DevOps and Continuous Delivery Reference Architectures

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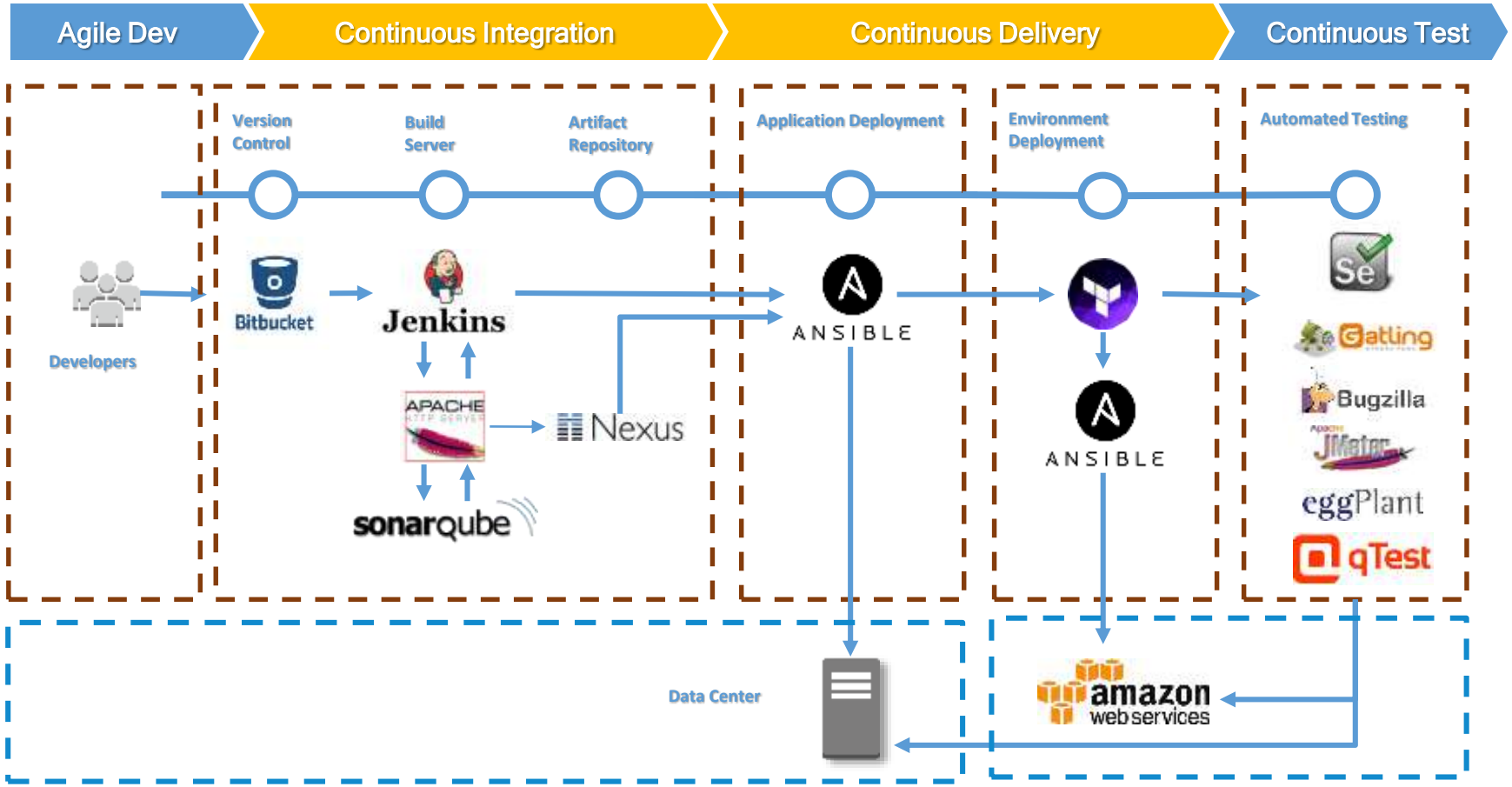
2017

Common Elements of the Software Supply Chain

According to TUI

CI/CD Deployment Pipeline (Technology)



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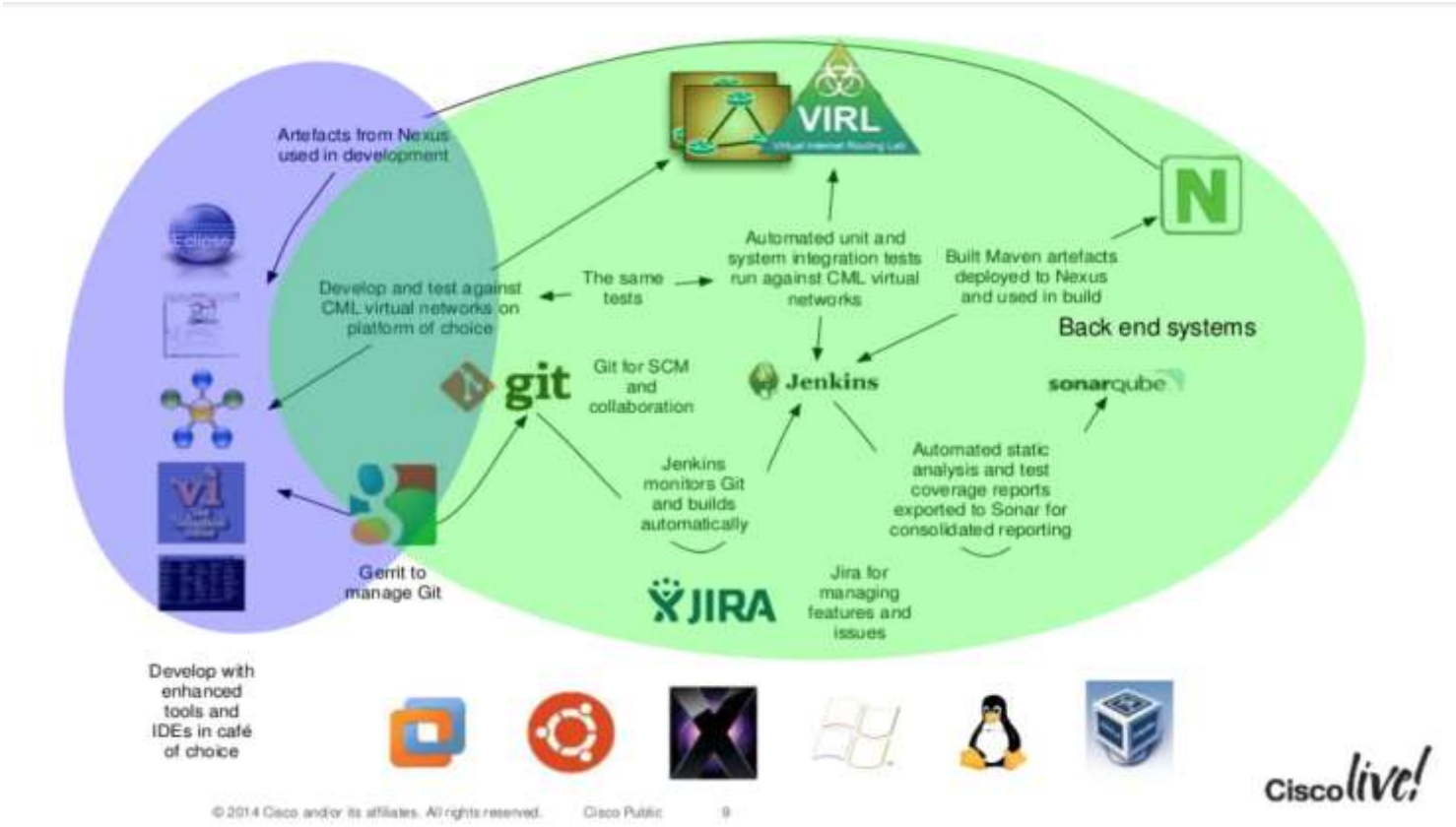

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Link to Presentation: Enabling DevOps

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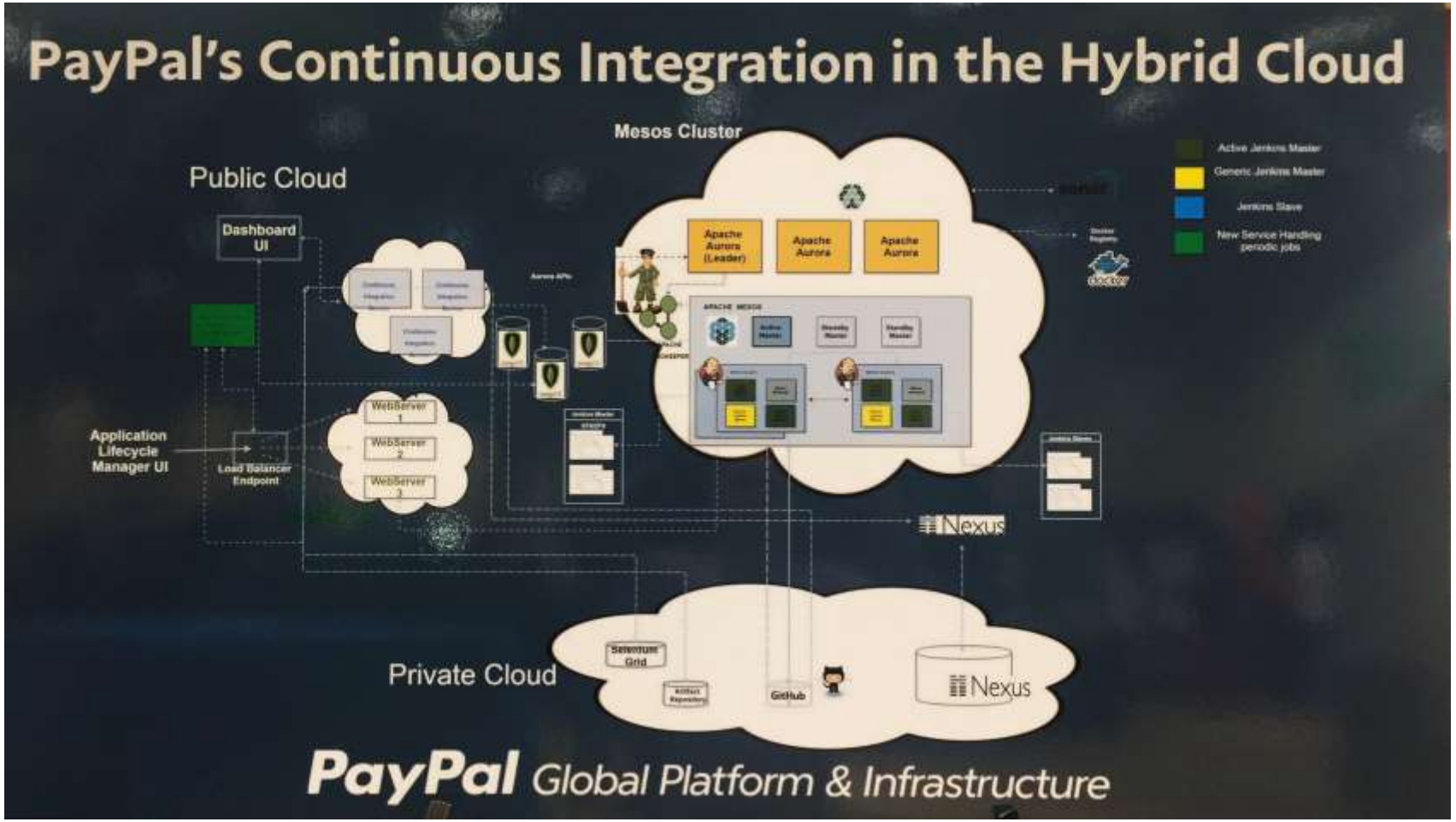

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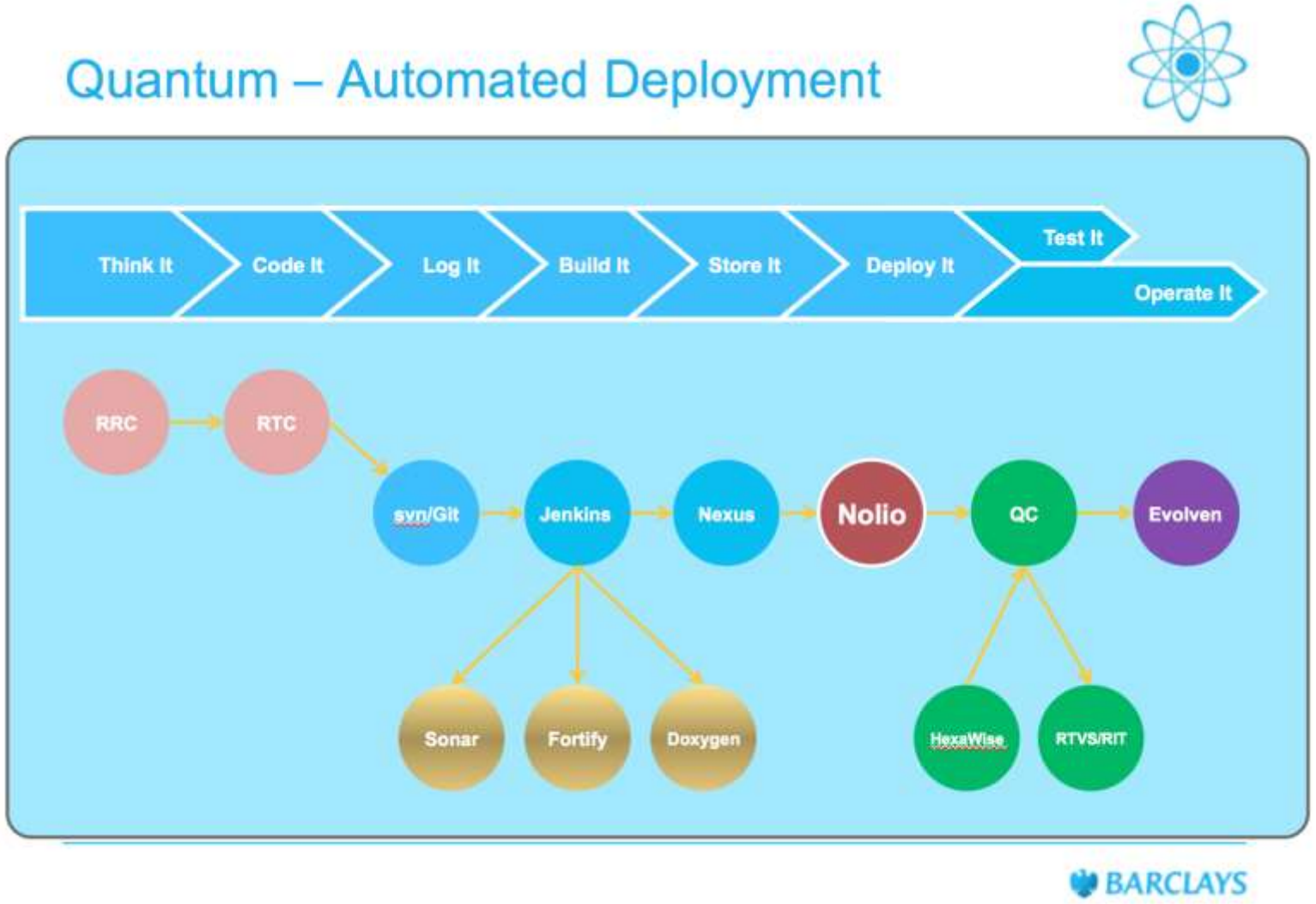

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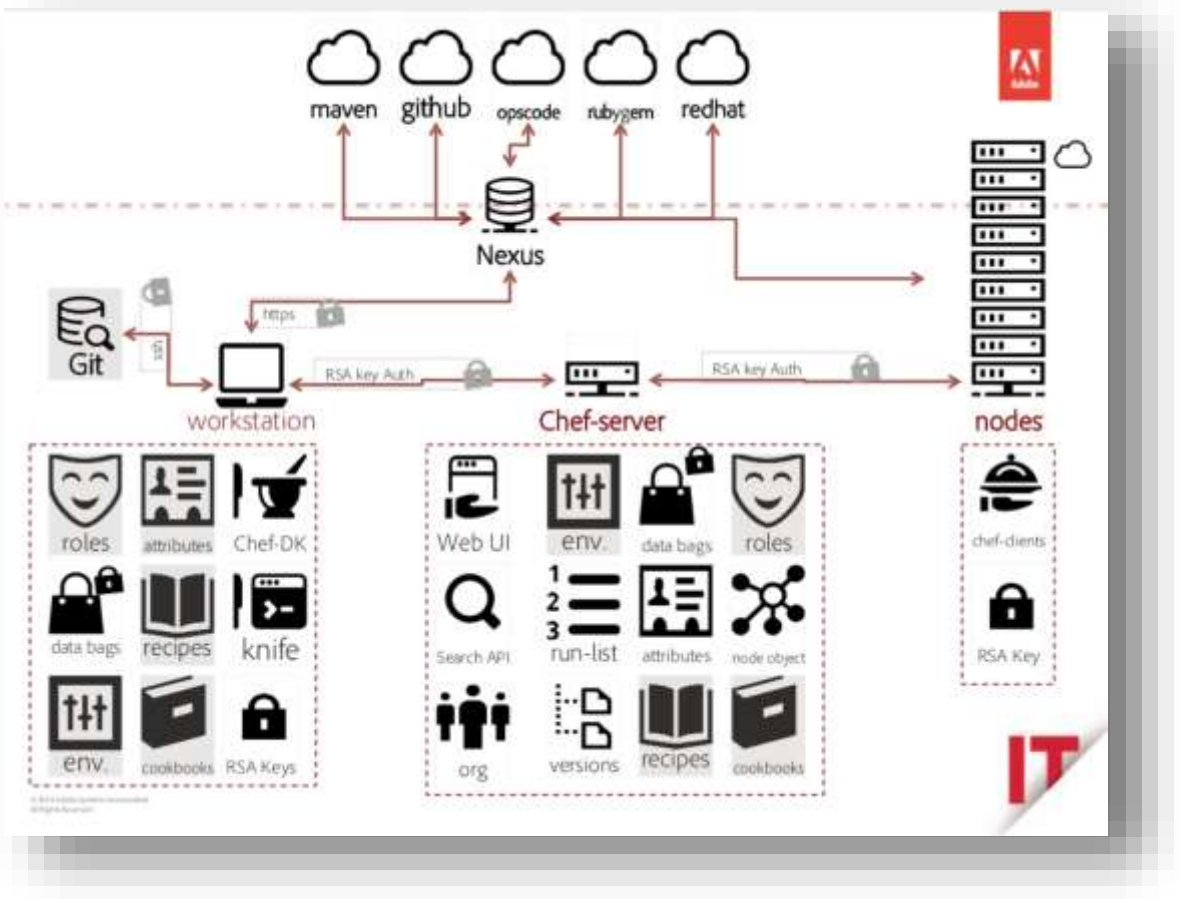

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Link to Presentation: Master Chef Class

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Gartner

DevSecOps: How to Seamlessly Integrate Security Into DevOps

Published: 30 September 2016 **ID:** G00315283

Analyst(s): Neil MacDonald, Ian Head

Information security architects must integrate security at multiple points into DevOps workflows in a collaborative way that is largely transparent to developers, and preserves the teamwork, agility and speed of DevOps and agile development environments, delivering "DevSecOps."

Key Challenges

- DevOps compliance is a top concern of IT leaders, but information security is seen as an inhibitor to DevOps agility.
- Security infrastructure has lagged in its ability to become "software defined" and programmable, making it difficult to integrate security controls into DevOps-style workflows in an automated, transparent way.
- Modern applications are largely "assembled," not developed, and developers often download and use known vulnerable open-source components and frameworks.

Recommendations

Information security architects should:

- Start with secure development and training, but don't make developers become security experts or switch tools.
- Embrace the concept of people-centric security and empower developers to take personal responsibility for security compensated for with monitoring. Embrace a "trust and verify" mindset.
- Require all information security platforms to expose full functionality via APIs for automatability.
- Use proven version control practices and tools for all application software and, equally as important, for all scripts, templates and blueprints used in DevOps environments.
- Adopt an immutable infrastructure mindset where production systems are locked down and changed via development.

Learn more about DevOps and Security.

www.sonatype.com/DevSecOps

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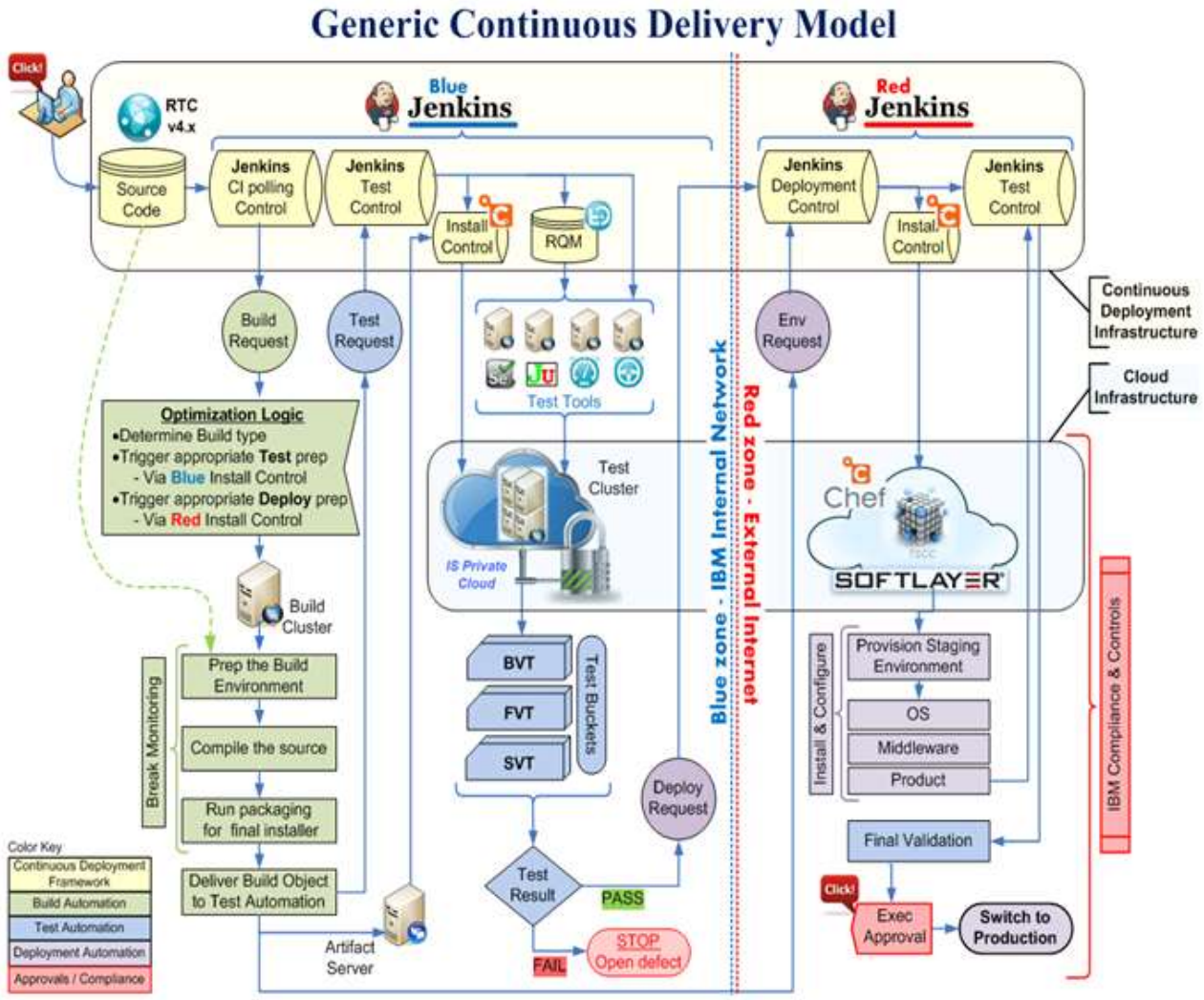
According to IBM



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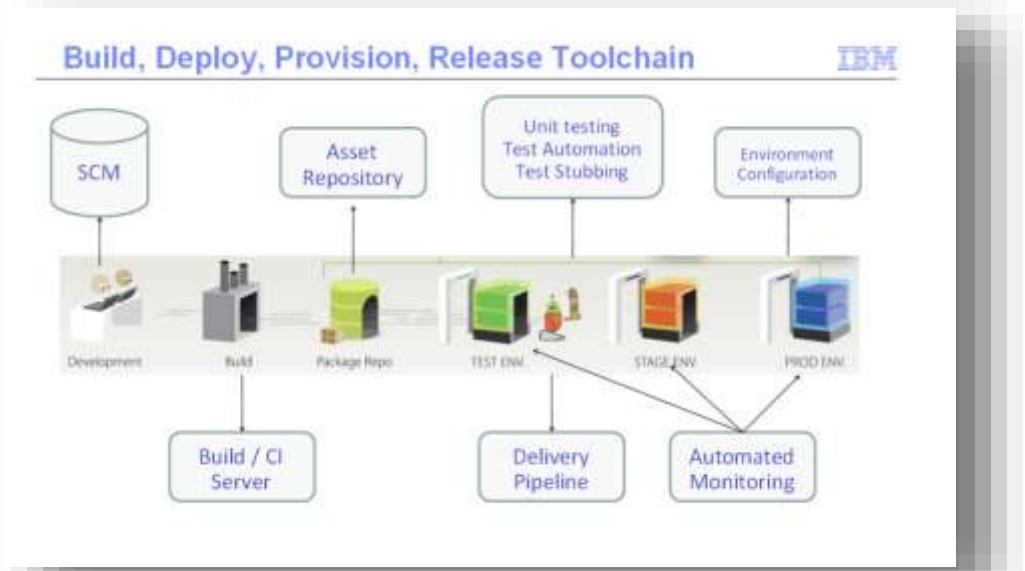

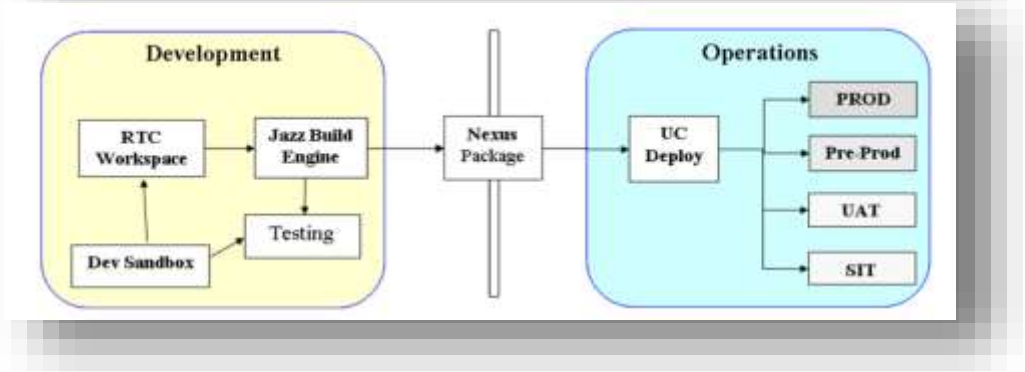

Link to Blog: DevOps Best Practice
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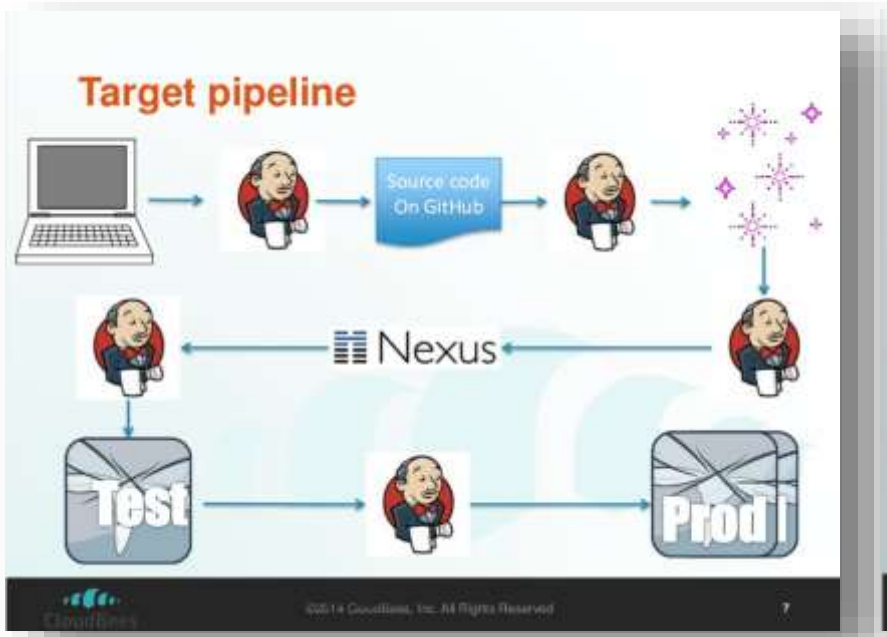
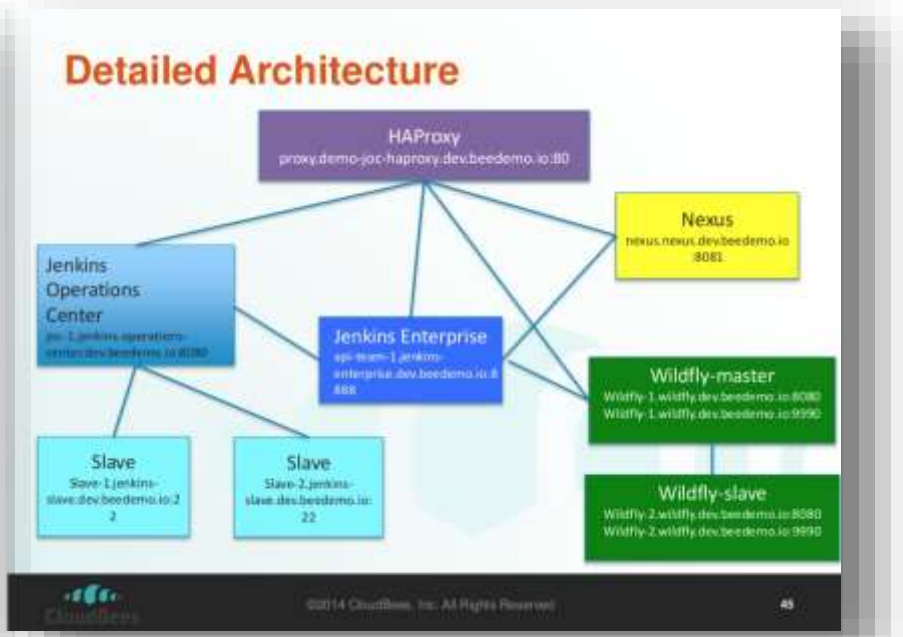
According to Cloudbees

CloudBees





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According to US Patent & Trade Office (USPTO)

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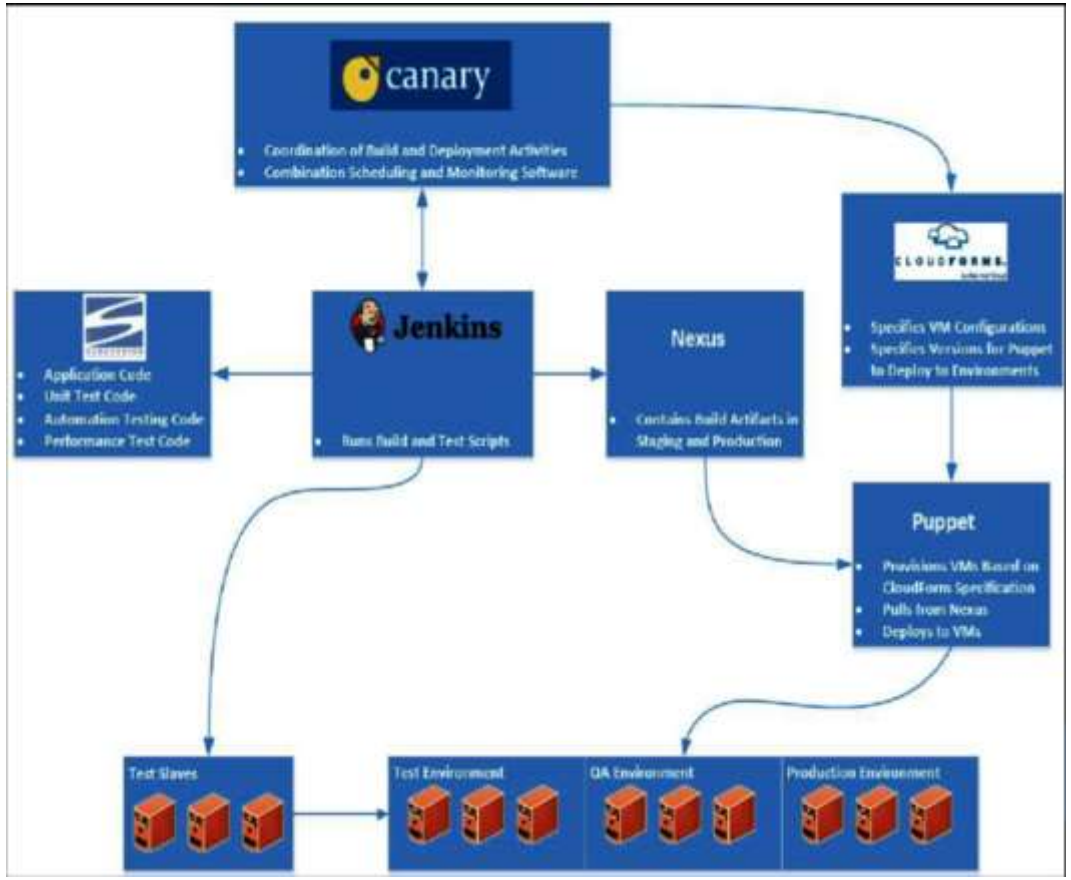

