"Feature Flags and How They Enable Continuous Deployment - DevOps Concept

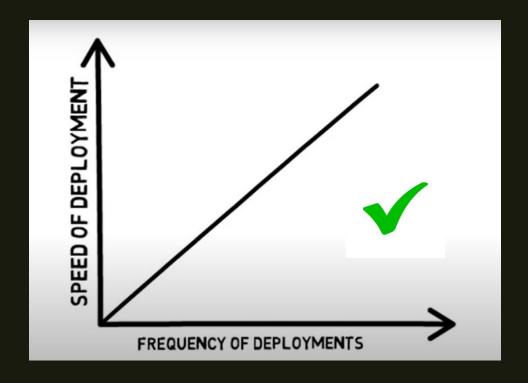
By Nnamdi Ajoku



What is DevOps?

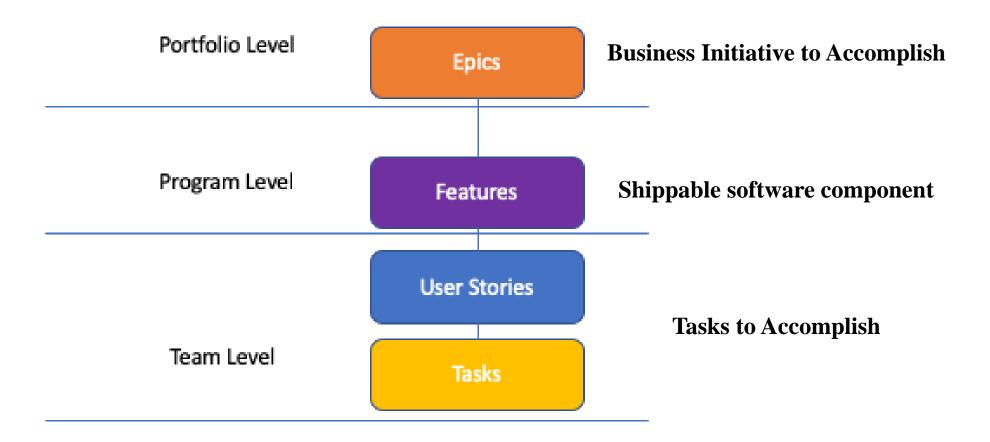
DevOps integrates developers and operations teams in order to improve collaboration and automation.

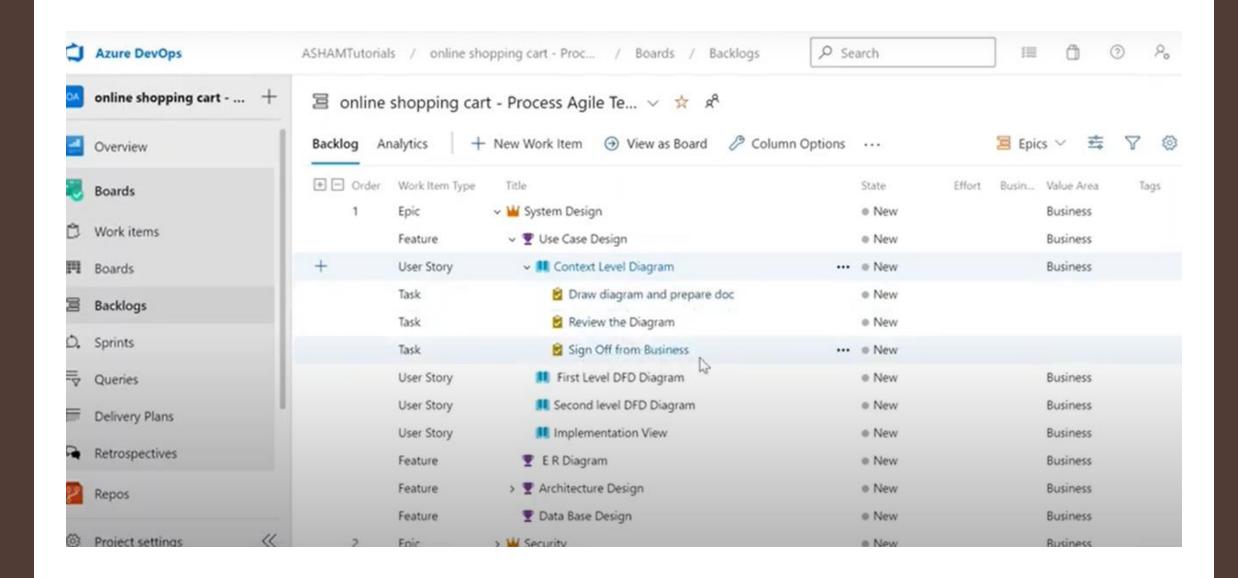
In essence, DevOps teams strive towards increase in speed of deployment and frequency of deployment.

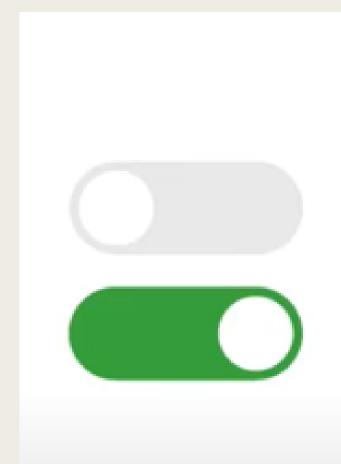


DEVOPS KEY TERMS

Azure Hierarchical Structure







Continuous Deployment

■ Is both the safe delivery of deployment and Releases.

Feature Flags

- A software development tool (toggle) that allows developers to roll out a new feature gradually to only a subset of your users.
- Feature Flags basically toggle a Feature ON/OFF and take part in software delivery.

Feature Branches Vcs

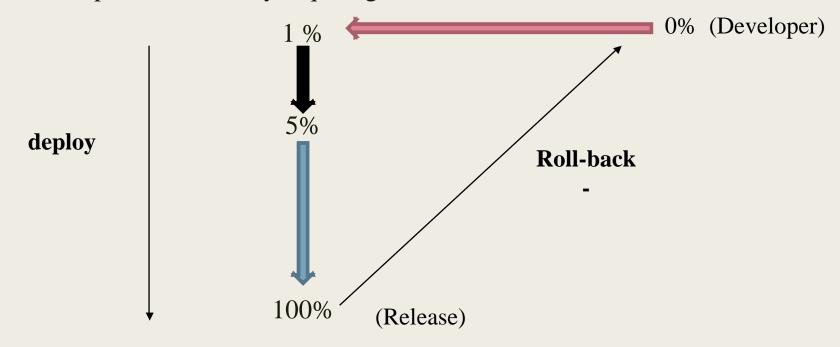
FEATURE BRANCHES

Trunk/Main Branch contains all RELEASABLE features only.

Continuous Deployment & Feature Flags

Canary Deployment

■ DevOps Teams usually require gradual rollout of code:



- Deployment is done in small chunks (with constant testing/debugging)
 - Rollback is done if the Ops Team encounters errors with the rollout.
 - Each stage of deployment/rollback, feature flag is toggled.



CARRYING OUT A/B TESTING

Feature Flag for New Feature

```
if FeatureFlagConfig.get("new-landing-page"):
    showNewLandingPage()
else:
    showOldLandingPage()
```

How Feature Flags Enable Continuous Deployment

- Shorter Development Cycle
- Decouple the business & technical decisions
- Lower Risk for the developer
- Ship & Roll-back when Ready
- Deployment of code in small chunks leads to faster deployment
- Faster Feedback Loop

Don't Forget the Best Practices!



Ensure to Remove All Feature Flags turned on for a Long Time.



THANK YOU.