Steps to Deploy ELB using Terraform

This project provisions an AWS Classic Load Balancer and spins up EC2 instances behind it. You can see traffic being distributed across the instances through ELB.

Step 0: Review the Project:

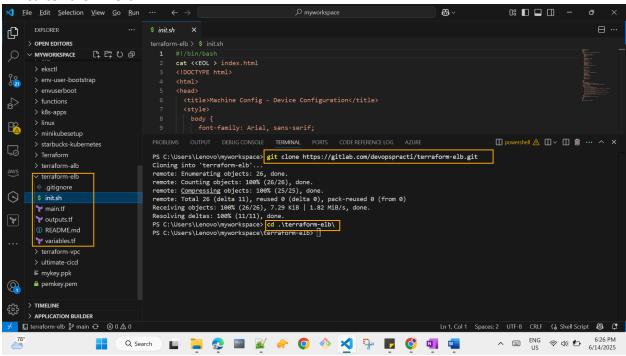
Go to: https://gitlab.com/shankar-k/terraform-elb

Understand the structure:

- main.tf provisions the ELB and EC2 instances
- variables.tf declares reusable inputs
- outputs.tf gives the ELB DNS for browser access

Step 1: Clone the Repository:

git https://gitlab.com/shankar-k/terraform-elb cd terraform-elb



Step 2: Initialize Terraform:

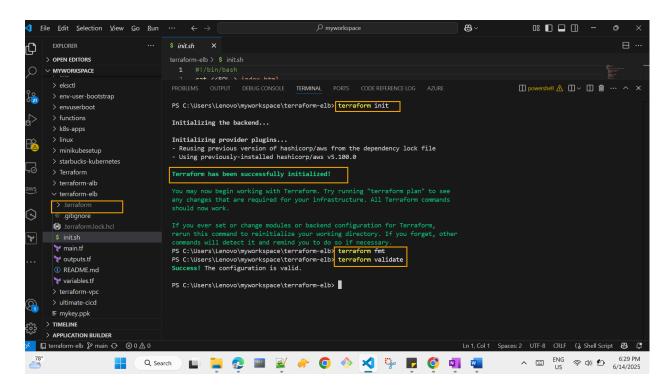
terraform init

This will initialize the backend and download required providers.

Step 3: Format and Validate:

terraform fmt terraform validate

fmt ensures your code is properly formatted. validate checks for configuration errors.