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Link to Presentation: DevOps and American Innovation

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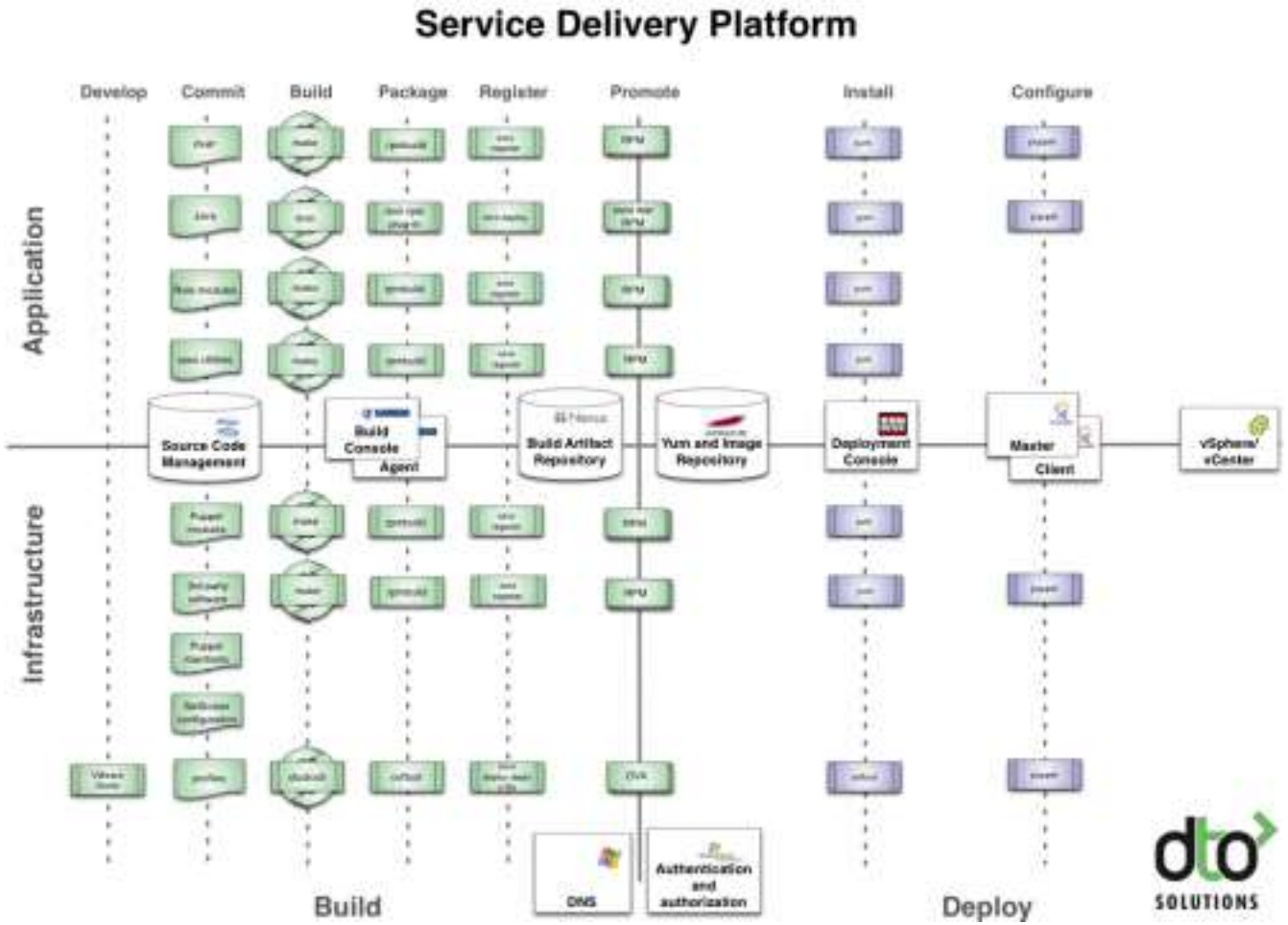

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Link to Blog: What is DevOps
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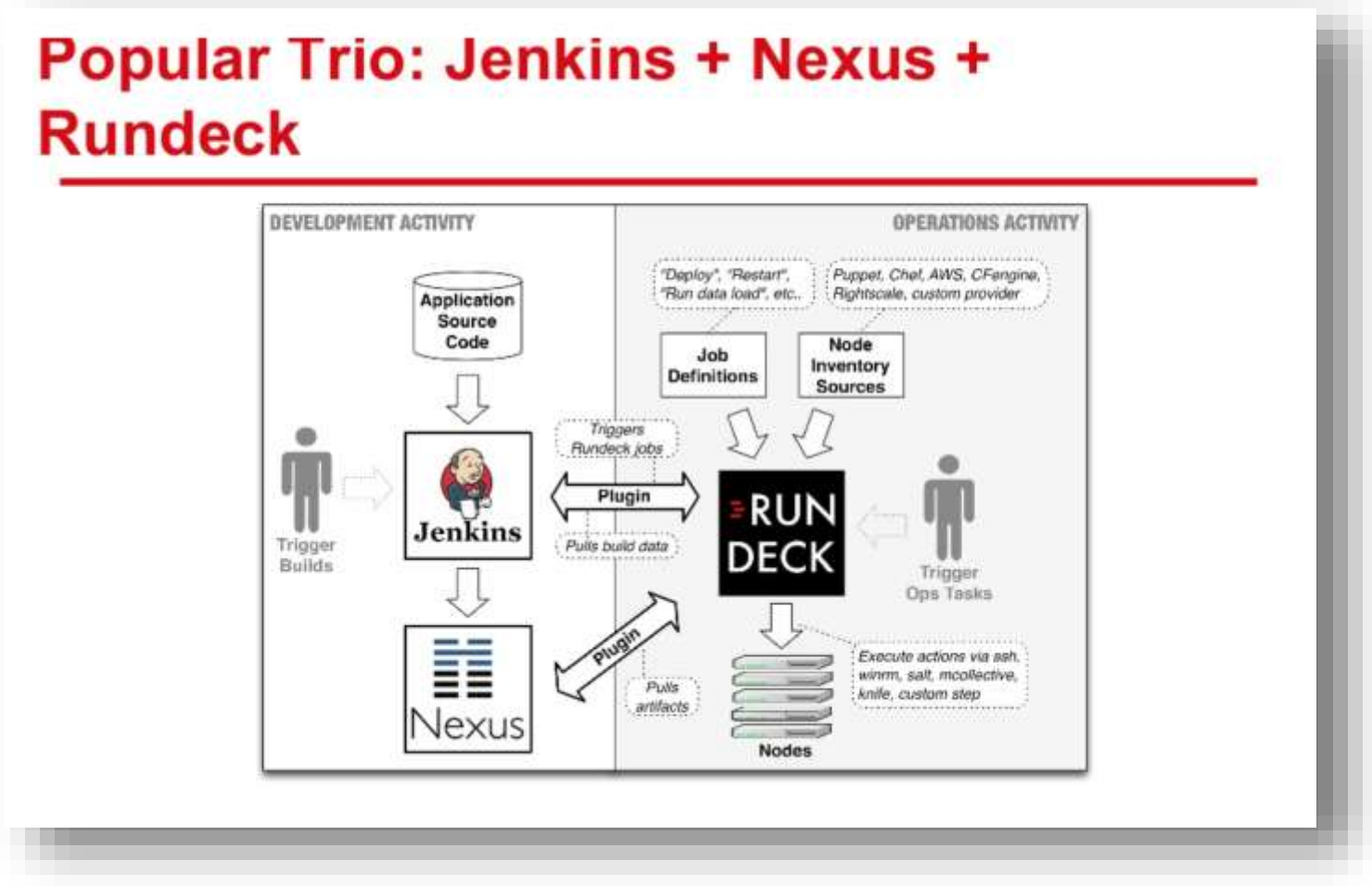

Link to Presentation: Rundeck + Nexus

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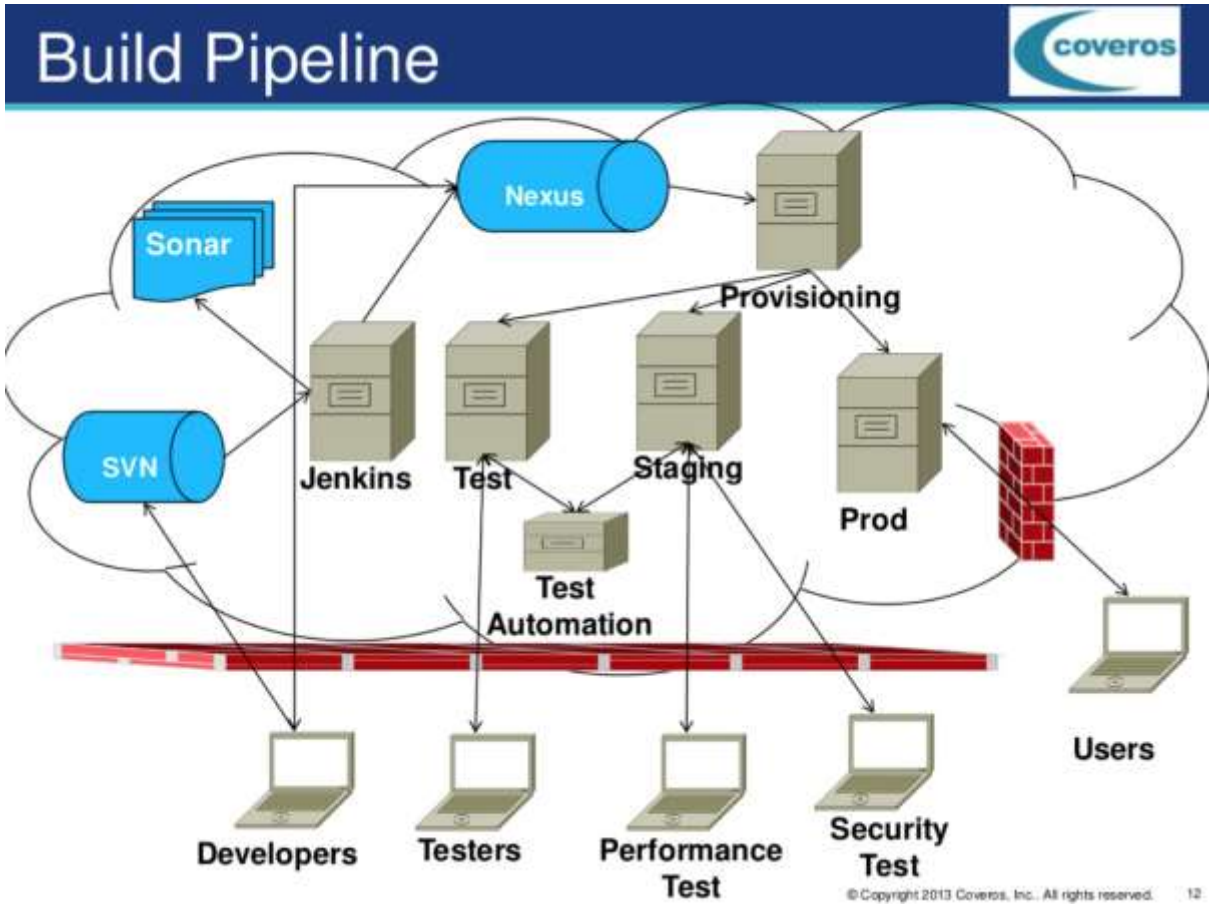

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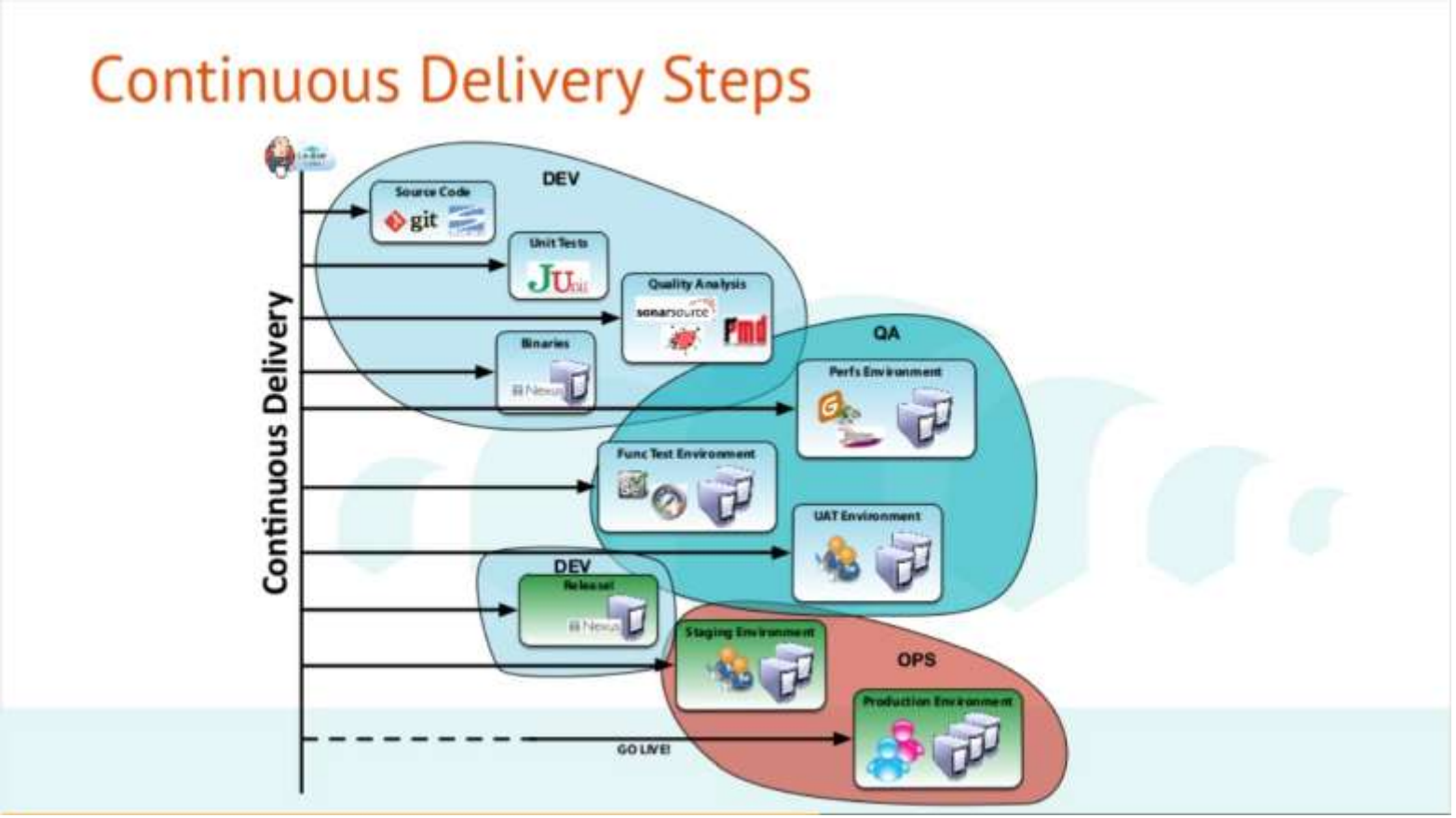

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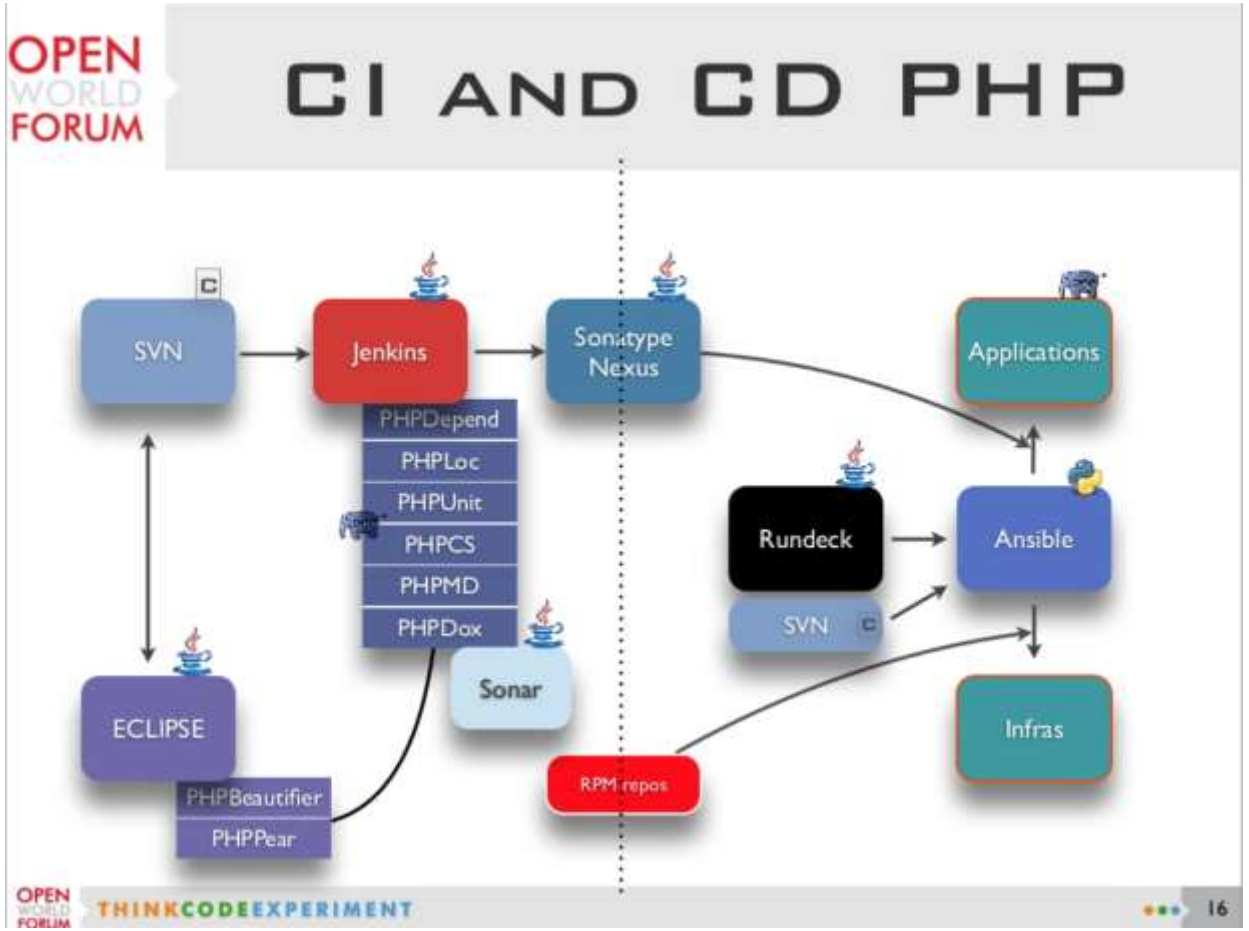
Nexus at Alter Way

Alter Way



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Link to Presentation: Agnostic Continuous Delivery

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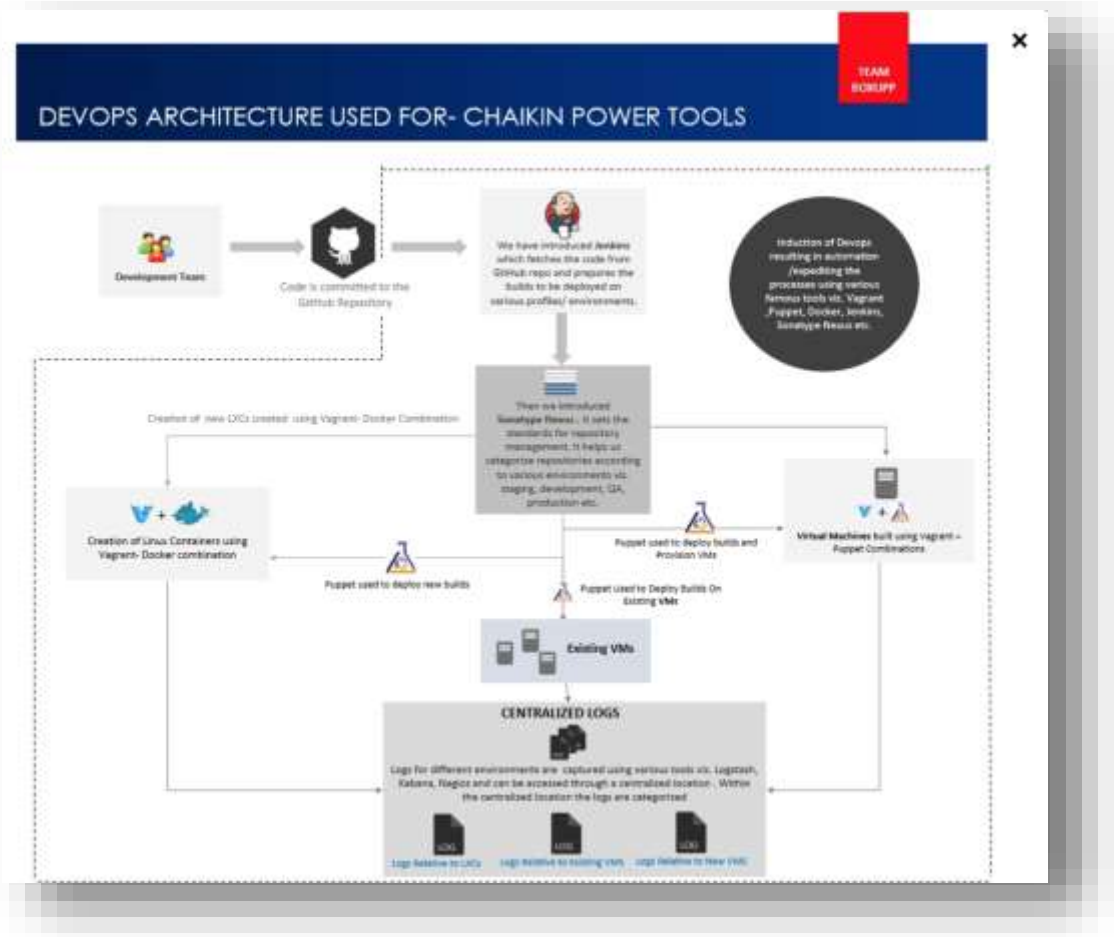

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Link to Blog: A DevOps Perspective

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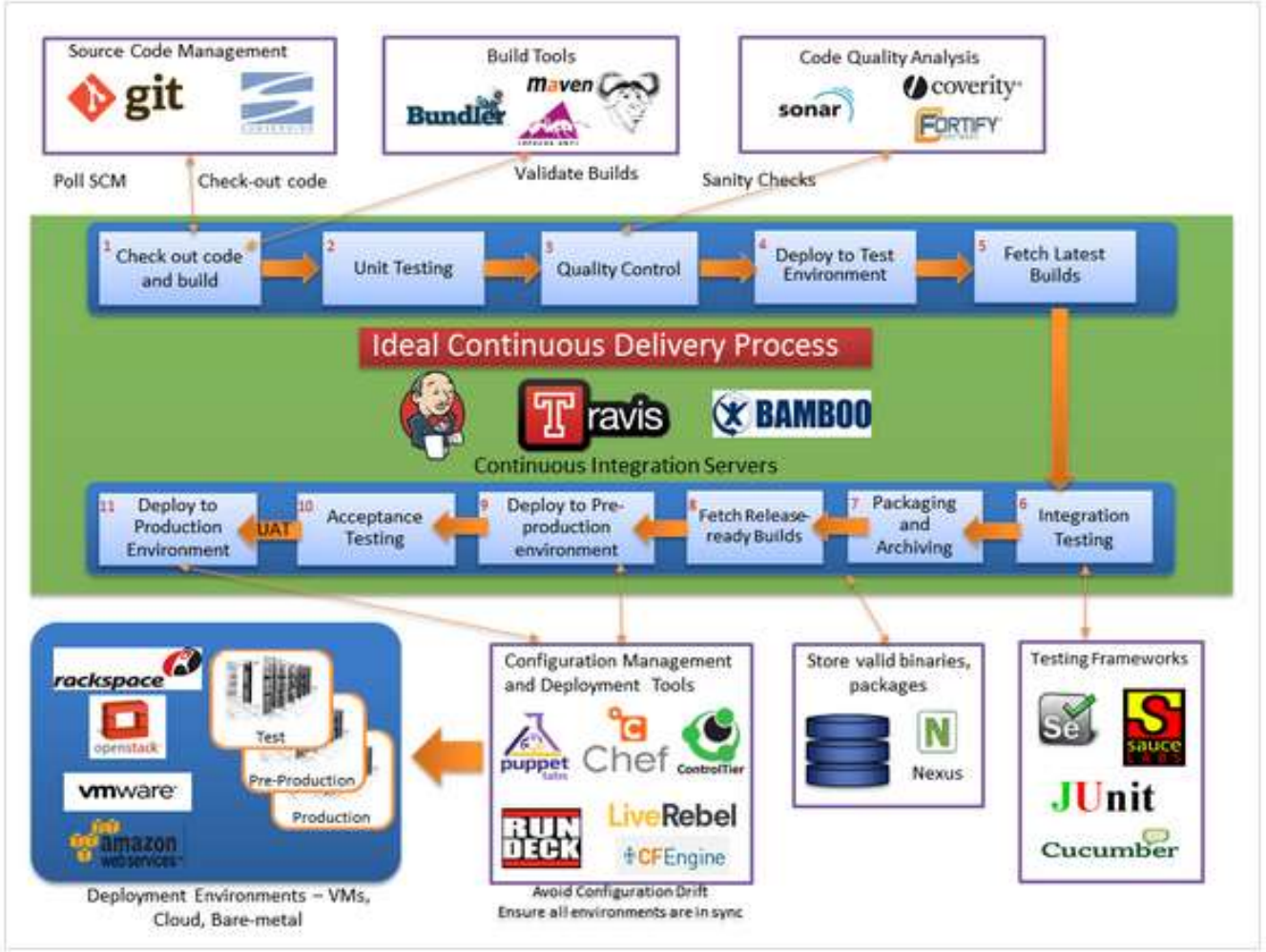

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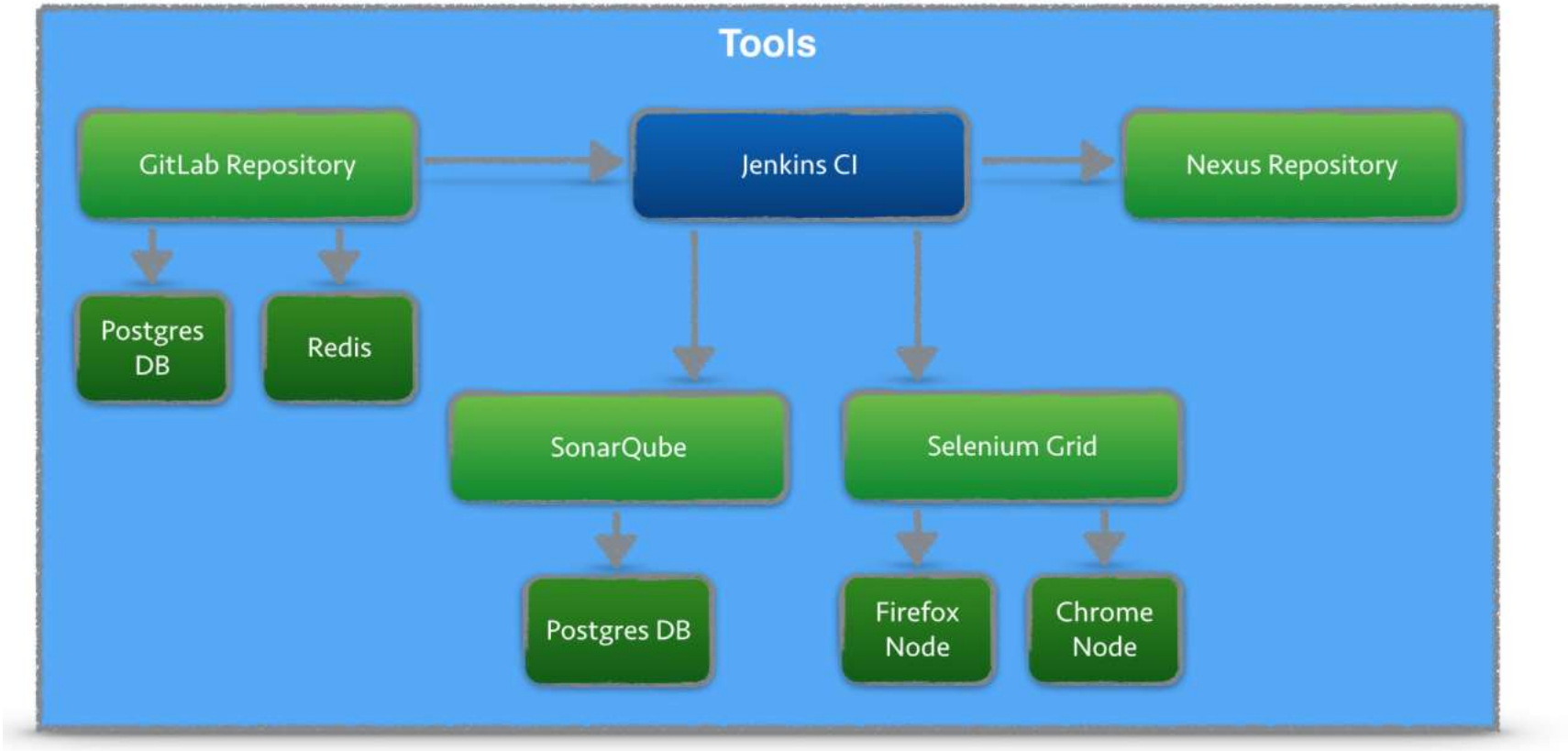
According to codecentric

codecentric

Continuous Integration Platform Using Docker Containers: Jenkins, SonarQube, Nexus, GitLab



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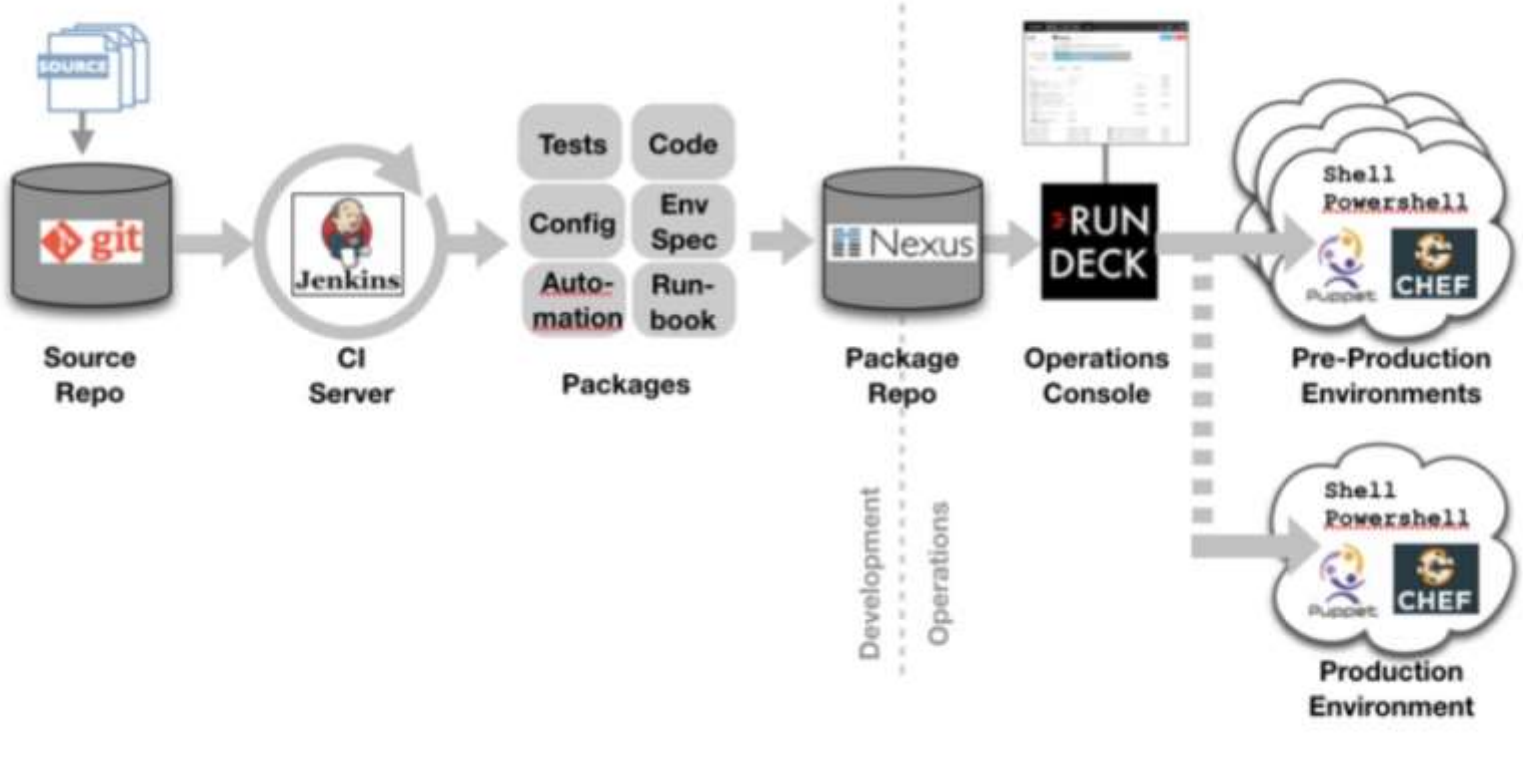
According to SimplifyOps

