

Recap

- 1) User engagement → Personalized → Content Based
- 2) User retention → Diverse → Collaborative filtering based

Combine → weighted approach → Hybrid Recommender system.

Phases

- Phase I → Only content based
- Phase II → Only CF
- Phase III → Hybrid system.

- 1) Cold Start
↓
Content Based
- 2) Dynamic weights
↓
Diversity slider

Deployment

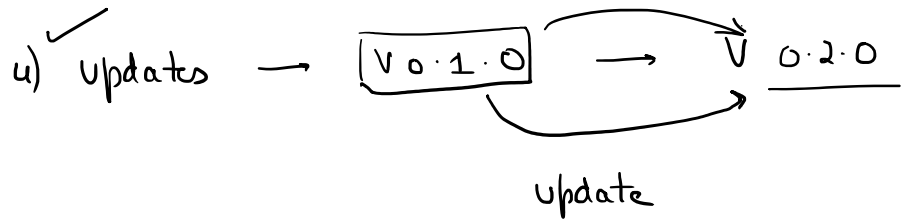
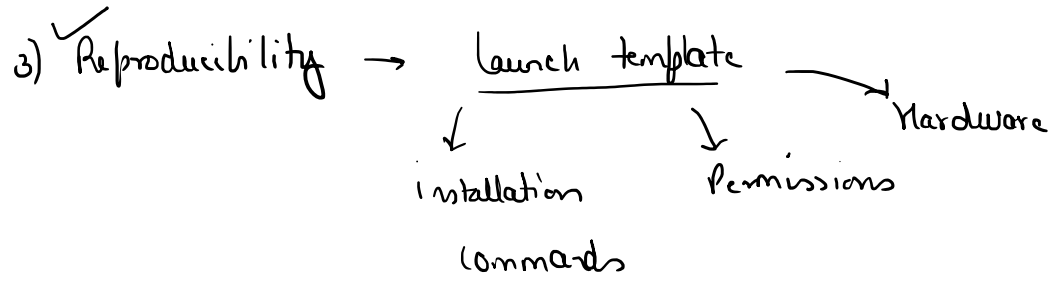
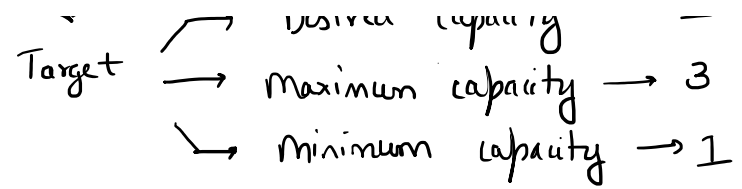
- CI Pipeline → Testing on a Github runner ✓
- Dockerize, CD Pipeline → Image, Container Run,
Push the image to ECR,
Pull image and run on local.
- Deployment on a single
EC2 → manual deployment

EC2 → Docker, AWS CLI, permissions
↓
Run
↓
ECR

Deployment → 1) Manual → Automate.

