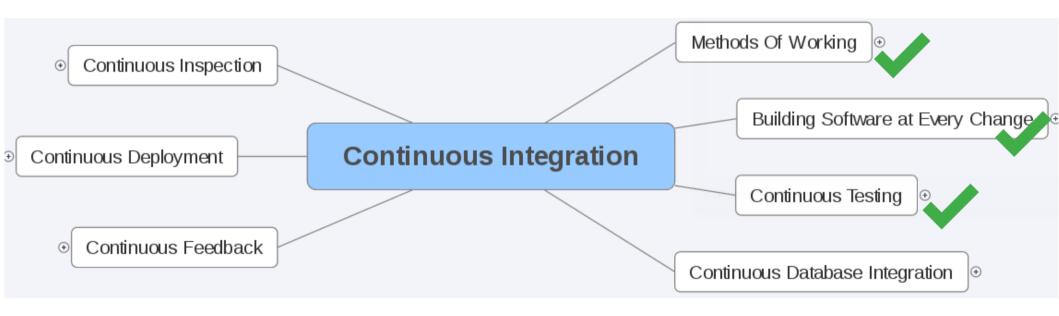
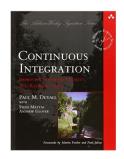
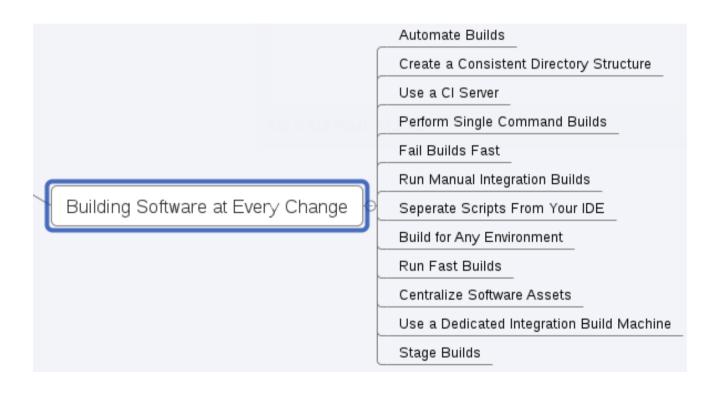
Continuous Integration – Follow Up

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Continuous Integration







Building Software at Every Change Build Tools

Automated Build

Fail **Builds Fast** Seperate Scripts From Your IDE

Build for Any Environment Create a Consistent **Directory Structure**

Mayen[™]

Run **Fast Builds**

Perform Single Command Builds















Building Software at Every Change – Integration Server

Use a Dedicated Integration Build Machine Use a CI Server

Stage Builds













Building Software at Every Change – Version Control Systems

Centralize Software Assets







Building Software at Every Change - VCS Managment System

Centralize Software Assets











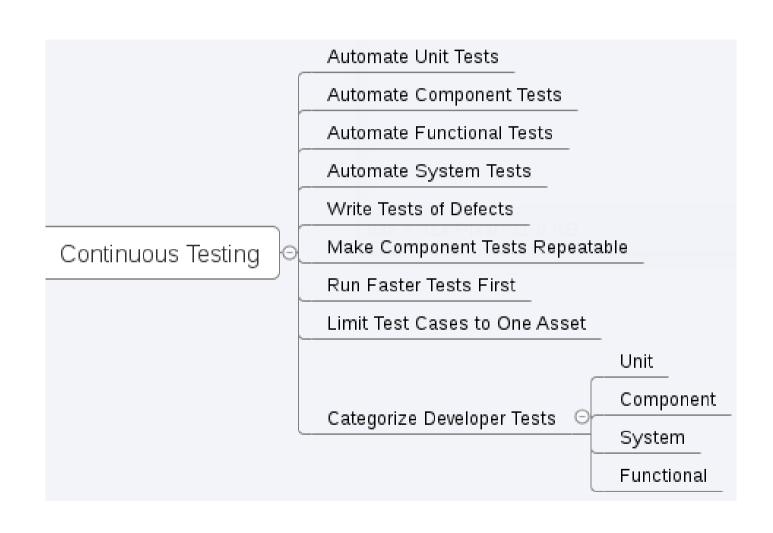
Building Software at Every Change - Repository Managment System

