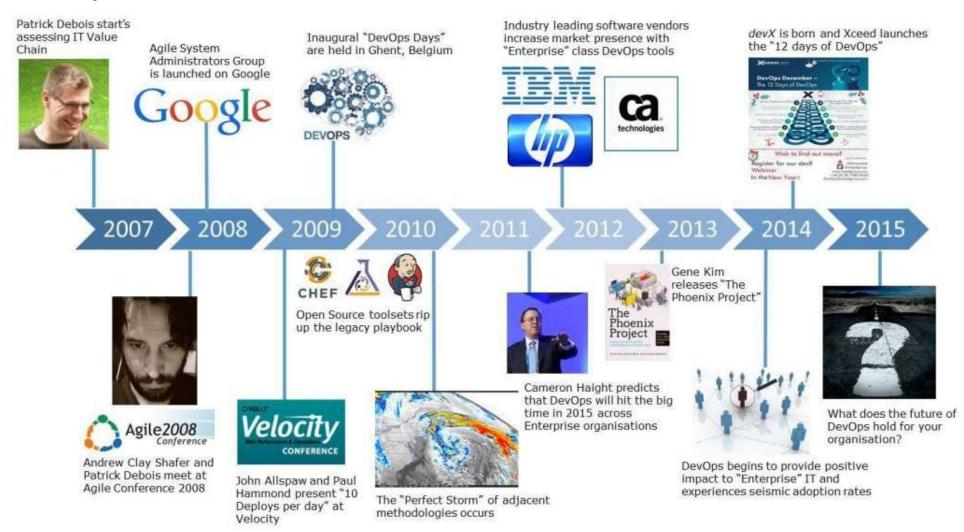
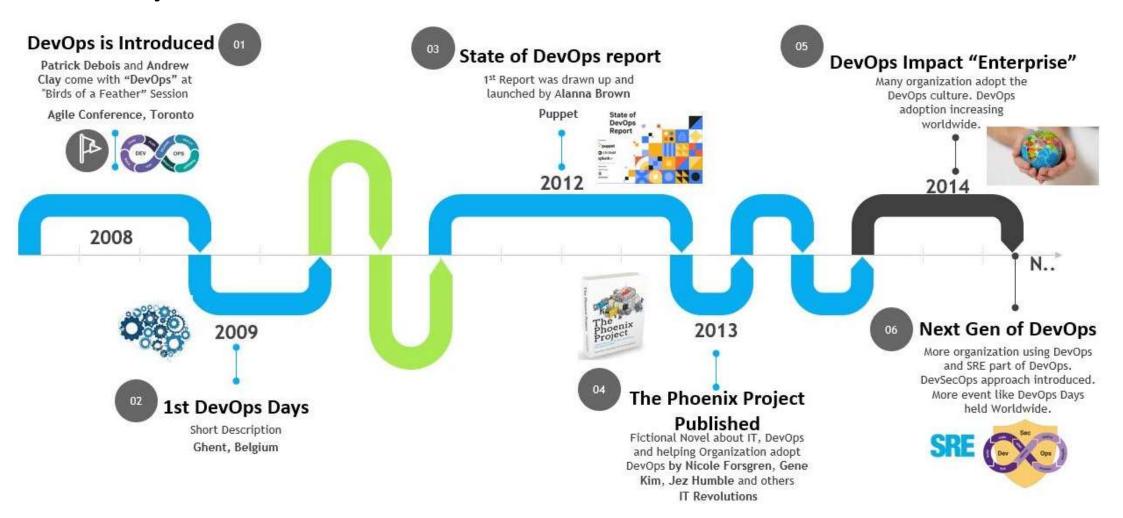
## DevOps

