



DevOps Professional Certification Program

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Workflow & Process



Agile Vs DevOps



DevOps Life cycle

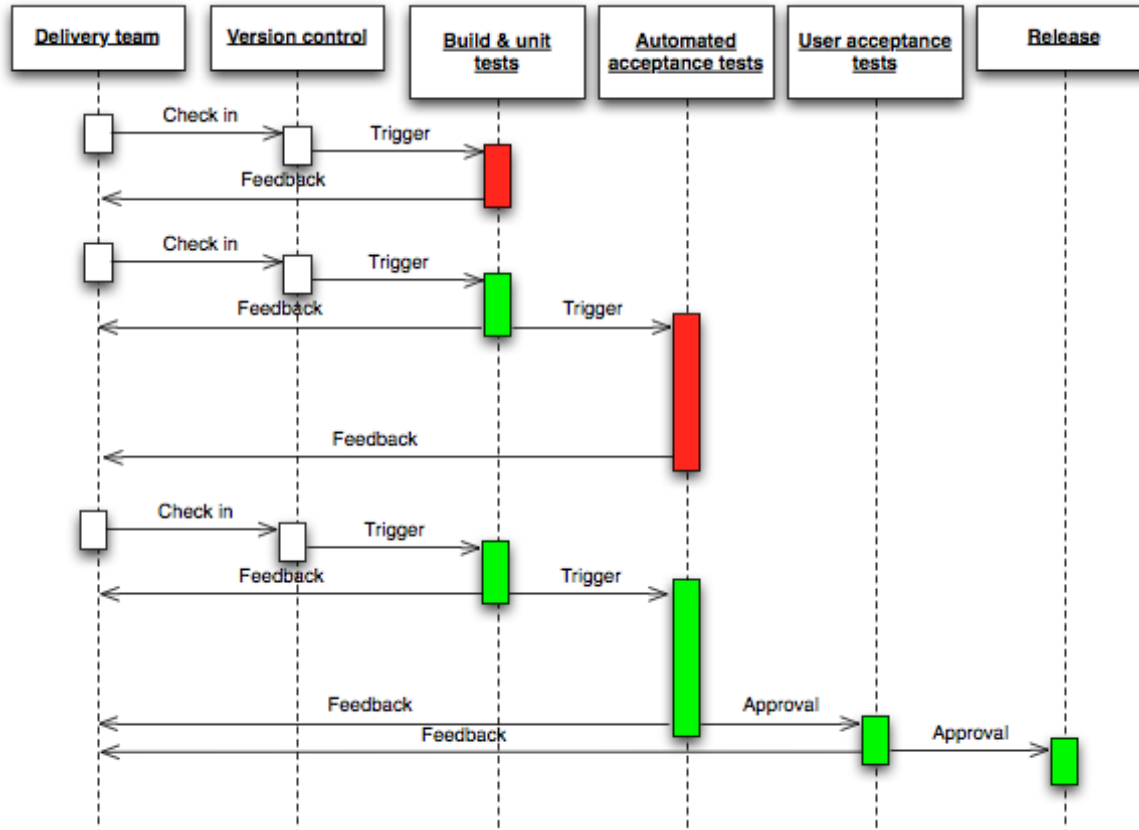


DevOps tools & Benefits

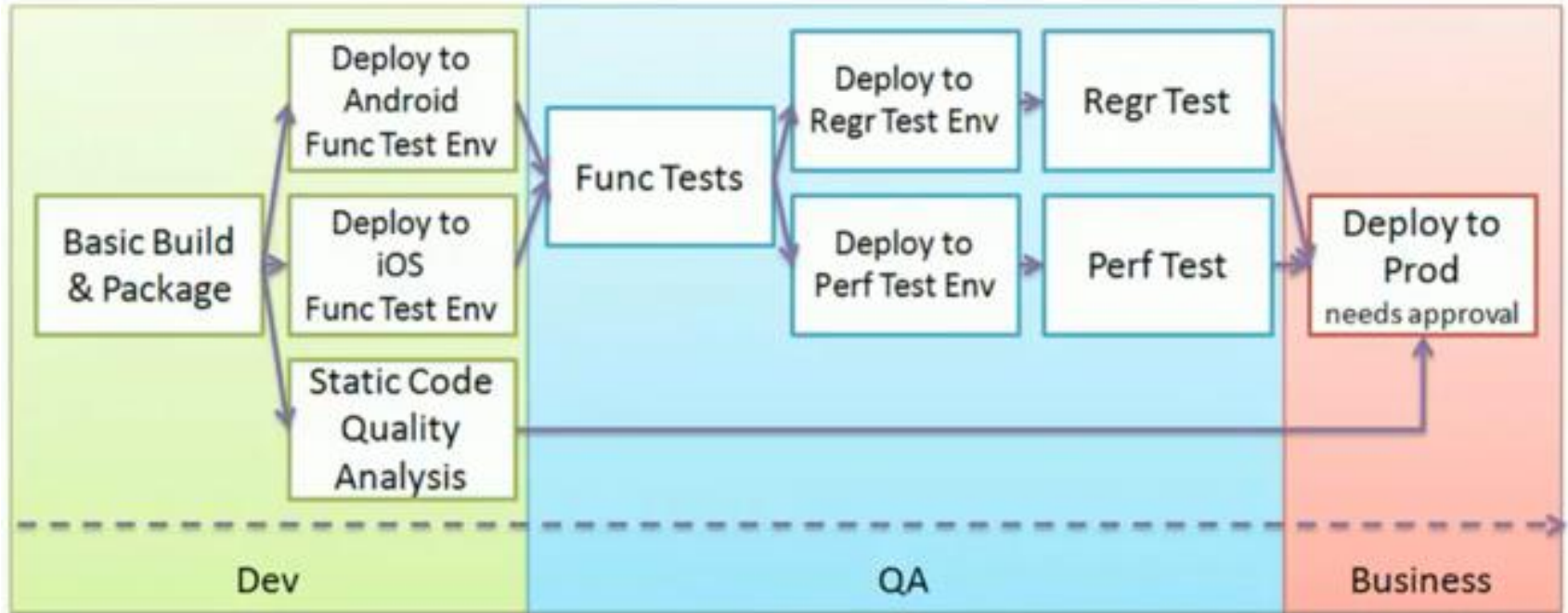
