VMware vRealize Code Stream
Release applications faster while reducing operational risk

AT A GLANCE

VMware vRealize™ Code Stream™ accelerates application releases for business agility. It extends the agility provided by Continuous Integration into Continuous Delivery to enable frequent, reliable software releases, while reducing operational risks. It integrates out-of-the-box with Continuous Integration tools through Jfrog Artifactory, delivers visibility across releases and provides a framework for application provisioning. Key capabilities include

- Automation and governance of the entire release process
- A dashboard for end-to-end visibility of the release process across Dev and Ops organizations
- Artifact management and tracking

KEY BENEFITS

- Accelerate application releases for business agility
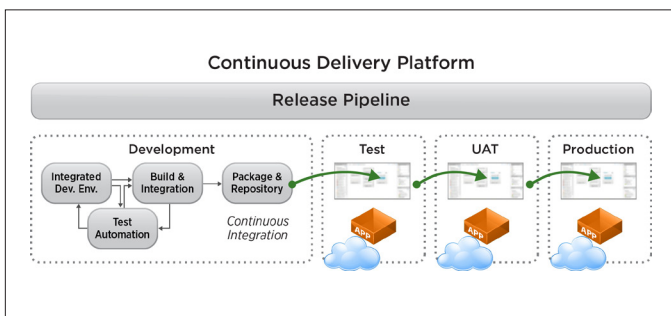- Reduce operational risk with end-to-end visibility of the release process

Figure 1. Continuous Delivery

How Does VMware vRealize Code Stream Work?

vRealize Code Stream is a powerful automation tool designed to enable DevOps teams to streamline tasks in the software release process. It leverages the extensive set of Jfrog Artifactory plug-ins for popular Continuous Integrations tools like sourcecontrol, build, integration test, etc. vRealize Code Stream comprises the following features and components:

Release Pipelines

Model Release Pipelines – Model simple and complex release pipelines by specifying the configuration and various tasks like Provision, Deploy, Test in each stage.

Gating Policies – Remove the manual steps to promote artifacts from one stage to another by defining gating policies between stages. The gating policy will automatically move artifacts to the next stage when specified conditions are met e.g. promote to QE if 90 percent of tests pass in Development.

Release Dashboard – Provide end-to-end visibility to the DevOps team showing the state of each release pipeline and which artifacts versions are deployed in any stage. This helps in troubleshooting errors by comparing a stage to the last successful stage in the pipeline.
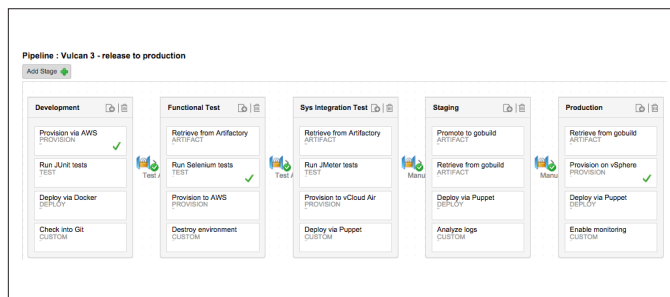

Figure 2. Pipeline: Vulcan 3 – Release to Production

Choice of Provisioning Tools

vRealize Code Stream provides a framework to use industry standard tools for provisioning application environments. It integrates with VMware vRealize™ Automation™, the infrastructure automation and provisioning tool of choice for VMware customers. In addition, it provides out-of-the-box integration with other tools like Puppet, Chef, SaltStack, etc. This integration is provided through VMware vRealize™ Orchestrator™ plug-ins.

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Integration with Jfrog Artifactory

Artifactory has an extensive set of plug-ins to popular Continuous Integration tools like Git, Subversion, Eclipse, Jenkins, etc. vRealize Code Stream users can leverage these plug-ins and continue using tools they are most familiar with.

Figure 3. Continuous Integration

Find Out More

For information or to purchase VMware products, call 877-4-VMWARE (outside North America, +1-650-427-5000), visit http://www.vmware.com/products or search online for an authorized reseller. For detailed product specifications and system requirements, refer to the VMware vRealize Cod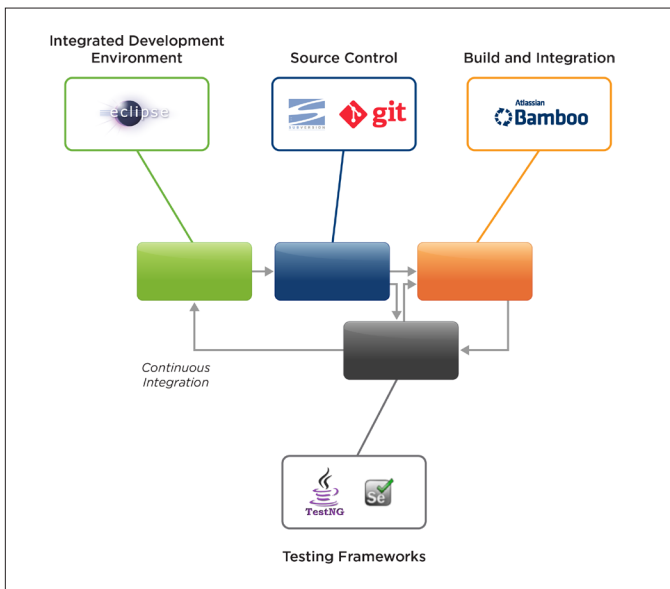e Stream installation and configuration guide.