#### History



#### History

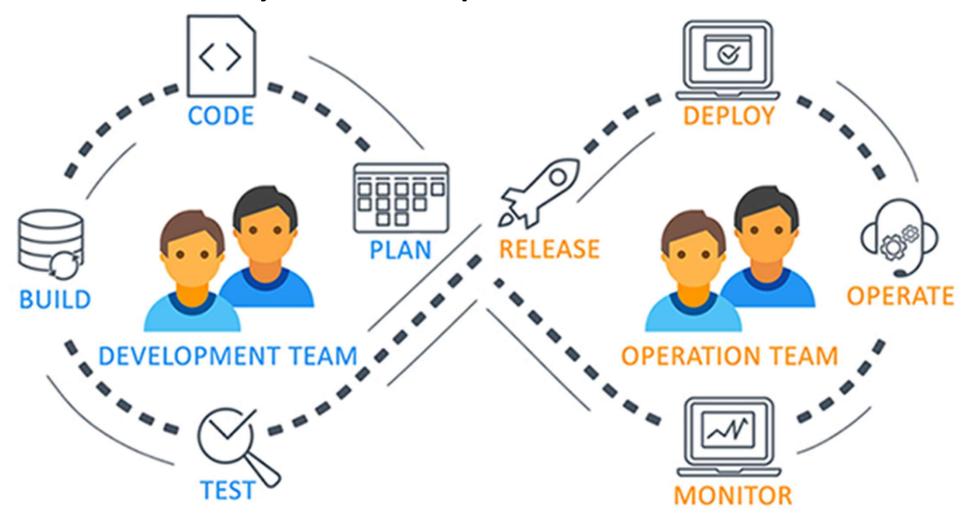


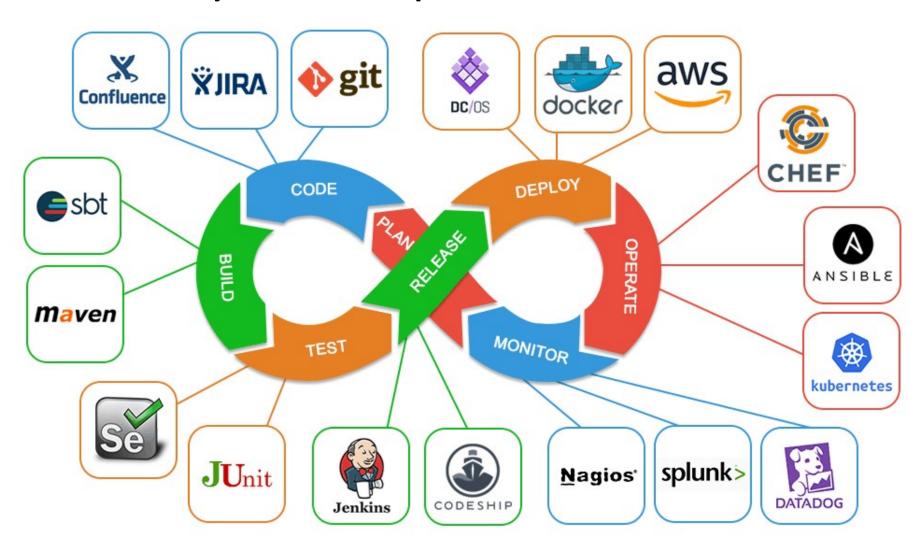
#### Configuration management

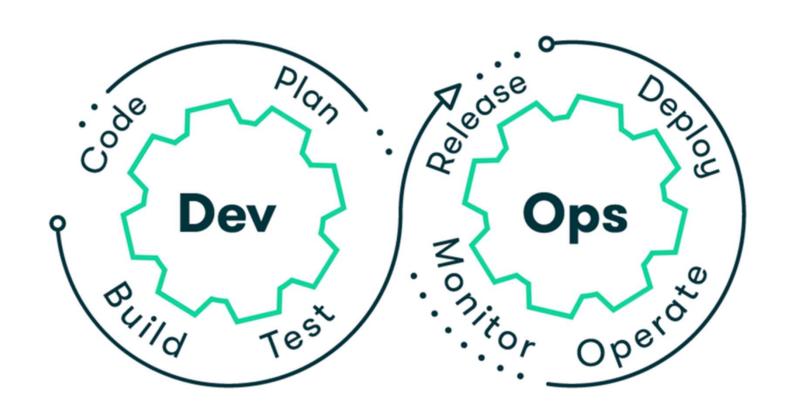
- Process of maintaining systems, such as computer hardware and software, in a desired state
- Configuration Management (CM) is also a method of ensuring that systems perform in a manner consistent with expectations over time.