Introduction



Typical Workflow



Process



Project Execution methodologies – The Change

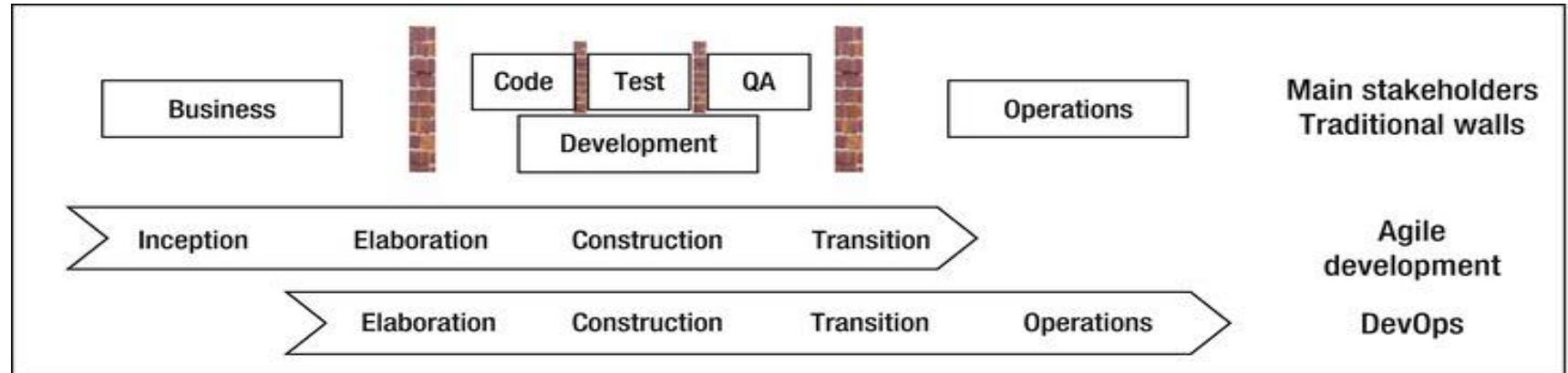
WATERFALL



AGILE

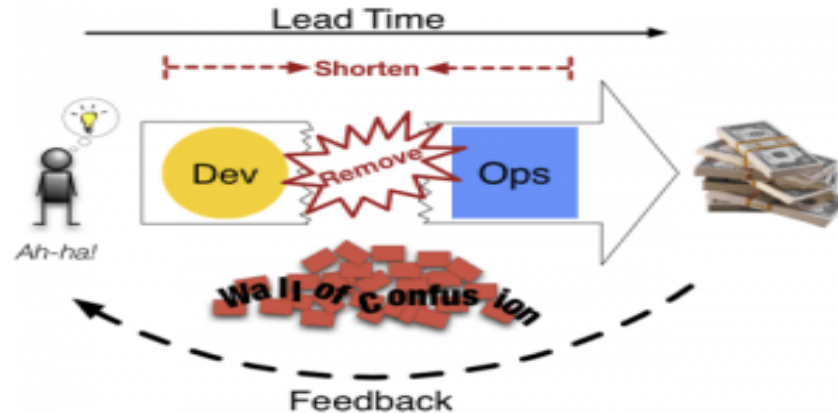
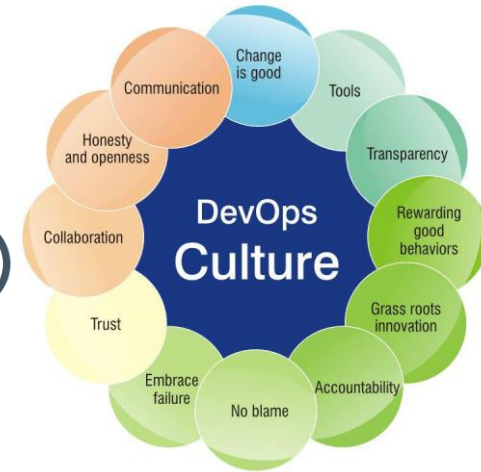
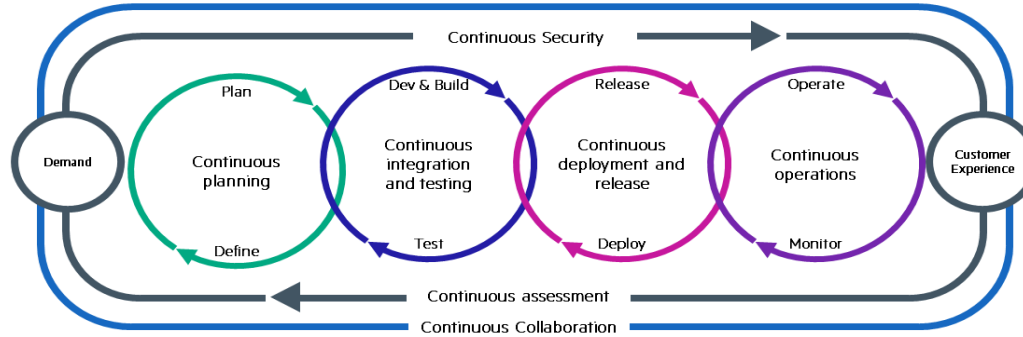