#SimplifyOps



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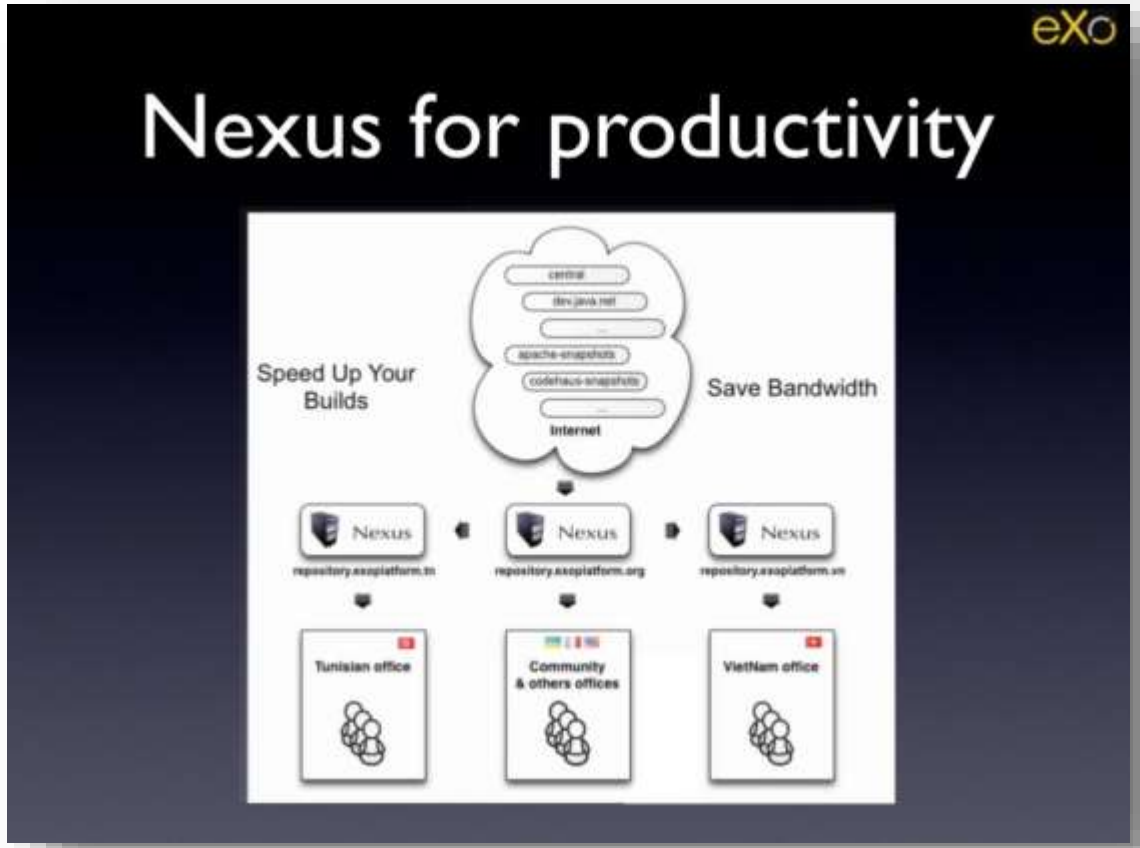

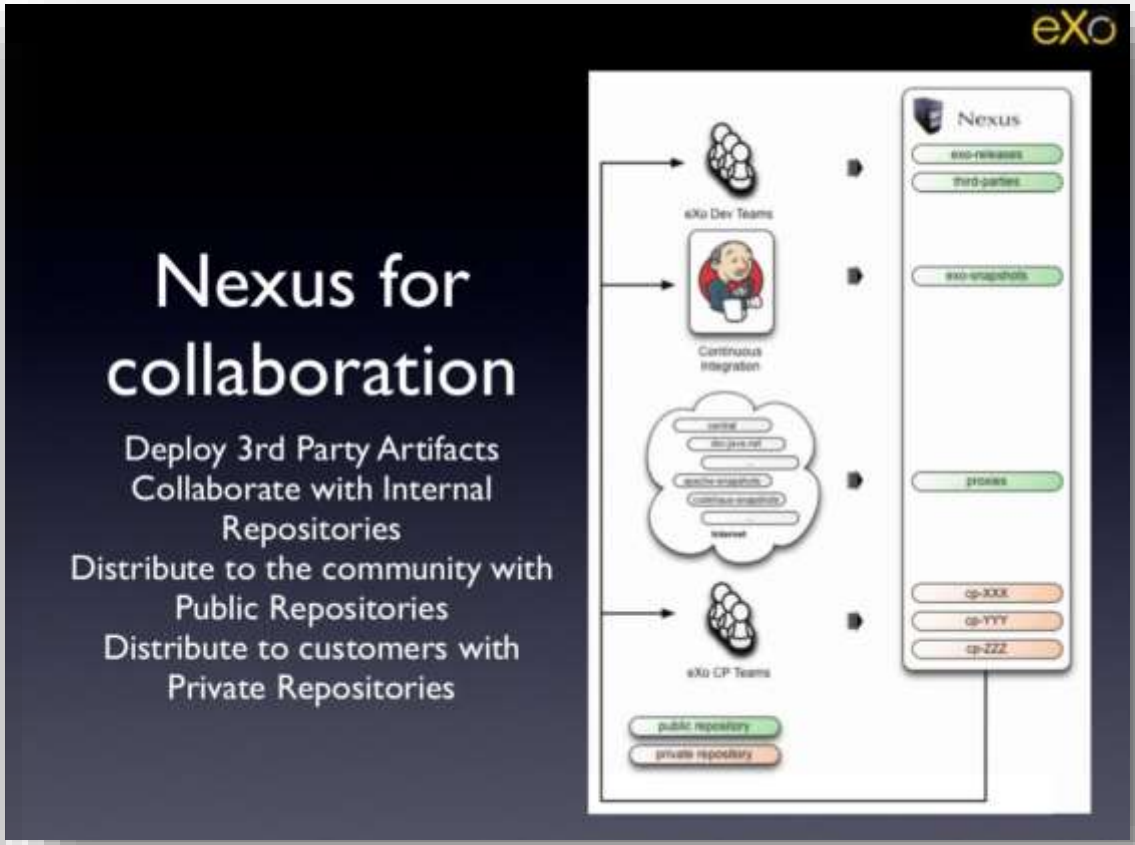

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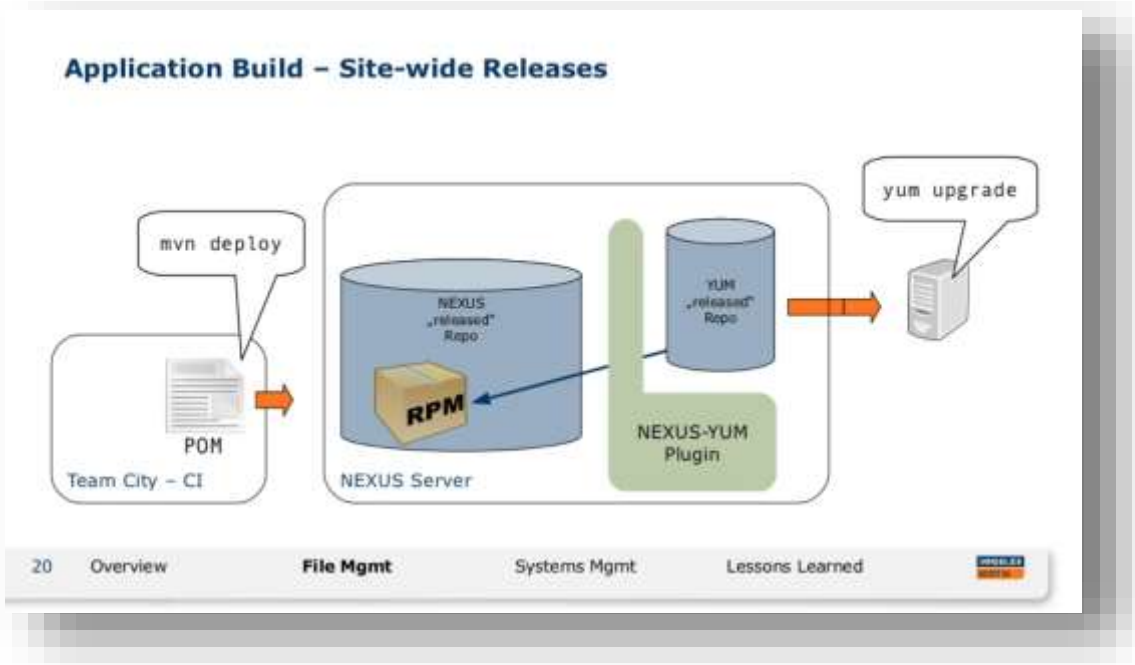

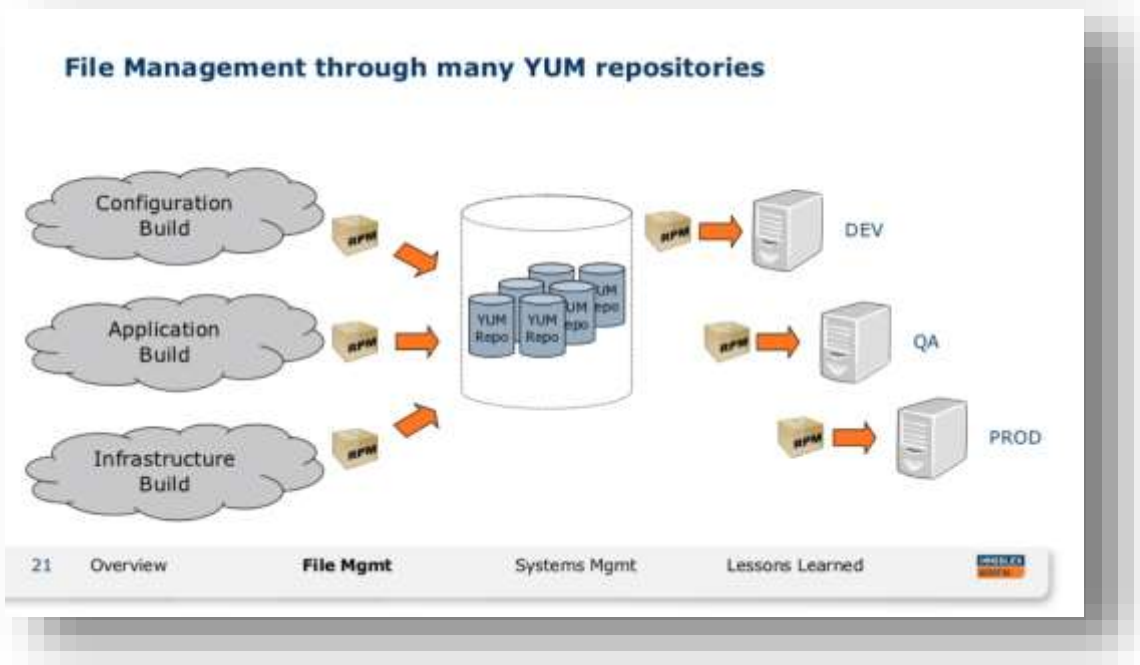

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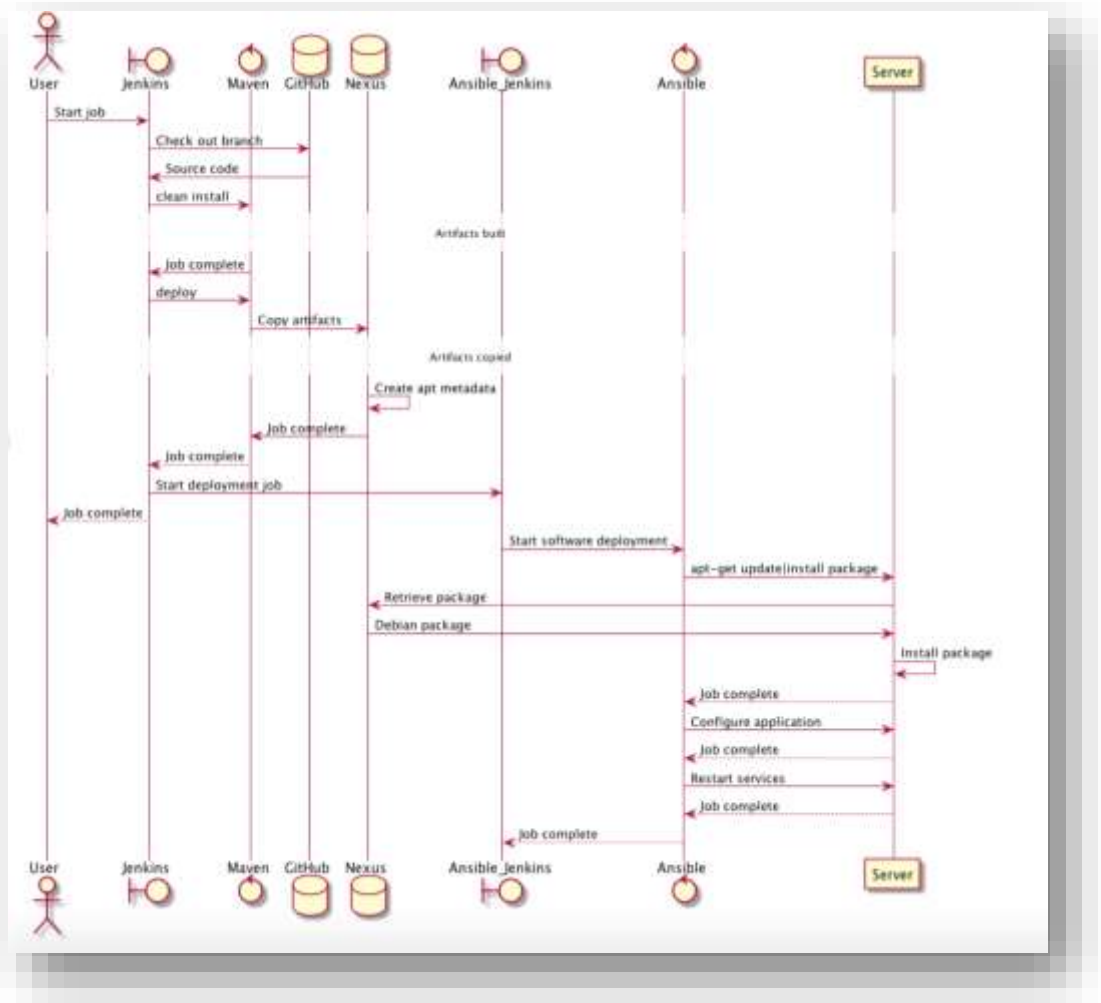

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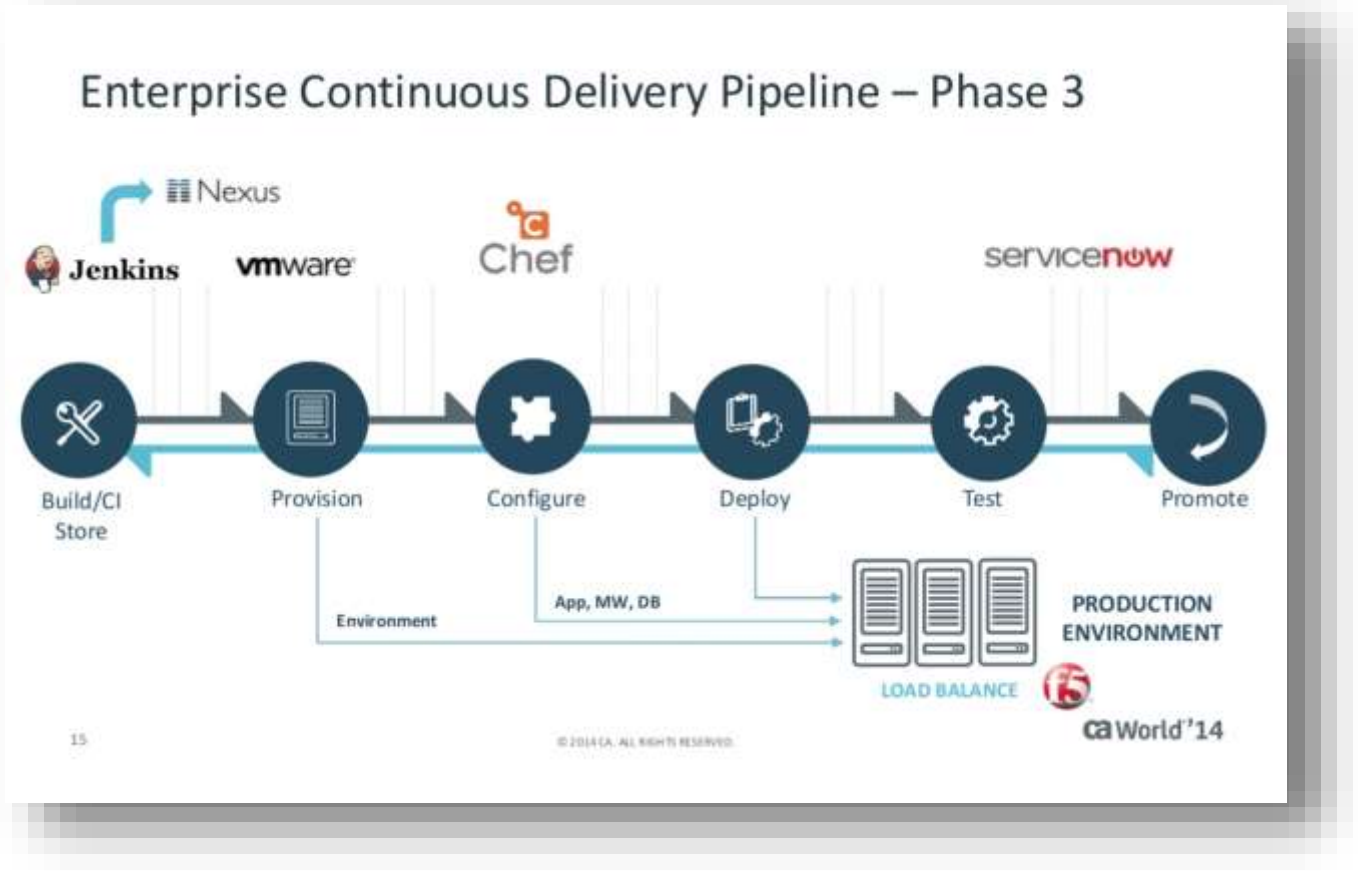

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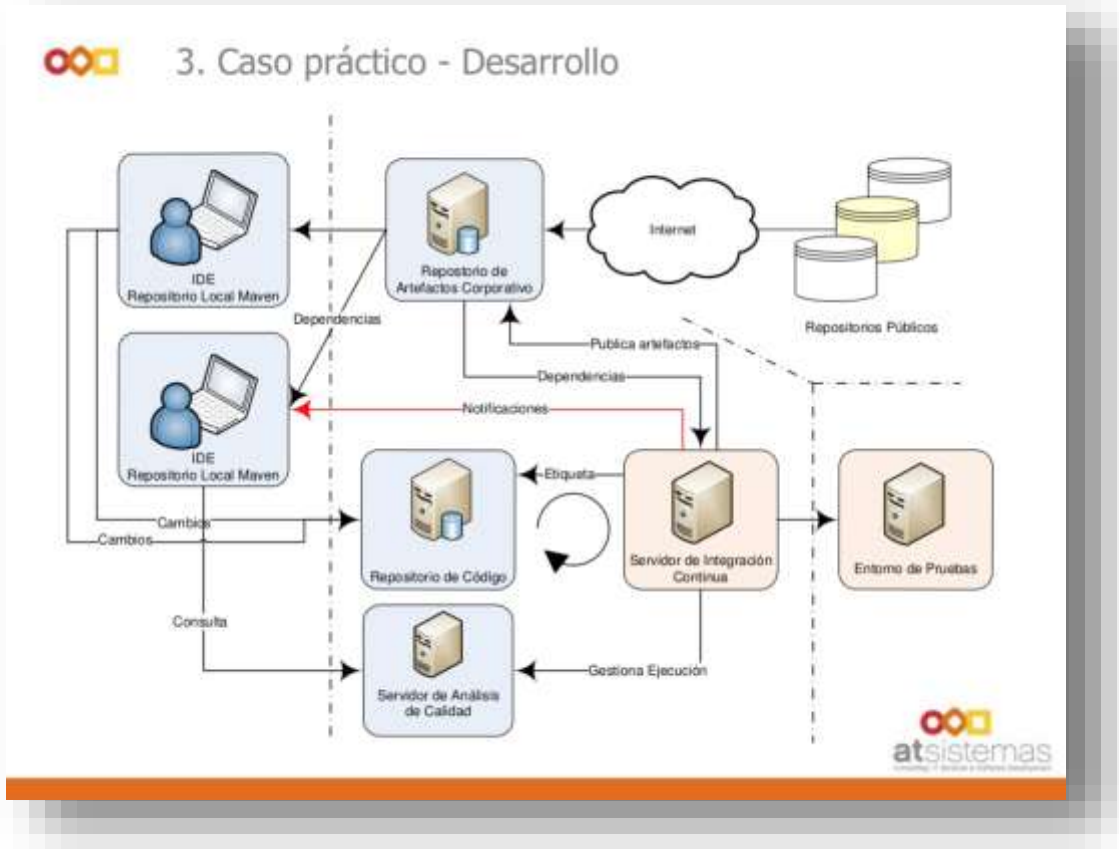

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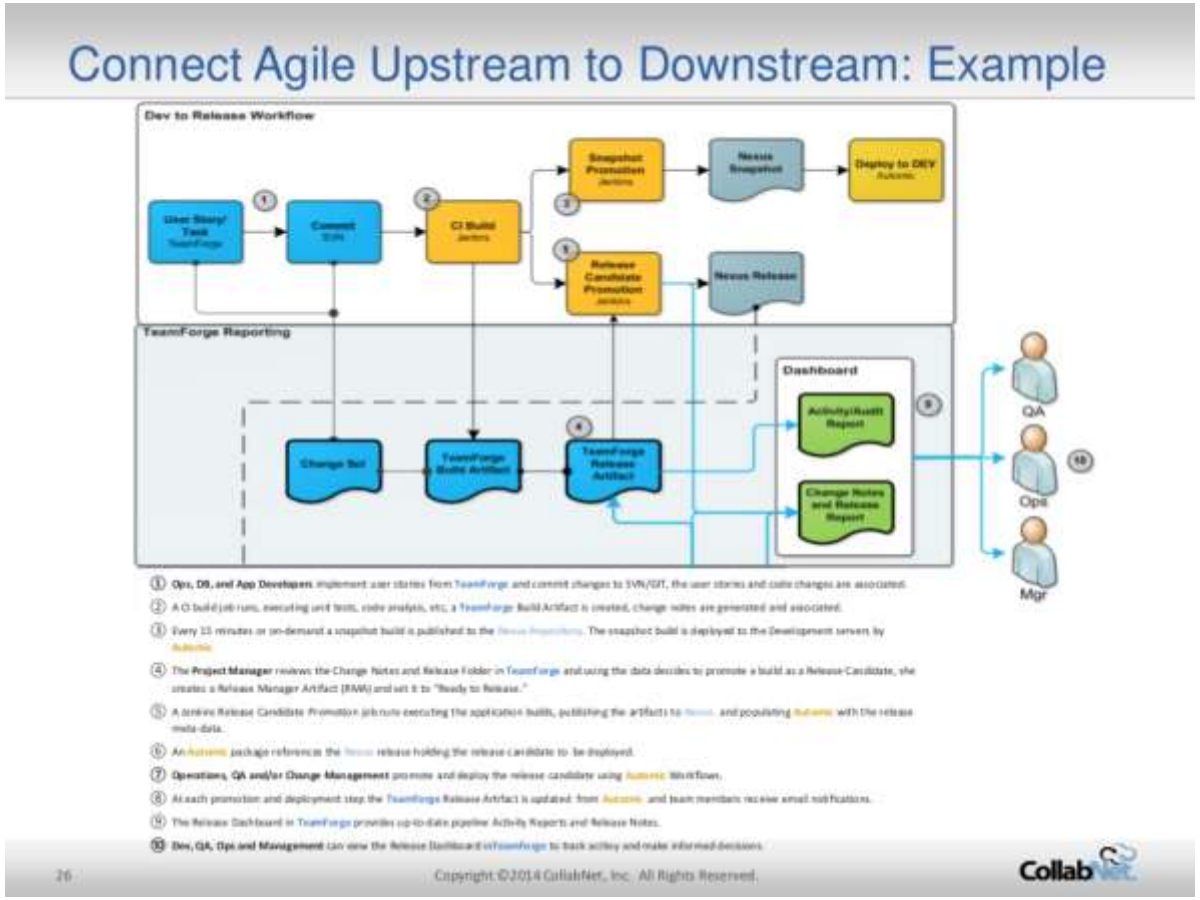

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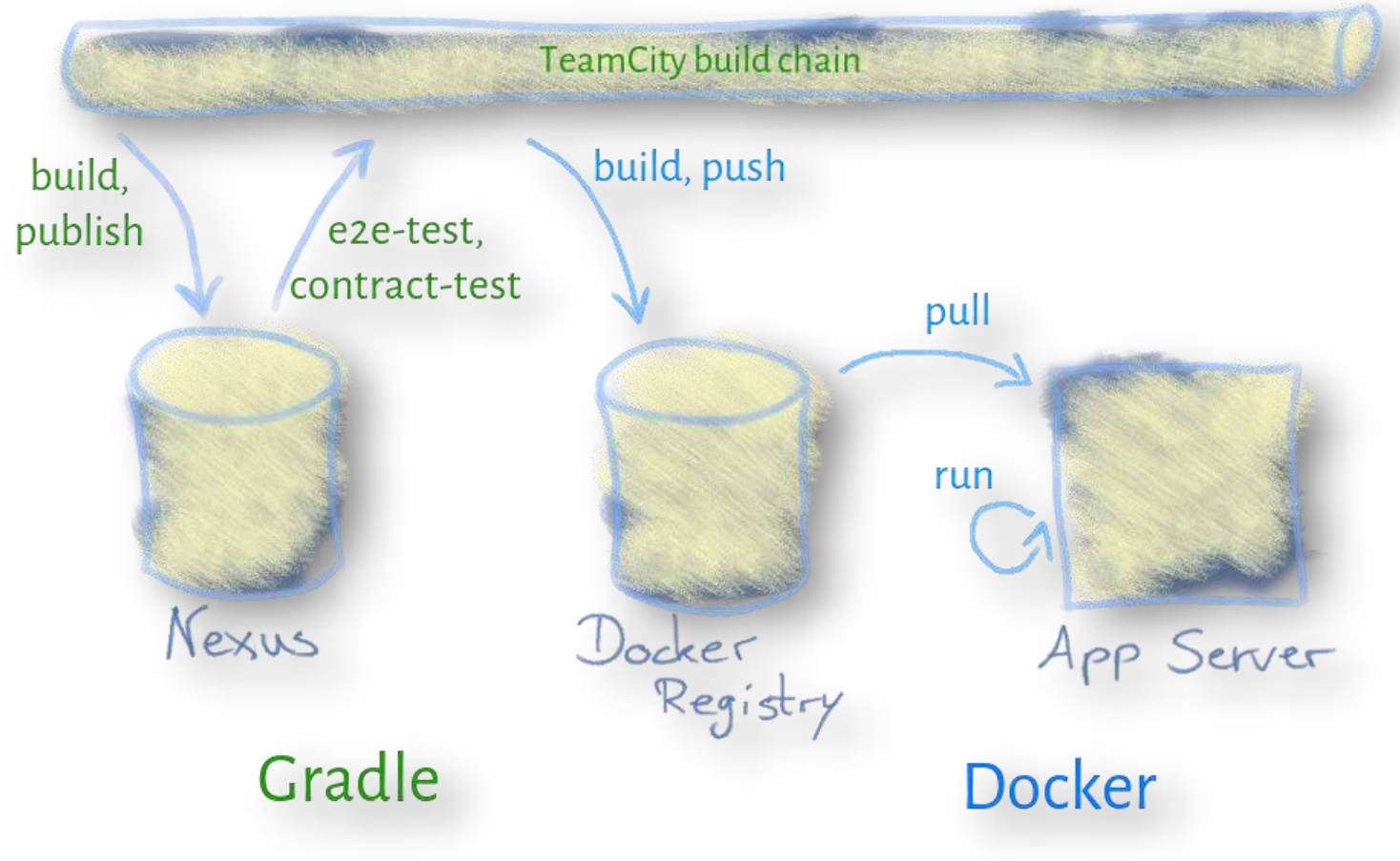

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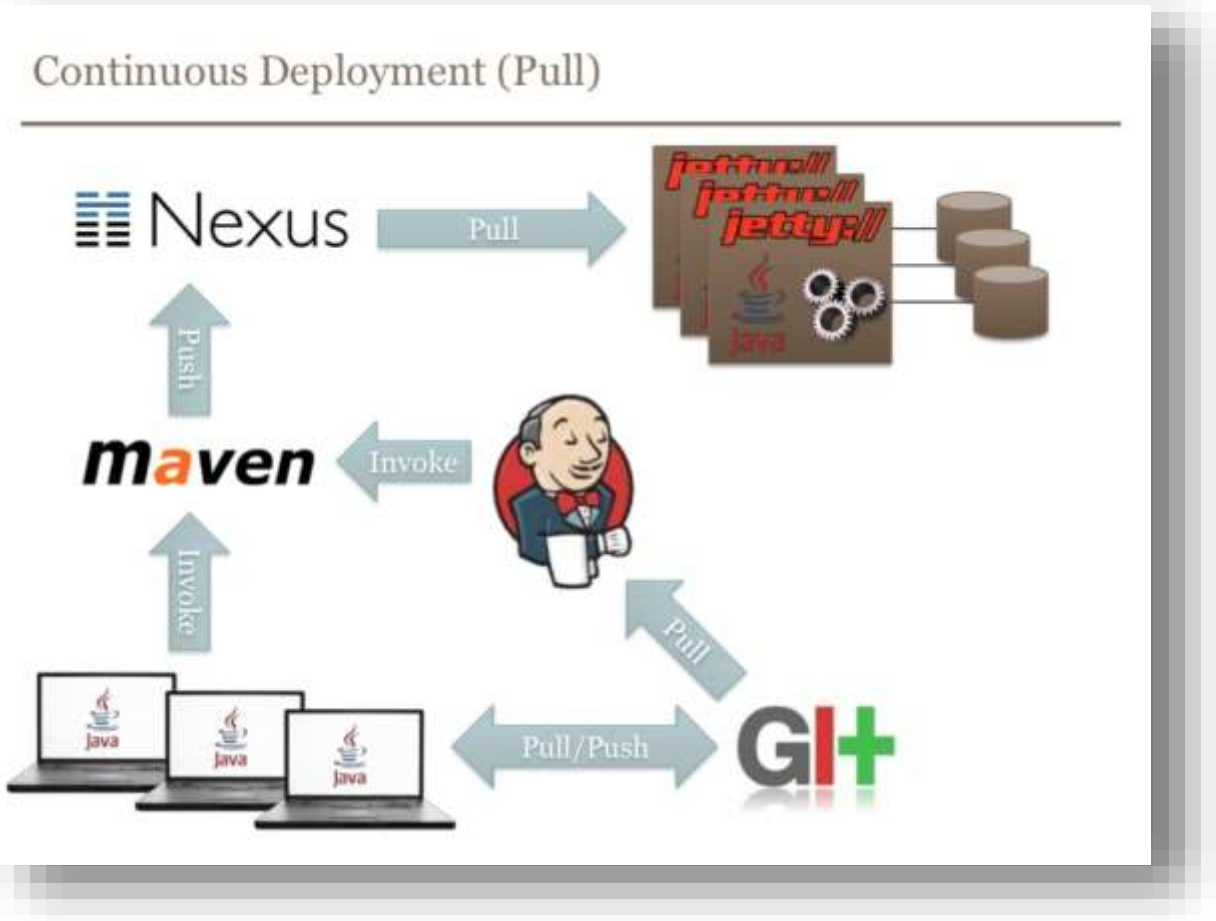

