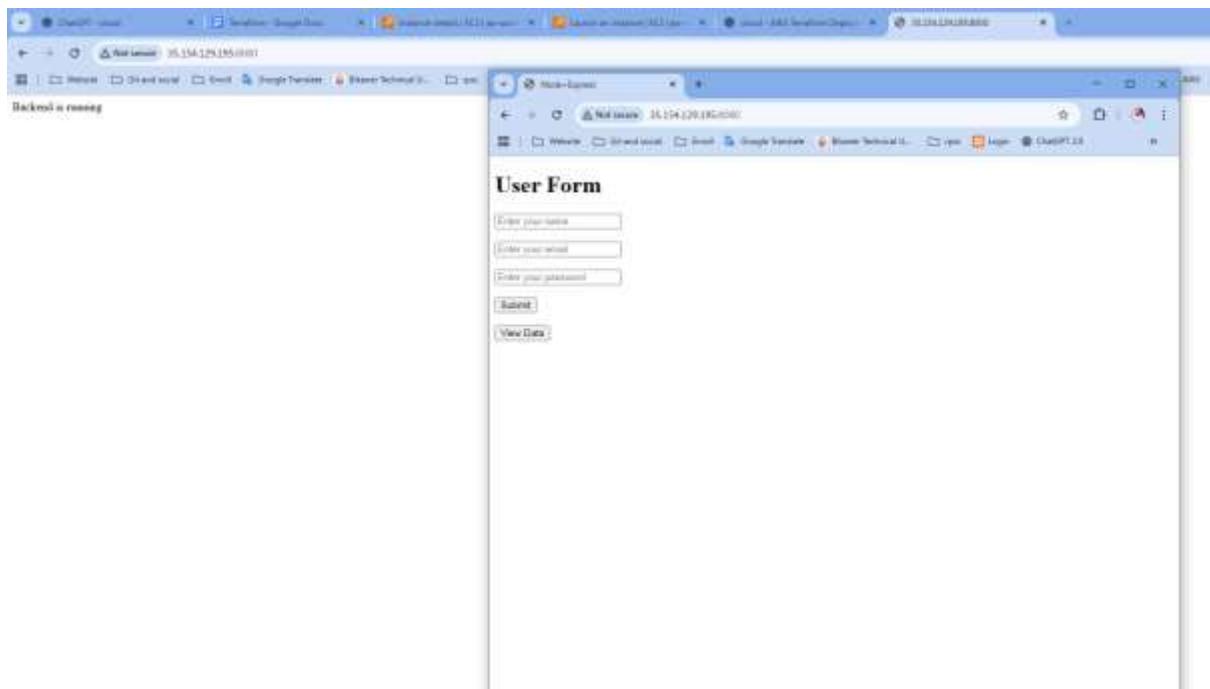
Below this, there's a "Launch instance" section with a "Launch Instance" button and a "Migrate a server" link. A note says "Note: Your instances will launch in the Asia Pacific (Mumbai) Region". To the right, there's a "Service health" section showing "Region: Asia Pacific (Mumbai)" and "Status: This service is operating normally". Finally, there's a "Zones" section listing three zones: ap-south-1a, ap-south-1b, and ap-south-1c, each associated with a specific zone ID.

it create and start ec2 instance

The screenshot shows the AWS EC2 Instance Details page for an instance named "flask-node-1". The top bar includes tabs for "Details", "Status and alarms", "Monitoring", "Security" (which is selected), "Networking", "Storage", and "Tags". The "Security" tab shows the "Security details" section with an IAM Role dropdown and a "Security groups" section containing "flask-express-eg1". Below this is the "Inbound rules" section, which lists three rules:

Name	Security group rule ID	Port range	Protocol	Source	Security group	Description
-	sg-0d51612406552780	8080	TCP	0.0.0.0/0	flask-express-eg1	-
-	sg-0770140e6358b448	22	TCP	0.0.0.0/0	flask-express-eg1	-
-	sg-08877d14358c26272	8080	TCP	0.0.0.0/0	flask-express-eg1	-

All ingress/inbound security group added



Both services run fine

IT move/ copy whole source code from local to remote/EC2 .

