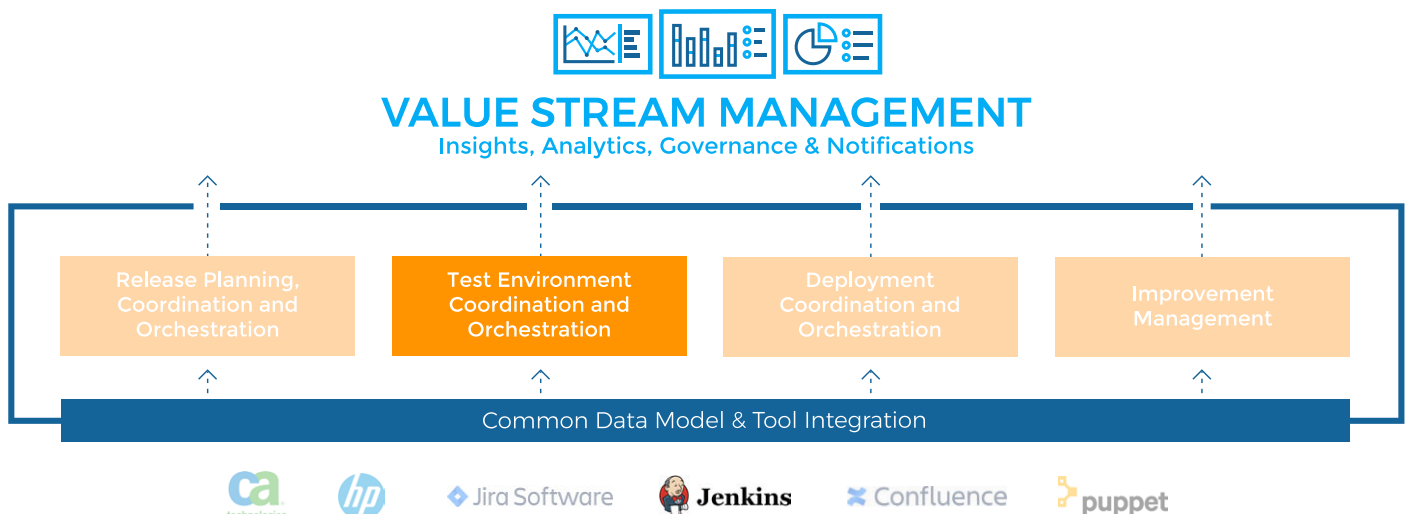# Jenkins Integration with Plutora Environments

Continuous integration practices regularly integrate new code into a shared codebase, producing testable builds at high velocity. For complex enterprise releases, as the build rate increases, the probability that any given change will impact multiple systems also increases. Test environments encompass a seemingly unlimited combination of components and architectures, and environment managers with hundreds, if not thousands, of test environments face the daunting task of maintaining accurate configurations. Executing tests on incorrect configurations or waiting for a test environment update wastes valuable resources that test teams can't spare.

Plutora Environments provides a single resource to schedule, manage, and maintain test environments. The consolidated calendar shows where and when environments have been assigned, and centralized booking avoids conflicts that result in testing delays. Integration with Jenkins build automation enhances visibility and management of multiple release pipelines across the enterprise portfolio.

Integration Benefits

- Trigger Jenkins builds with push-button ease

- Track application status at each phase of the delivery pipeline

- Incorporate Jenkins build versions into audit history

- Increase visibility of fast moving CD pipelines at scale

- Ensure stable test environments

VALUE STREAM MANAGEMENT
Insights, Analytics, Governance & Notifications

| Release Planning, Coordination and Orchestration | Test Environment Coordination and Orchestration | Deployment Coordination and Orchestration | Improvement Management |

