DevOps Episodes - 01

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DevOps Episodes

Hello!

I am Prasanjit Singh

I am here because I love to learn & teach.

- AWS Community Builder
- Coursera Instructor
- Conference Speaker
- DevOps Practitioner
- Author

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DevOps Episodes

THE PLAN!

Episode 1

- DevOps Fundamentals
- CI + CD
- Containers
- DevOps on AWS
- Jenkins + Pipelines

Episode 2

- DevOps on AWS
- Code-Pipelines
- Code-Build
- Code-Deploy
- Orchestrators (ECS)

Episode 3

- IaC - Cloud Formation
- Ansible Basics
- Demo on Kubernetes
- Alerts
- Monitoring

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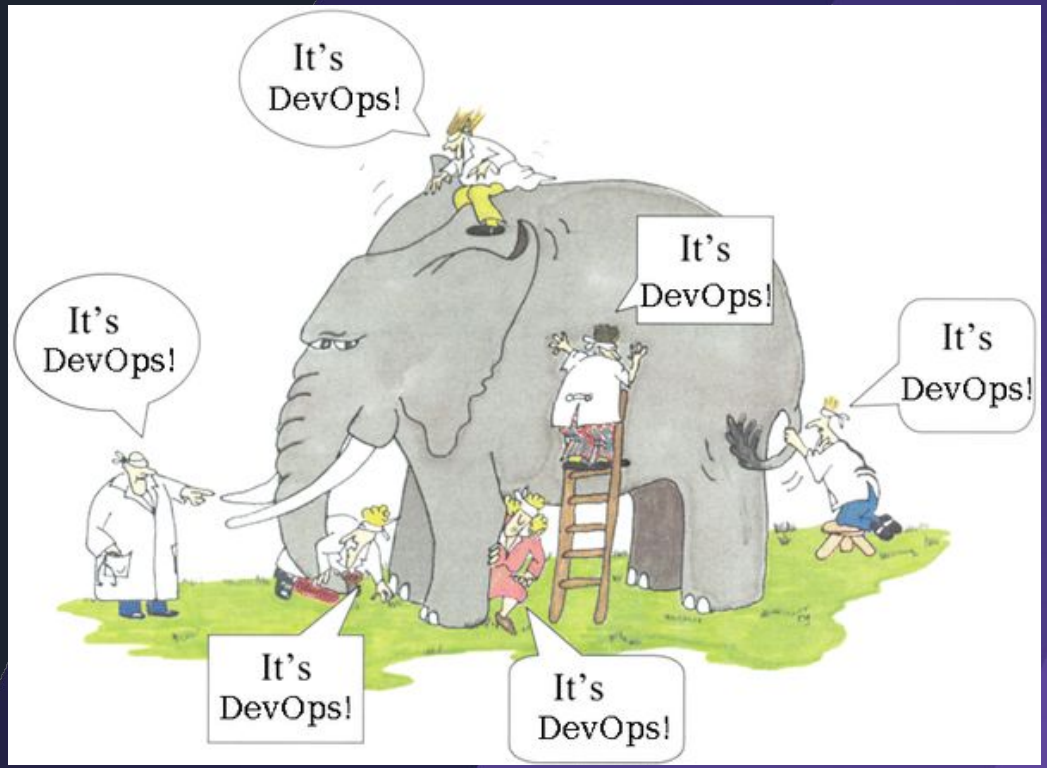
DevOps?


It's DevOps!
It's DevOps!
It's DevOps!
It's DevOps!
It's DevOps!
It's DevOps!

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DevOps?