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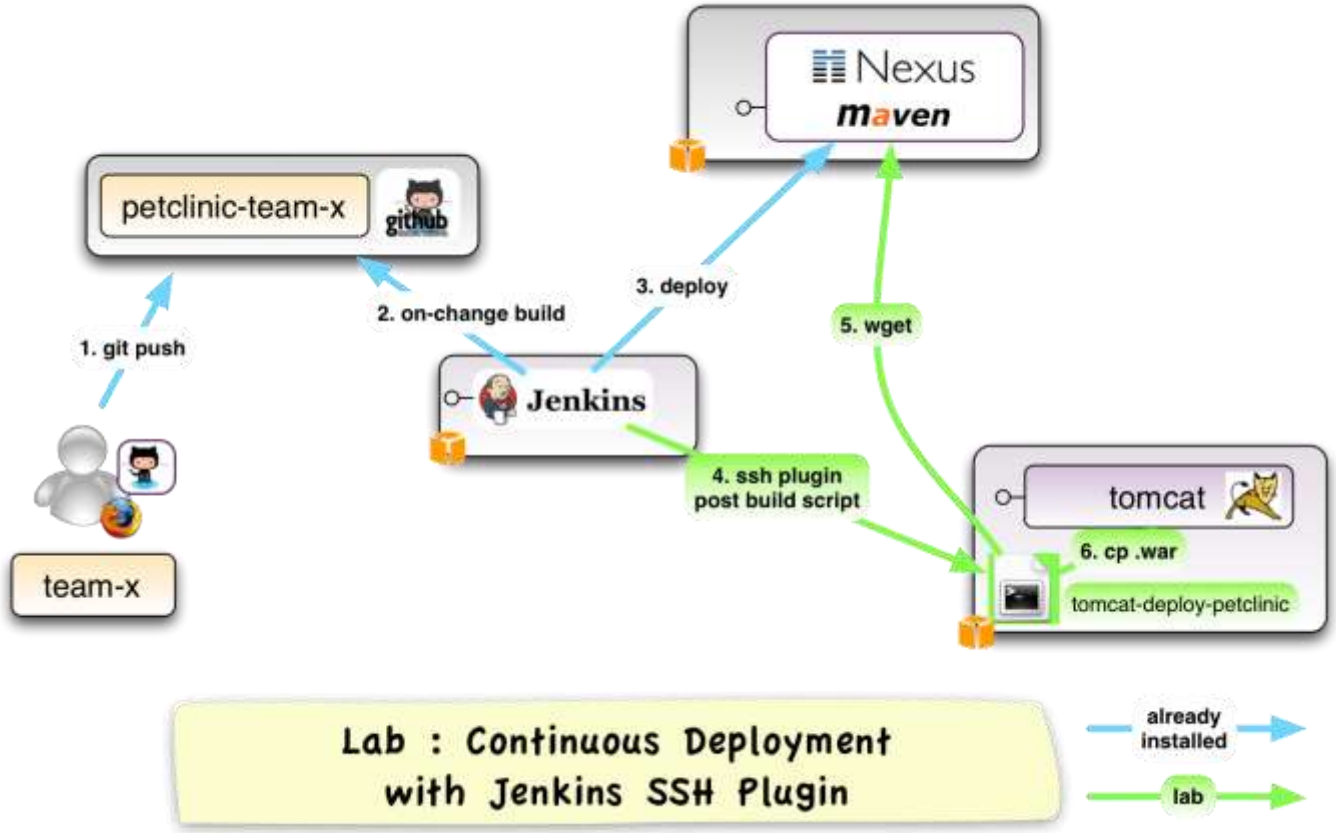

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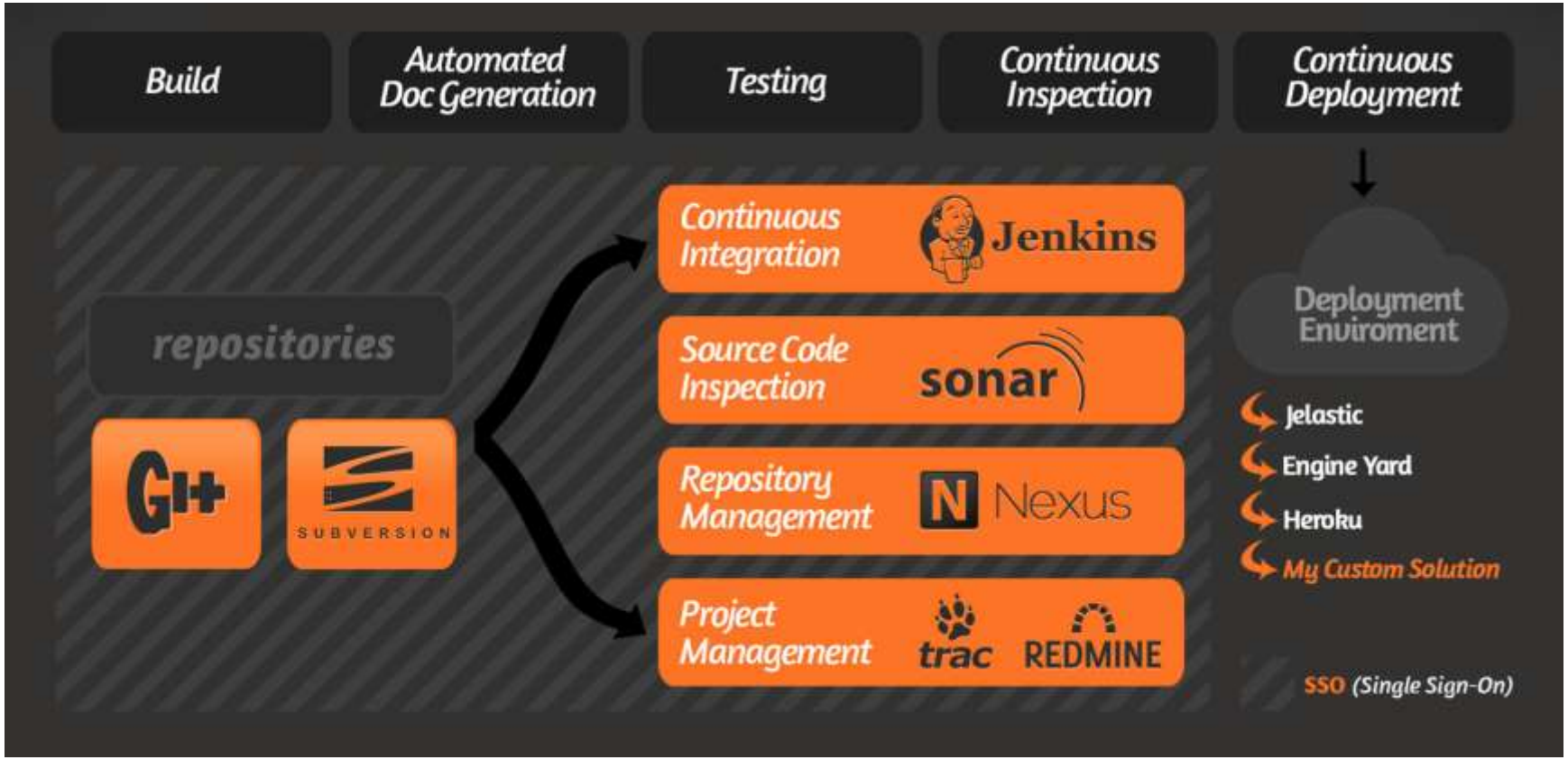

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Link to Blog: http://blog.clinkerhq.com

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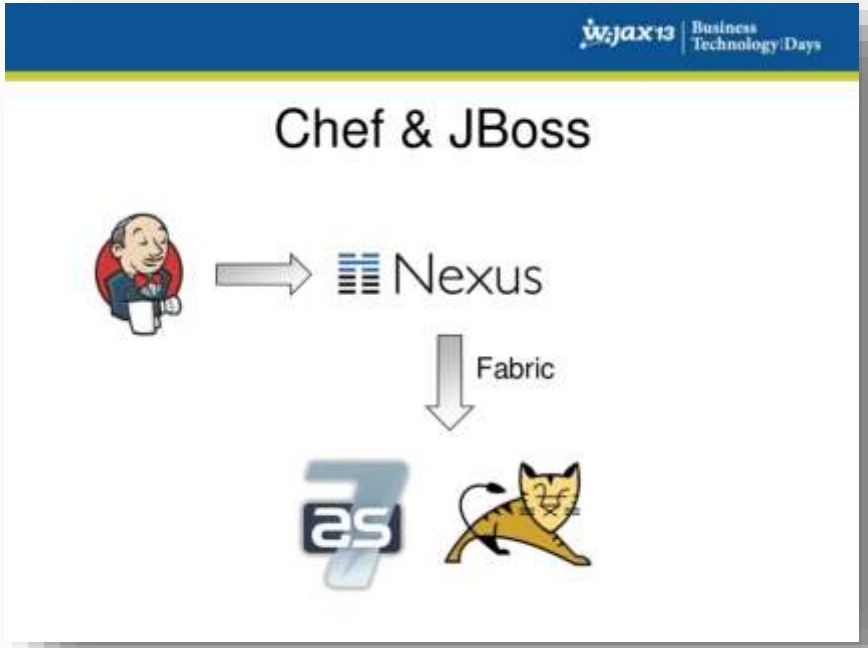

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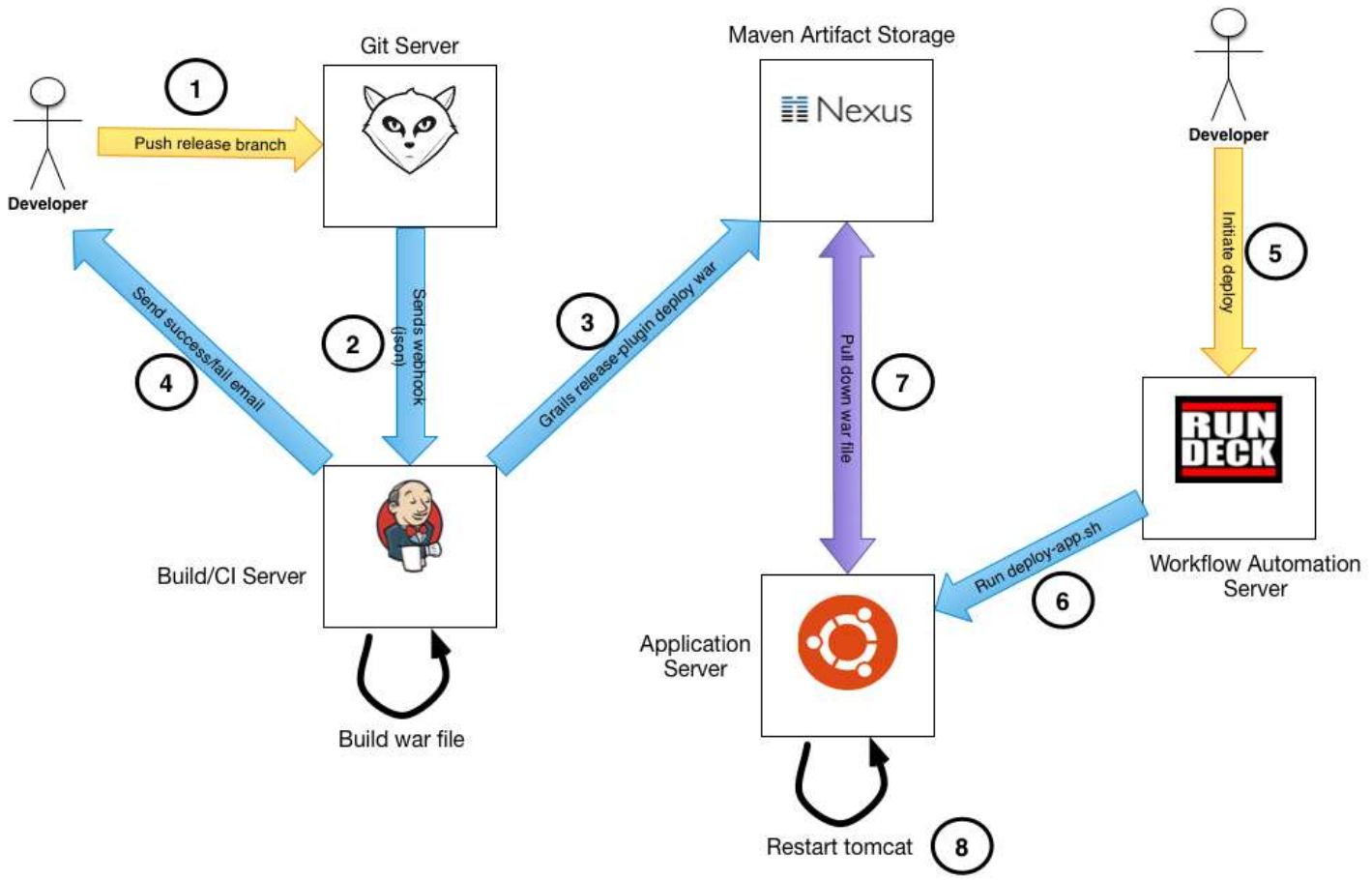

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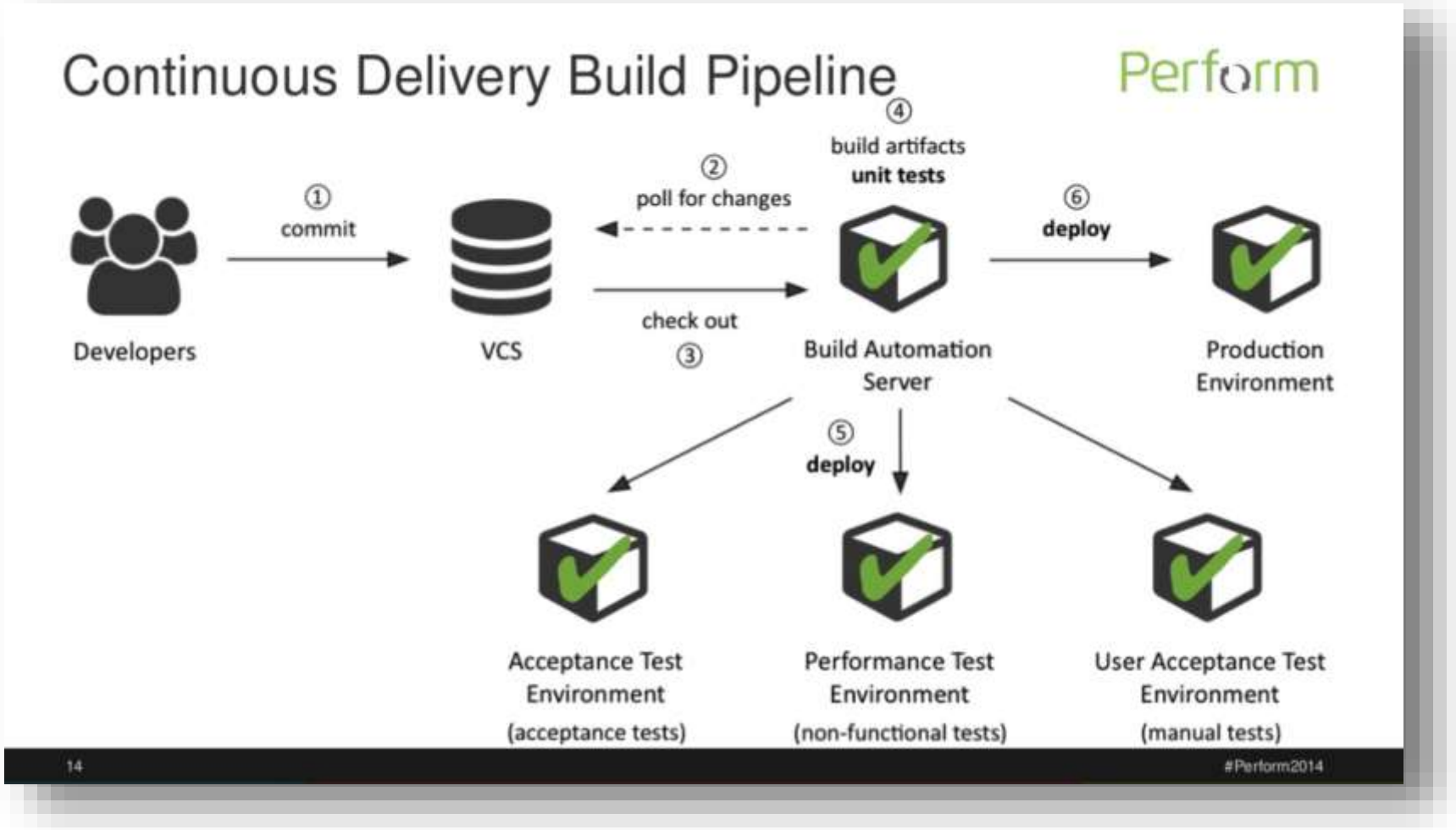

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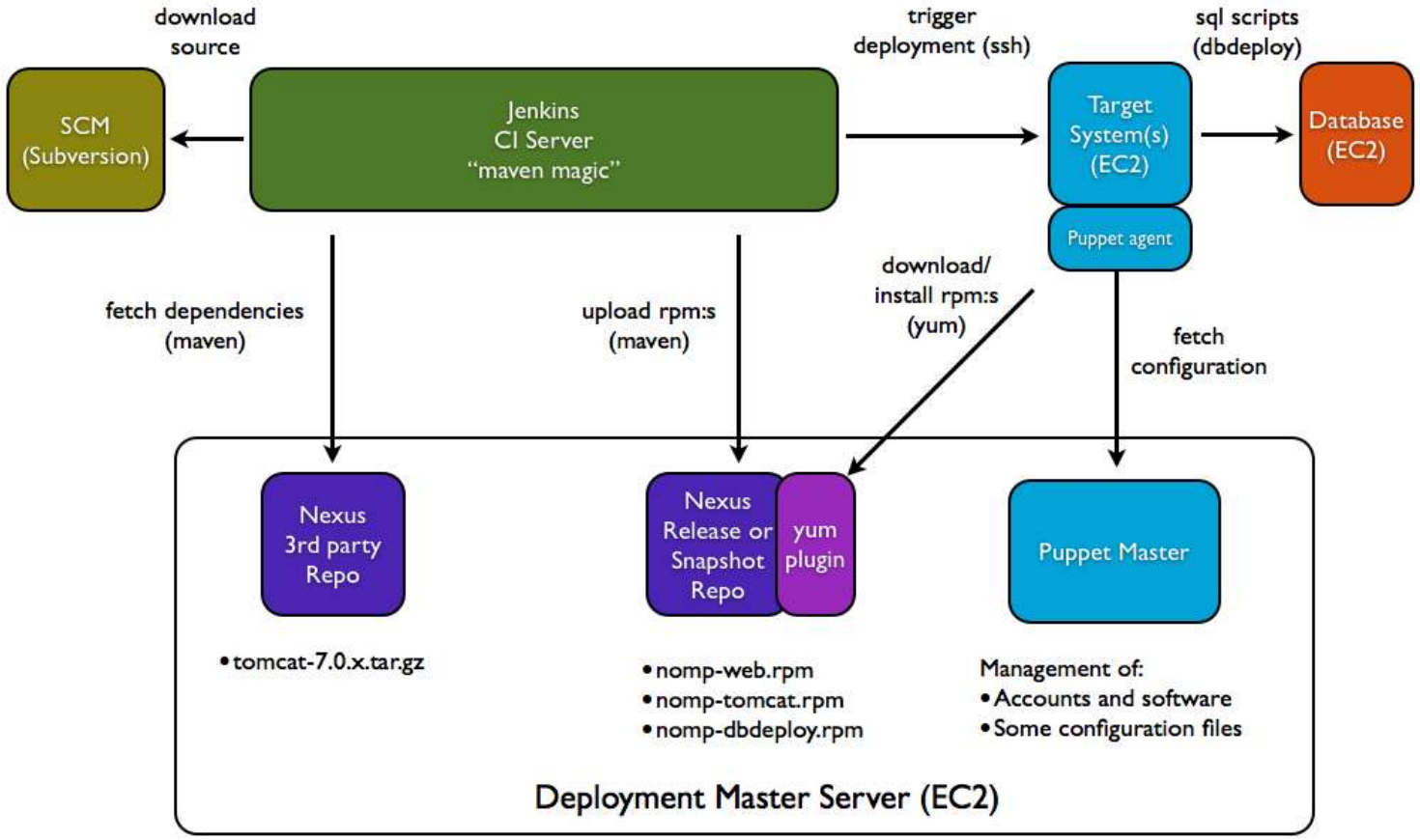

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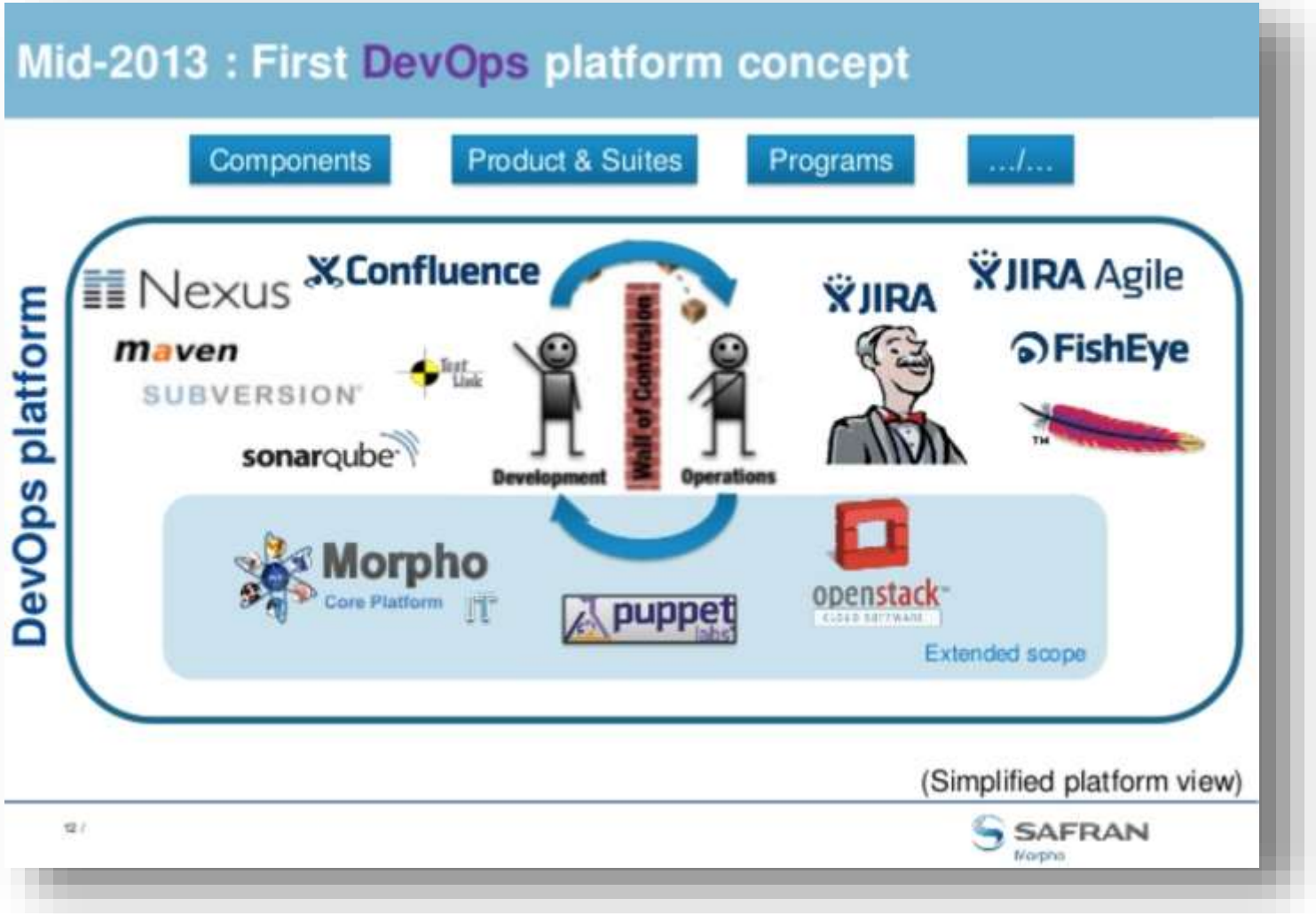

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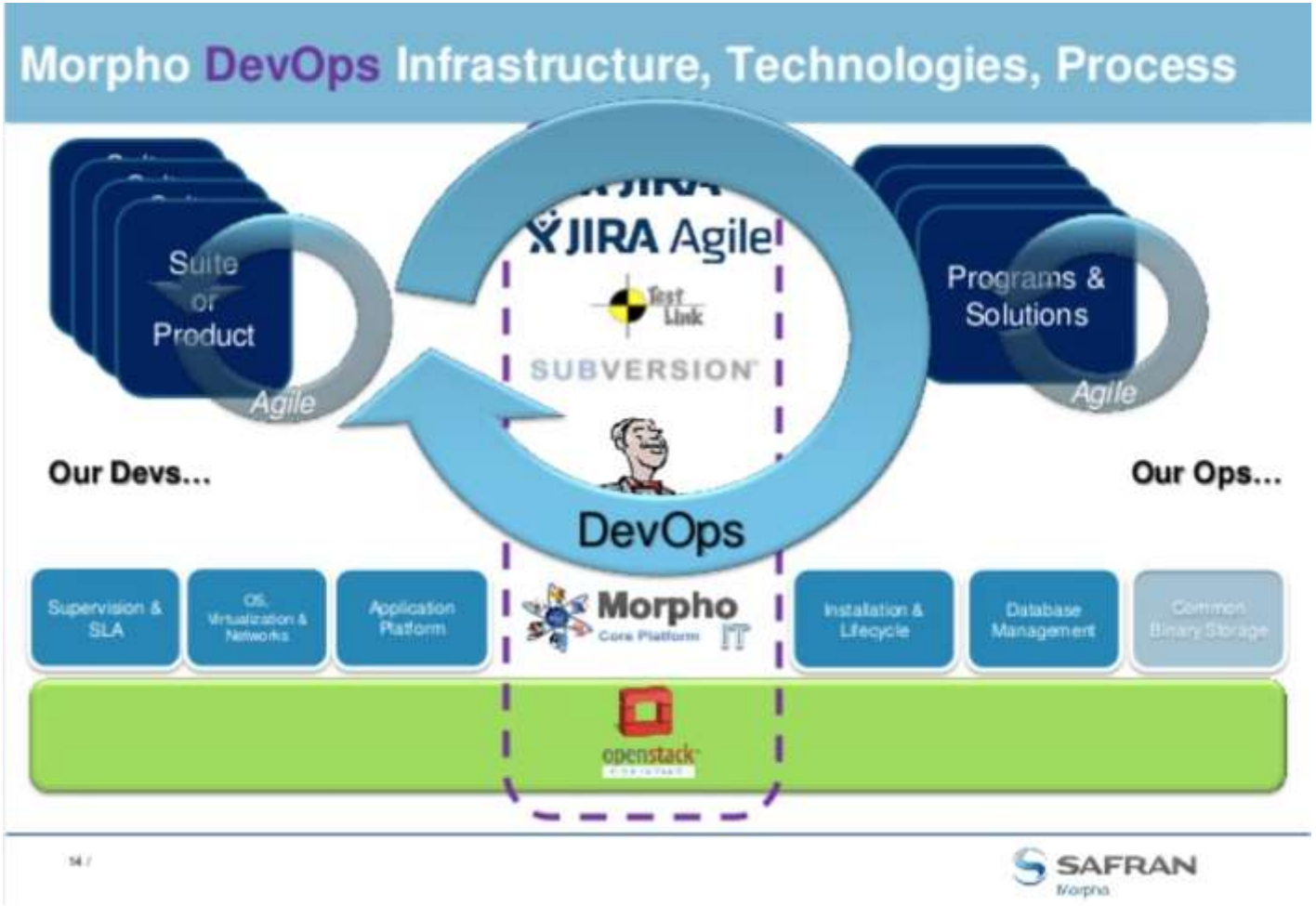

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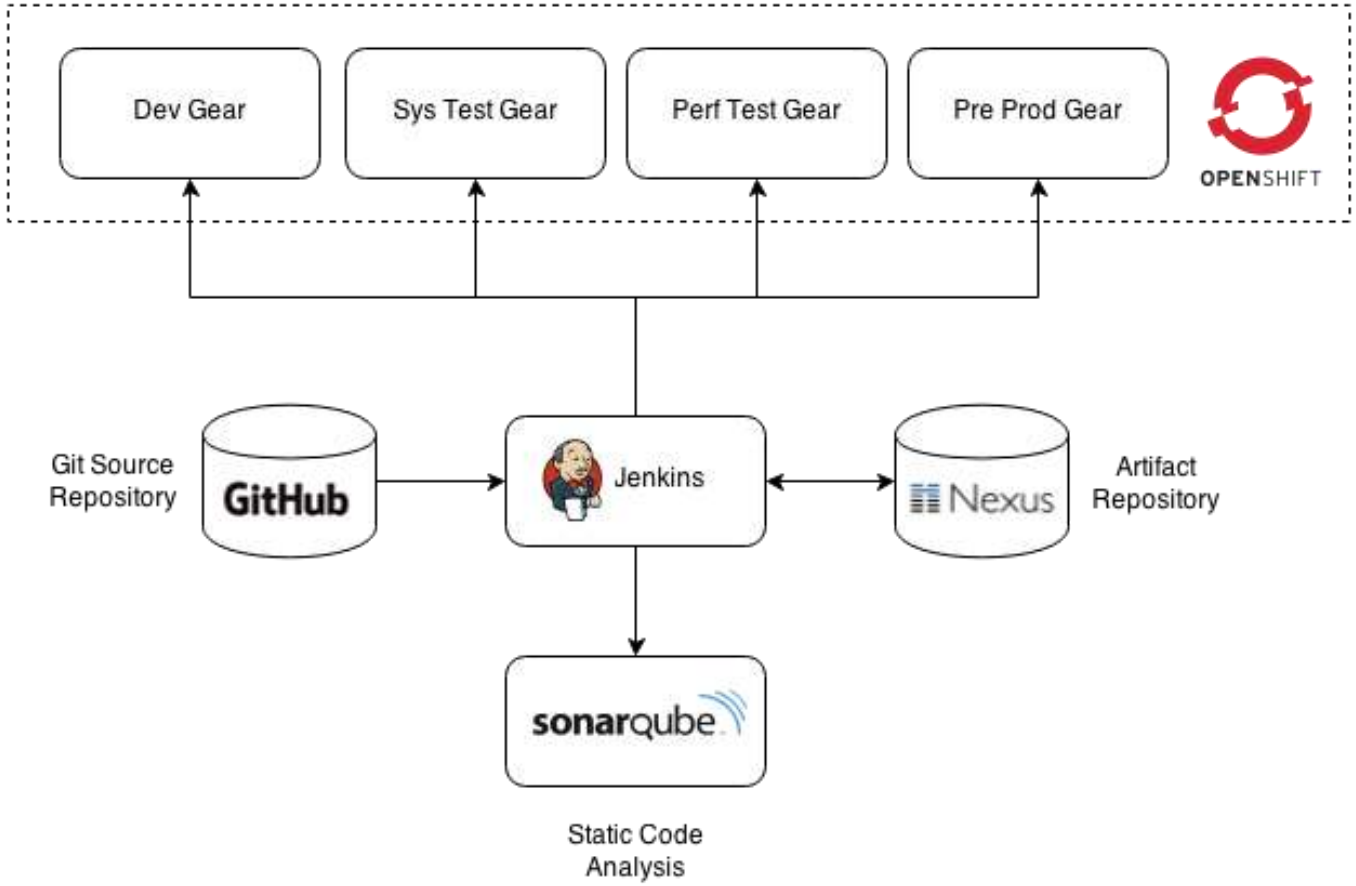

