

DevOps

lecture 2

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DevOps History

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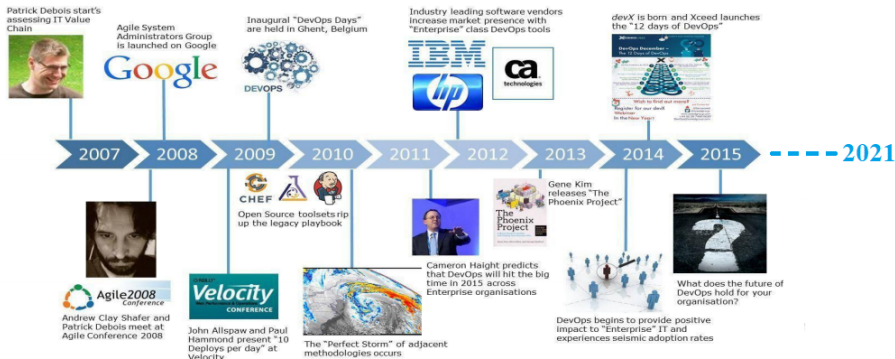


Figure 1: DevOps History

The three ways of DevOps

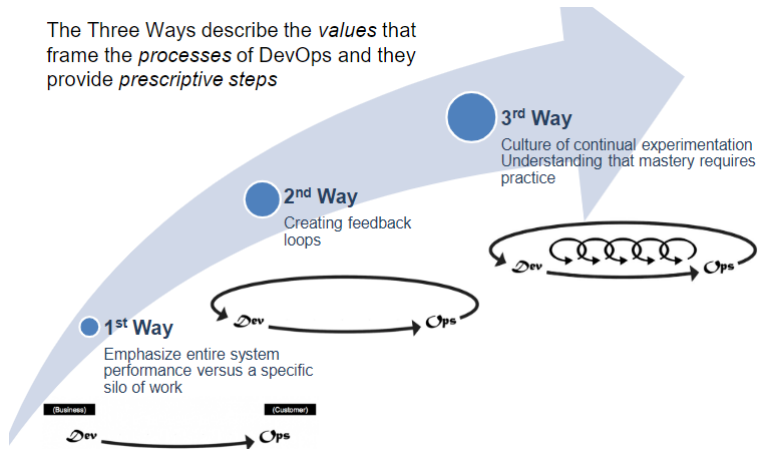


Figure 2: The three ways of devOps

DevOps Life cycle

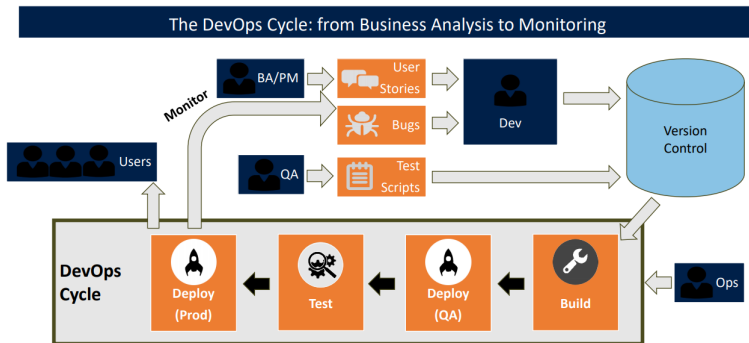


Figure 3: DevOps Life cycle (source: building-a-DevOps Organization (ebook))

DevOps in Business

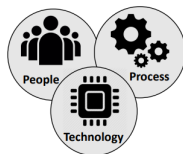


Figure 4: DevOps in Business(source: building-a-DevOps Organization (ebook))

- 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



People

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*



Process

- *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!