DevOps is a full lifecycle investment

DevOps is a team undertaking

DevOps enables better software development & delivery practices

DevOps accelerates the last mile of continuous delivery

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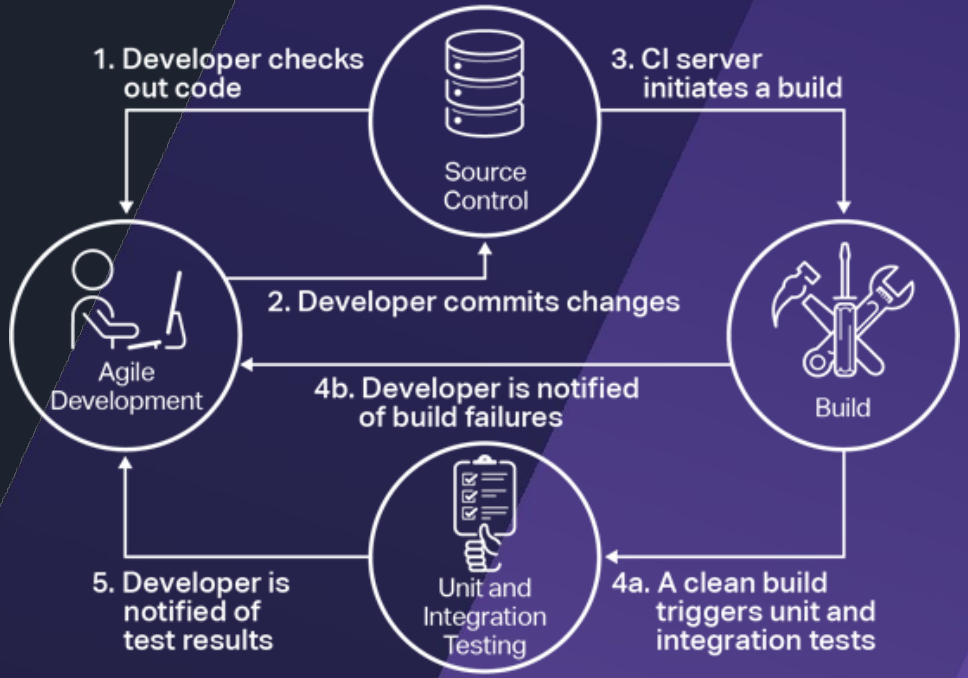
CI



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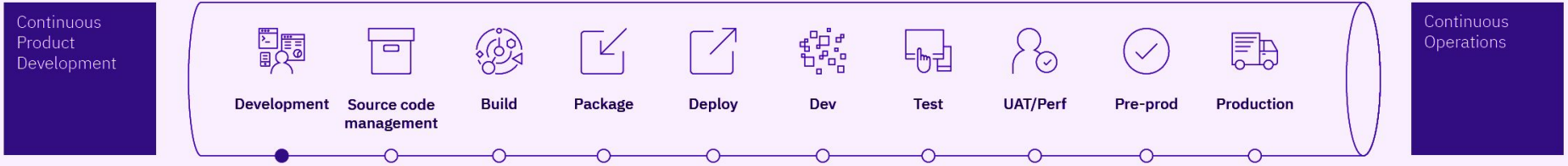
CD