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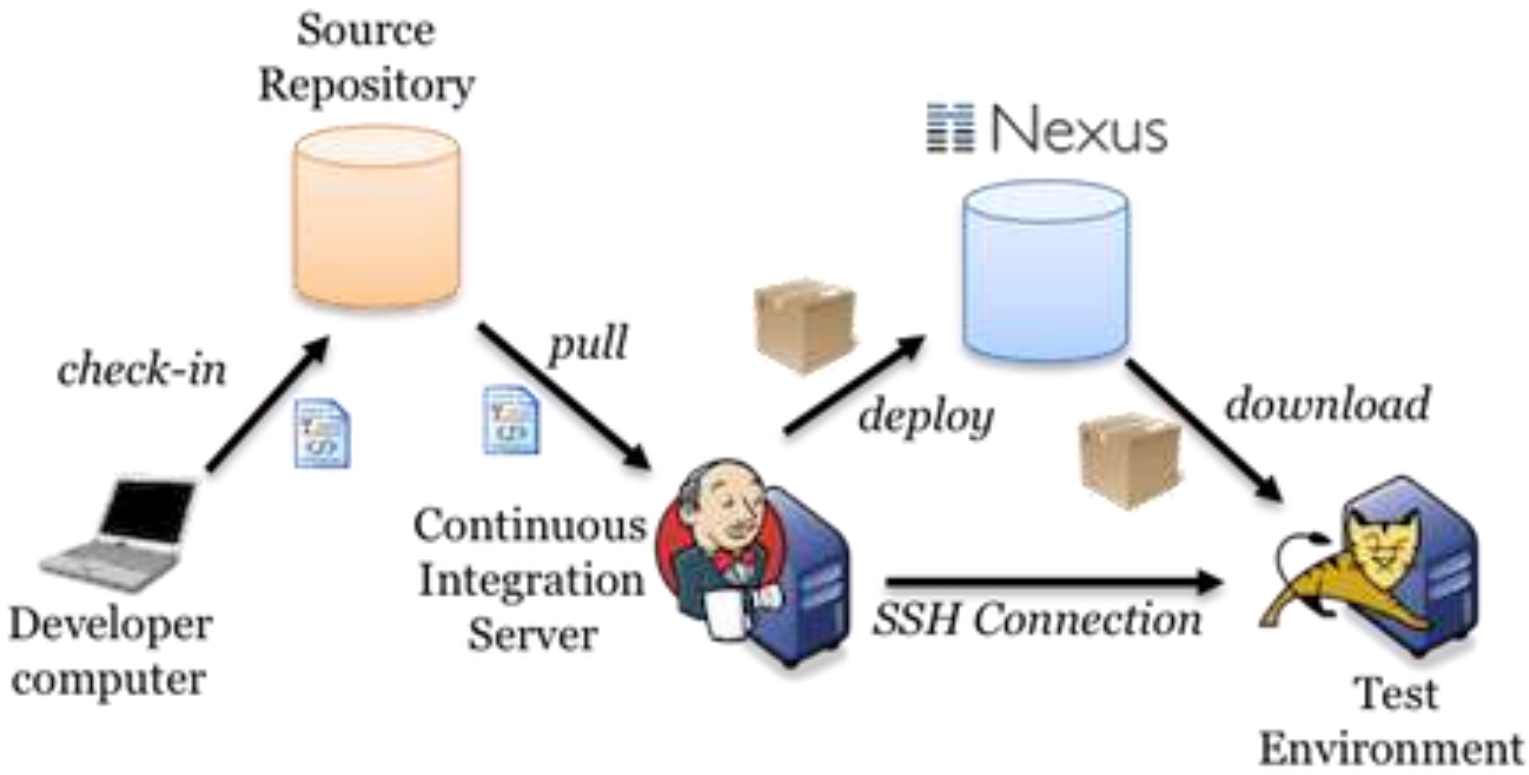

Link to Blog: Jumping into Continuous Delivery
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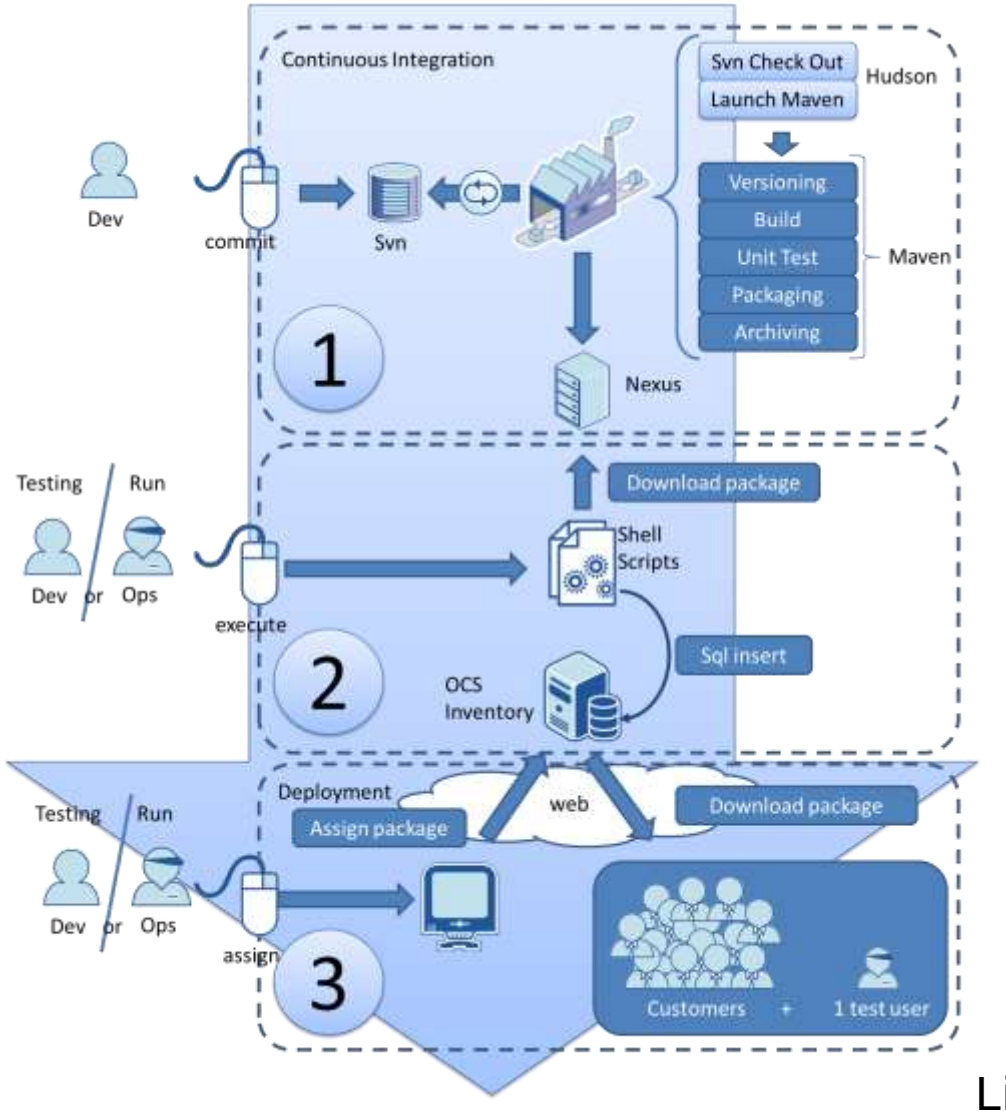

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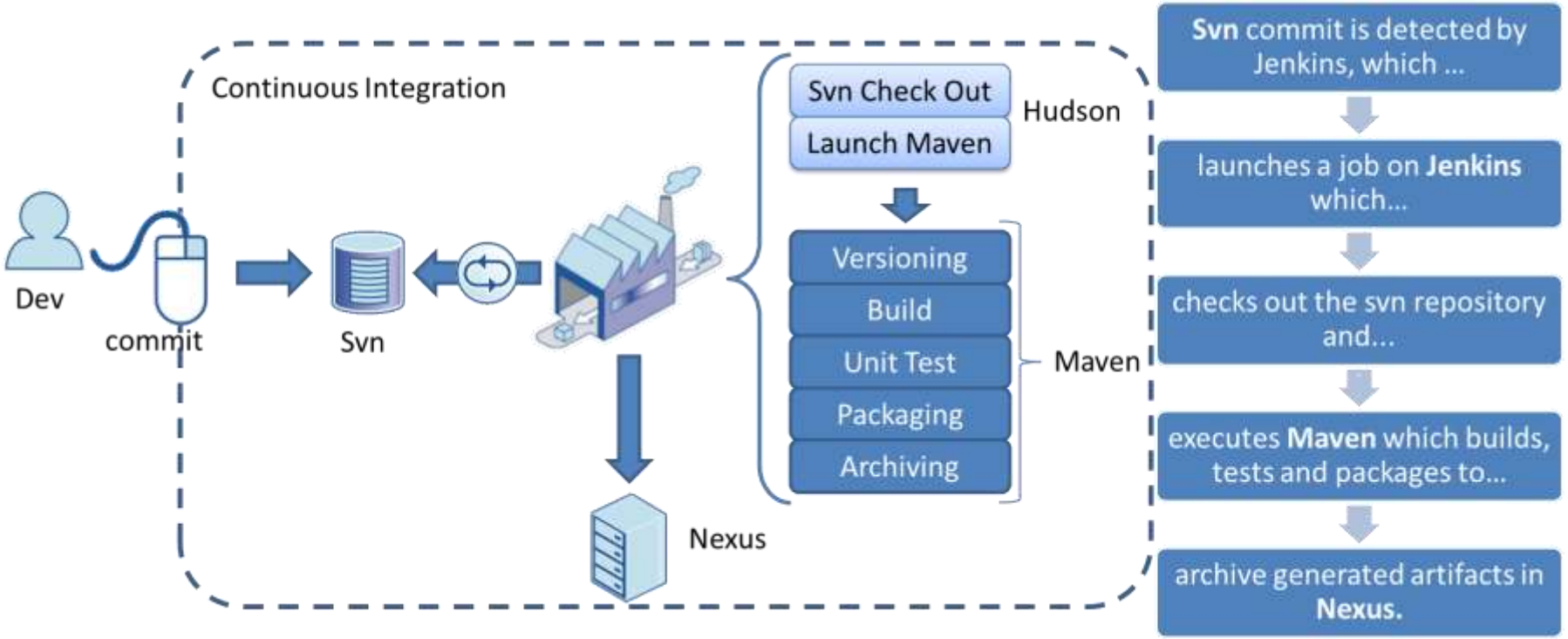

Link to Blog: Continuous Delivery
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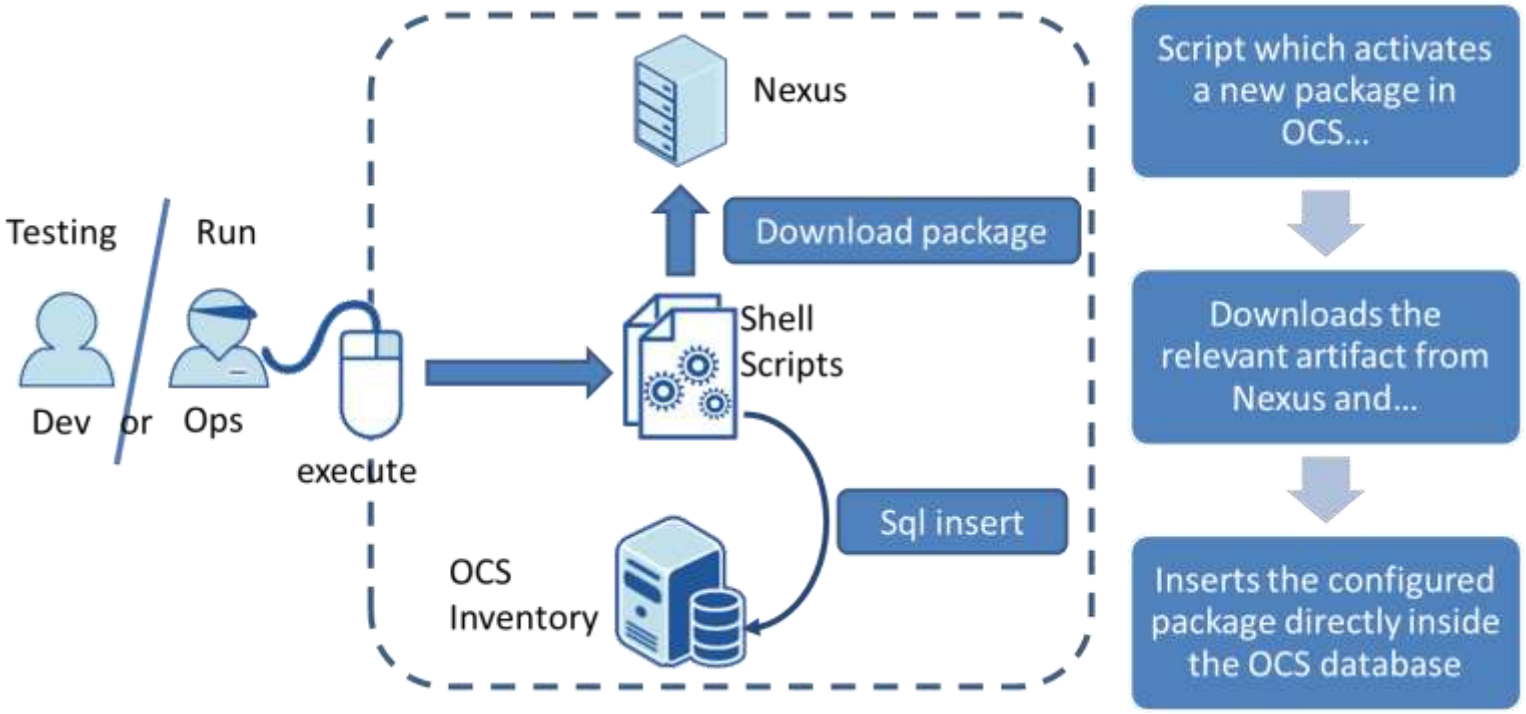

Link to Blog: Continuous Delivery
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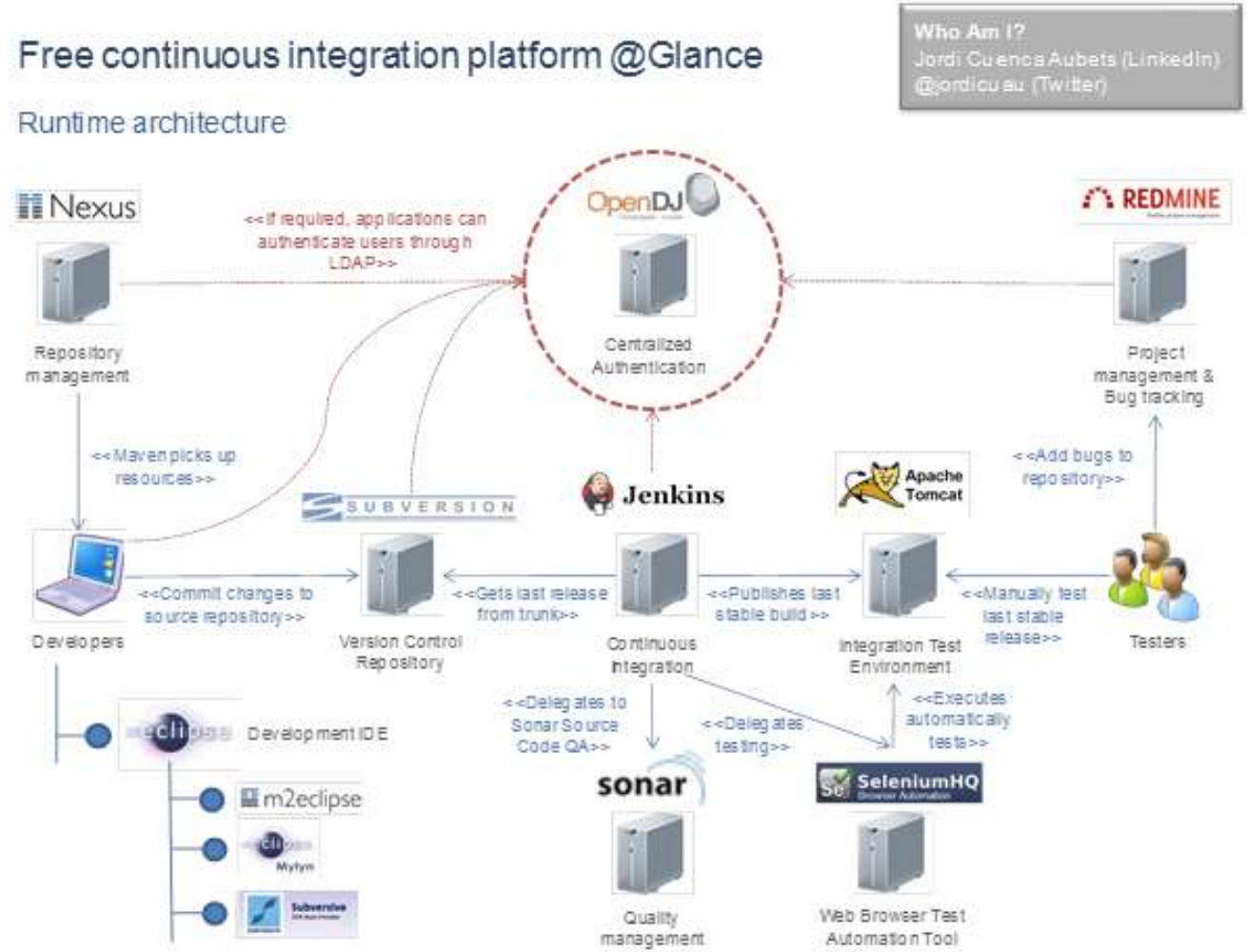
According to Jordi Cuenca-Aubets



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Link to Blog: Free Continuous Integration

http://bit.ly/1U9weEs

According to Open Sourcerers

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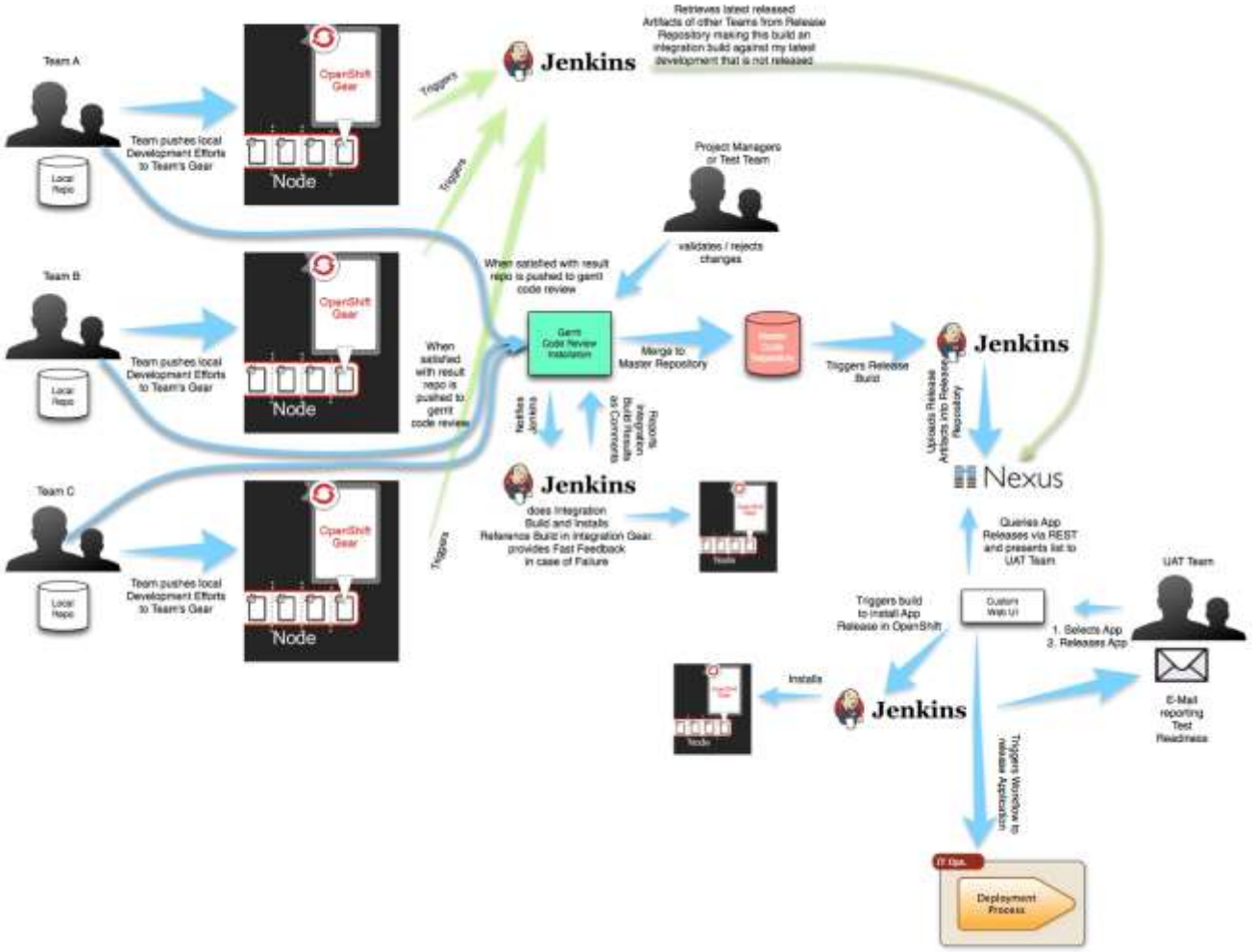

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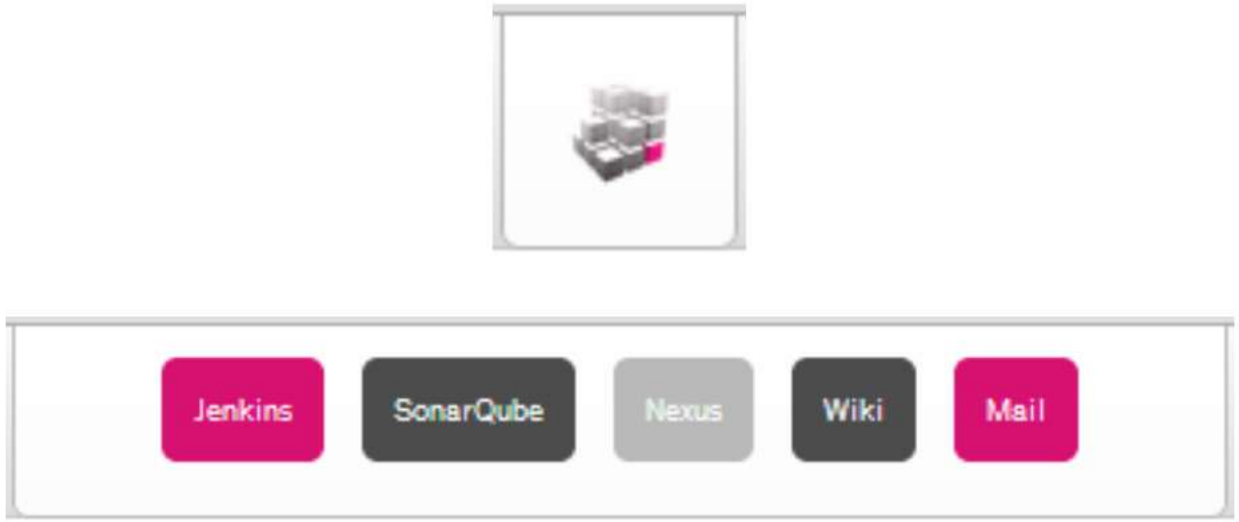
Link to Blog: Continuous Delivery using PaaS

http://bit.ly/1WNMIq0

According to Michael Rumpf



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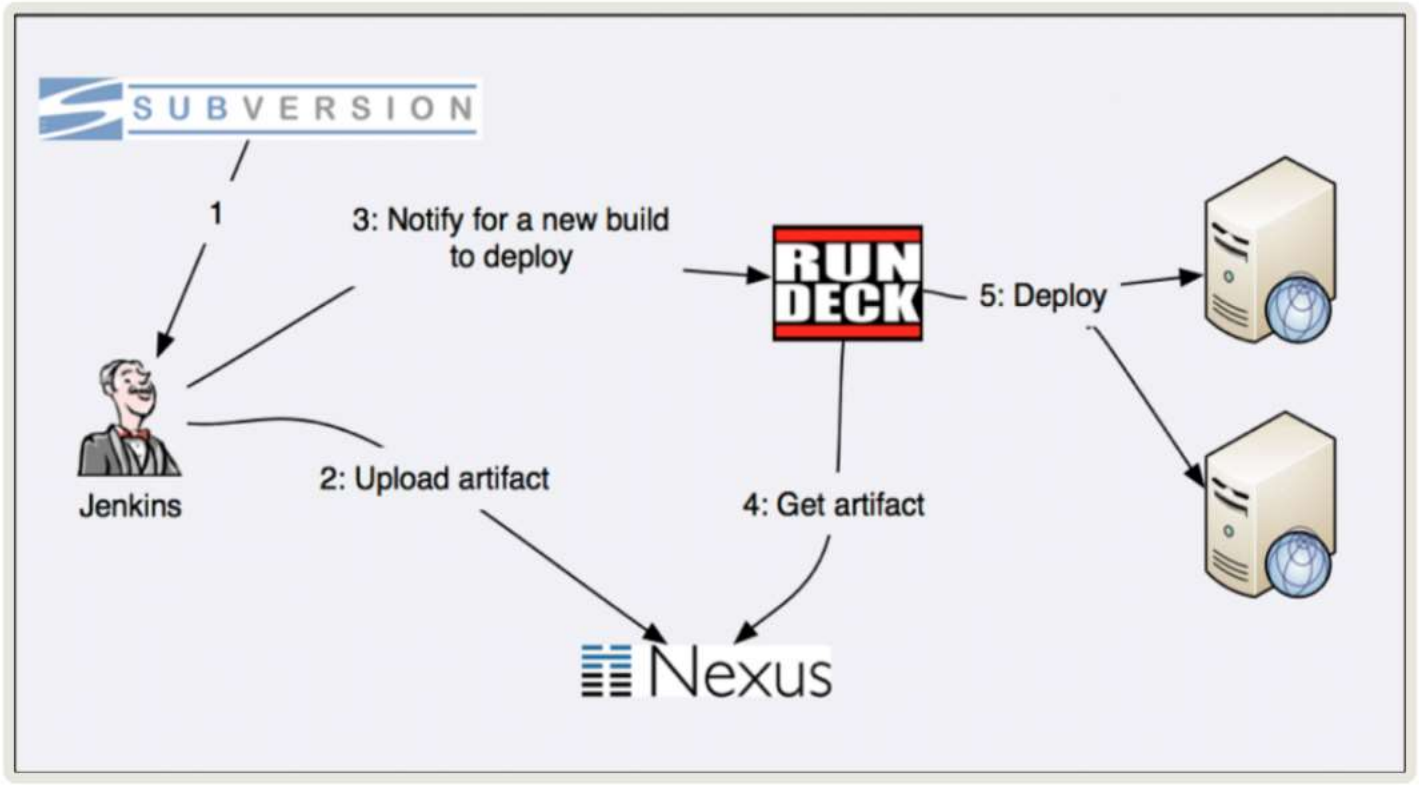
Link to Blog: Integrating Jenkins, SonarQube, and Nexus
http://bit.ly/20rLf6u

According to Cardlife



Link to Blog: How I use Rundeck
http://bit.ly/25i8AhP

According to Paolo Antinori, RedHat

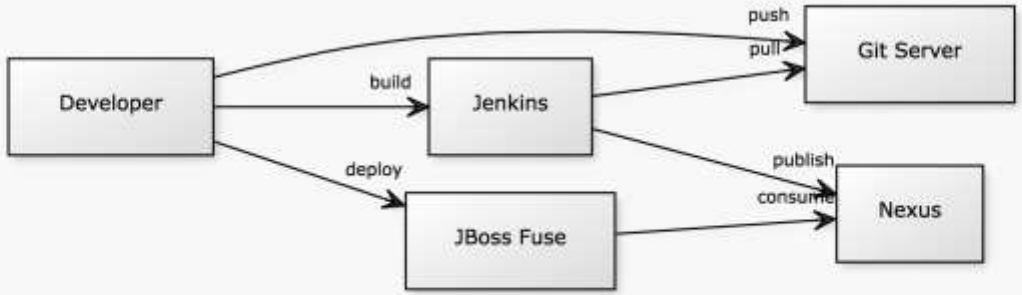
Let's start describing the component of our **sample Continuous Integration setup**:

1) **JBoss Fuse 6.1**
It's the **runtime** we are going to deploy onto. It lives in a dedicated box. It interacts with *Nexus* as the source of the artifacts we produce and publish.

2) **Nexus**
It's the software we use to **store the binaries** we produce from our code base. It is accessed by *JBoss Fuse*, that downloads artifacts from it but it is also accessed from *Jenkins*, that publishes binaries on it, as the last step of a successful build job.

3) **Jenkins**
It's our **build jobs invoker**. It publishes its outputs to *Nexus* and it builds its output if the code it checked out with *Git* builds successfully.

4) **Git Server**
It's the **remote code repository** holder. It's accessed by *Jenkins* to download the most recent version of the code we want to build and it's populated by all the *developers* when they share their code and when they want to build on the Continous Integration server. **In our case, git server is just a filesystem accessed via ssh**.



