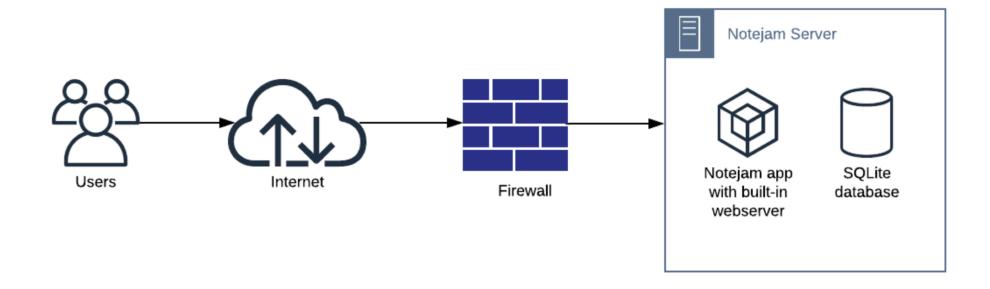
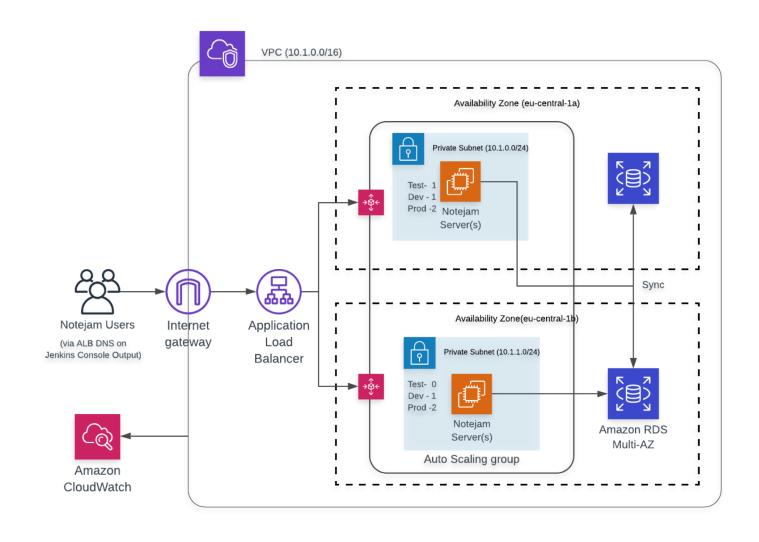
# Notejam Migration to AWS

