

Jenkins CI / CD Pipeline steps

For deploying lambda functions

git clone
npm build
code scan using sonarqube
lambda deploy (serverless deploy)

For deploying in K8

git clone
helm lint
docker build and push to ECR
Sonarq scan
k8 check deprecated api check using kubent
deploy
rollback to old if any issues

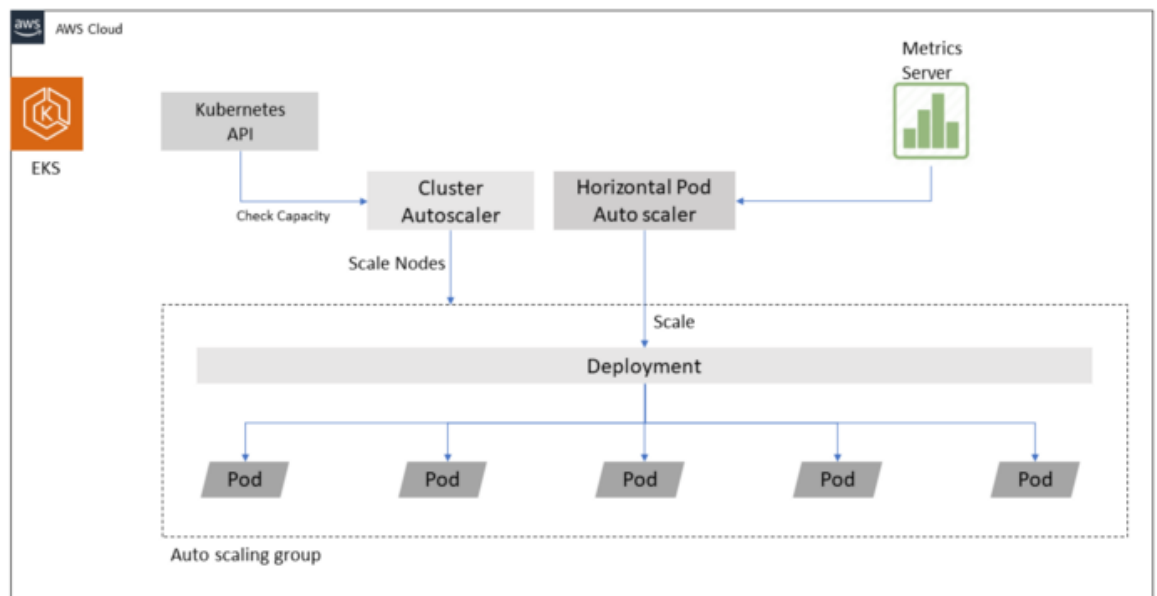
TF state files stored in each account s3

k8 default kube system

kube proxy - used for networking
core dns - used for service discovery - kubs dns server
aws node - allocates vpc ids to nodes and config required for networking for pods

For cluster(node) and pod autoscaling

- Cluster autoscaler
- Metrics server
- HPA (horizontal pod autoscaler)
- Termination Handler



waf - rules

ratelimit

bad ip range

allow particular ip

Additional rules can be added from rules group if required

EKS node groups

Name space - stage-cotlr, qa-cotlr

app nodes - min 1, max 2 , t3.medium

critical node - min 1, max 2, t3.medium

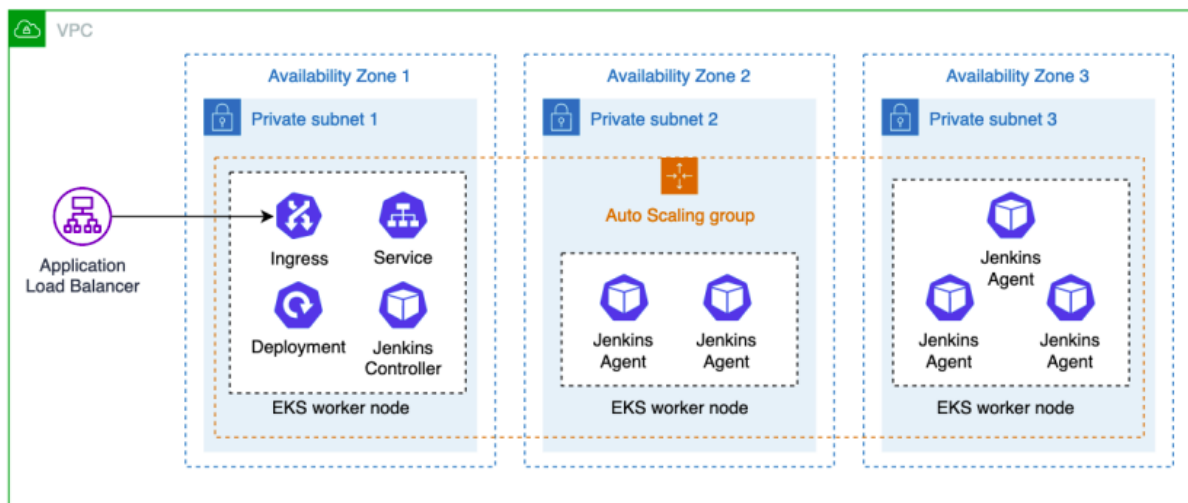
Namespace - prod-cotlr

app nodes - min 2, max 4 , t3.medium

critical node - min 2, max 3, t3.medium

Jenkins - will be deployed in EKS

Node group - min 1, max 2, t3a.xlarge



Mongodb Atlas cluster will be used in COTLR production

- COTLR Main account
- Security - audit@cotlr.com
- Log - log@cotlr.com
- Shared - shared@cotlr.com
- QA - qa@cotlr.com
- Stage - stage@cotlr.com
- Prod - prod@cotlr.com

We'll prepare groups, permission sets and add users