Common Data Model & Tool Integration

ca technologies | hp | Jira Software | Jenkins | Confluence | puppet

Plutora Environments integrates with Jenkins to bring enterprise management, control, and reporting to Continuous Integration.
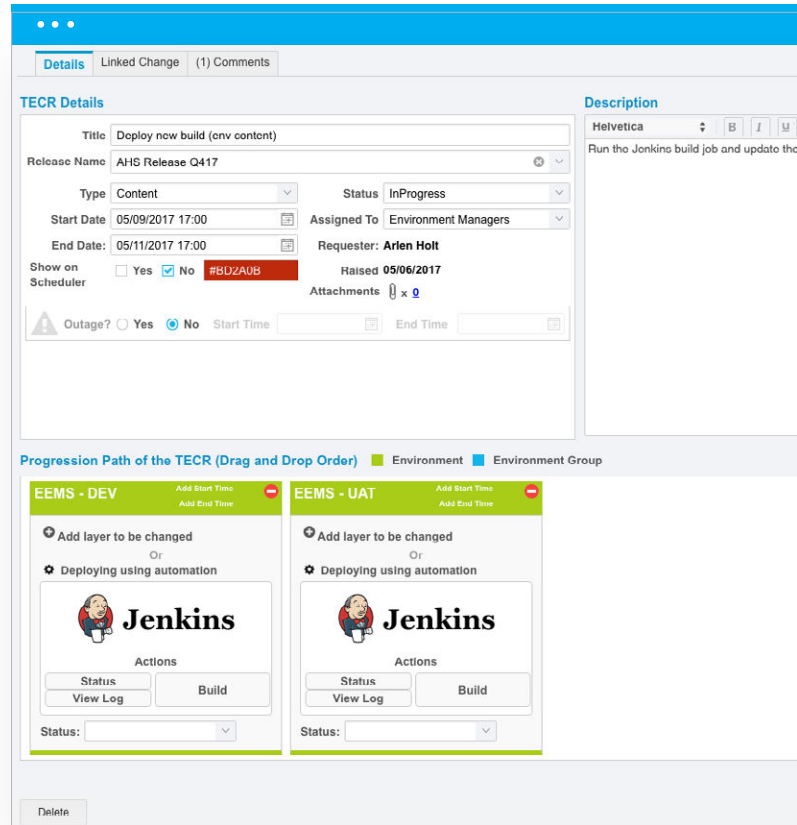
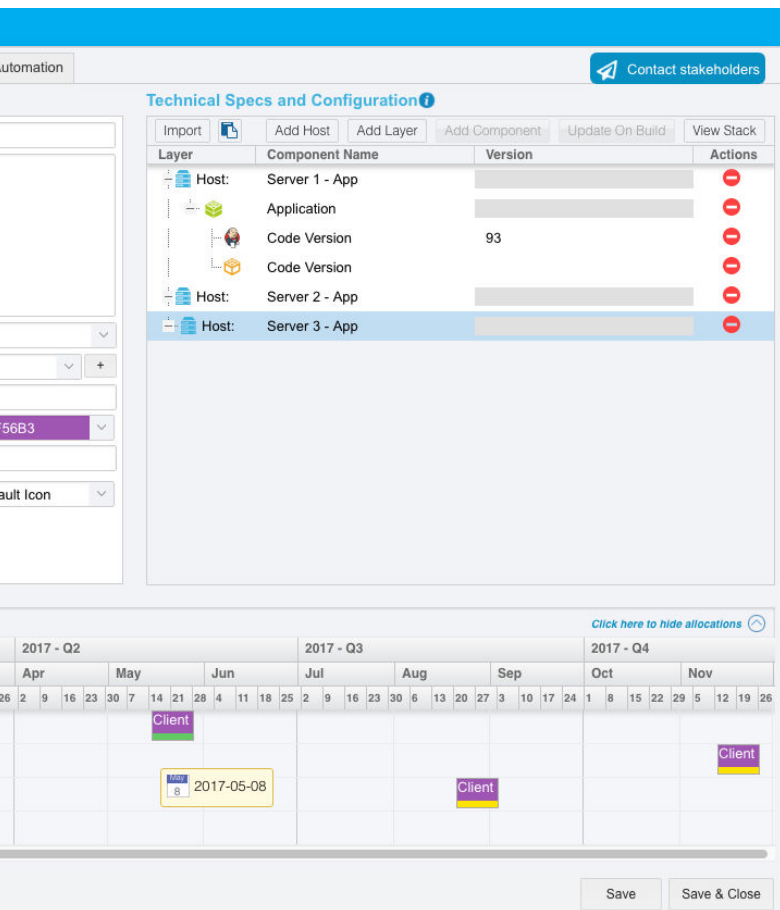# Efficiently move binaries down the delivery pipeline

Plutora Environments supports faster production release cycles by managing test environments in a continuous delivery (CD) model. Test environment change requests initiate workflows, alerting environment managers to assign tasks, view status, and manage approvals. Plutora links Jenkins jobs to test environments, where a build is triggered on-demand to expedite the hand-off of new code from dev into test environments.

Plan

Enterprise releases are a complex dance of moving parts. Multiple CD pipelines, multiple teams, and multiple developers working on a portfolio of applications generates a massive volume of release activity with limited visibility. Associating Jenkins build version numbers with test environments means test, release, ops, and business teams can track application status at each stage of the delivery pipeline.