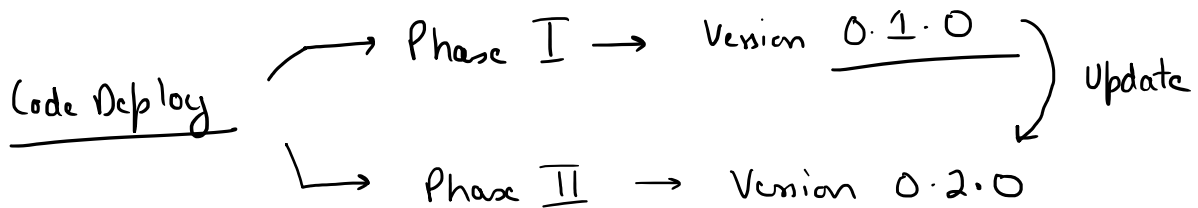
2) Scaling → Auto Scaling Group

↓
Target → Desired capacity → 1
→ Maximum capacity → 3

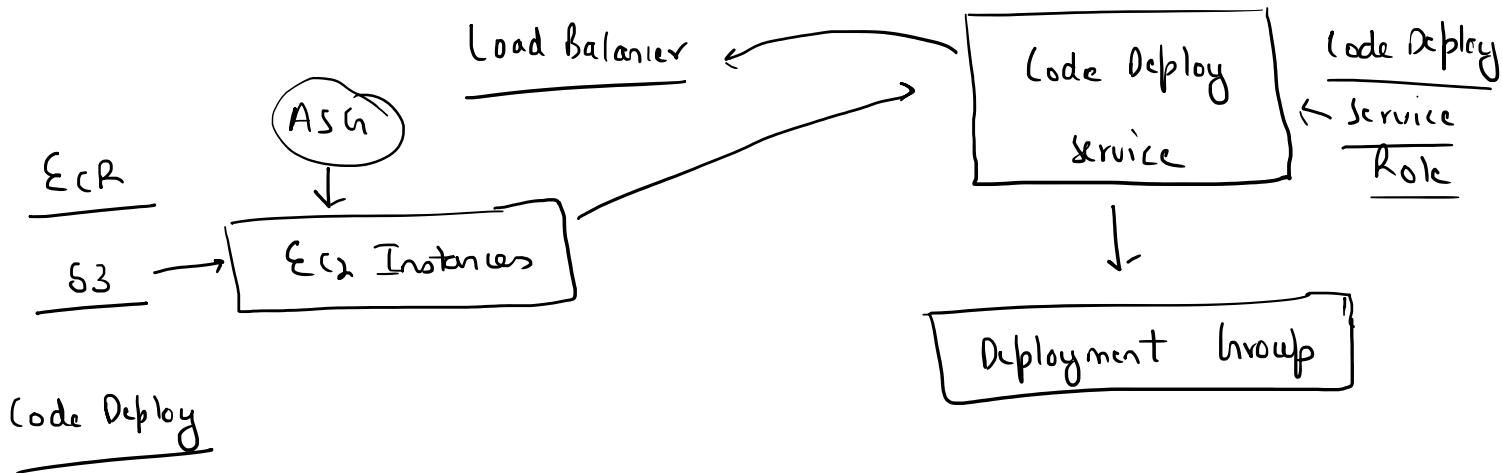
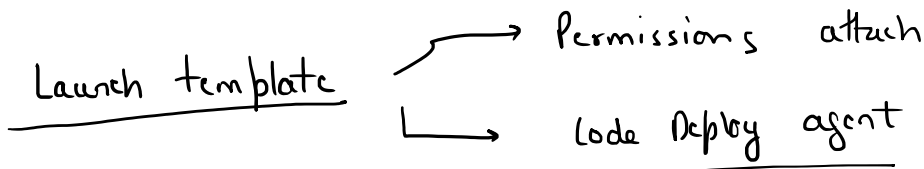
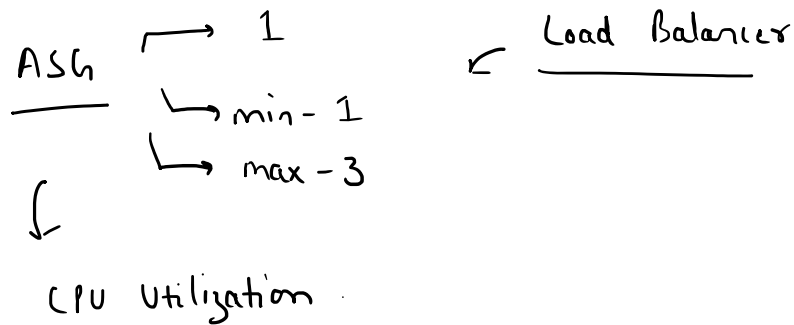


