## FINAL PROJECT

**Basel Ashraf** 

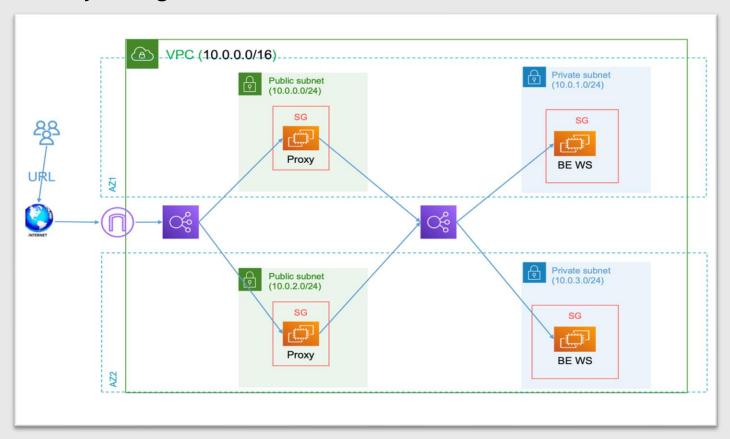
**Track: System Administration** 

Branch: Aswan

## GitHub repository link:

https://github.com/basellashraf/terraform-project

## **Project diagram:**

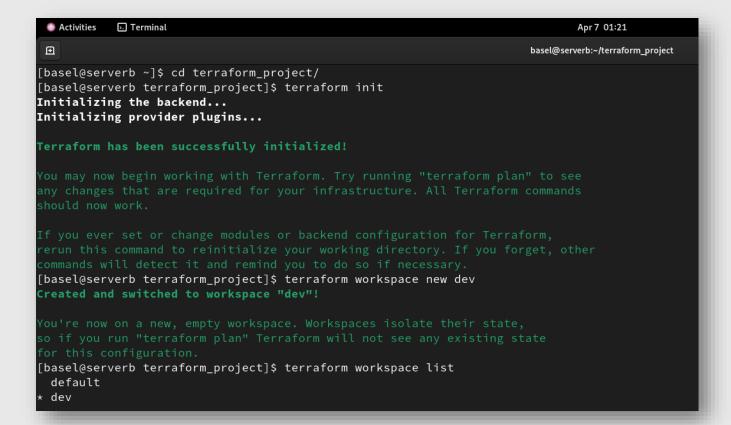


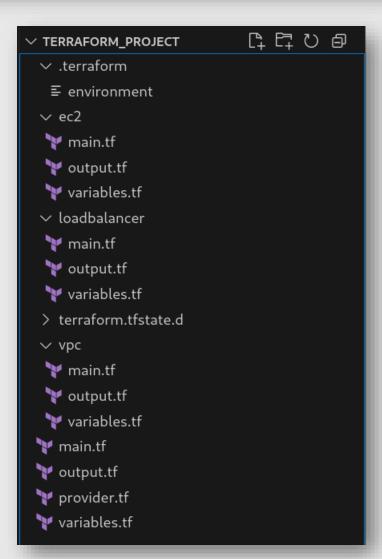
## **Project Requirements:**

- 1- Don't work on the default Workspace Create a new workspace called dev
- 2- Using customs not public modules to implement the diagram below
- 3- remote bucket for statefile
- 4- Use remote provisioner to install apache or proxy in machines then use local-exec to print all the ips to a file called all-ips.txt with format

public-ip1 1.1.1.1 public-ip2 2.2.2.2

- 5- Use the datasource to get the image id for ec2
- 6- The first Loadbalancer is public, and the other one that will send the traffic to the private machines will be private





```
[basel@serverb terraform_project]$ aws s3api create-bucket --bucket terraform-state-bucket-basel-20250407 --region us-east-1

"Location": "/terraform-state-bucket-basel-20250407"

[basel@serverb terraform_project]$ terraform init
Initializing the backend...

Do you want to migrate all workspaces to "s3"?

Both the existing "local" backend and the newly configured "s3" backend support workspaces. When migrating between backends, Terraform will copy all workspaces (with the same names). THIS WILL OVERWRITE any conflicting states in the destination.

Terraform initialization doesn't currently migrate only select workspaces.

If you want to migrate a select number of workspaces, you must manually pull and push those states.

If you answer "yes", Terraform will migrate all states. If you answer "no", Terraform will abort.

Enter a value: yes
```

Successfully configured the backend "s3"! Terraform will automatically use this backend unless the backend configuration changes.
Initializing modules...
Initializing provider plugins...
- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v5.94.1

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see any changes that are required for your infrastructure. All Terraform commands should now work.

If you ever set or change modules or backend configuration for Terraform, rerun this command to reinitialize your working directory. If you forget, other commands will detect it and remind you to do so if necessary.
[basel@serverb terraform\_project]\$