DEVOPS

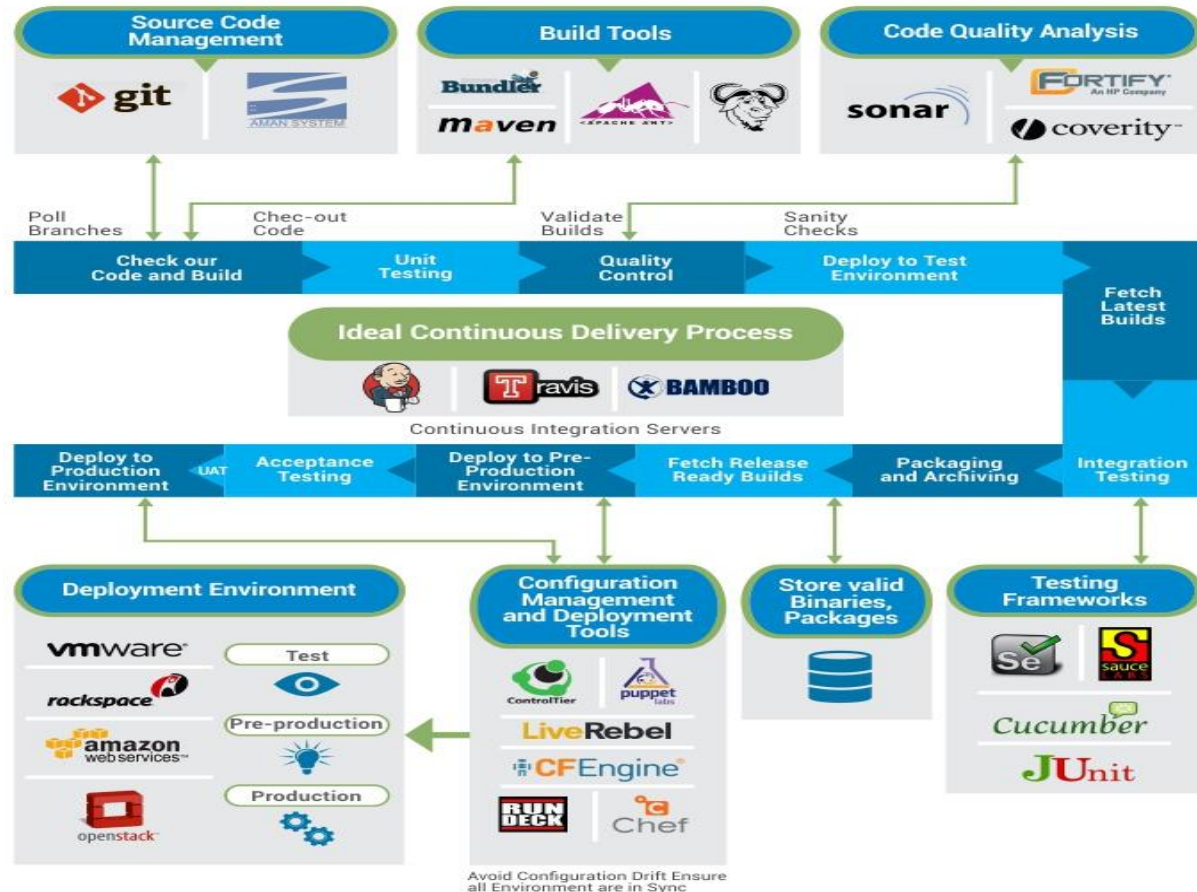


Reference: DevOps for Developers by Michael Huttermann