Continuous Delivery Pipeline



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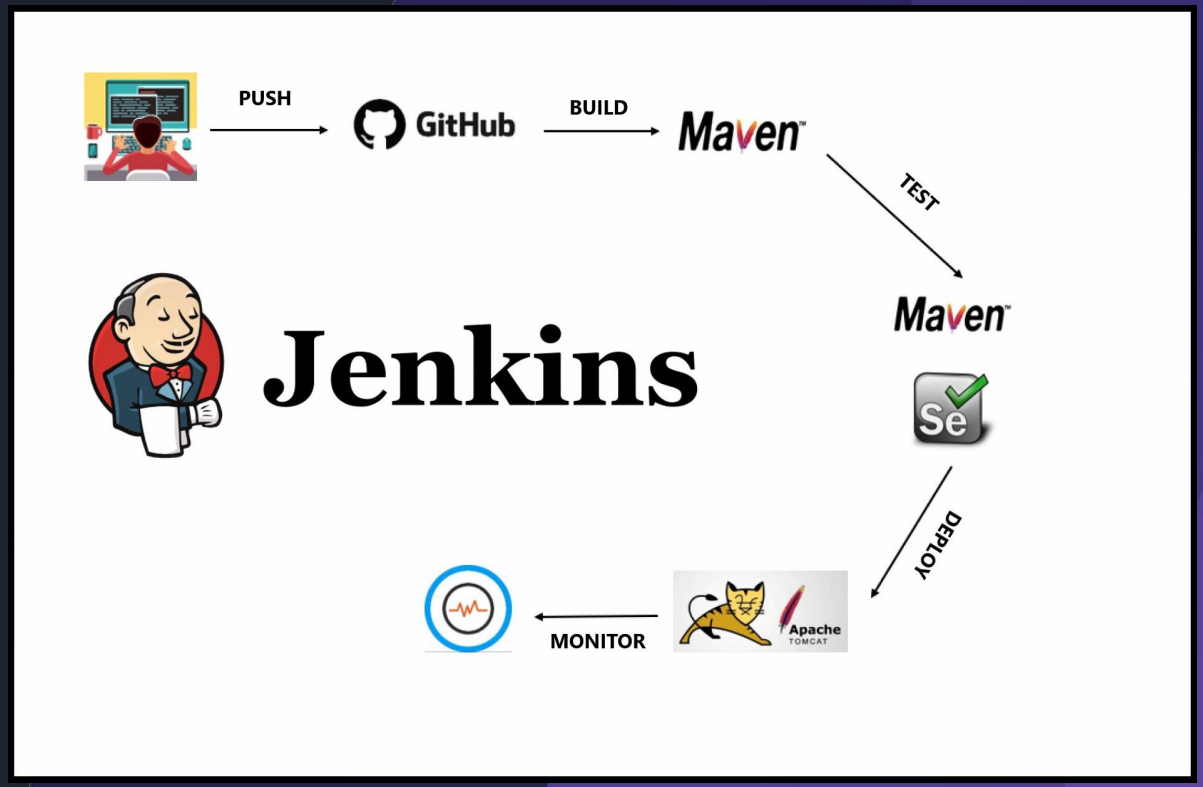
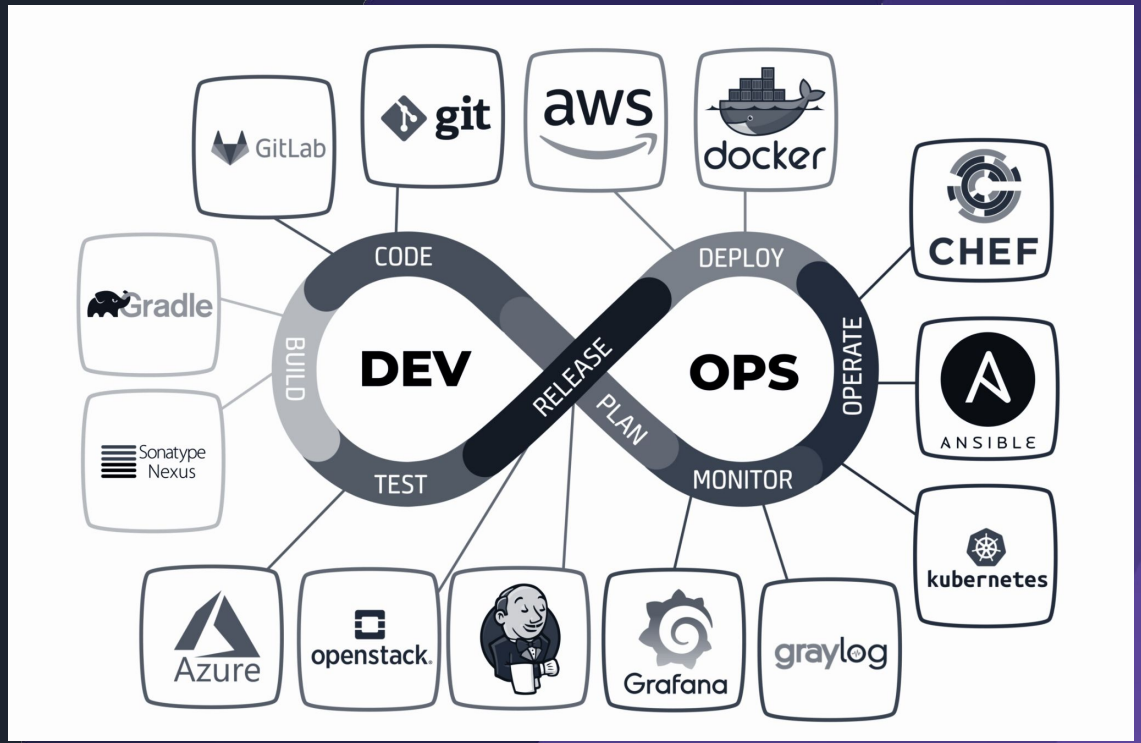
Jenkins


