

# CI/CD

Revolutionizing the software  
development life-cycle

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# CONCEPTS



CONTINUOUS INTEGRATION: The practice of merging all developers' working copies to a shared mainline several times a day.

CONTINUOUS DEPLOYMENT: An engineering practice in which teams produce and release value in short cycles.



CONTINUOUS DELIVERY: A software engineering approach in which the value is delivered frequently through automated deployments



# Why CI/CD?



- Traditional concepts/methodologies of software development could not change much about the value we delivered to our customers.
- Hence, new concepts in DevOps i.e CI/CD enhances how we develop software with value to the end user in mind.
- CI/CD is here to bridge the gap between teams in Devs and Ops therefore harmonize ideas and lead to effective decision-making for both developer and business leaders
- It also enhances confidence for both Dev and Ops teams to gain more ground in polishing features with ease thus making customers happy

# Benefits of CI/CD

## Practices that reduce costs



- Catch compile after merge



- Catch Unit tests failure as early as after merge

>> Less bugs in production means more time adding amazing features

## Practices that Increase Revenue



- Faster and frequent deployment to production



- Deploy to production without manual checks

## Practices that avoid costs



- Detect security vulnerabilities early in the development channel



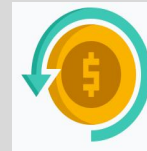
- Automate Infrastructure creation

>> Less human interaction, less human error, faster and accurate deployments; less cost overhead due to delay

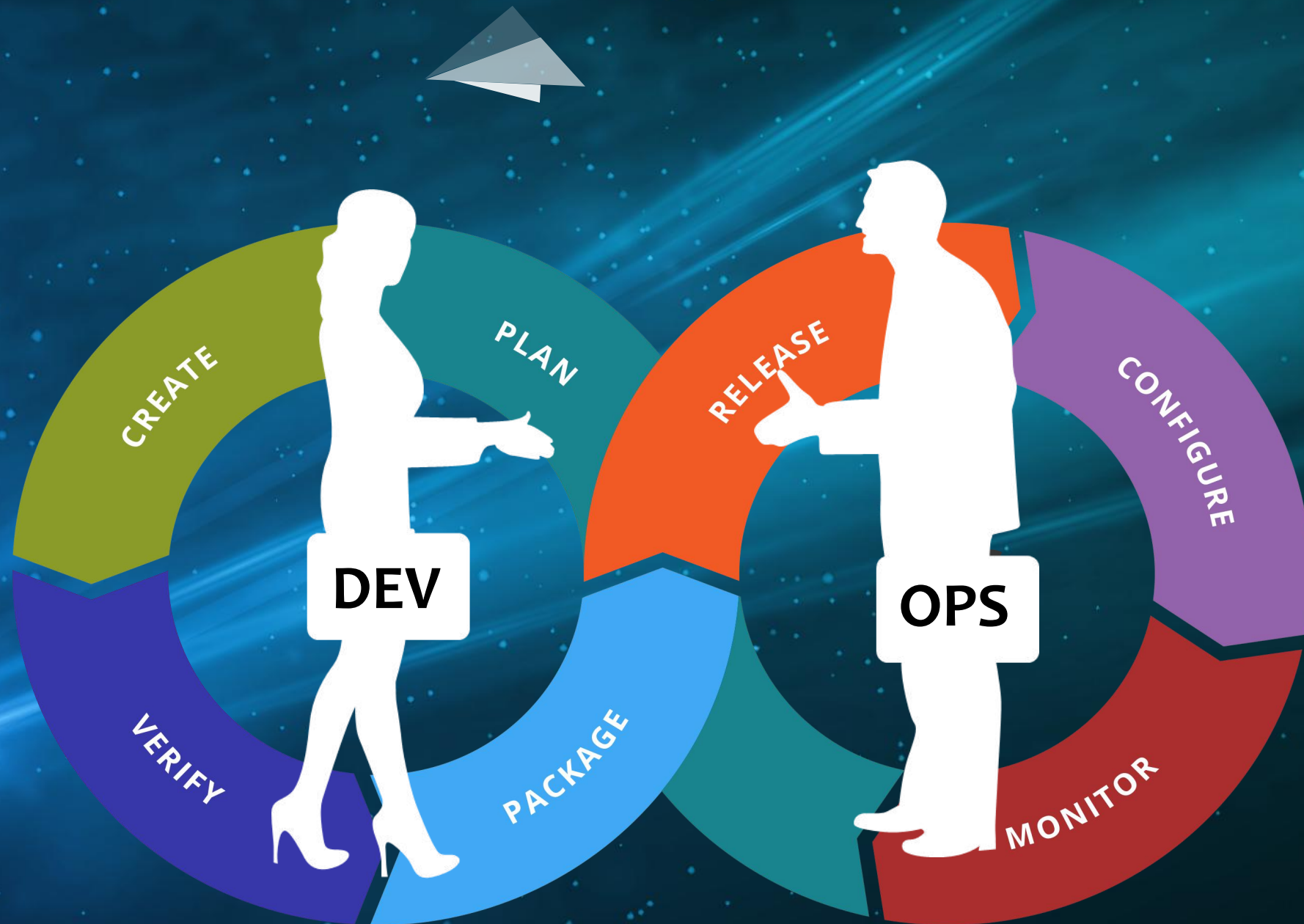
## Practices that Protect Revenue



- Automated smoke tests



- Automated Rollbacks triggered by job failures





# THANK YOU

ANY QUESTIONS?