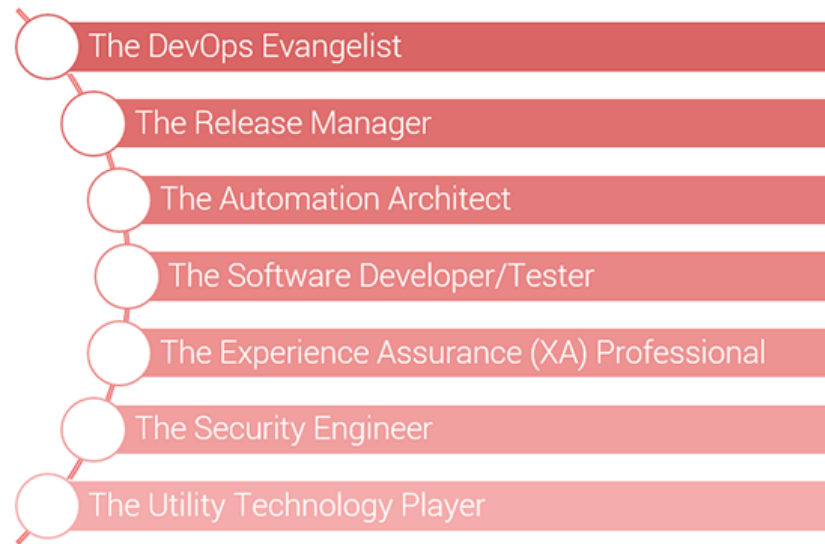
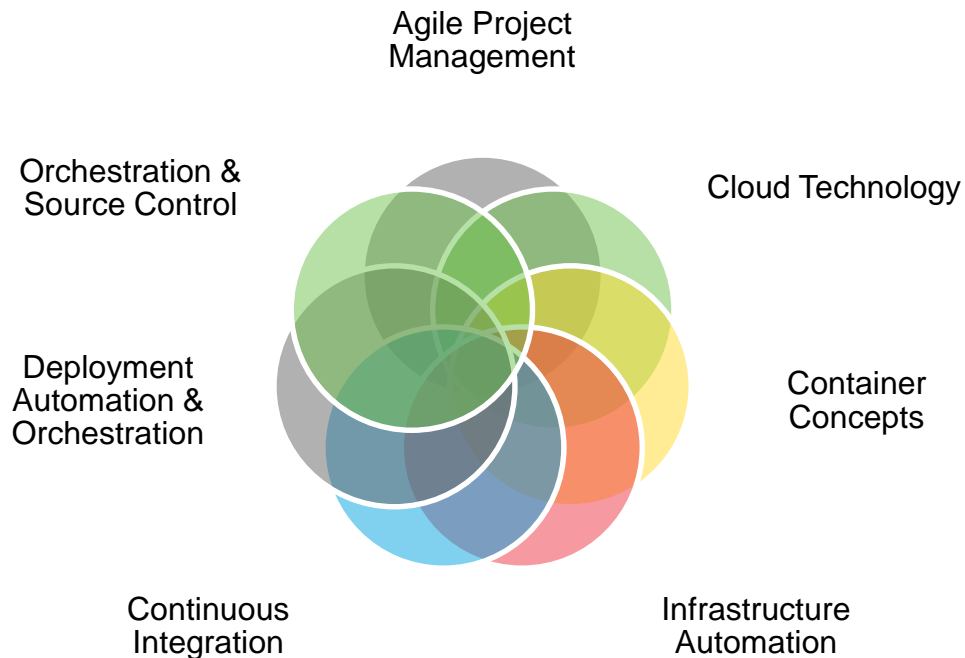
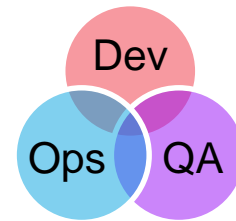
DevOps Way