Centralize Software Assets









Continuous Testing

Automate Unit Tests



Spock Framework

AssertJ

TestNG

Continuous Testing

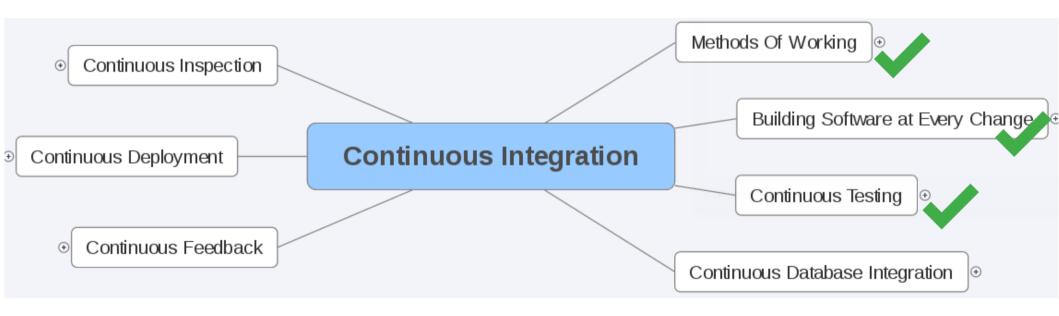
Automate Functional Tests

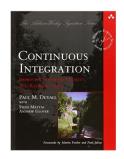






Continuous Integration





Automate Database Integration

Use a Local Database Sandbox

Use a Version Control Repository to Share Database Assets

Give Developers Capability to Modiy the Database

Make DBA Part of Development Team

Continuous Database Integration

Use a Local Database Sandbox







Continuous Database Integration

Automate
Database Integration

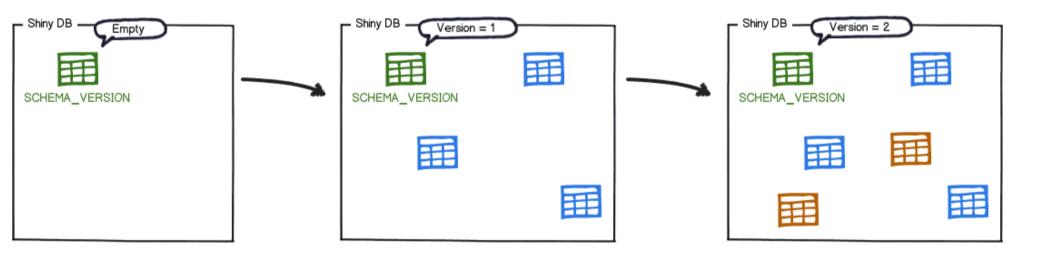






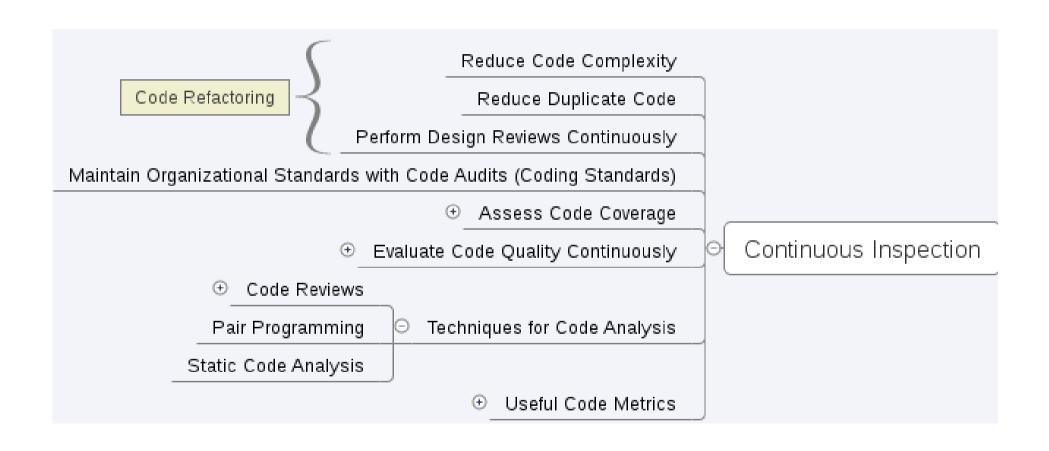


Flyway



schema_version

version_rank	installed_rank	version	description	type	script	checksum	installed_by	installed_on	execution_time	success
1	1	1	Initial Setup	SQL	V1Initial_Setup.sql	1996767037	axel	2010-05-04 22:23:00.0	546	true
2	2	2	First Changes	SQL	V2First_Changes.sql	1279644856	axel	2010-05-06 09:18:00.0	127	true



Continuous Inspection

Maintain Organizational Standards with Code Audits (Coding Standards)