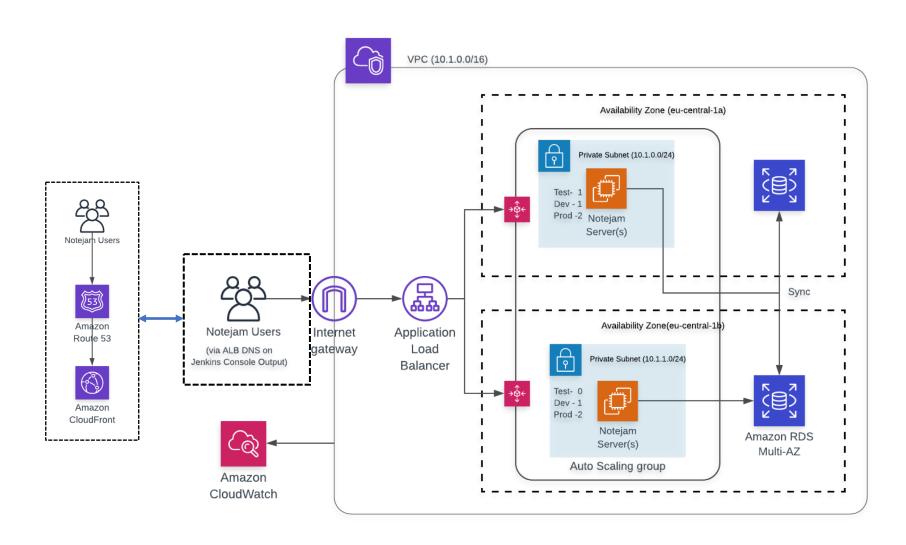
# Legacy Architecture



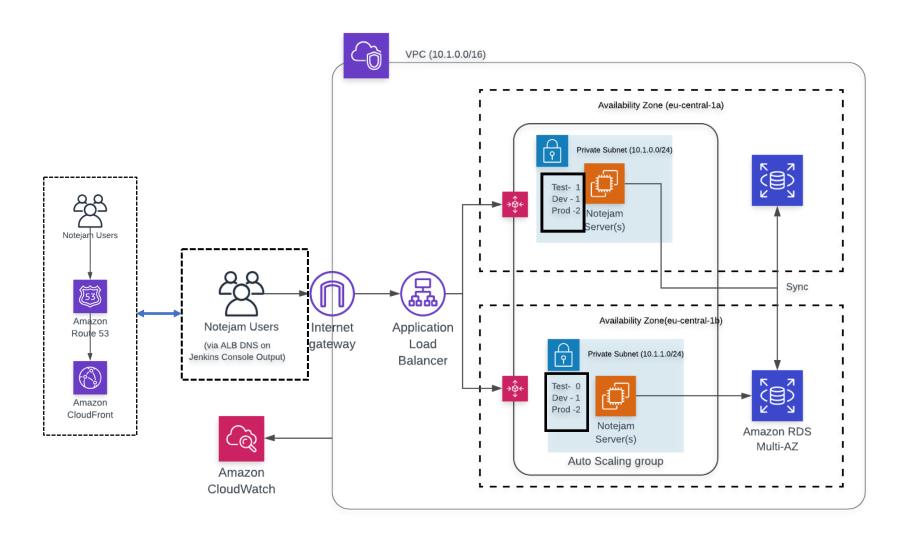
#### AWS Cloud architecture: General



#### AWS Cloud architecture: Domain Name



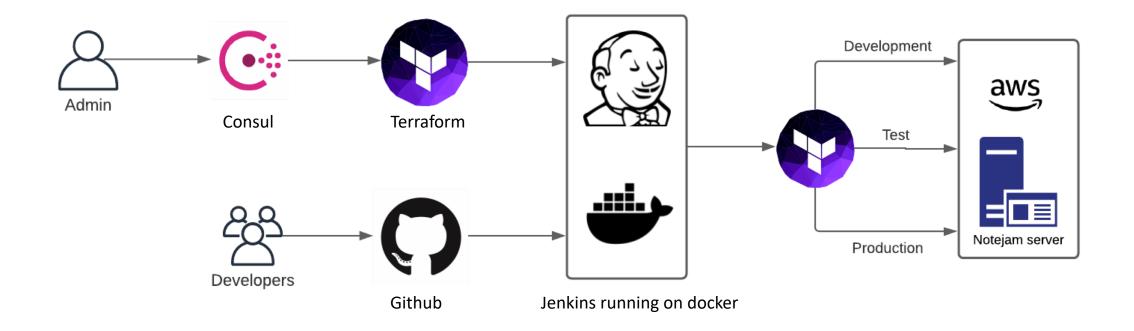
### AWS Cloud architecture: Test/Dev/Prod



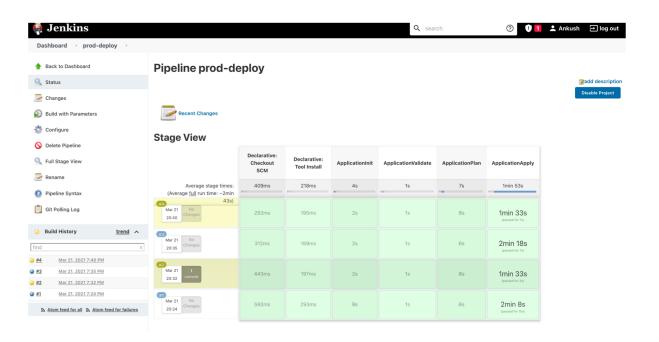
## Benefits over the legacy architecture

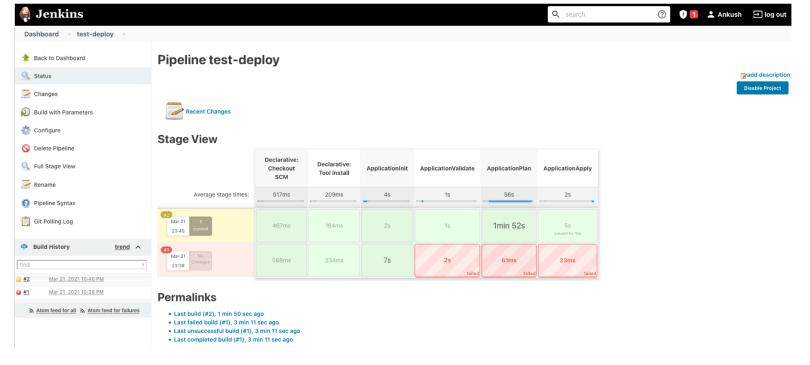
- Highly Available Scalable
- Reliable
- Secure
- Cost Optimized
- Automated Operations/Deployment

# CI/CD Pipeline (Implemented and Working!)



Github link: <a href="https://github.com/ankushbraj/Ntjm-deployment">https://github.com/ankushbraj/Ntjm-deployment</a>





#### Usage:

- Clone repo on local computer (Mac or Linux)
- Make sure Terraform, Consul and Docker is pre-installed
- Consul Setup:
  - Go to Consul folder and mkdir data
  - Launch consul server instance and Run Consul in the background
    - consul agent -bootstrap -config-file="config/consul-config.hcl" -bind="127.0.0.1"
  - Open a new terminal and go again to consul folder
    - Generate bootstrap token: consul acl bootstrap
    - Export token: export CONSUL\_HTTP\_TOKEN=TokenID
    - Run Terraform commands
      - terraform init
      - terraform plan -out consul.tfplan
      - terraform apply consul.tfplan

## Jenkins setup

- Create three tokens for Dev, test and prod
  - consul acl token create -policy-name=development -description="Jenkins development"
  - 2. consul acl token create -policy-name=test -description="Jenkins test"
  - 3. consul acl token create -policy-name= production -description="Jenkins production"
- Create a Jenkins Container
  - docker pull jenkins/jenkins:lts
  - docker run -p 8080:8080 -p 50000:50000 -d -v jenkins\_home:/var/jenkins\_home --name jenkins jenkins/jenkins:lts
  - docker logs jenkins
  - Copy the admin password to <a href="http://127.0.0.1:8080">http://127.0.0.1:8080</a>
- Rest is to install Terraform plugin, setup Jenkins with Rep Url, link Jenkins file and pass the 3 Jenkins token, AWS creds in the global creds and you should be good to go! ©
- Uncheck lightweight checkout, Caused a ton of problems!!! :D
- Check out Console output of Jenkins to get the DNS for the provisioned infrastructure!
- You can destroy the provisioned infrastructure by clicking abort in final Jenkins stage!