Life cycle

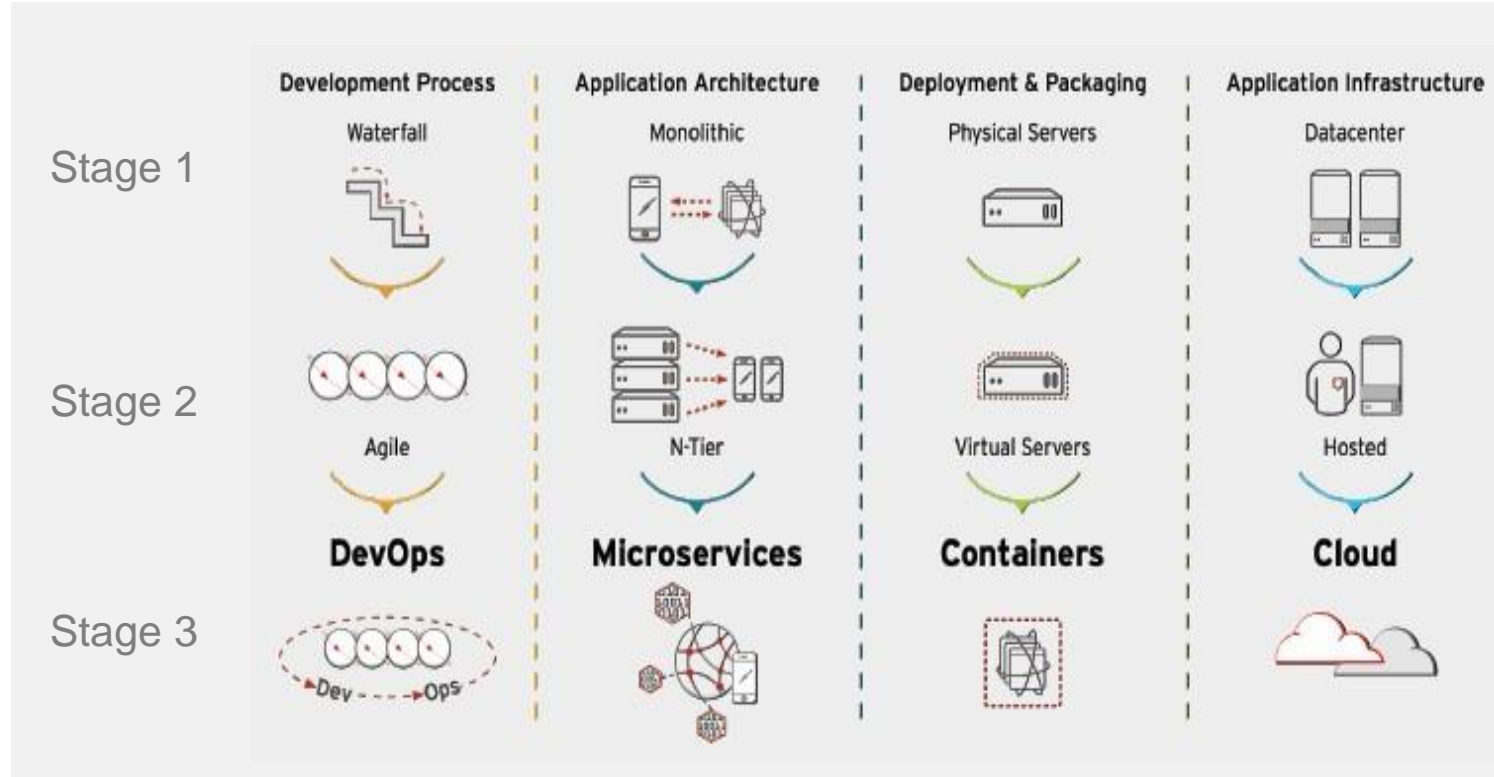


DevOps Engineers



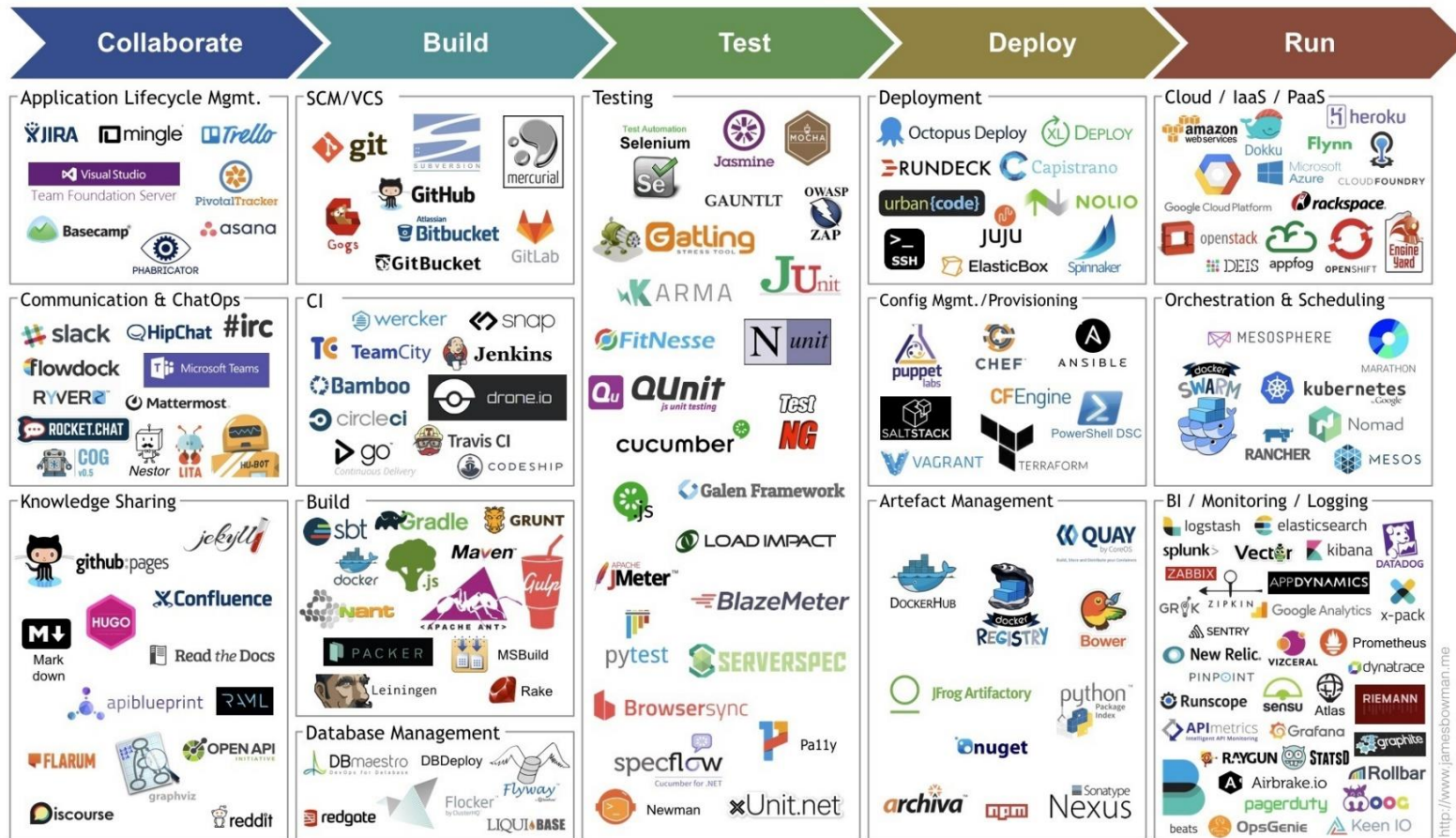
Relevance

These concepts enable and support each other