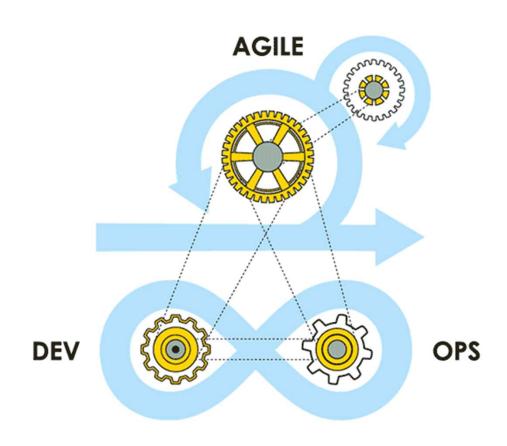
#### Benefits of Configuration Management

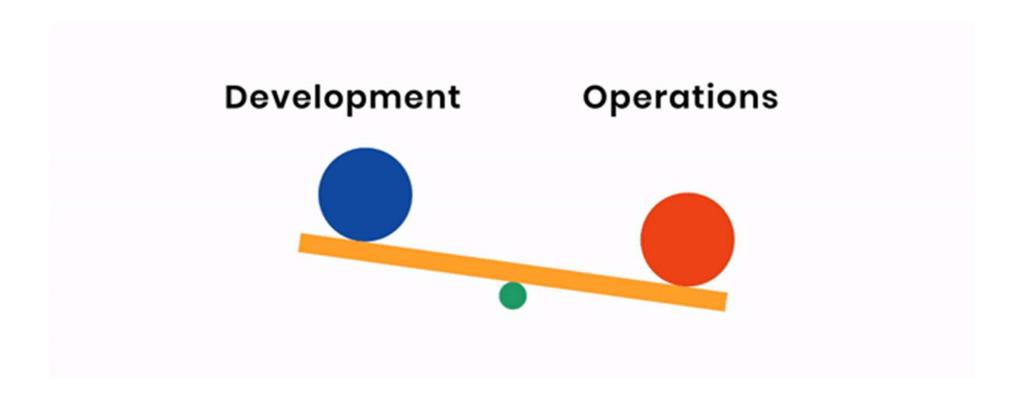
- Reduces risk of unpredictable system failures
  - because it offers perfect visibility and tracks every change made to test environments.
- Reduces costs
- Offers greater agility and better resolution of issues
- Implement faster restoration of services



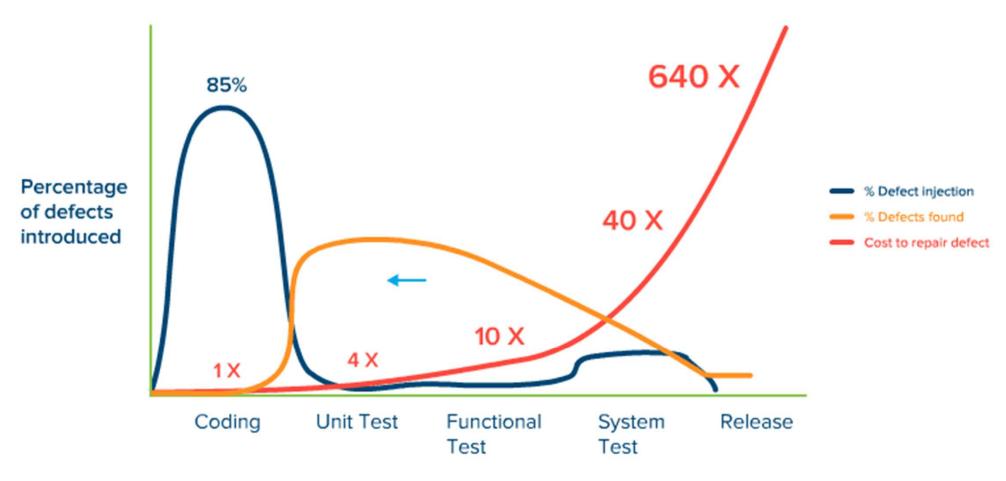






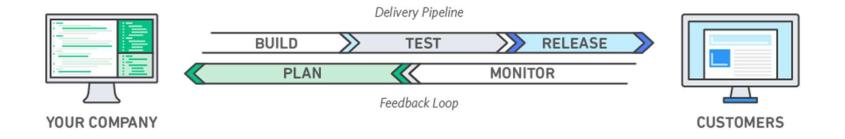


## Early Defects vs Delayed Defects detection



Jones, Capers. Applied Software Measurement: Global Analysis of Productivity and Quality.