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Link to Blog: Continuous Integration
http://bit.ly/1sxX6ok

According to Atlassian

Atlassian

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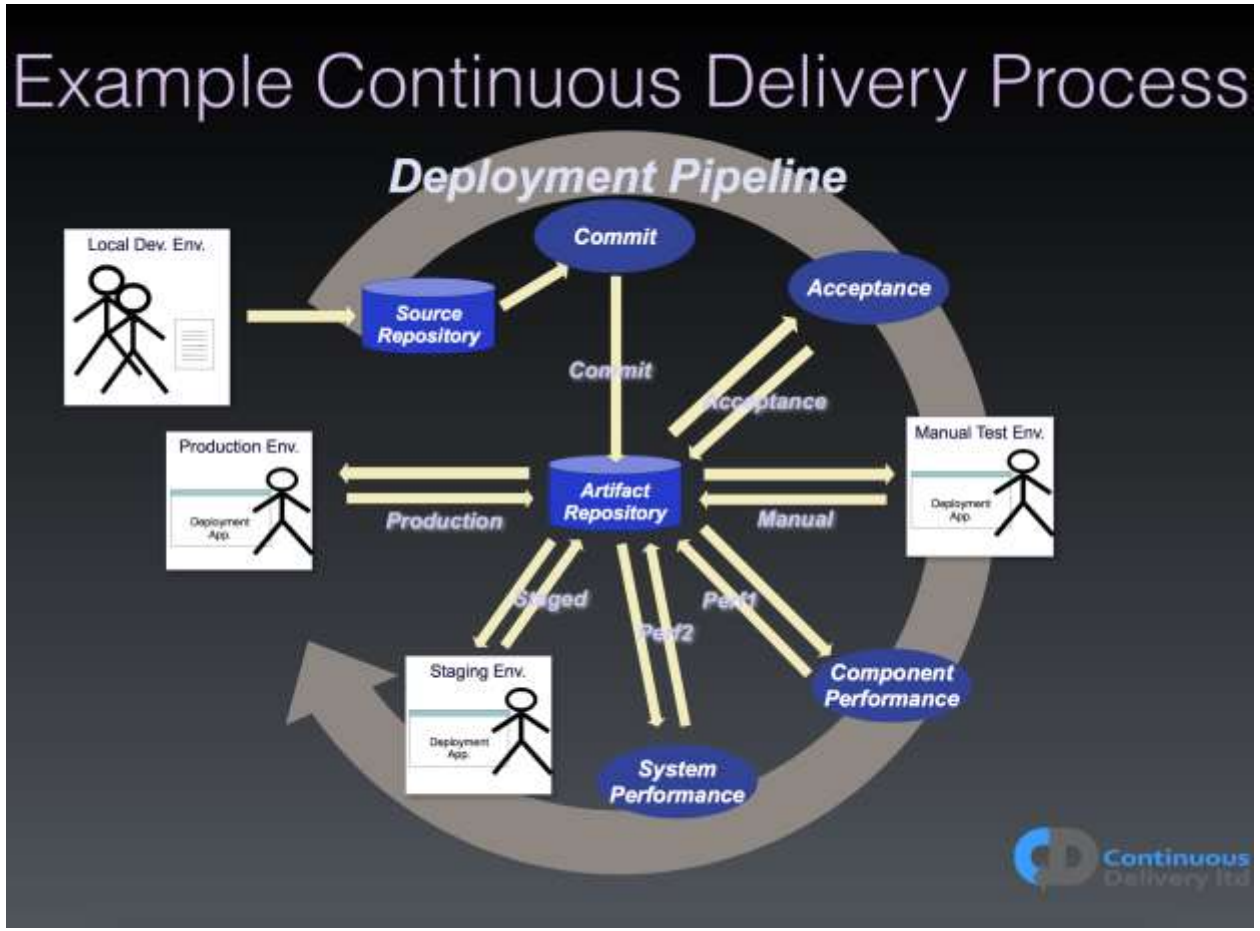
Link to Presentation: Puppet Camp Sydney
http://bit.ly/1VfPgLL

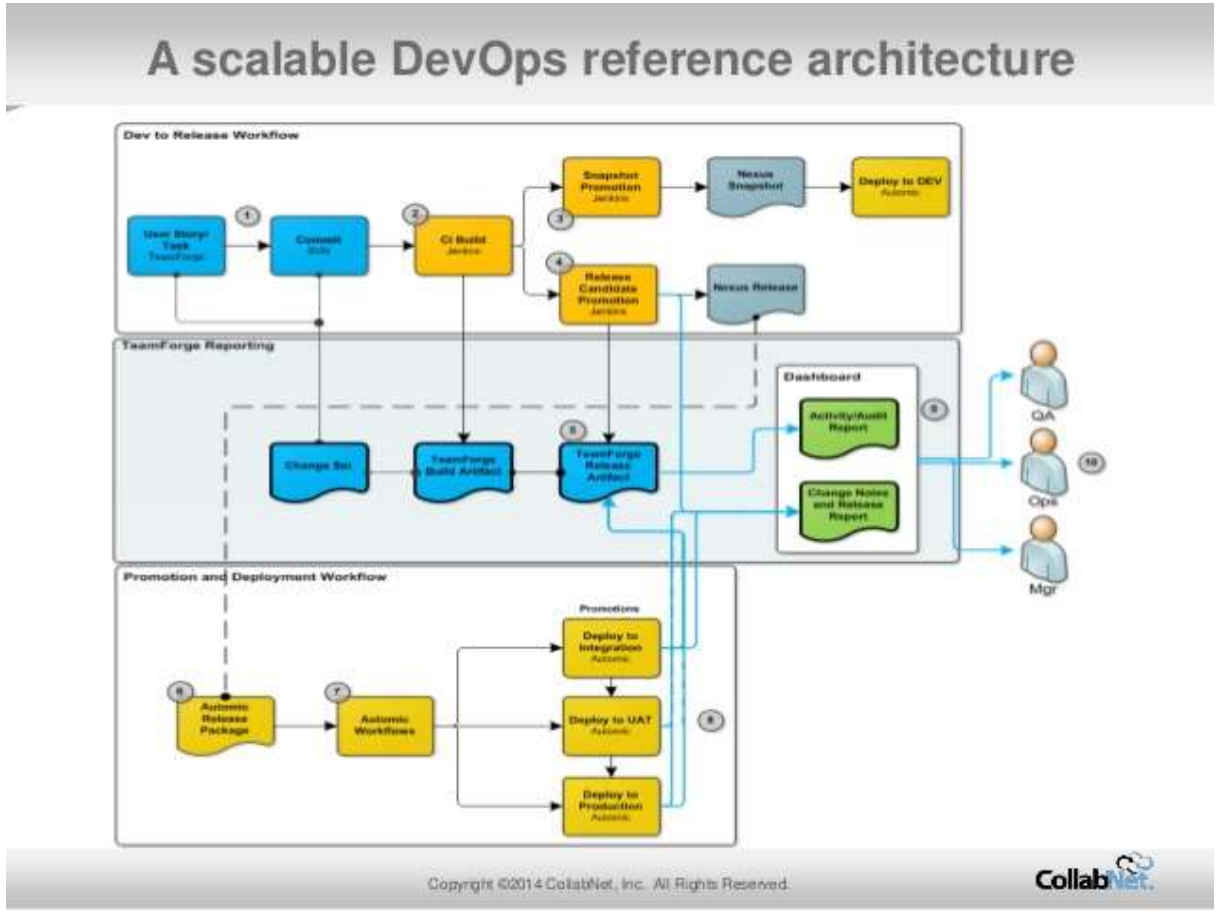
According to Continuous Delivery Ltd



Link to Presentation: The Rationale for Continuous Delivery

http://bit.ly/1WdmsVa

According to CollabNet



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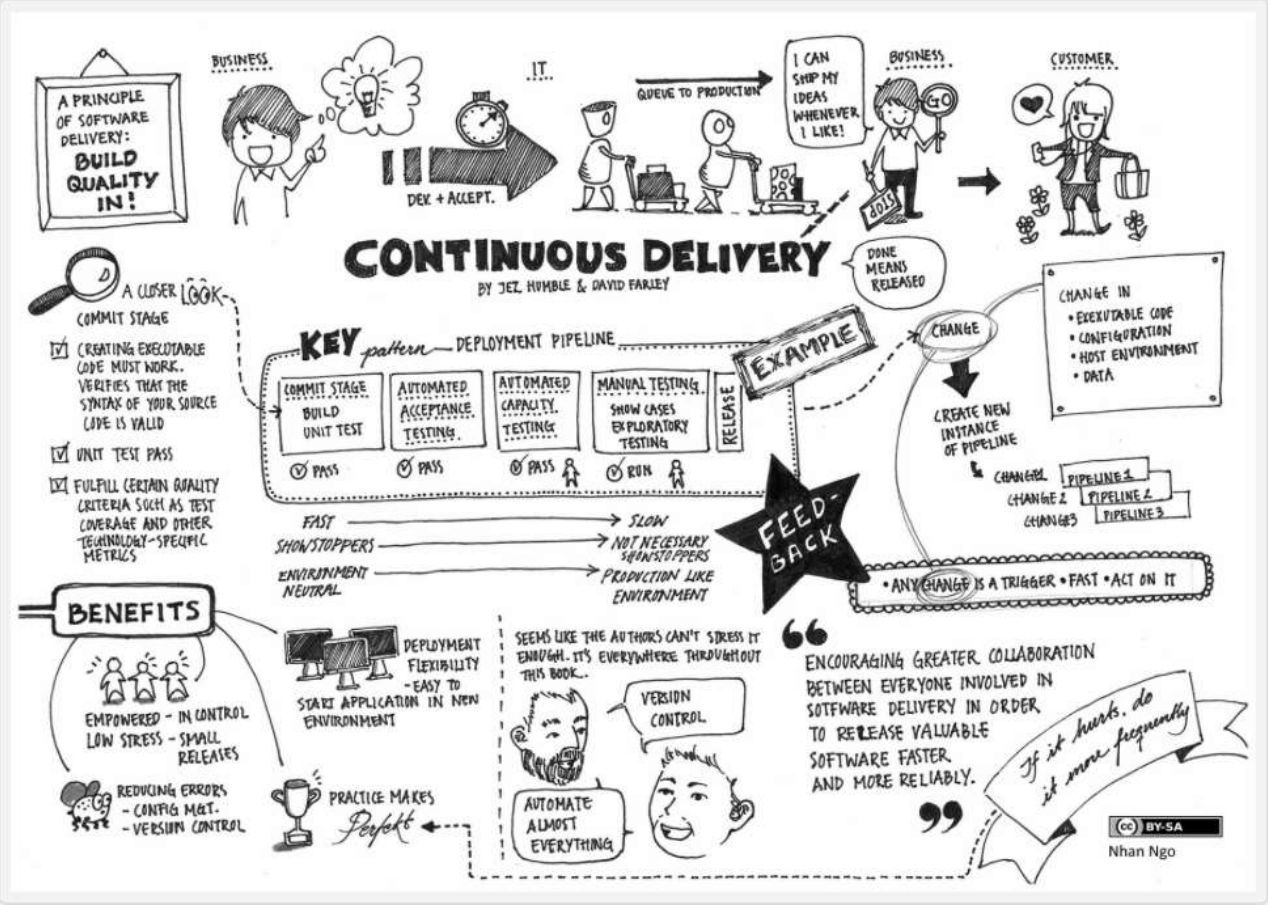
According to Nhan Ngo



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Source: http://continuousdelivery.com

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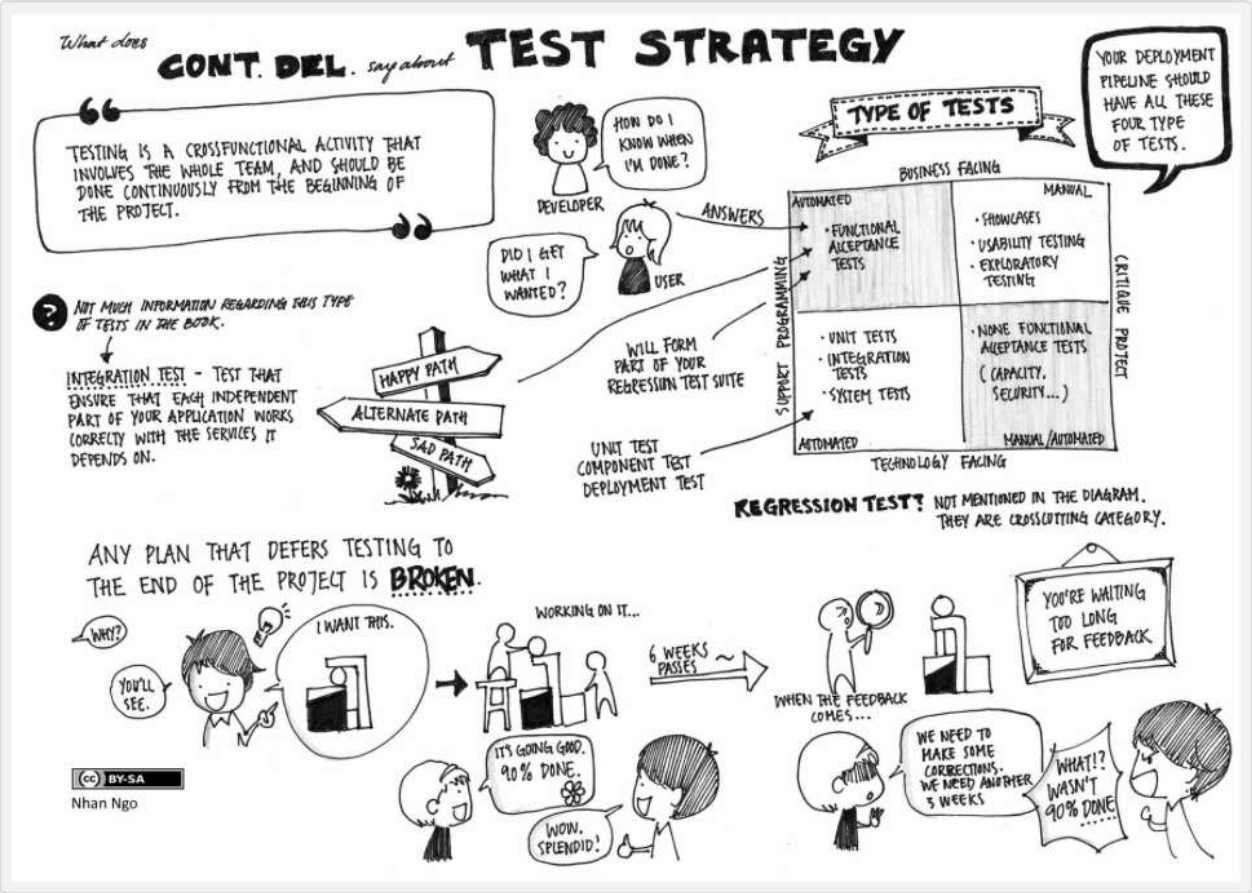

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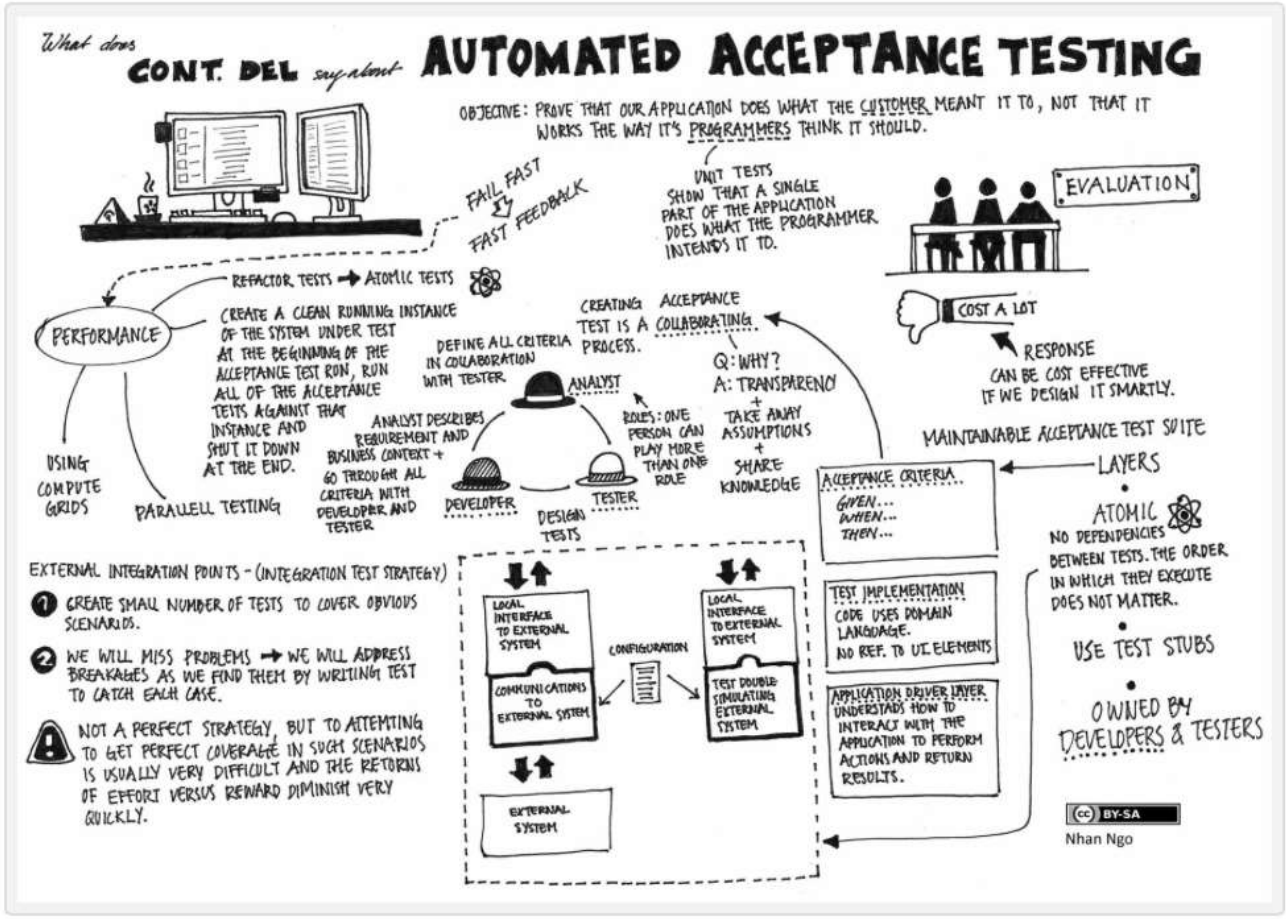

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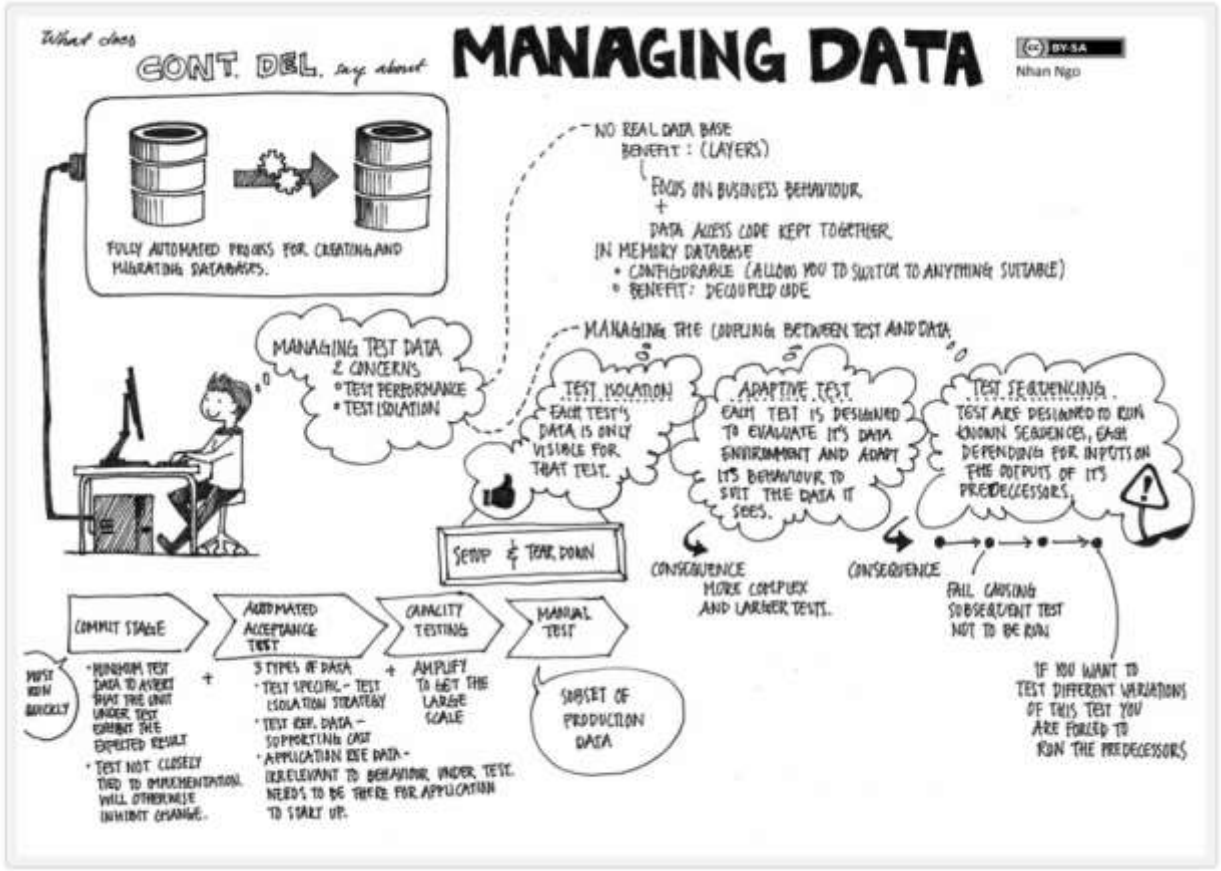

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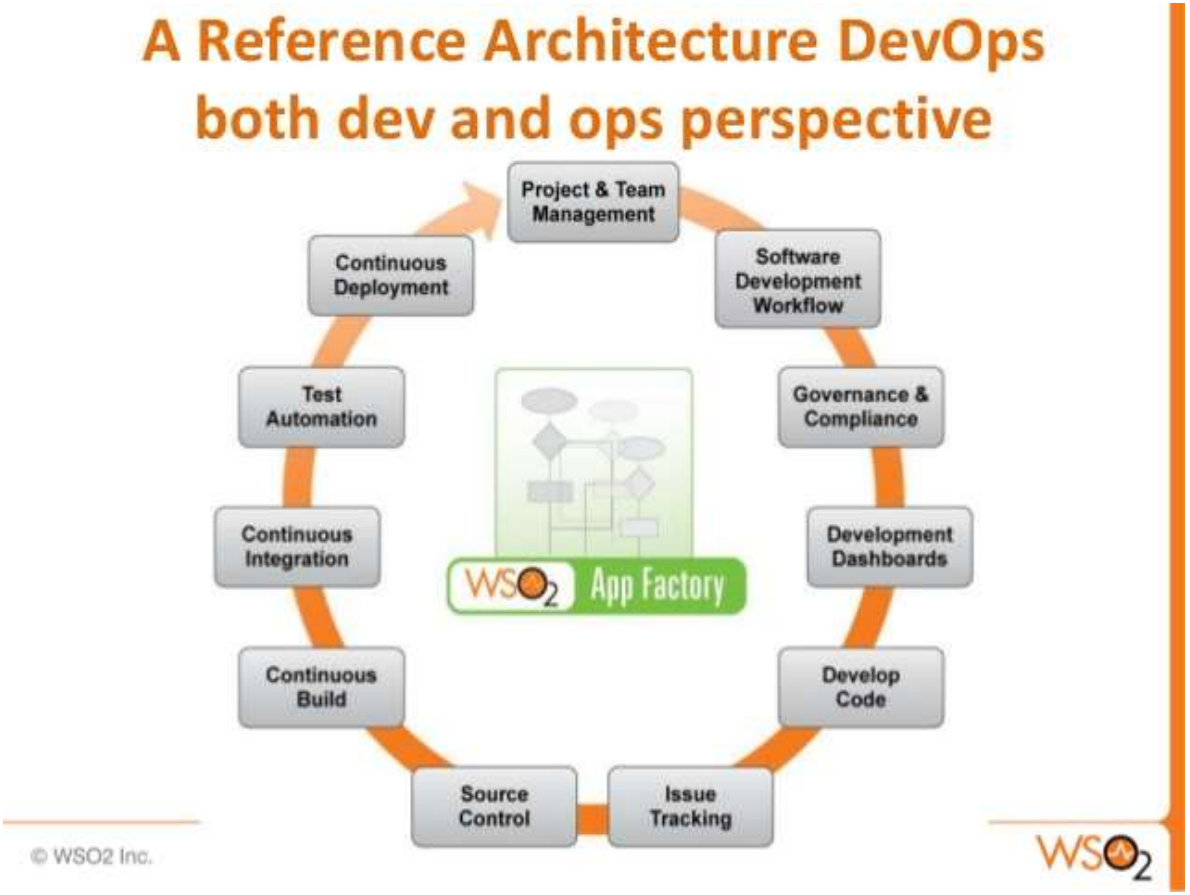
According to WS02



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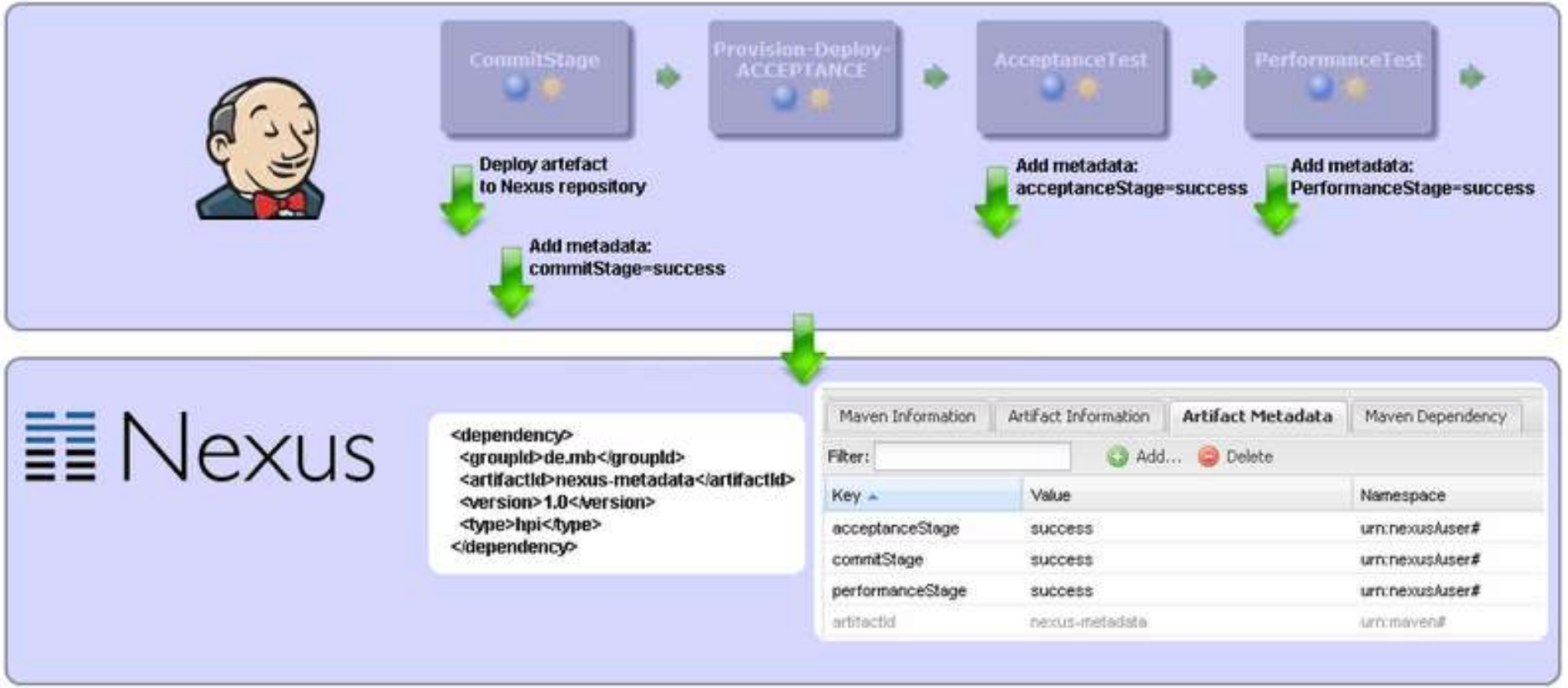
According to CodeCentric

codecentric



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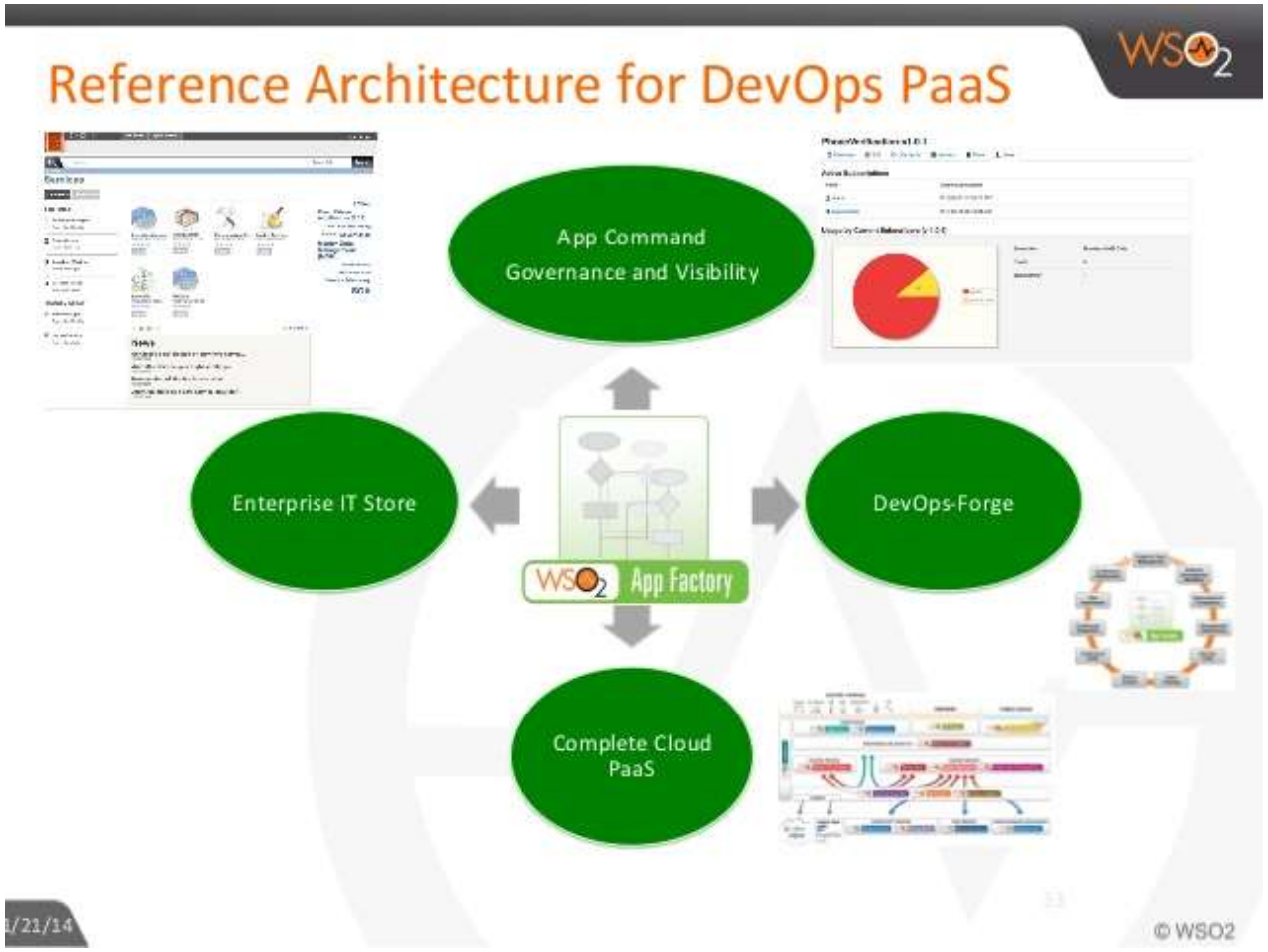

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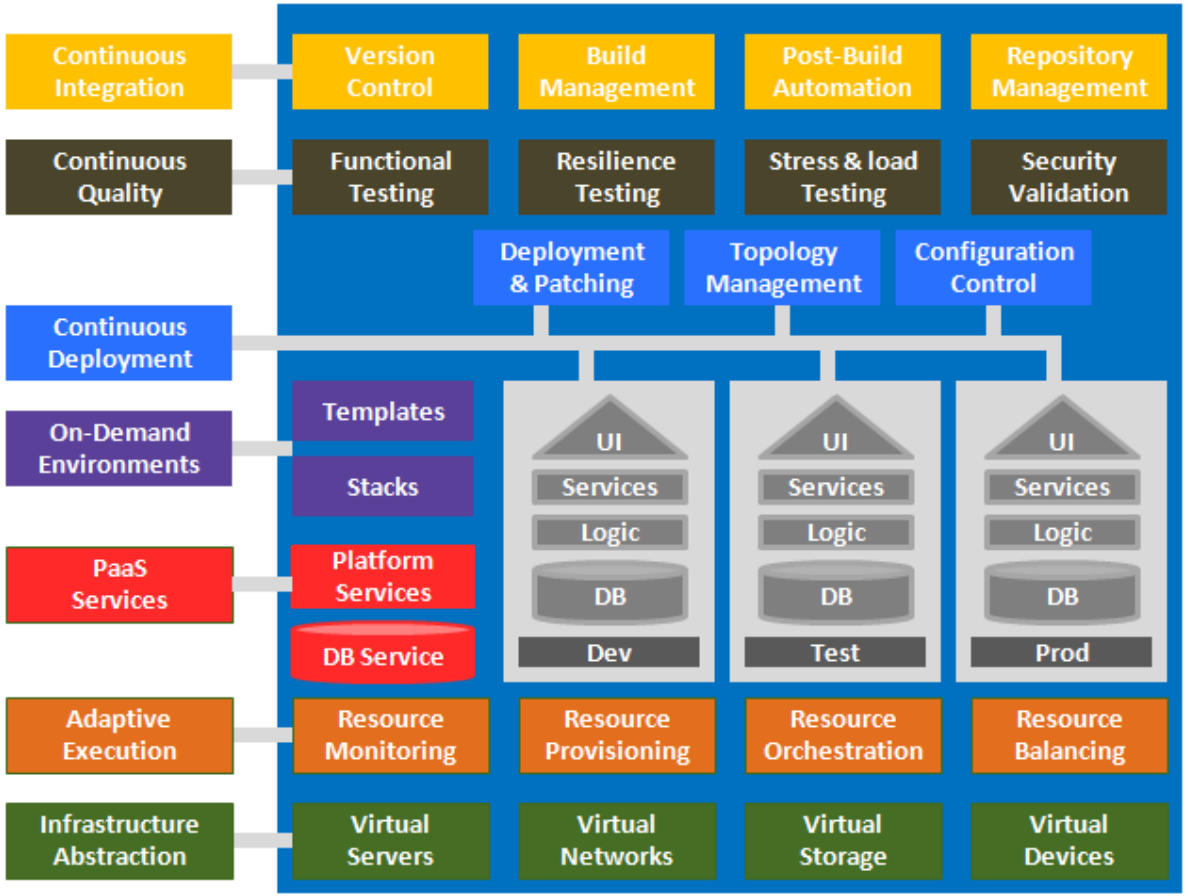

