

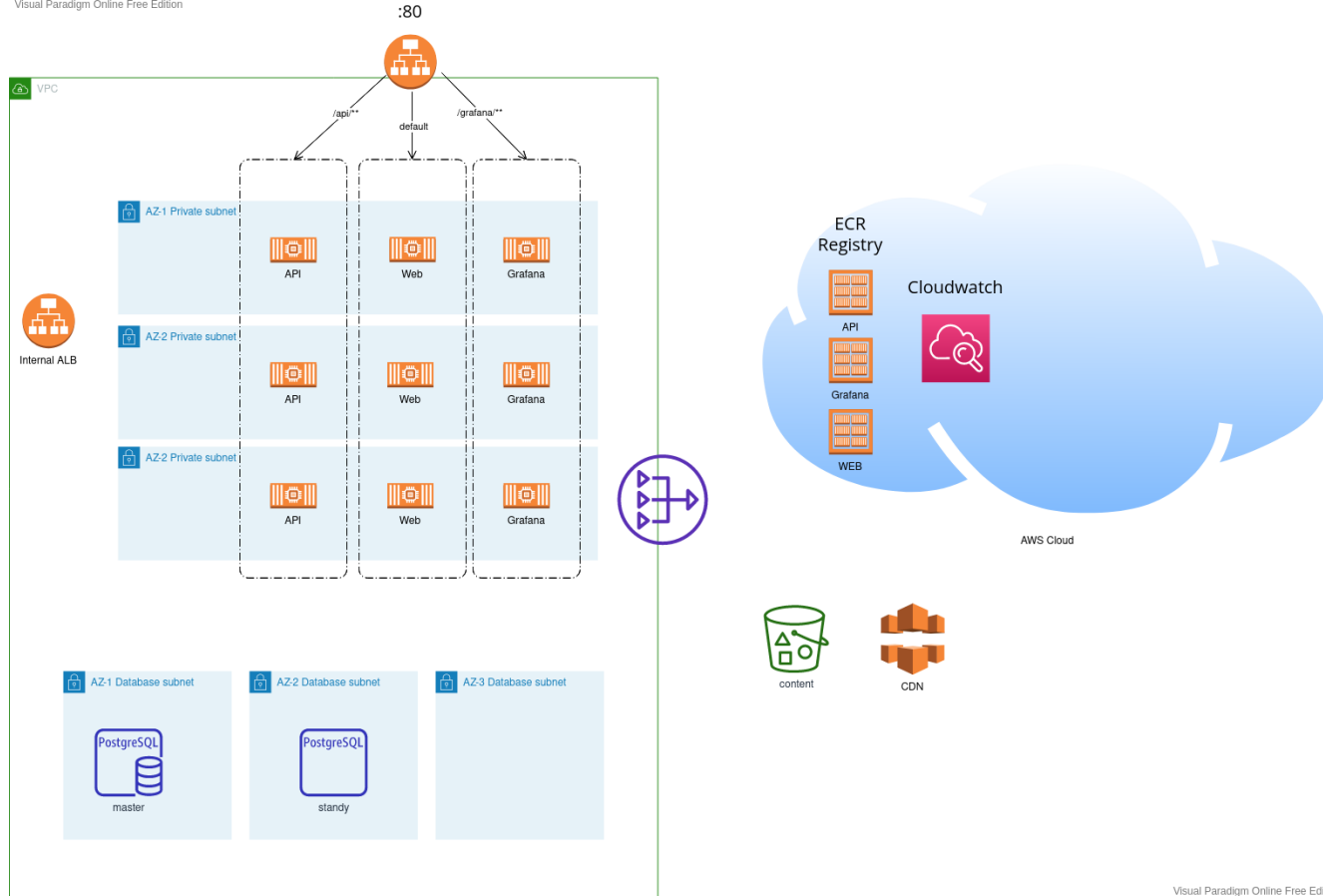
Devops

3 tier app project



Architecture

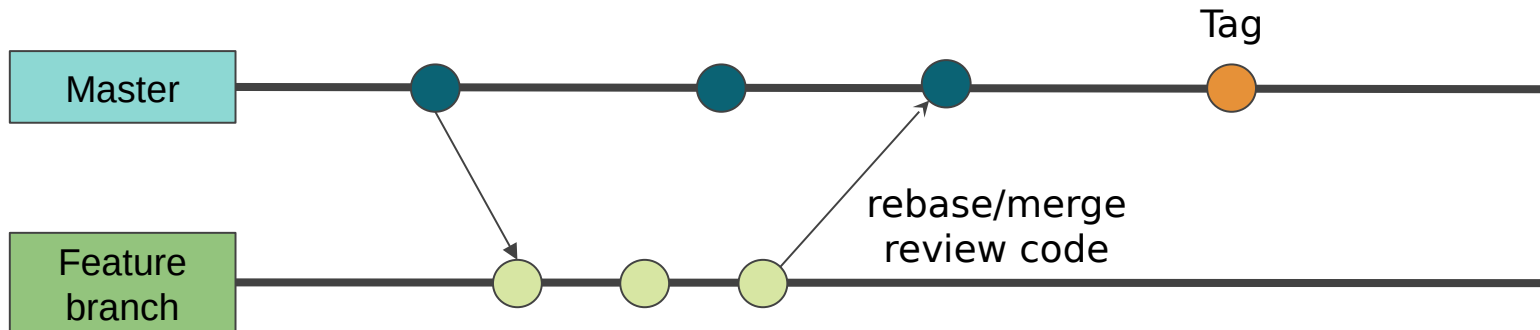
Visual Paradigm Online Free Edition



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GIT Workflow



- Commits in master are deployed in **DEVELOPMENT**
- Tags are deployed in **STAGING**

QA validated tags in staging are deployed to **PRODUCTION**



Next steps: Domain/HTTPS

- Use Custom DNS domain
 - each env own domain
 - prod: *.mydomain.com/mydomain.com
 - stg: *.stg.mydomain.com/stg.mydomain.com
 - dev: *.dev.mydomain.com/dev.mydomain.com
 - specific domain for api component
 - api.dev.mydomain
- Create certificates from a well-known authorities, maybe use Let's encrypt



Next steps: CI/CD

- Split pipeline in different github actions jobs
- Create staging/production environments
- Deploy feature branches of WEB component in custom DNS domain for testing
 - feature-add-dog-gif.dev.mydomain.com
- Add VPC private endpoint to ECR



Next steps: CDN

- Implement a cache expiration strategy. Different options to discuss depending on the use case:
 - Force distribution invalidation
 - Use different filename on each deployment
- Use custom cdn DNS domain, something like `cdn.myapp.com` using Route 53 alias.



Next steps: Database

- Evaluate and implement Point in time restore.
- RDS AWS private link



Next steps: Monitoring

- Move Grafana to its management VPC
- Specific domain for api component
 - grafana.mydomain
- Only allow certain IPs access to monitoring VPC
- Add alarms to detect problems in real time