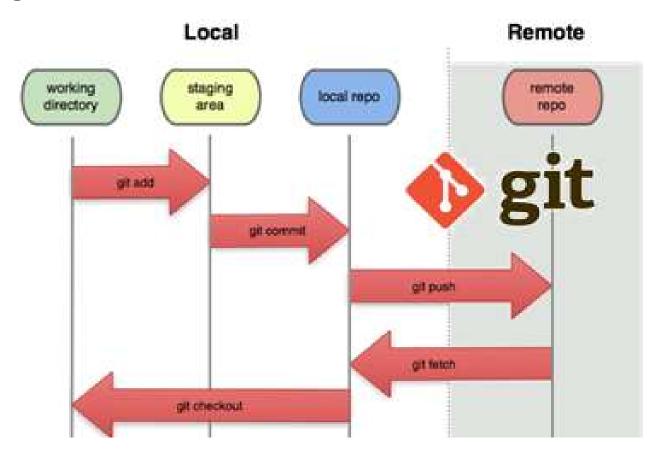
## DevOps as a solution and Advantages



## DevOps Tools – Overview and Use case

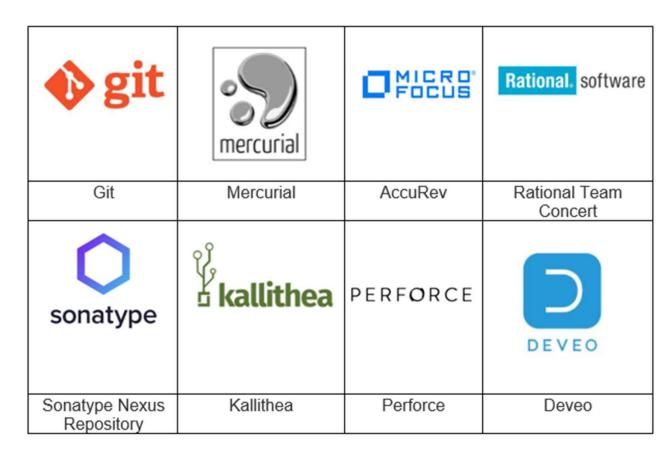
#### Source control

- To ensures for working on the right version
- Important for maintaining a single source of truth

