

# DevOps

## lecture 2

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# DevOps History

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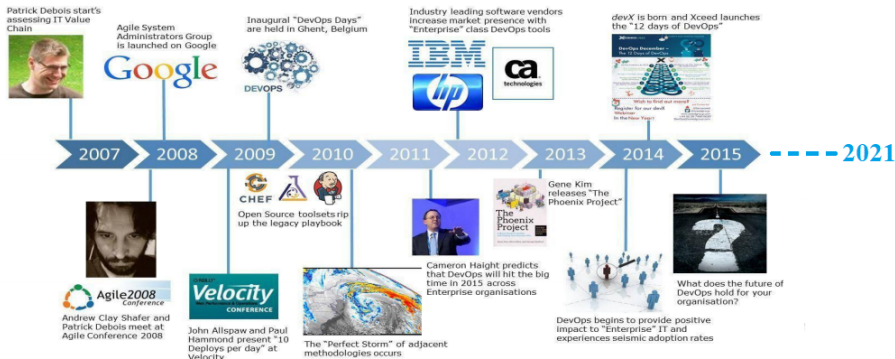


Figure 1: DevOps History

# The three ways of DevOps

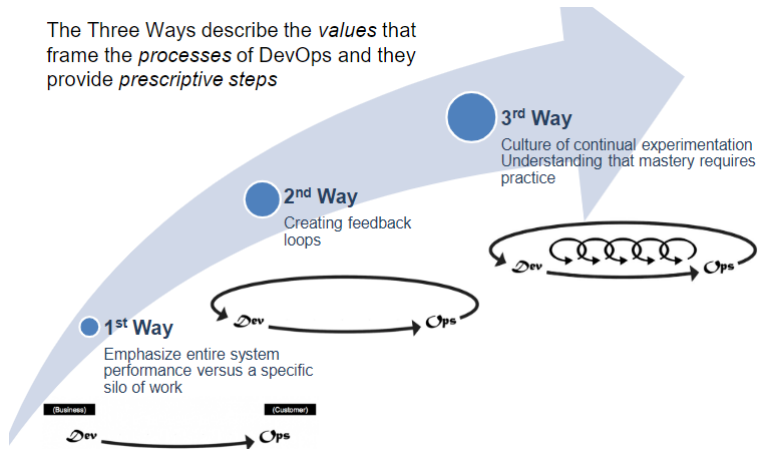


Figure 2: The three ways of devOps

# DevOps Life cycle

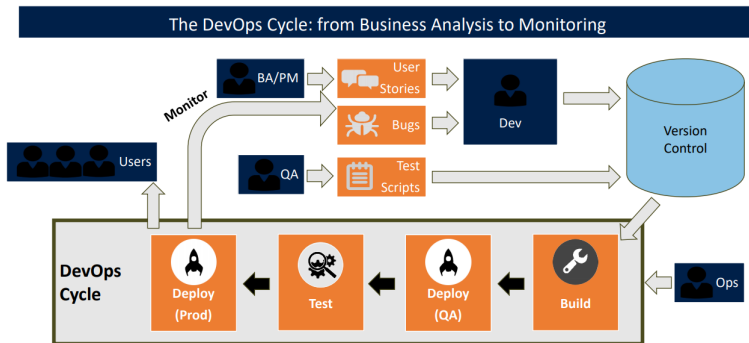


Figure 3: DevOps Life cycle (source: building-a-DevOps Organization (ebook))

# DevOps in Business

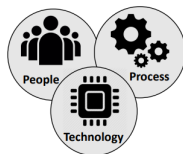


Figure 4: DevOps in Business(source: building-a-DevOps Organization (ebook))

- 1 DevOps is possible on premise or cloud
- 2 Organizations need to create a culture that is all about communication and collaboration among the developers, testers, and the IT Ops team

# People and Process

## DevOps: People and Process Enablers



Full Stack Engineers

Small 2-Pizza Teams

Integrated Teams & Joint Meetings

Autonomous and Empowered

Collective Responsibility

- Culture is the most important aspect of DevOps
- Organizations need to create a culture that is all about communication and collaboration among the developers, testers, and the IT Ops team
- A DevOps Evangelizer within the organization is needed for driving the cultural transformation initiative across the company
- DevOps is nothing without the discipline and the culture, as a set of tools won't help people embrace change



- Every organization, and departments within organizations, will have a unique way of writing code, testing it, and releasing it
- DevOps stands on the pillar of well-defined processes
- The process clearly defines everything that takes place from the time a developer checks his code into version control until it surfaces on the production system ready to be consumed by the end users

Automated Build, Test and Release

Data-driven Product Development

Common Metrics for Dev, Test and Ops

Experiment and Fail Fast

Quality and Security-First

Figure 5: People and Process (source: building-a-DevOps Organization (ebook))

- 1 Maven
- 2 Chef
- 3 CloudBees
- 4 Puppet
- 5 VMWare
- 6 Ansible

and many more!