SRE

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In business, organizational silos refer to business divisions that operate independently and avoid sharing information. It also refers to businesses whose departments have silo' system applications, in which information cannot be shared because of system limitations.
Sre promotes shared ownership removing the silos

Mission of sre is to focus on consistent availablity,latency,performance,capacity

Components if a postmortem:
- Details of the incident and its timeline
- The actions taken to mitigate or resolve the incident
- The incident's impact
- Its trigger and root cause or causes
- The followup actions to prevent its recurrrence

Blamelessness and psych safety
Sre is comfortabke with failure

CI(building,integrating,testing code within dev env)
CD(deploying to prod frequently or at the rate we choose)
CODE >> BUILD >> INTEGRATE >> TEST >> RELEASE >> DEPLOY >> OPERATE

Prototype to test failures or successes

Toil means manual repititive automatable tactical scales linearly as the service grows

We can use https://www.devops-research.com/quickcheck.html for implementing devops / sre culture

Organizations look for resilience(the capacity to recover quickly from difficulties) and flexibility in an sre

Google recommended sre team implementations:
- Kitchen sink(everytihjn gsre)
- Infrastructure
- Tools
- Product.app
- Embededded
- Consulting

Google loud professional services team will help you jumpstart culture in sre

BUILD

```
gcloud source repos create REPO_DEMO
git config --global user.email "you@example.com"
git config --global user.name "Your Name"
git add myfile.txt
git commit -m "First file using Cloud Source Repositories" myfile.txt

gcloud source repos list

gcloud container clusters create jenkins-cd \
--num-nodes 2 \
--machine-type n1-standard-2 \
--scopes "https://www.googleapis.com/auth/source.read_write,cloud-platform"
```

Helm is a package manager that makes it easy to configure and deploy Kubernetes applications.
```
helm repo add jenkins https://charts.jenkins.io
helm repo update
helm install cd jenkins/jenkins -f jenkins/values.yaml --wait

kubectl create clusterrolebinding jenkins-deploy --clusterrole=cluster-admin --
serviceaccount=default:cd-jenkins
```