Enterprise Applications - Evolving Themes

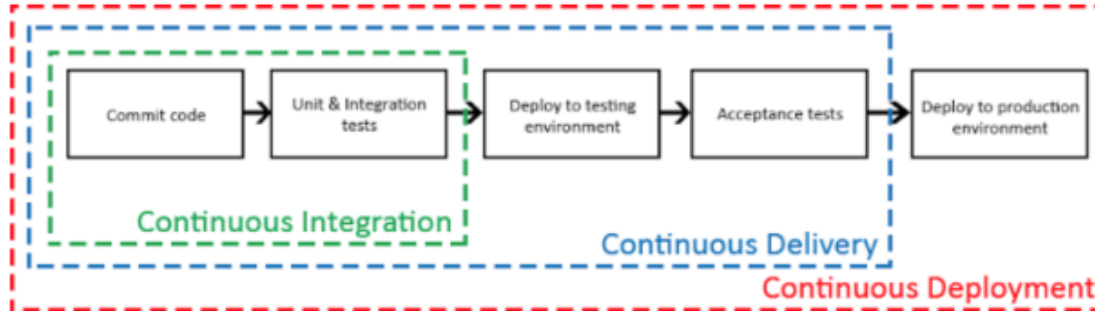
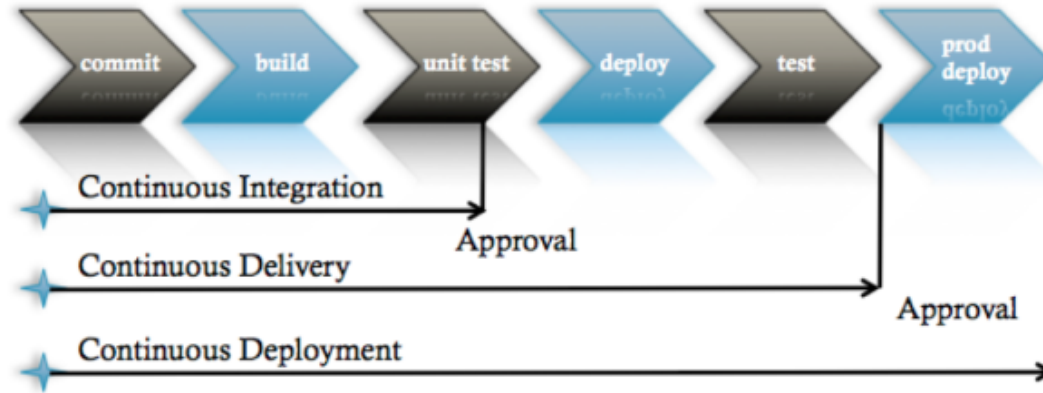
Tools