PUSH
GitHub
BUILD
Maven
TEST
Maven
Jenkins
DEPLOY
Apache
TOMCAT
MONITOR

DevOps Tools



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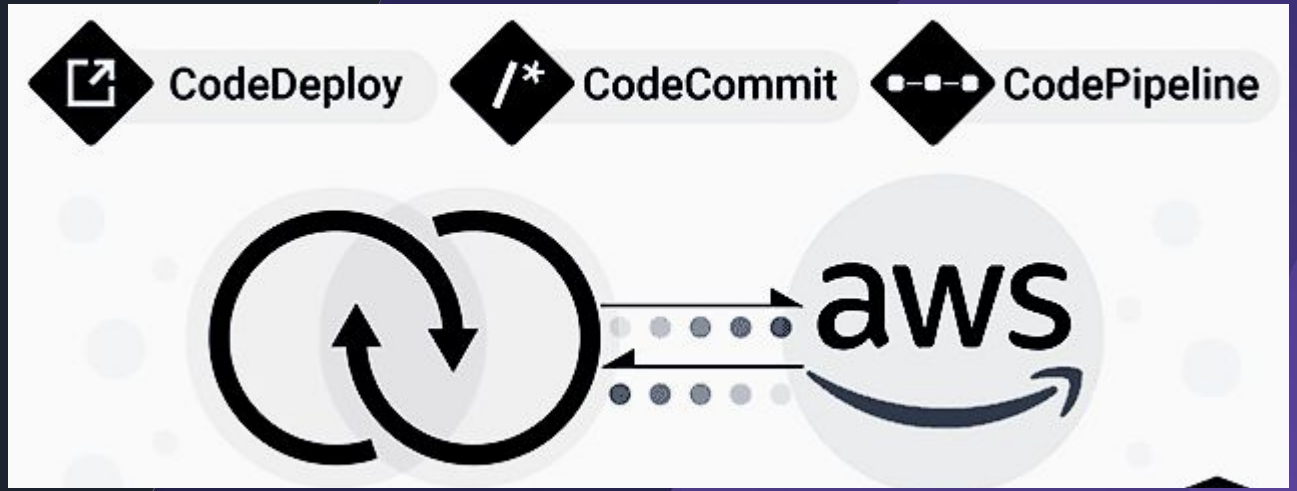
DevOps on AWS



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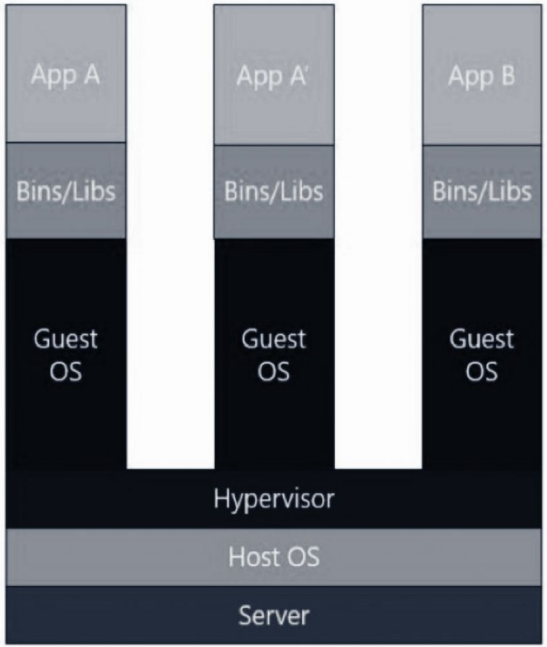
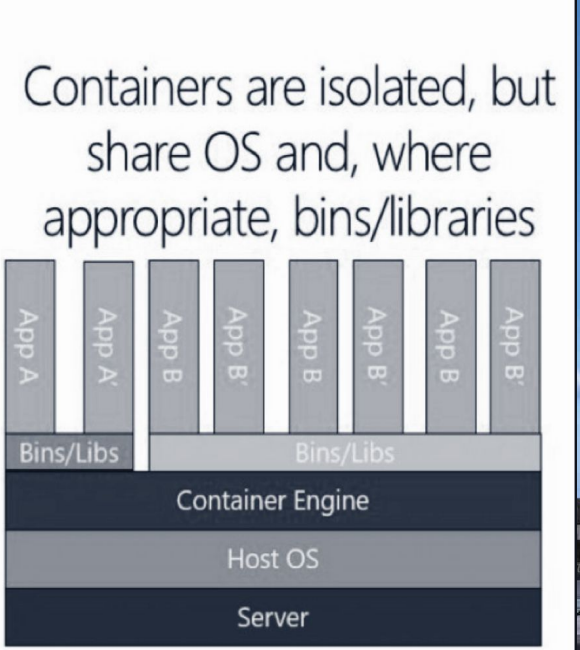
Containers


App A
App A'
App B
Bins/Libs
Bins/Libs
Bins/Libs
Guest OS
Guest OS
Guest OS
Hypervisor
Host OS
Server


Containers are isolated, but share OS and, where appropriate, bins/libraries
App A
App A'
App B
App B'
App B
App B'
App B
App B'
Bins/Libs
Bins/Libs
Container Engine
Host OS
Server

MAERSK
MAERSK

Hands ON !

- Playing around with Docker Containers
- Installing Jenkins
- Deploying a Python Flask App Using a Scripted CI/CD Pipeline

Thank You!

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