**Traffic Flow**

**Technologies Used:**

IaaC – Terraform

Configuration Management – Ansible

Version Control – Git

Collaboration- Github

CI/CD Pipeline – Github Actions

**Description:**

There are 2 environments Prod and Staging

All the development/changes will be done in staging by all the collaborators.

Reviewer will review the changes and approve the pull requests.

Then reviewer will merge the code from Staging to Prod.

As per the CI/CD pipeline GitHub action will trigger 3 workflows namely

trivvy- Used to scan vulnerabilities in the code.

tfsec- Use to scan the terraform code for any syntax errors.

tfdeploy- Used to deploy the code using terraform.

**WorkFlow Triggers:**

tfsec and trivvy workflows will be triggered when there is a pull, push, and merge.

tfdeploy workflow will only be triggered when there is a merge confirm from staging to prod, this makes senses as we only want to deploy the code when there is an actual merging of code from staging to prod.

After the code has been deployed, we the then use ansible playbooks for configuration management.