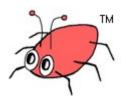
Continuous Inspection

Evaluate Code Quality Continuously





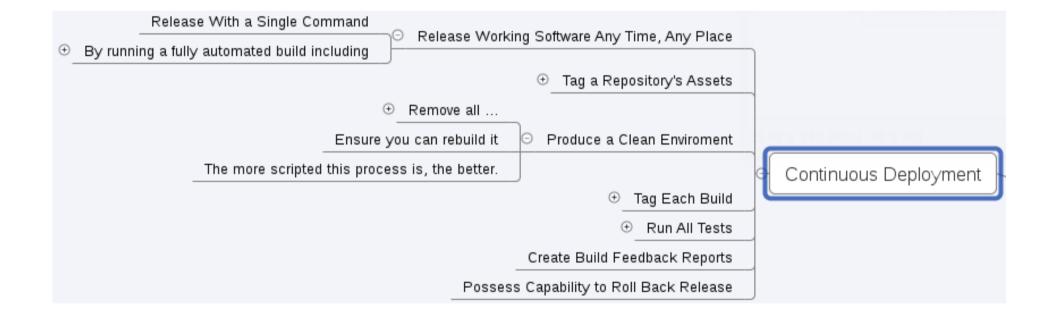




JaCoCo

COVERITY

sonarqube



Continuous Deployment

Produce a Clean Enviroment -Ensure you can rebuild it









Deploy Application Playbook

```
- hosts: application-server
 vars:
   tomcat app base: /opt/tomcat/webapps
   webapp source path: ./demo-app-ansible-deploy-1.0-SNAPSHOT.war
   webapp target name: demo
 tasks:
    - name: stop tomcat
     # service: name=tomcat state=stopped
     command: service tomcat stop

    name: wait tomcat shutdown

     wait for: port=8080 state=stopped timeout=60
    - name: cleanup {{ webapp_target_name }}
     file: name={{tomcat app base}}/{{ webapp target name }} state=absent
    - name: delete previous backup
     file: path={{ tomcat app base }}/{{ webapp target name }}.war.previous state=absent

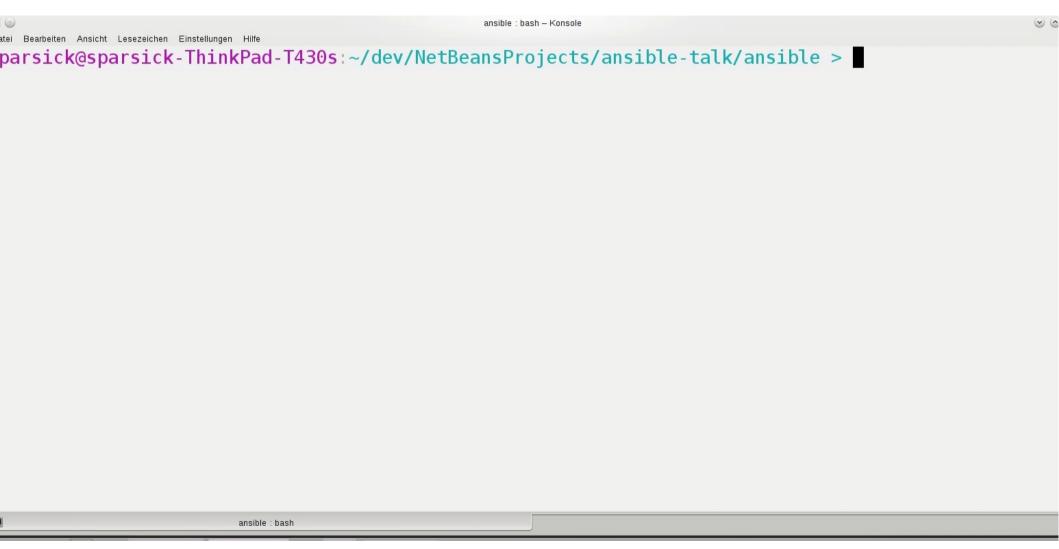
    name: create new backup

     command: mv {{ tomcat app base }}/{{ webapp target name }}.war {{ tomcat app base }}/{{ webapp target name }}.war.previous
     ignore errors: yes
    - name: copy webapp {{ webapp source path }} to {{ webapp target name }}