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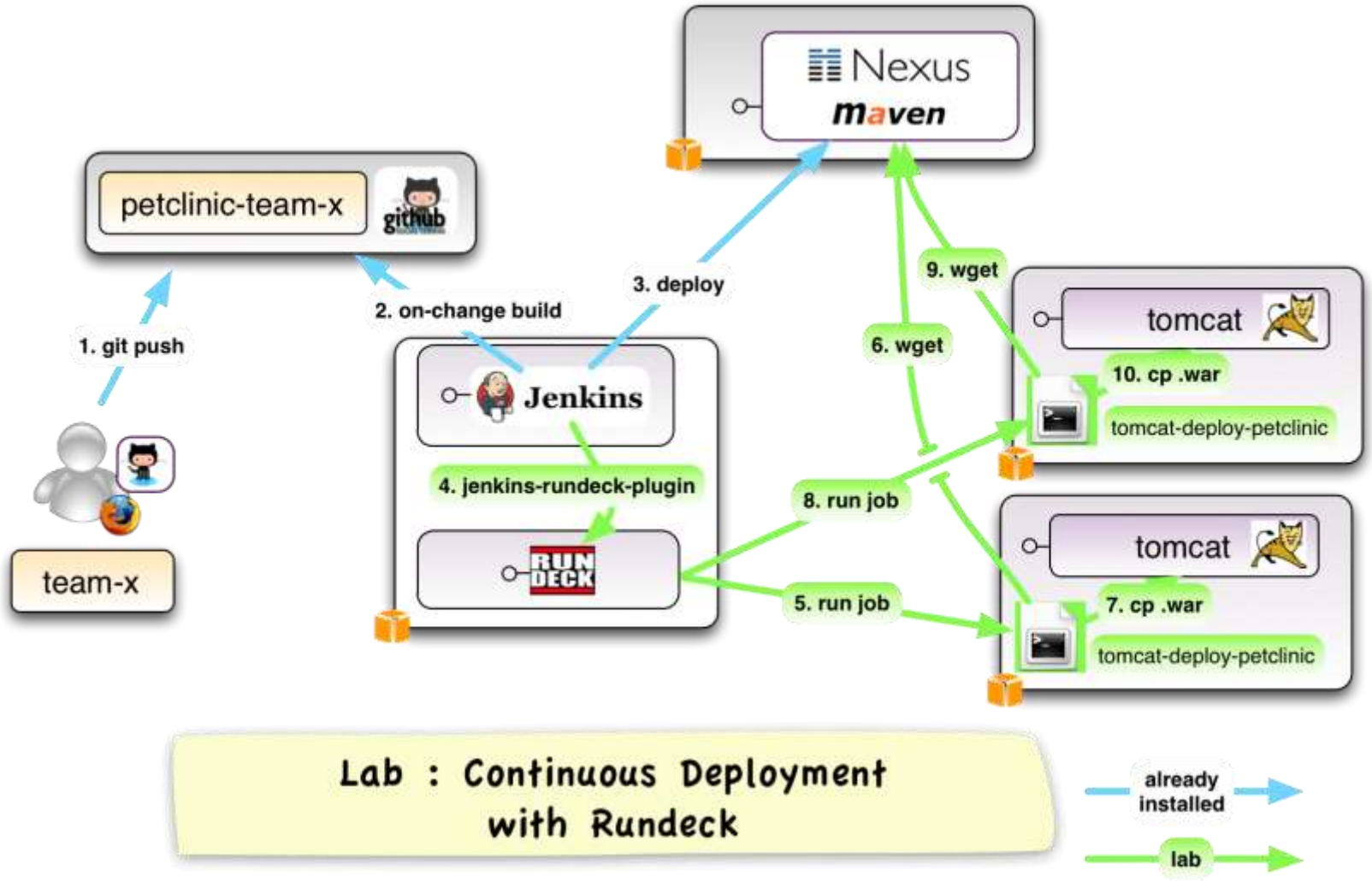
According to Goobbe



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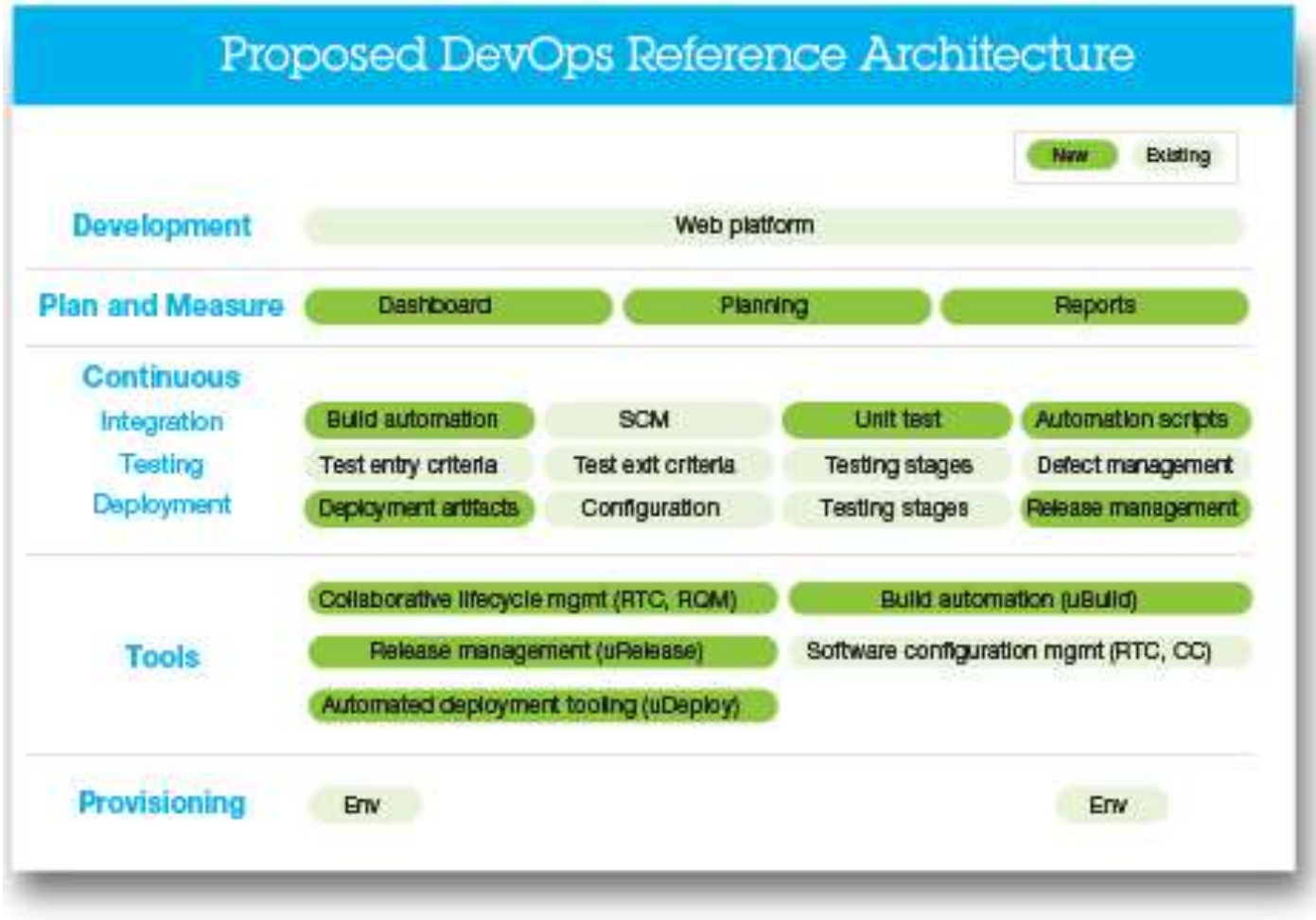
According to IBM



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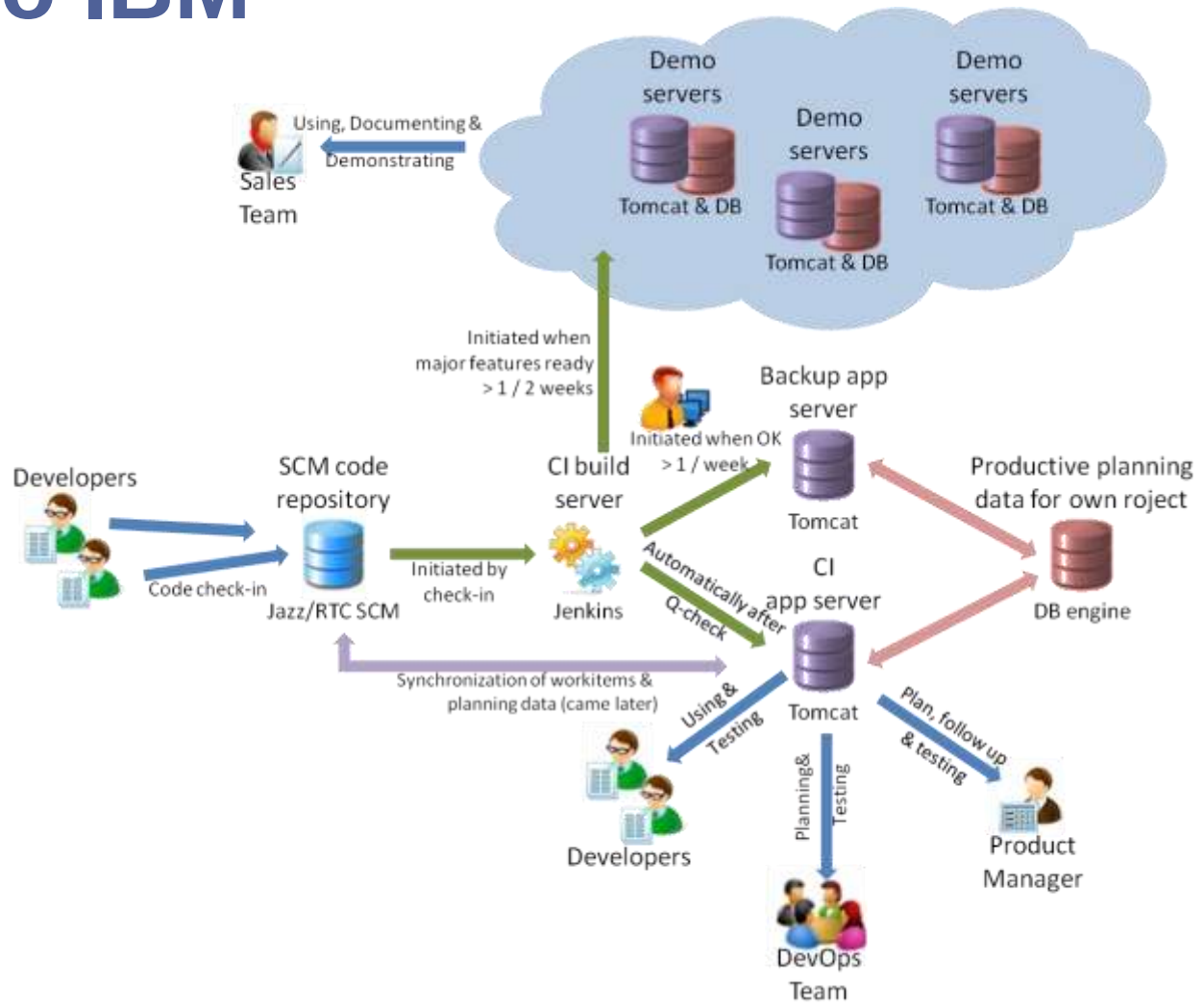

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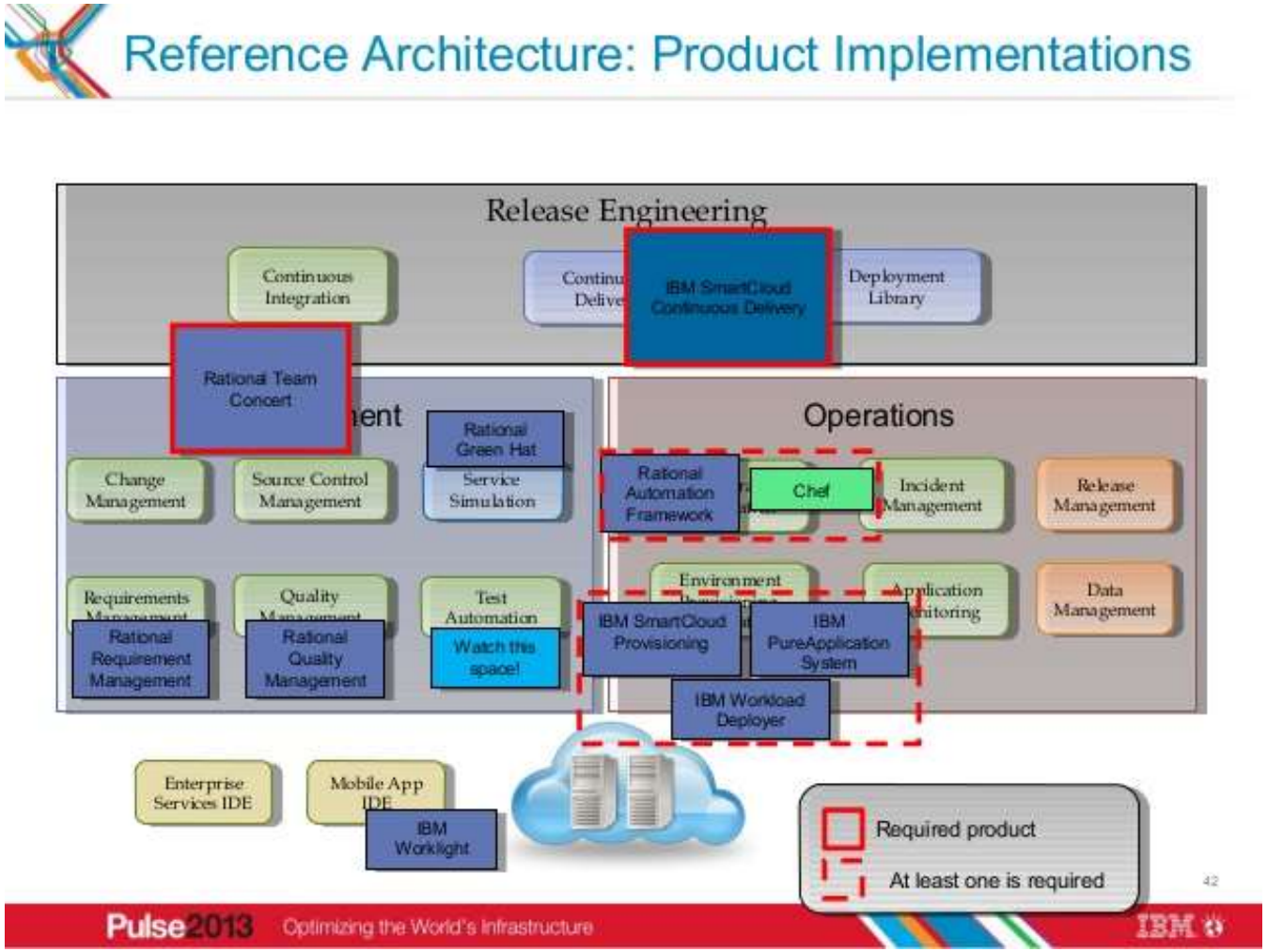

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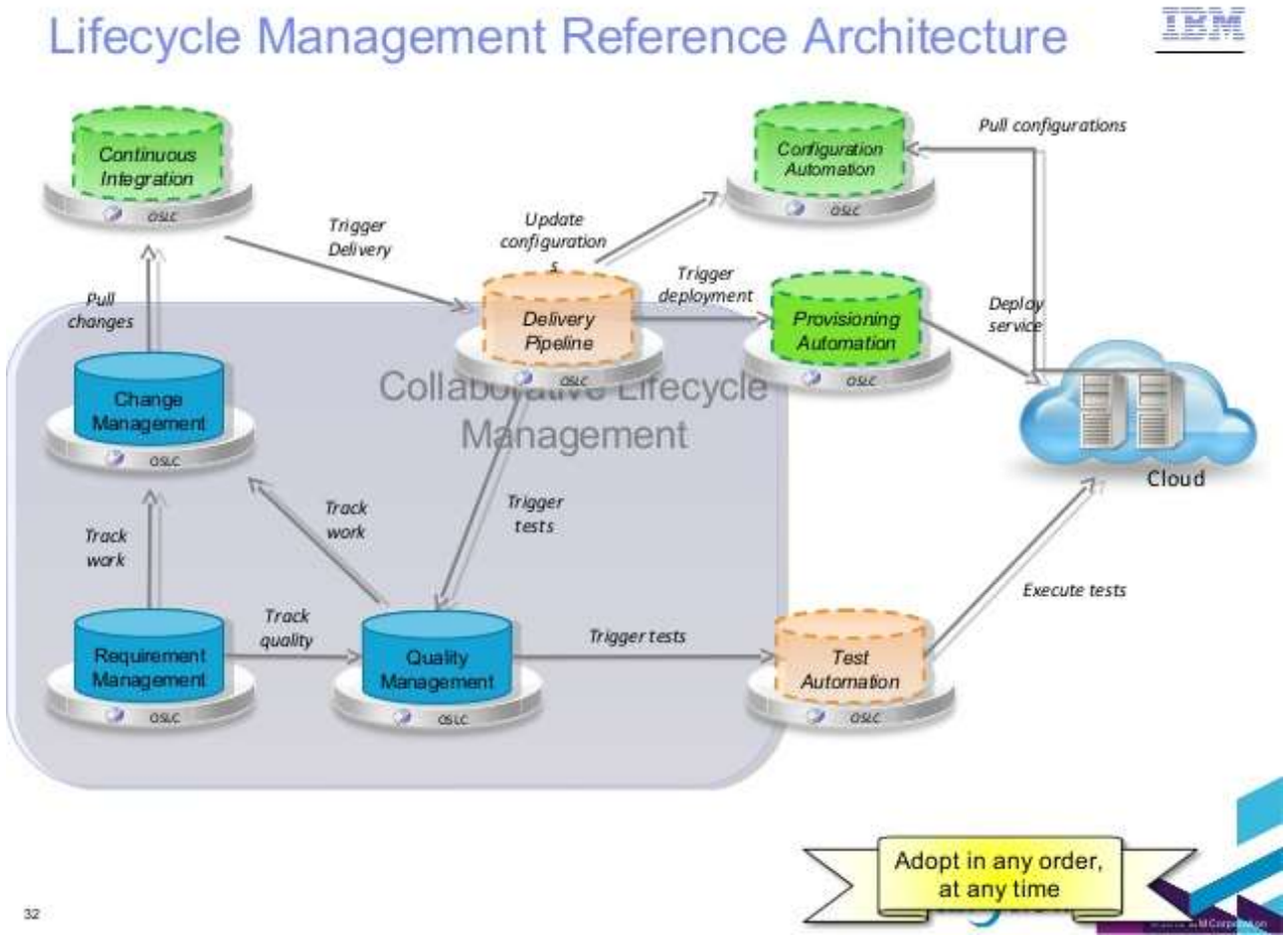

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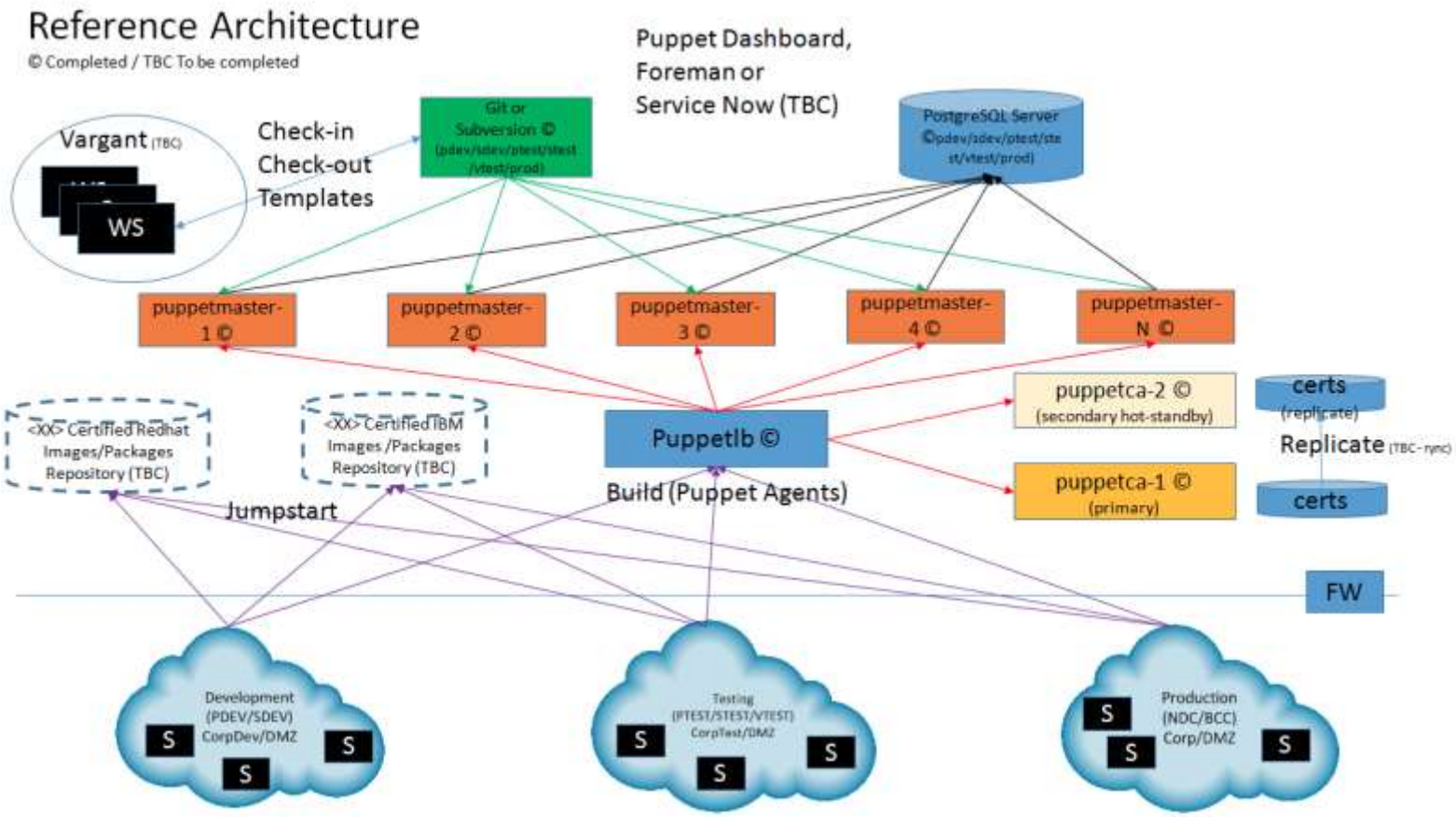

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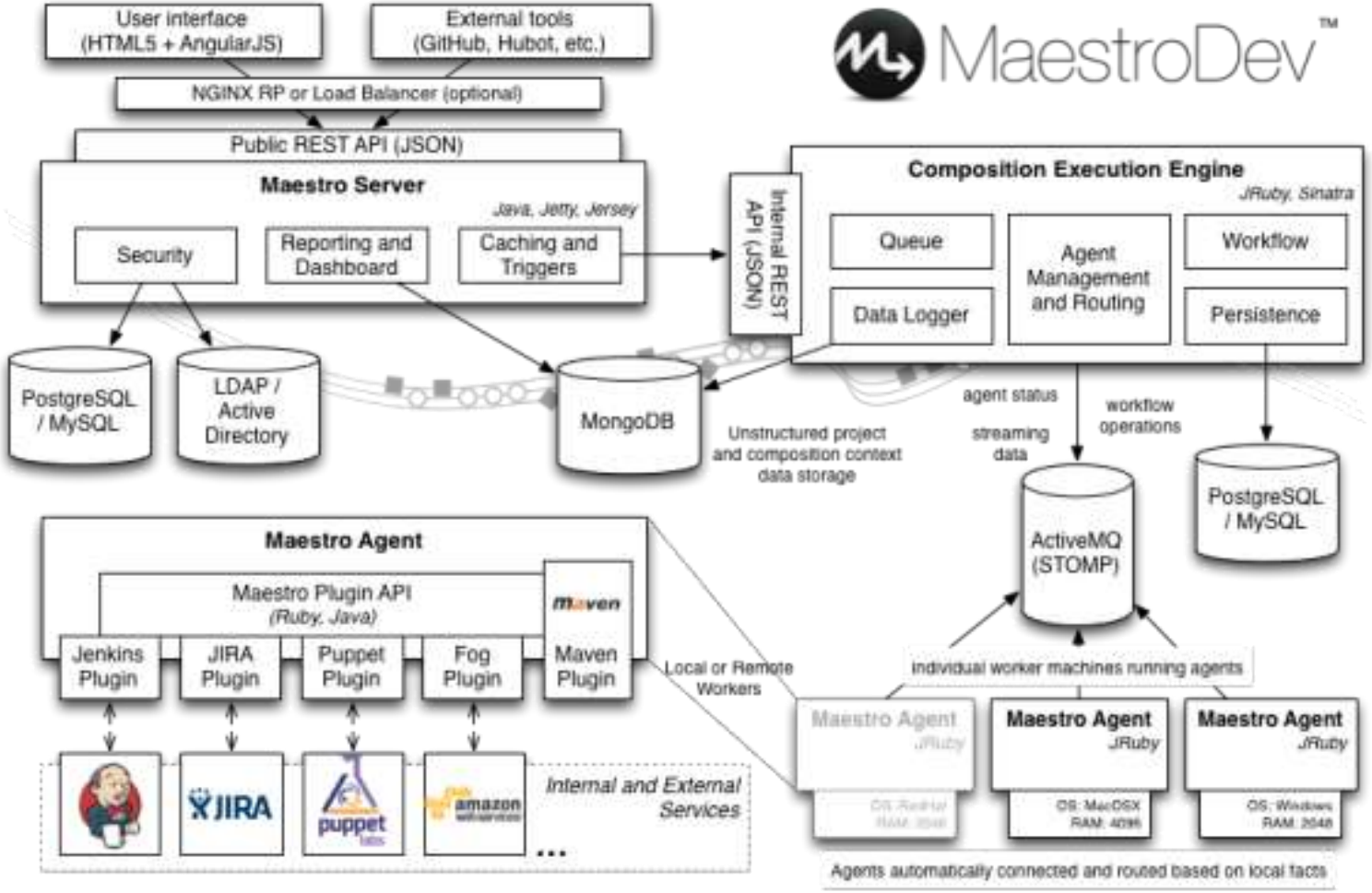

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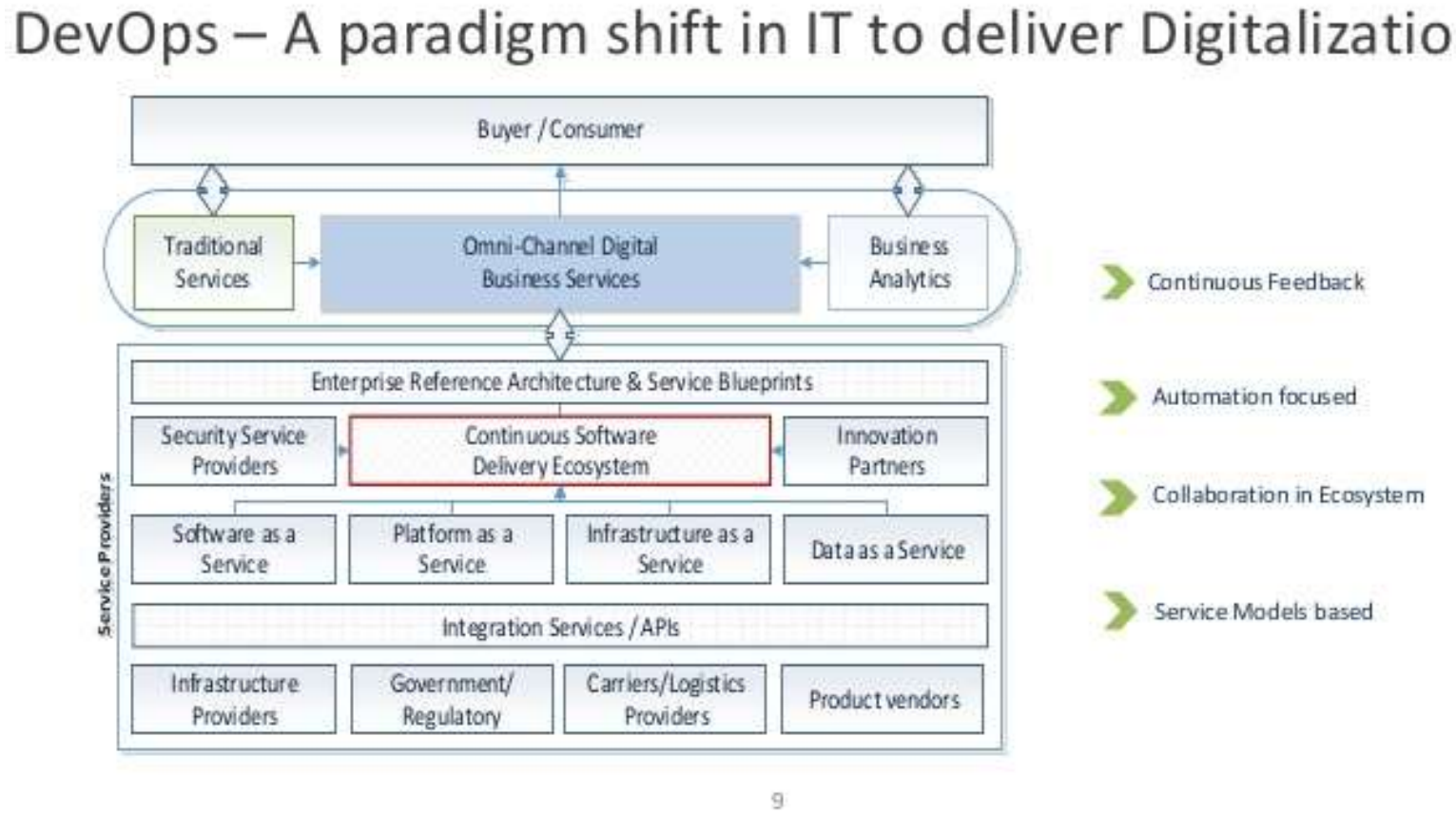
According to The Open Group



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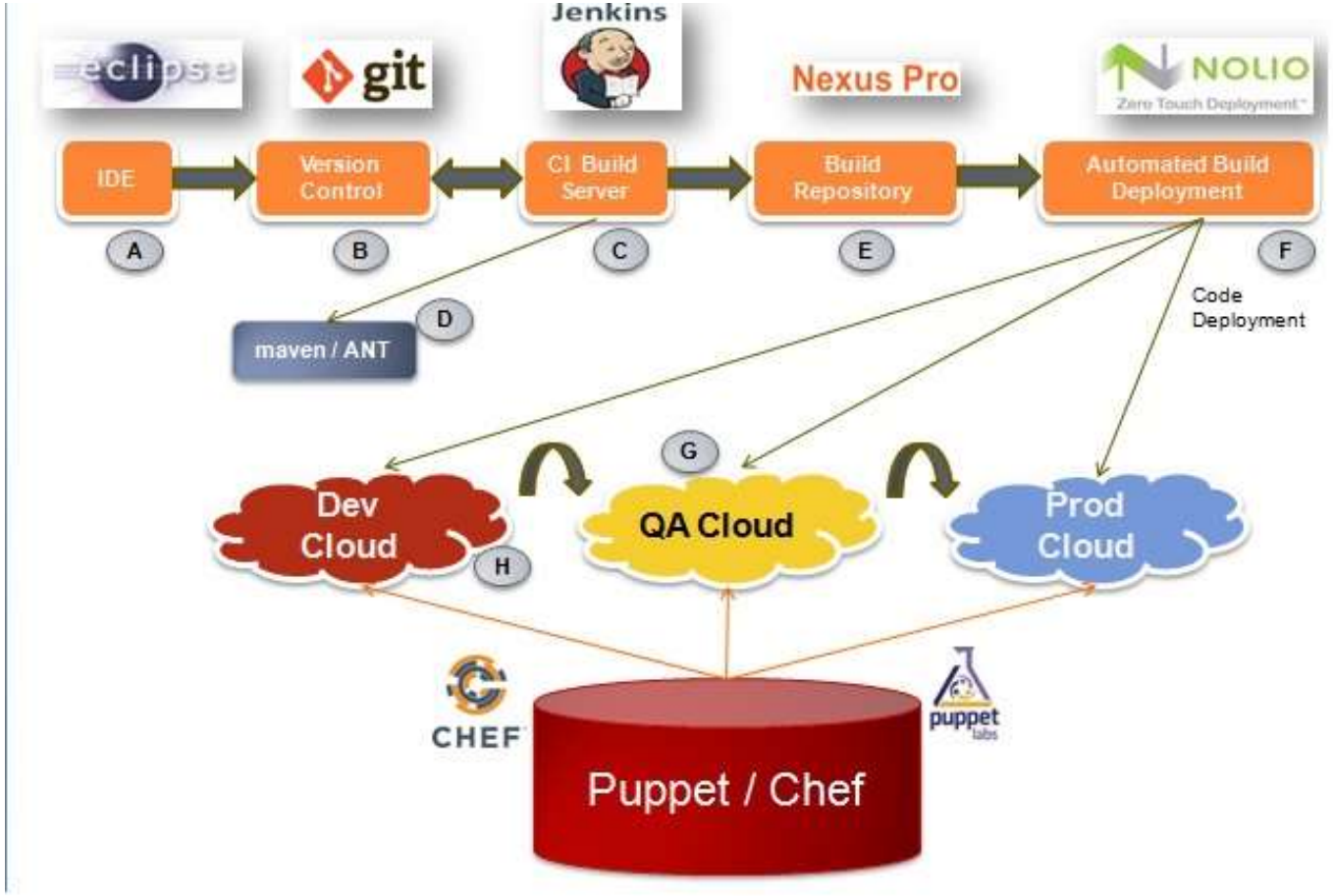

