# DevOps

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# What is DevOps?

## Developer

"I want change"

"I want to get my features released"

"I want to use the latest tools"

"I want operations to get out of the way"

## Operator

"I want stability"
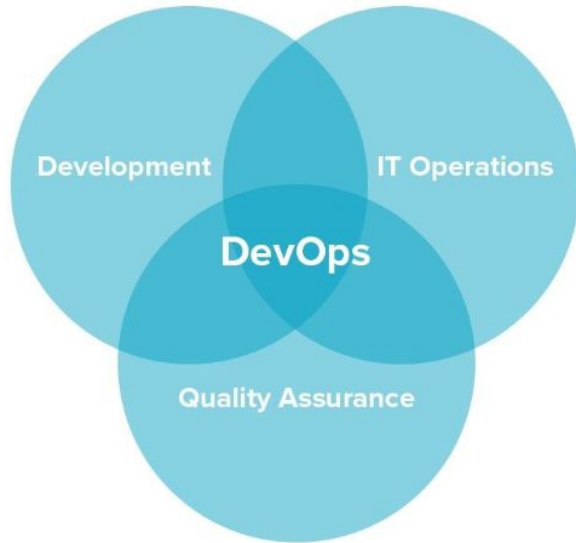
"I want consistency"

"I don't want any changes"

"Those developers are cowboys"

**Wall of Confusion**

# What is DevOps?

# DevOps Principles: CAMS
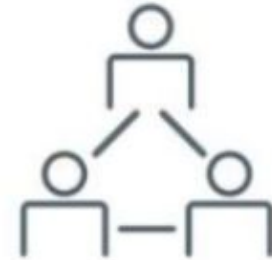


**C**ulture
People, Team, Process

**A**utomation
Infrastructure as Code

**M**easurement
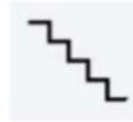Measure everything

**S**haring
Collaboration & Feedback

# Culture

➔ People and Team
- ◆ Open communication
- ◆ Cross functional collaboration
- ◆ Goal alignment
- ◆ Respect and trust

# Process



**Waterfall**

| Plan | Code | Test | Deploy |

3 to 9 months

**Agile**

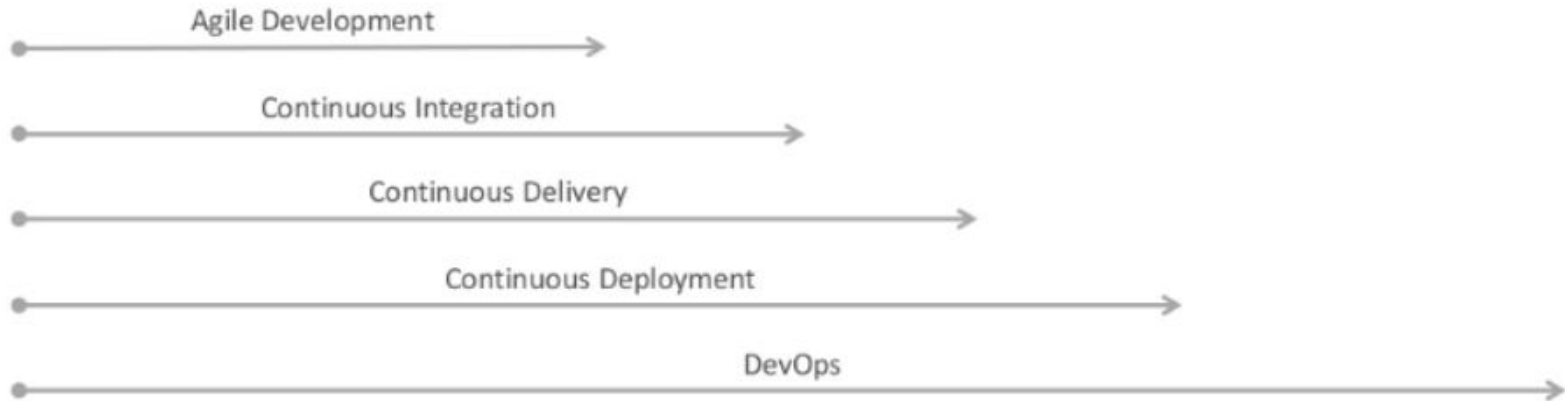| Plan | Code | Test | Deploy | Plan | Code | Test | Deploy |