Build test environments on-demand

Associate Jenkins build version numbers with test environments

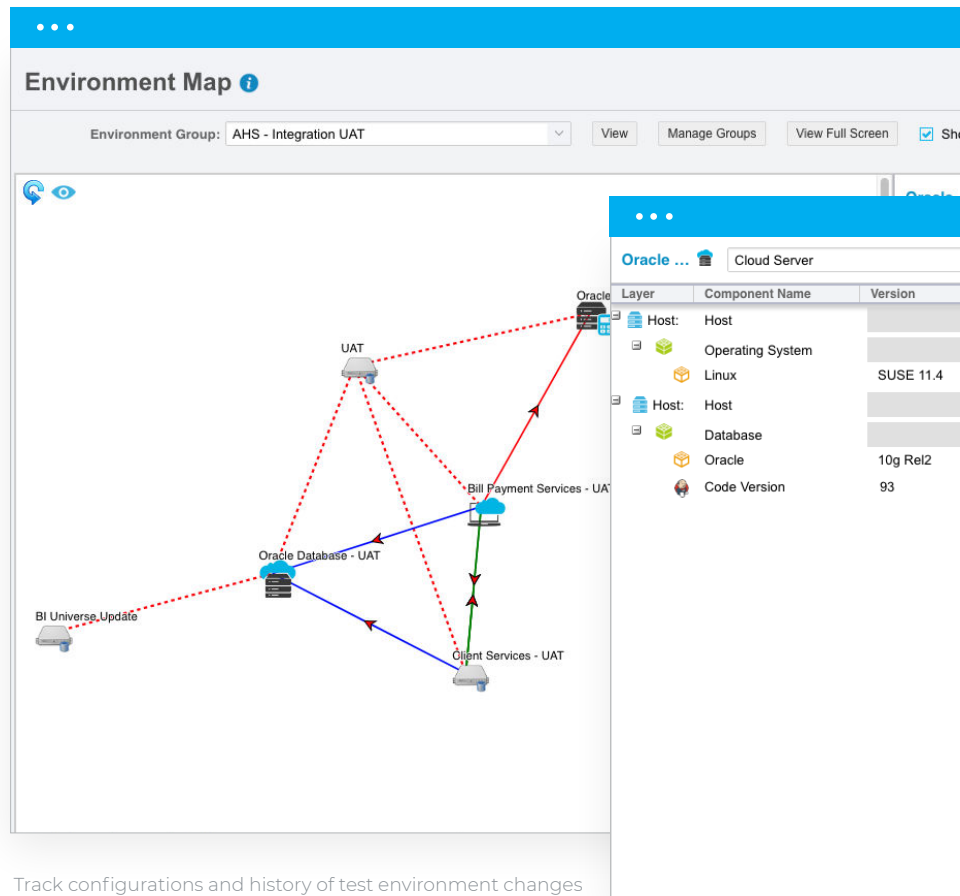# Automatically incorporate component versions into audit history

Release audit history is automatically updated to include Jenkins build numbers assigned to each test environment over the course of a release. Establish traceability of where each change has been introduced, when versions were deployed, and what tests have been run.

Gain actionable insight of validation efforts

With both Jenkins and Jira integration, release managers gain visibility of fast moving CD pipelines at scale. Evaluate code quality by tracking defect backlog from phase to phase, view burndown rates, and sort defects by severity level. Schedule risk can be assessed using detailed dashboards, highlighting cycle time of each release phase and uncovering the barriers impacting progress.

Build stable test environments prior to new code deployment

Configurations for large, complex test environments are hard to maintain. Don't force fast moving test teams to triage issues with environments when they should be focusing on code. With Jenkins integration, environment managers kick off a Jenkins job that leverages Chef and Puppet to configure and verify stability of the test environment prior to installing a new version of code.

Track configurations and history of test environment changes

About Plutora

Plutora, the market leader of value stream management solutions for enterprise IT, improves the speed and quality of software creation by capturing, visualizing and analyzing critical indicators of every aspect of the delivery process. Plutora orchestrates release pipelines across a diverse ecosystem of development methodologies, manages hybrid test environments, correlates data from existing toolchains, and incorporates test metrics gathered at every step. The Plutora Platform ensures organizational alignment of software development with business strategy and provides visibility, analytics and a system of insights into the entire value stream, guiding continuous improvement through the measured outcomes of each effort.

Plutora™

Learn more: www.plutora.com
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