     copy: src={{ webapp source path }} dest={{ tomcat app base }}/{{ webapp target name }}.war mode=660

    name: start tomcat

     #service: name=tomcat state=started
     command: service tomcat start
    - name: wait for tomcat to start
     wait for: port=8080 timeout=60
```

Deploy Application Playbook









JUnit 5 Das nächste große Release steht vor der Tür

Ansible Konfigurationsmanagement auch für Entwickler

Spring Boot Starter Komfortable Modularisierung und Konfiguration



Software organisieren



Ansible - warum Konfigurationsmanagement auch für Entwickler interessant sein kann

Sandra Parsick

Download



http://bit.ly/2cZ0IrZ

Without Feedback, None of the Other Aspects of CI is useful.

The Right Information Must Be Sent to The Right Person at The Right Time and In The Right Way

Beware of Information Overload

Continuous Feedback is reducing the time between a defect is introduced, discovered, and fixed

Continuous Feedback

The Right Way

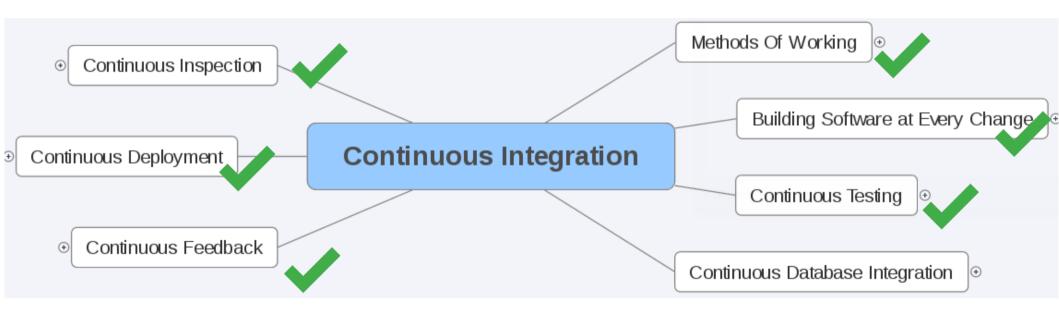


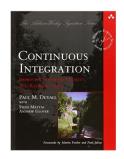


CI-Eye



Continuous Integration





Vielen Dank!

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