2 to 6 weeks

**DevOps**

Hours to days

# Automation

➔ Infrastructure as Code
➔ You can apply techniques, practices and tools from software development to make your whole infrastructure reusable, maintainable, extensible and testable
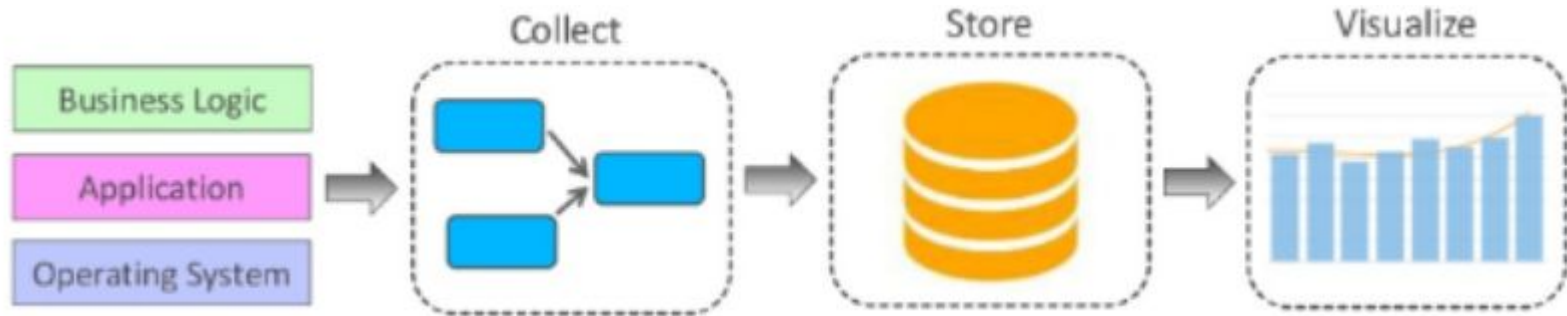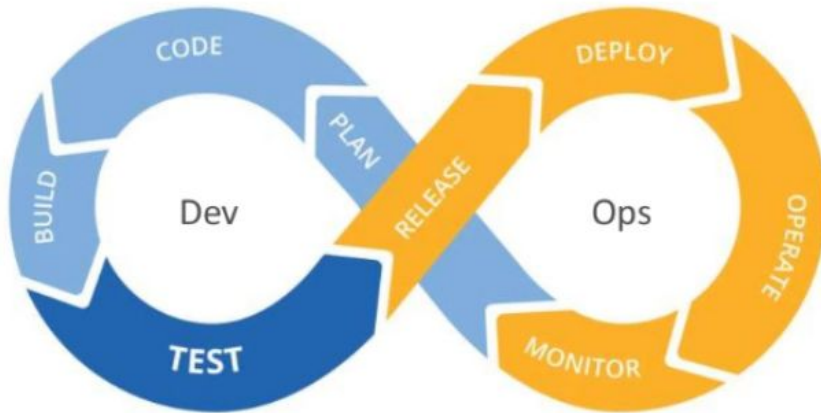
# Software Delivery

# DevOps Tools

# Measurement

➔ Provide a dynamic, real time picture of the state of your infrastructure
➔ Be metric, event and log

# DevOps Model



Endless Possibilities: DevOps can create an infinite loop of release and feedback for all your code and deployment targets.

# DevOps Challenges

➜ Culture
➜ Test automation
➜ Legacy systems
➜ App complexity
➜ No DevOps plan
➜ Managing environments
➜ Skill set
➜ Budget
➜ Tools
➜ Executive support