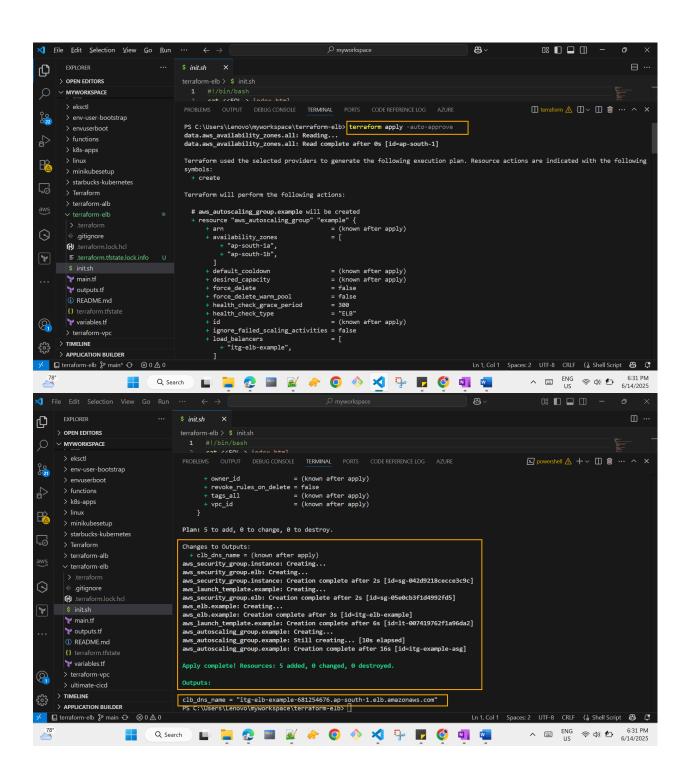


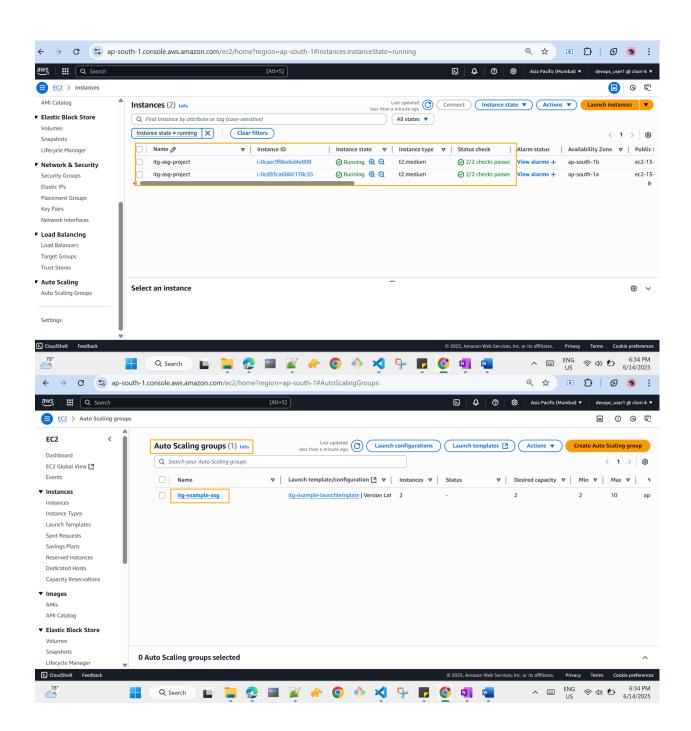
Step 4: Apply Terraform:

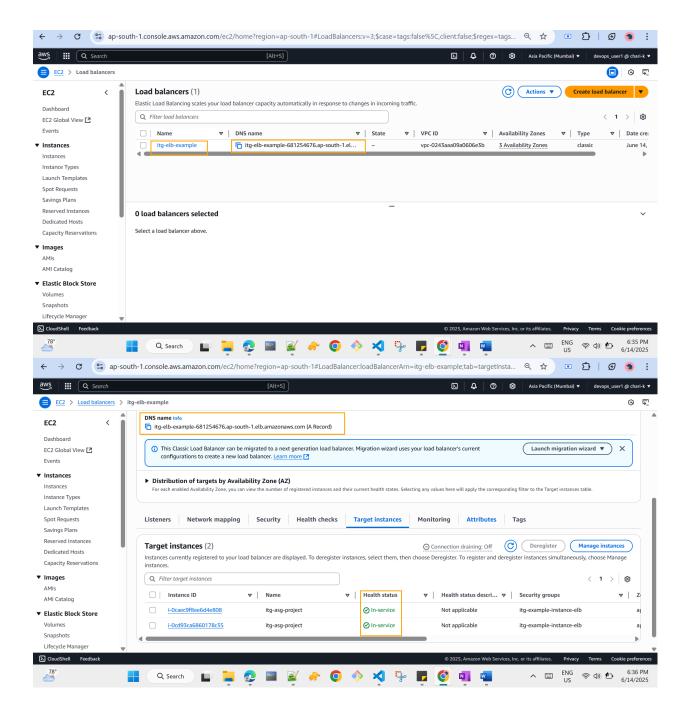
terraform apply -auto-approve

This command will:

- Create EC2 instances
- Launch a Classic Load Balancer (ELB)
- Attach the instances to the ELB







Step 5: Access the Application via ELB:

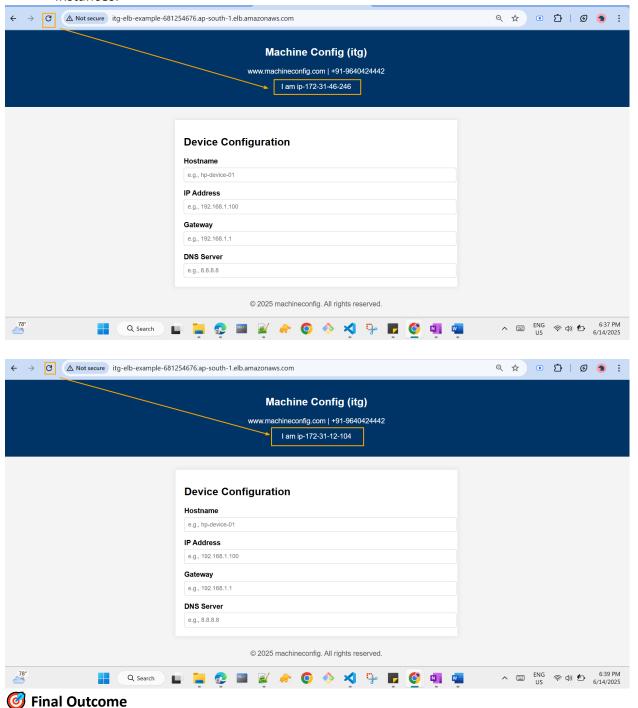
1. After apply completes, note the ELB DNS from the output:

Outputs:

elb_dns = "oneconfig-elb-example-90386787.ap-south-1.elb.amazonaws.com"

- 2. Open the DNS in your browser: http://itg-elb-example-681254676.ap-south-1.elb.amazonaws.com
- 3. Refresh the page multiple times to see the IP address change in the

browser. This shows the ELB load balancing traffic across multiple EC2 instances.



You've now:

- Deployed an ELB and EC2s using Terraform
- Verified load balancing in action
- Followed IaC best practices with validation and formatting