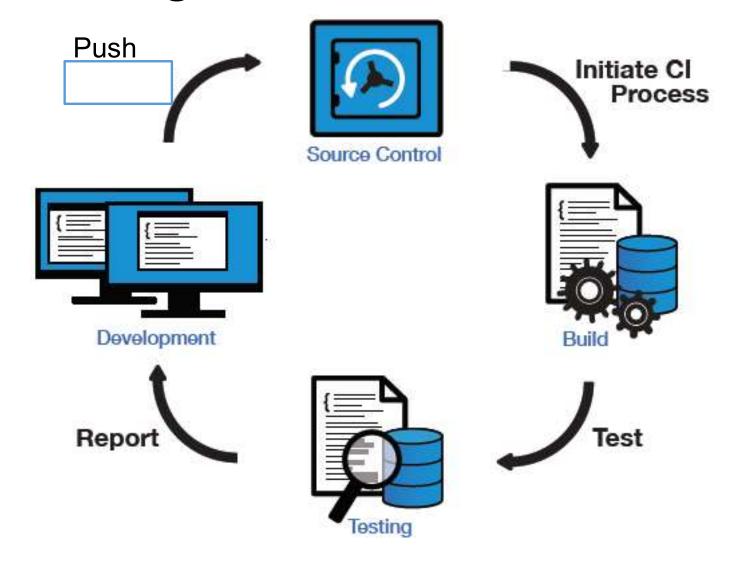


## Source Code Management (SCM Tools)

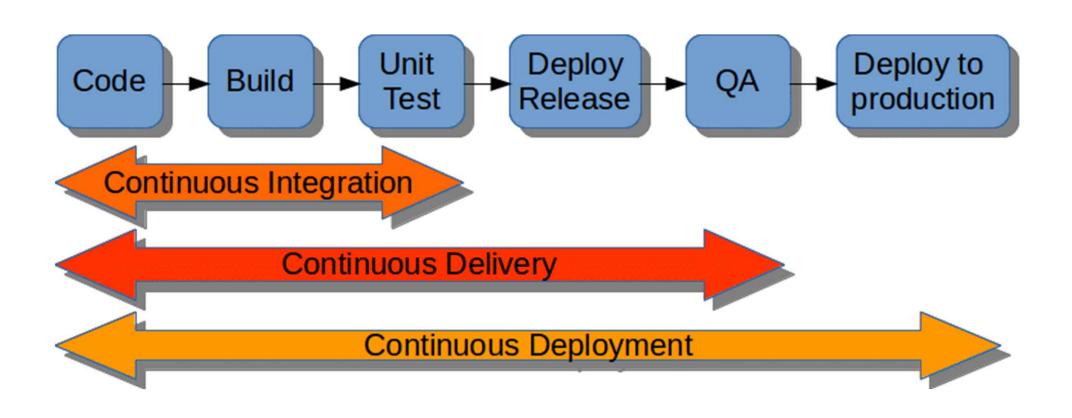
- Help to keep track of code
- Complete history of changes.



#### **Continuous Integration**



#### Continuous Delivery and Deployment



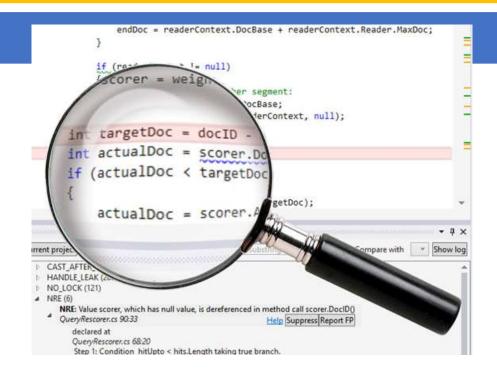
#### What Is Static Code Analysis?

A method of debugging

Examine source code before a program is run

Done by analyzing a set of code against a set of coding rules.

Performed early in development



#### Static Code Analysis Tool

Development teams are under pressure

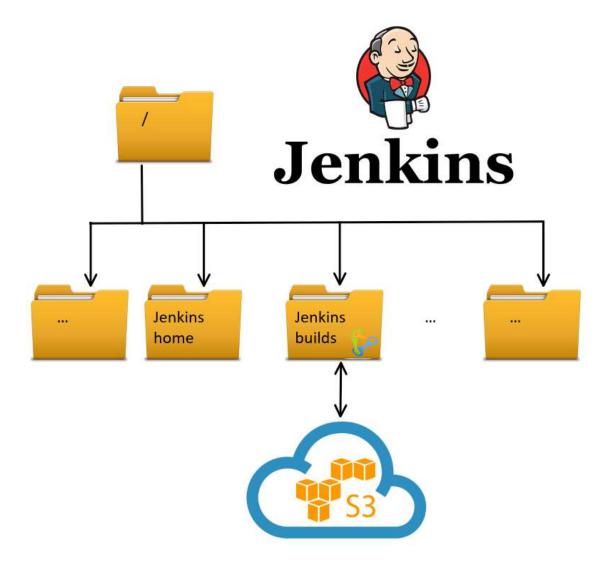
Quality releases needed to be delivered on time

Coding and compliance standards need to be met

And mistakes are not an option.

That's why development teams are using static analysis tools.

## **Storage Artifacts**



#### **Configuration Management**

- A process for maintaining
  - Computer systems
  - · Servers, and
  - Software in a desired, consistent state

#### Benefits of Configuration Management for Servers

**Quick Provisioning of New Servers** 

Quick Recovery from Critical Events

Version Control for the Server Environment

Replicated Environments

#### Configuration Management Tools















# Thanks