

DevOps requirements

- Tech choices

- ☐ Most backend will be written in golang
- ☐ AI will be written in python
- ☐ Frontend will be written in React and Typescript
- ☐ Use Google Cloud (GCP) as the cloud provider
- ☐ Microservices
- ☐ K8 clusters (not GCP Cloud Run)
- ☐ Mongo DB

- Build

- ☐ Build binaries using Bazel
- ☐ Build docker containers using Bazel
- ☐ Build Unit Tests using Bazel

- Testing

- ☐ Unit Testing for each micro-service/binary on developer local machine
- ☐ Unit Testing on every checkin (into any code-branch)
- ☐ Unit Testing on every checkin (into main code-branch)
- ☐ Integration Testing on every checkin (into main code-branch)

- Code Review

- ☐ Code review before checkin is must. Rules can be setup on how many reviews are required.
- ☐ Code review can continue post checkin.
- ☐ A code review template that developers should fill. The same data then goes into the actual checkin. Example fields:-
 - ☐ Jira item against which checkin is made
 - ☐ Root cause
 - ☐ Fix made
 - ☐ Risks and mitigations
 - ☐ Testing done
 - ☐ Further testing suggested

- Code-Branch strategy

- ☐ What code-branch is each developer using?
- ☐ What code-branch is each each team using?
- ☐ Main branch
- ☐ Staging/Pre-Prod branch
- ☐ Prod branch

- Environments

- ☐ QA environment
- ☐ Pre-prod environment
- ☐ Prod environment
- ☐ The Prod environment might be replicated in multiple geographies/regions (for customers in different regions)
- ☐ The Prod environment might need a failover (in case of one env failure, traffic, compute and storage should divert to another region)

- Deployment

- ☐ Canary in pre-prod and prod environment
- ☐ Feature flags (through Harness?)
- ☐ Rollback in deployment at feature level and bits level