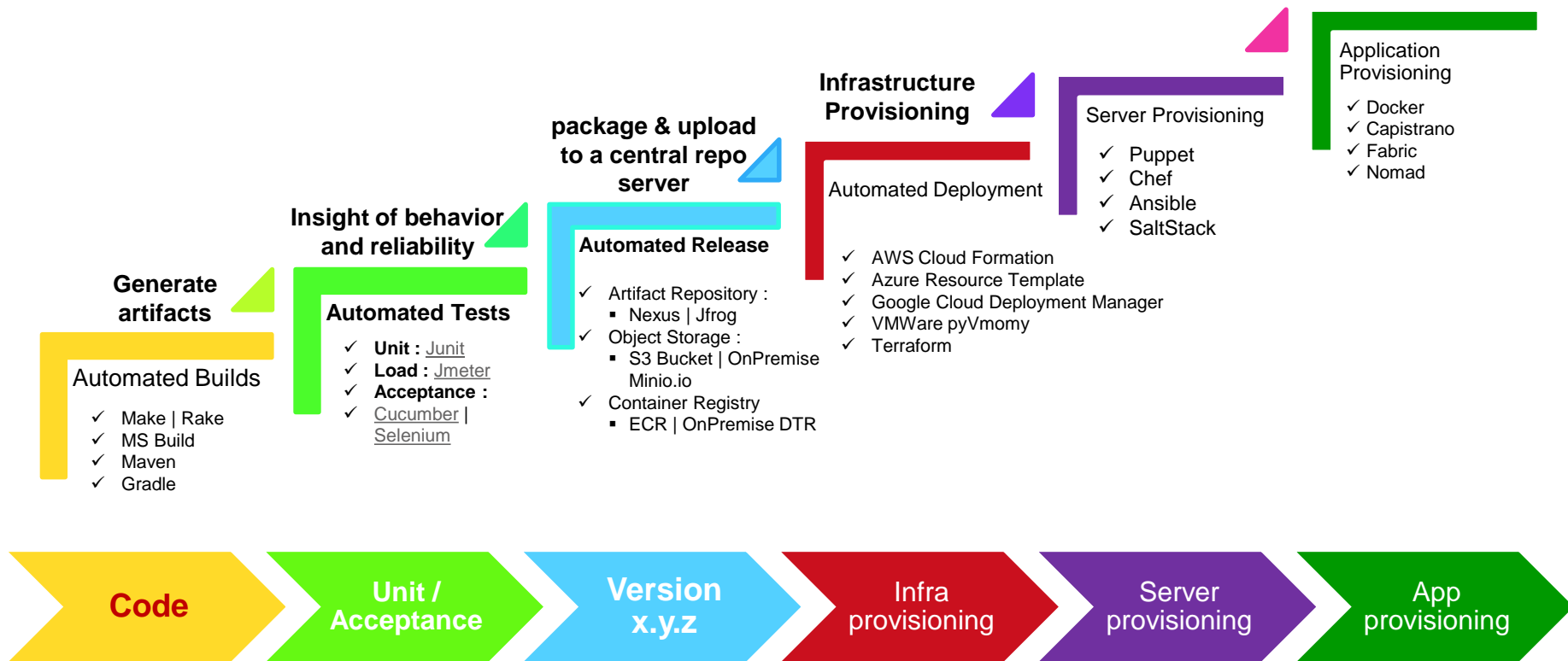
DEVOPS BENEFITS

- Fast-track the release of applications into production
- Tolerate continuous feedback and improvement across the software lifecycle
- Reduce time to market through streamlined testing and CD
- Improve efficiency and utilization of resources
- Adoptive an environment of:
 - Collaborative Development
 - Continuous Testing
 - Continuous Release and Deployment
 - Continuous monitoring