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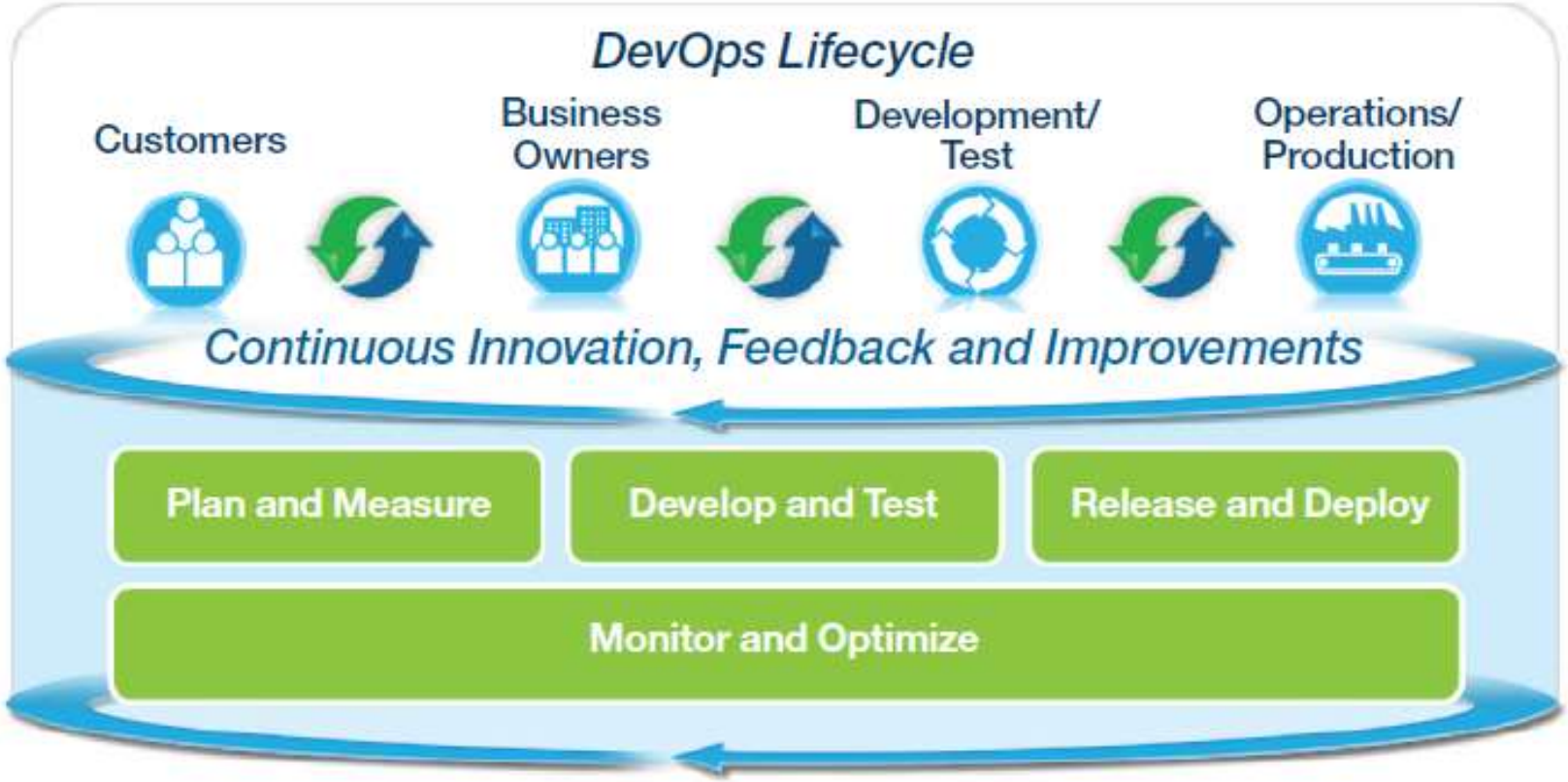
According to DevOps by Design

DEVOPS BY DESIGN



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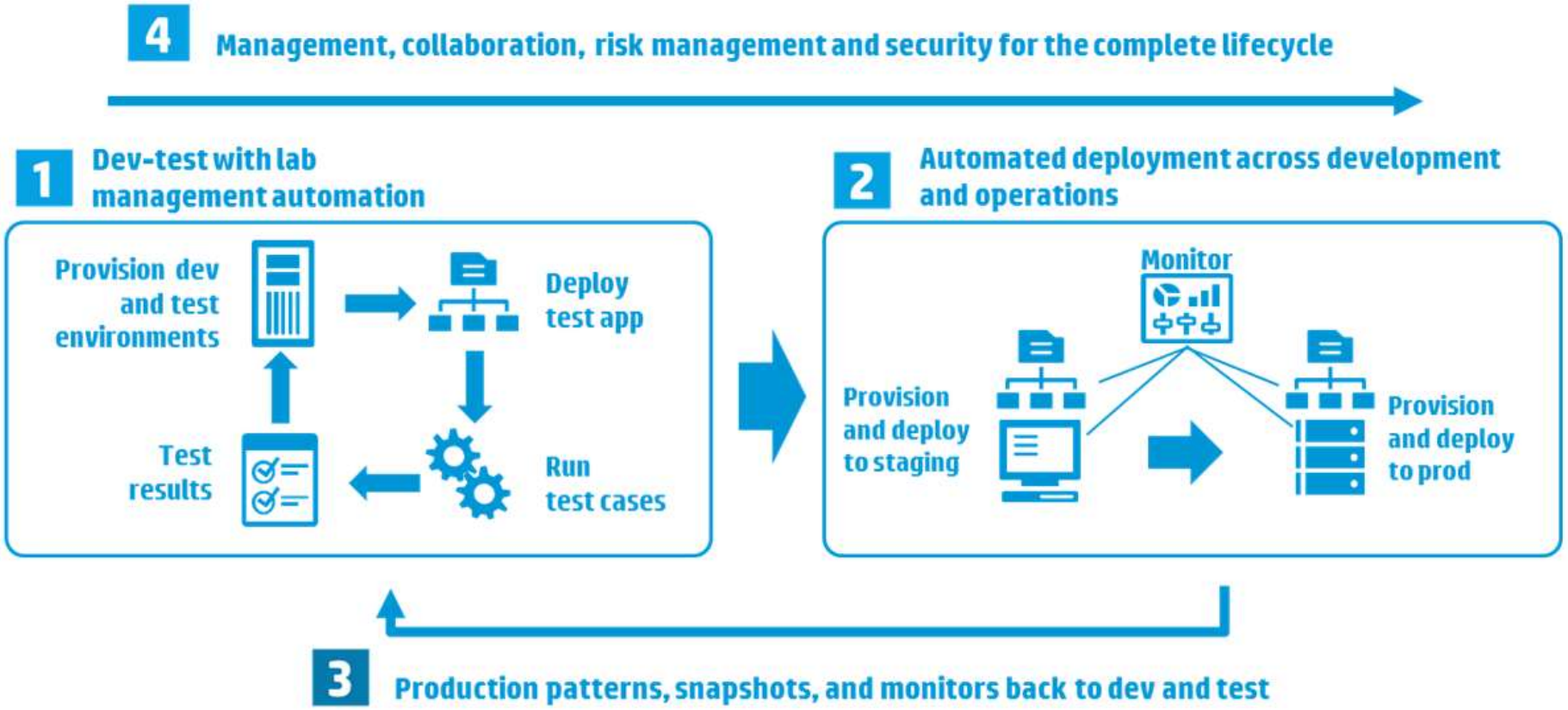

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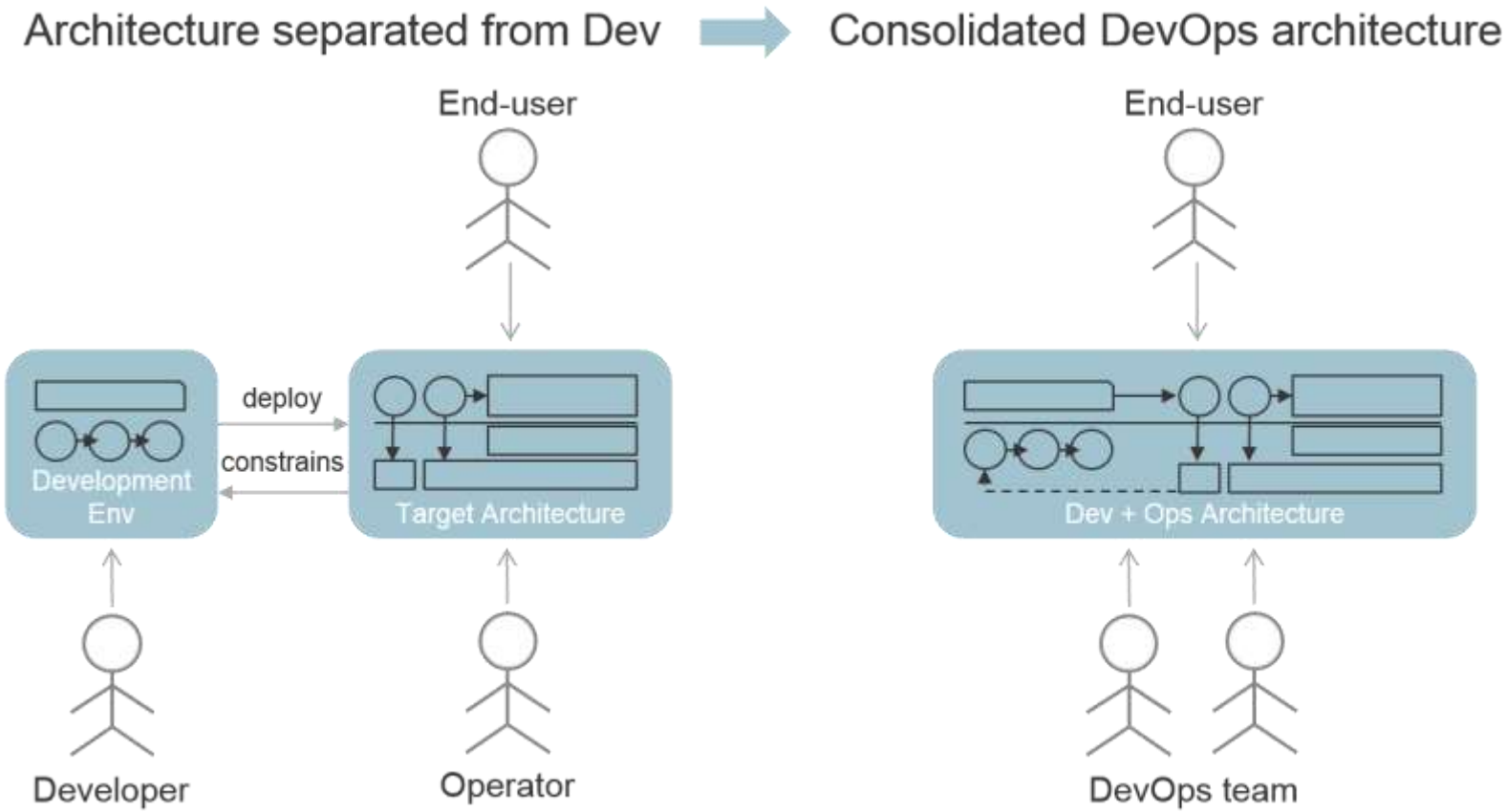

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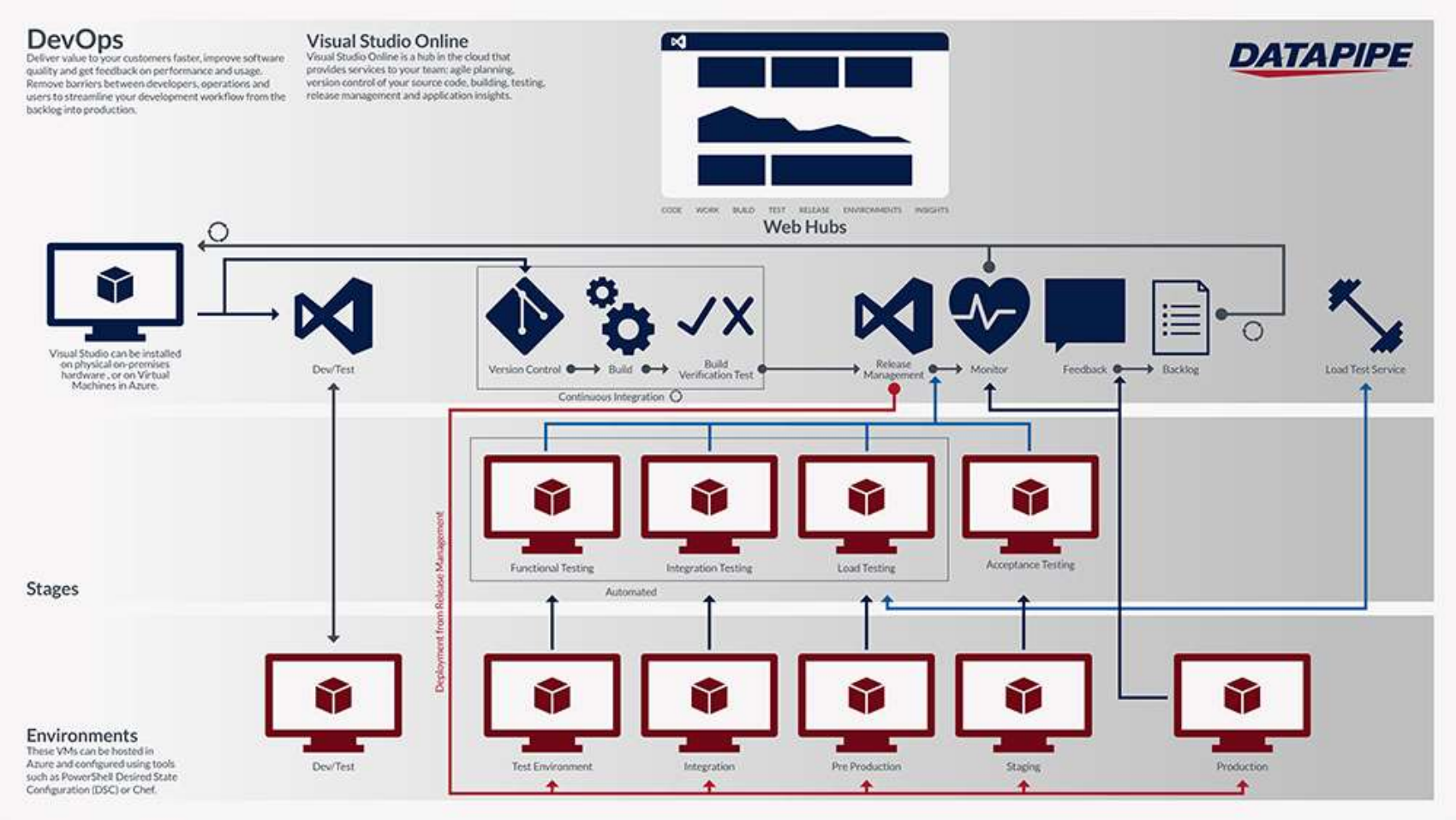

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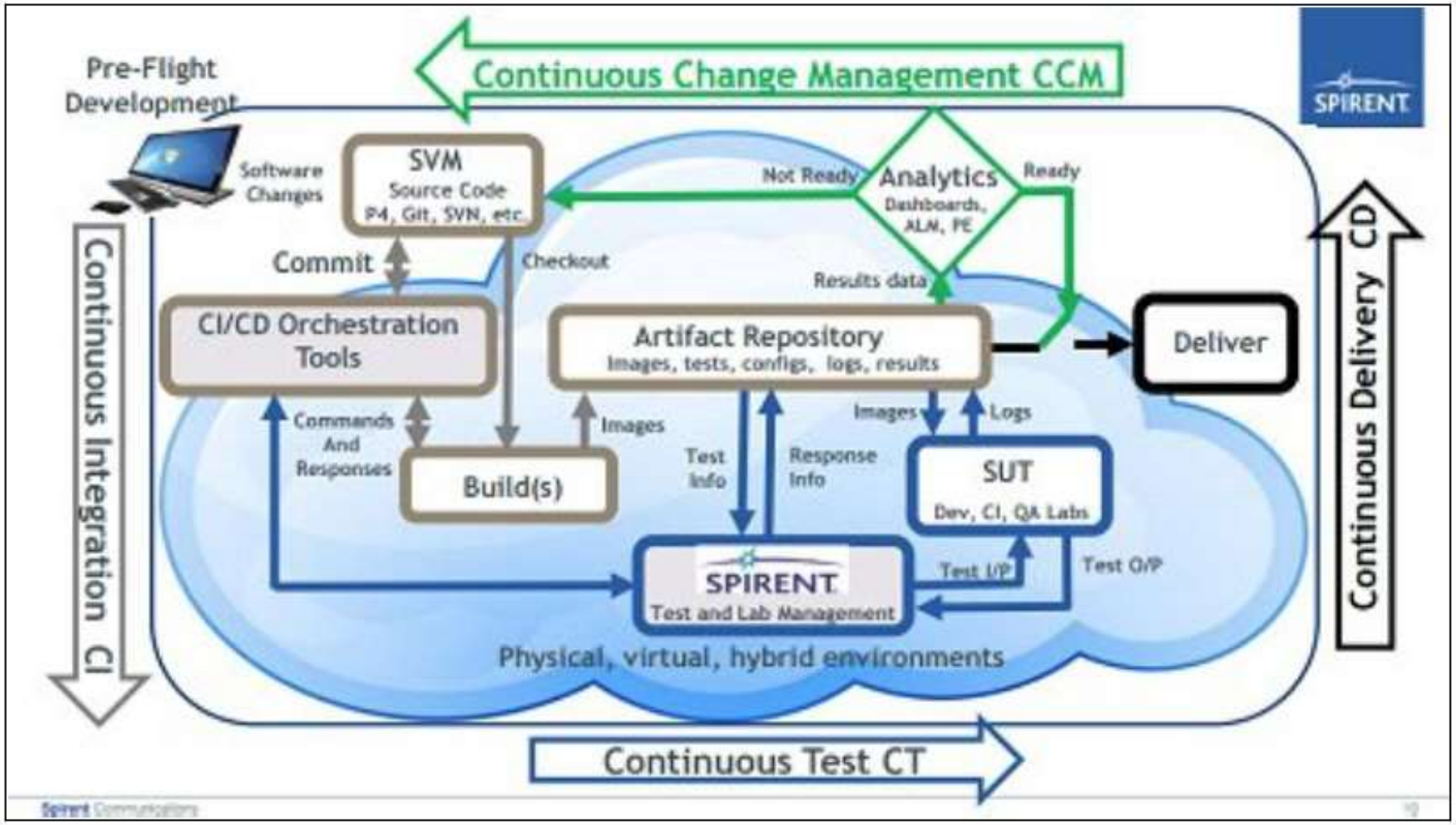

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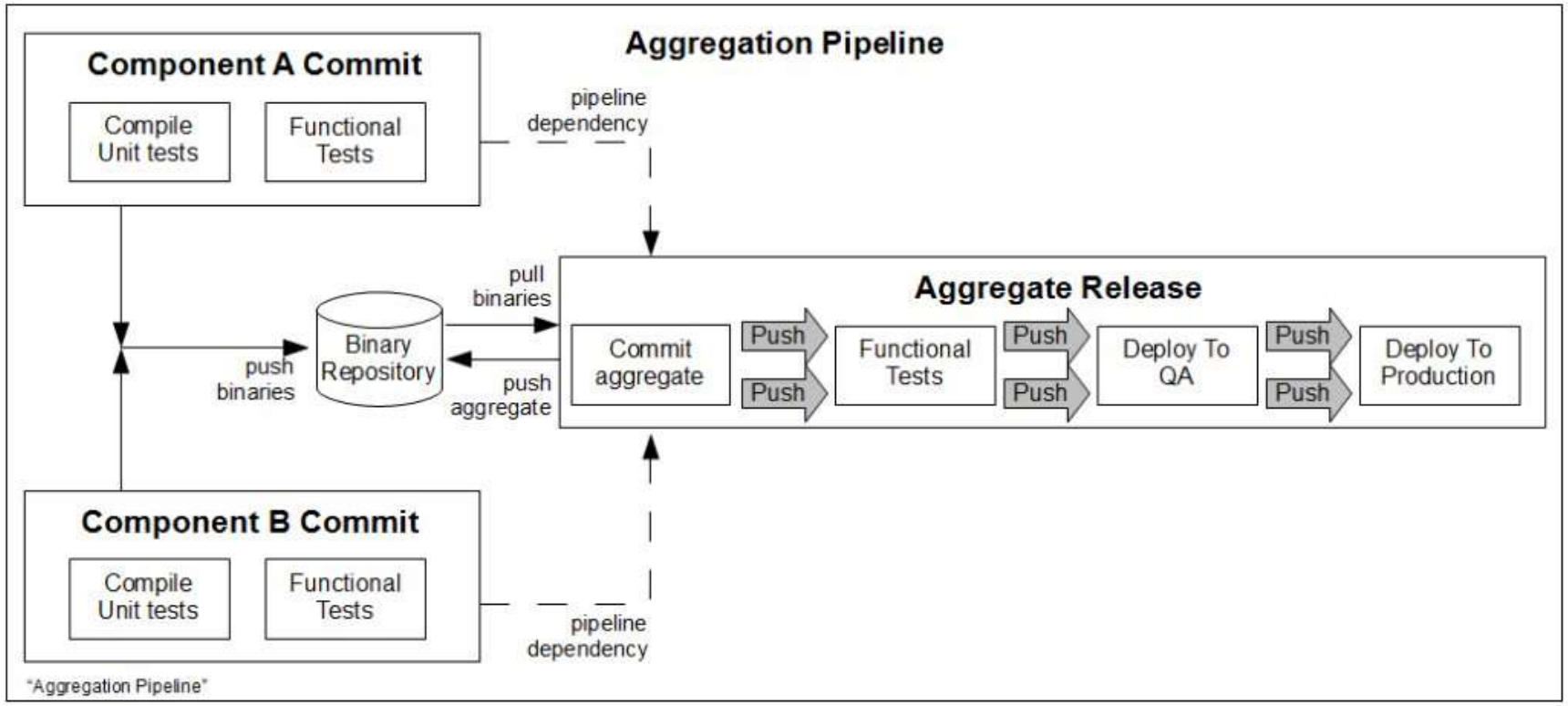

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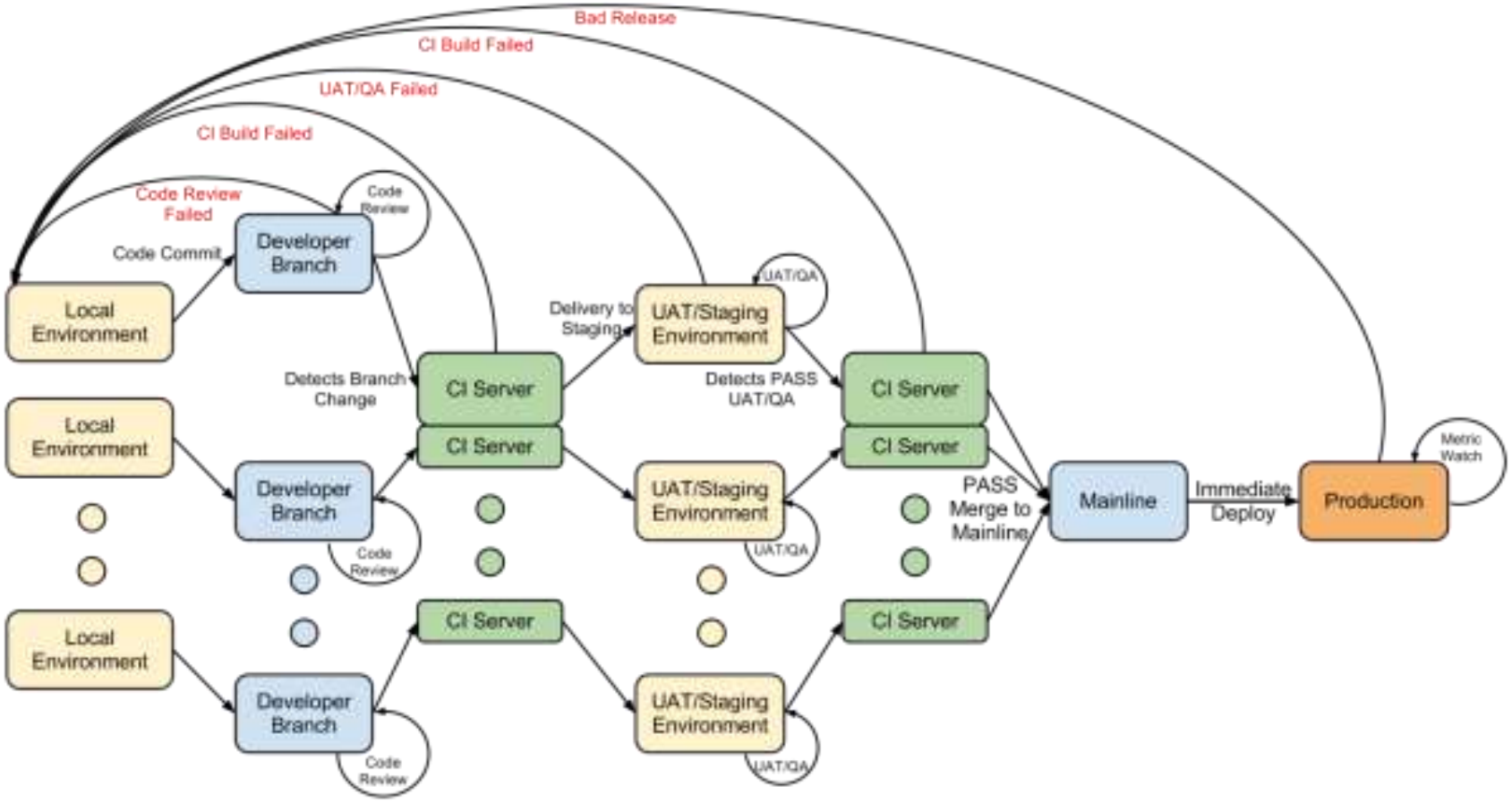

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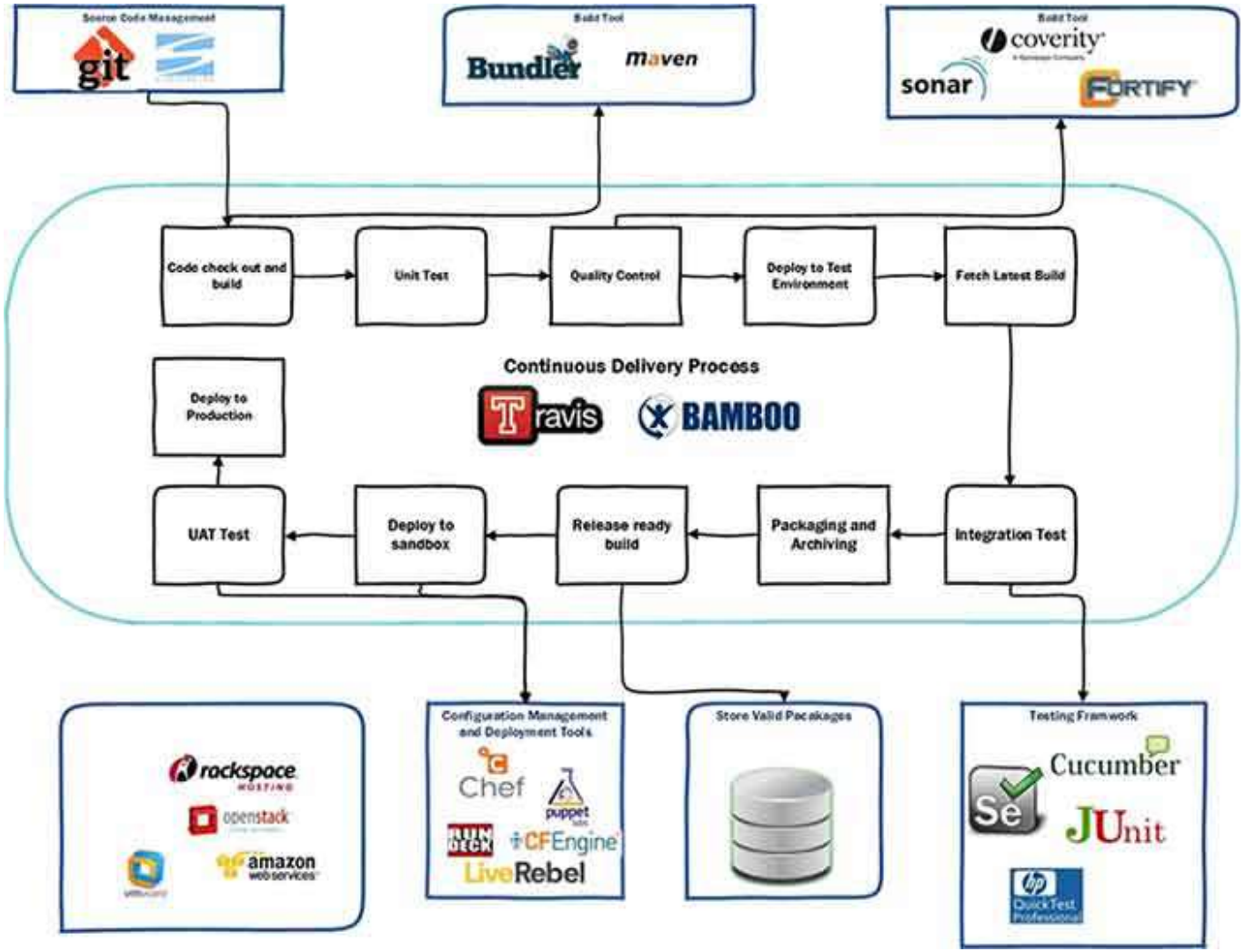

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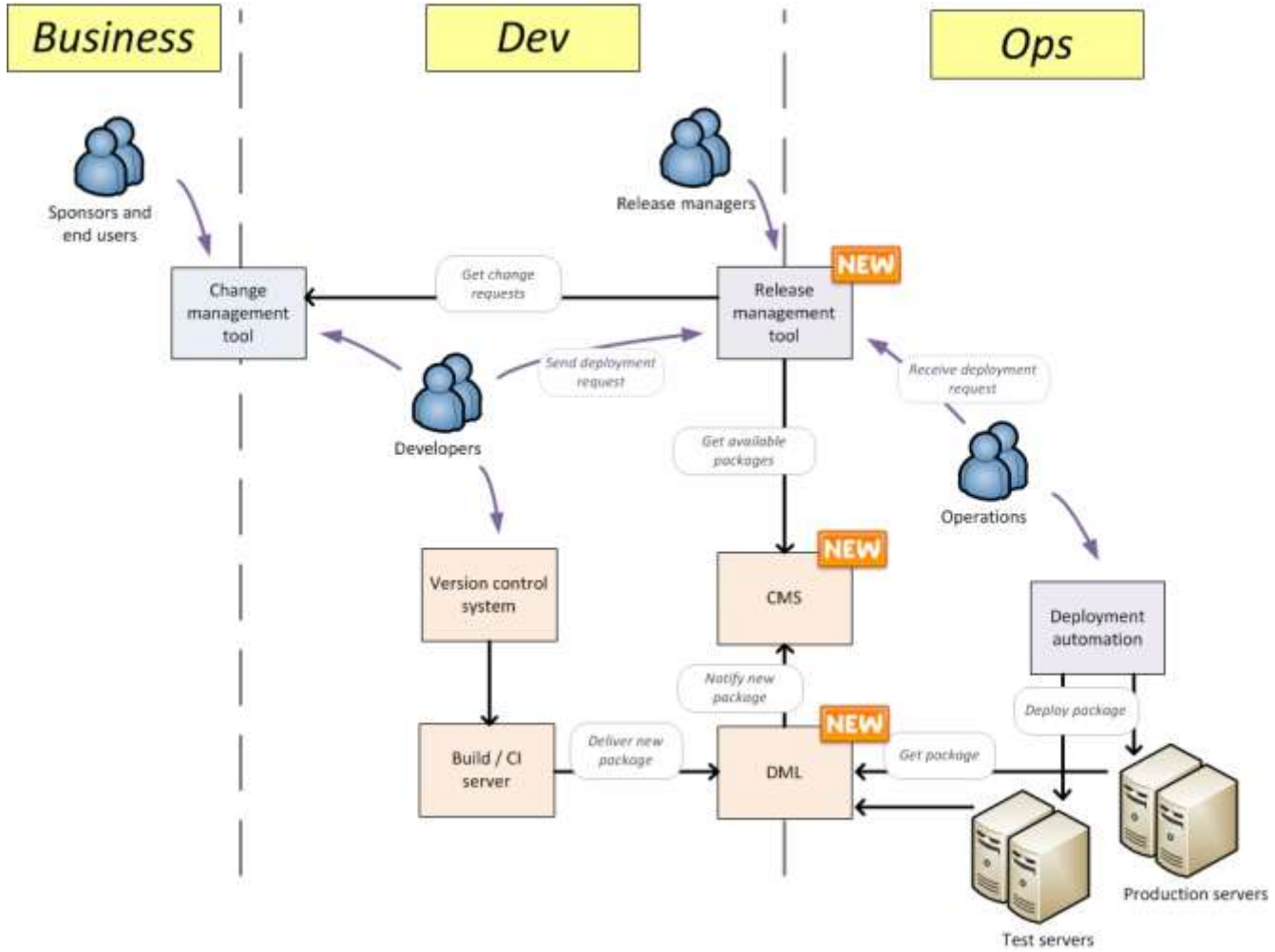
According to Bartholomeus



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