downtime, errors, bugs

Rollback capabilities



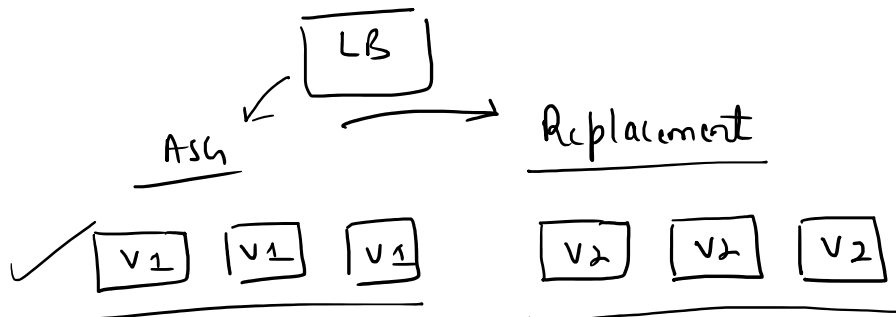
Phase 1 Flow



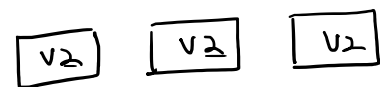
✓ Blue / Green Deployment

Original Env → Blue

Replacement Env → Green



Rolling update

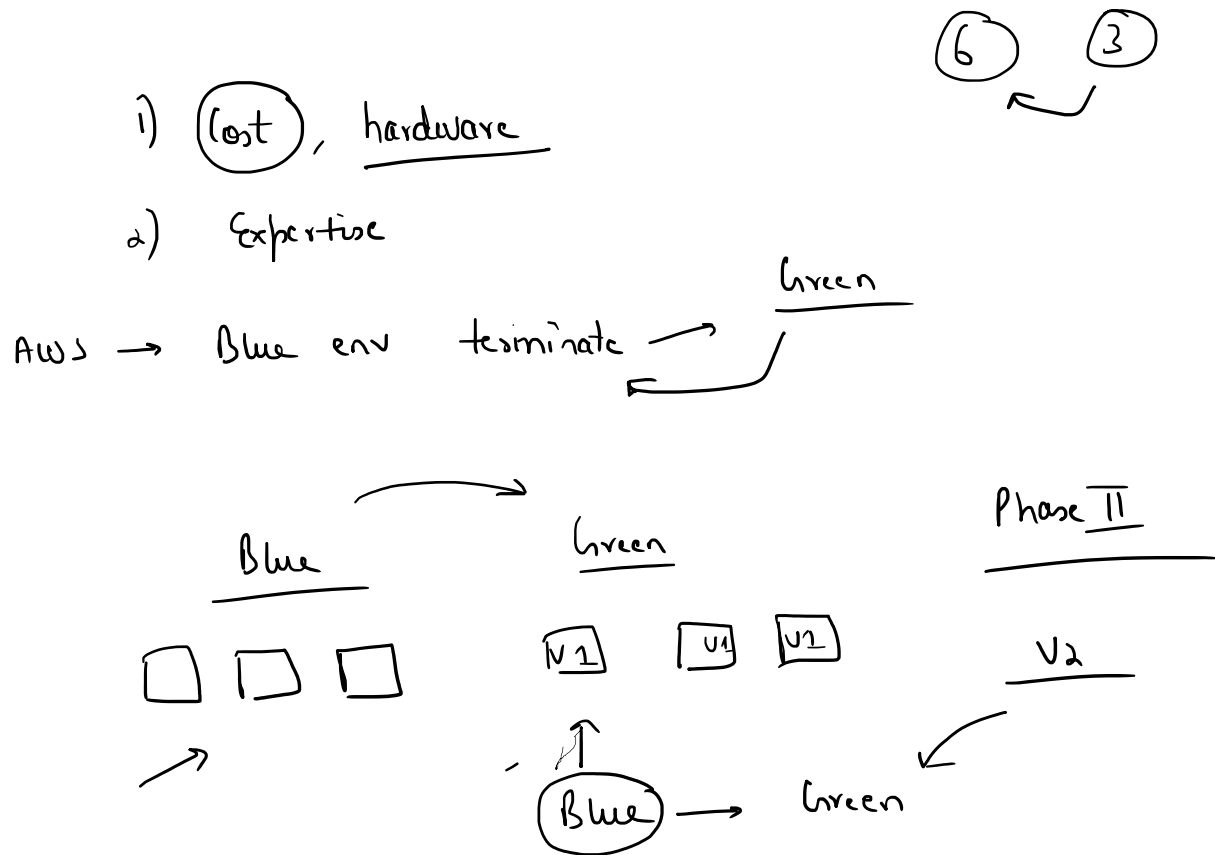


old version
new version

1) Errors

3) Production Ready

- 1) Errors
- 2) Roll Back ✓
- 3) Production Ready
- 4) No Downtime



Phase 2 Flow

ASG \rightarrow Desired - 1
Minimum - 1
Maximum - 3