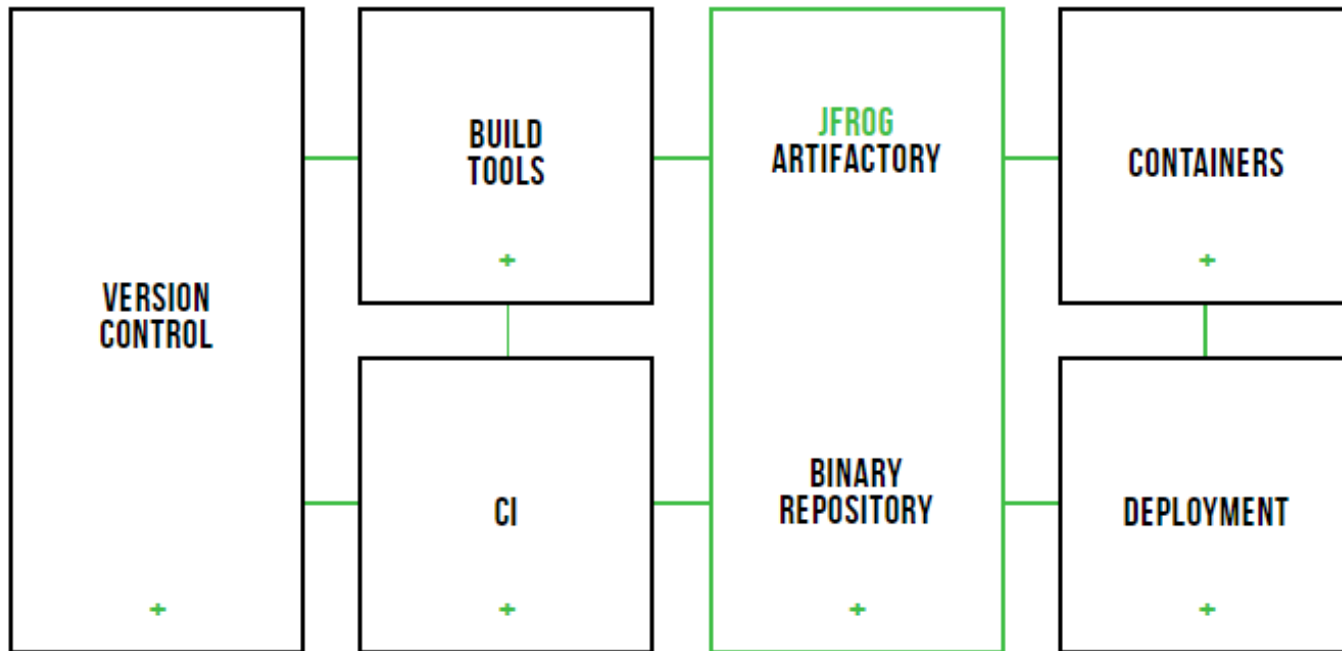
Continuous Pipelines



Continuous Pipelines for DevOps



Tools Integration Plan

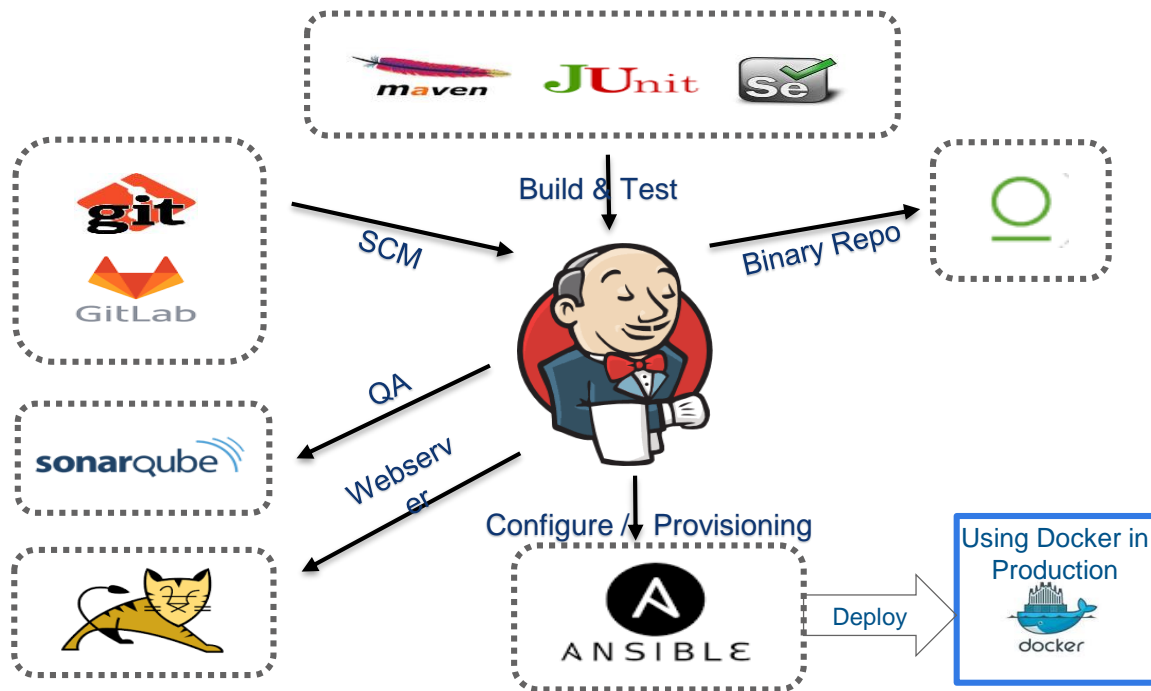


Learning Plan

Integrated Learning Project

ILP-1: Continuous Integration & Delivery

- **Project Structure** Management
- Perform **compilation** and **Unit Testing**
- Perform **Functional Test** (Selenium)
 - Setup test environment (if required)
- Perform **Code Review** – SonarQube
- Deploy on **webserver** – Tomcat
- Automate the process with **triggers** & **notification**
- Update artifact repository with latest successful code **artifacts**





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