CloudBees CI™ and VMware Tanzu

Faster application delivery, scalability and security

At a Glance

» Deploy, run and manage Kubernetes in production with productivity and efficiency.

» Use CloudBees CI release files, installation steps and usage guidelines from the VMware Solution Exchange.

» Use single sign-on and Role-Based Access Control for team project authorization.

» Provison Jenkins masters and agents and install them in minutes.

» Minimize hardware requirements with elastic build agents, while optimizing storage with containers.

Continuous Delivery with CloudBees CI and VMware Tanzu

CloudBees CI orchestrates and manages multiple Jenkins® servers, delivering consistent continuous integration and continuous delivery (CI/CD) across all teams. It is an automation engine with the flexibility to support diverse software portfolios and united governance required by growing organizations across every industry. It enables you to share agents across masters to improve utilization and avoid bottlenecks.

CloudBees CI extends Jenkins with functionality that embeds best practices, rapid onboarding, security and compliance. CloudBees CI uses the elasticity of VMware Tanzu to easily provision CI/CD infrastructure and interact with other services. The solutions use Role-Based Access Control (RBAC) for advanced security and IP protection. The combination of CloudBees CI and VMware Tanzu creates the perfect environment to deliver faster time to value for your organization and customers.

Manage and Run Jenkins at Enterprise Scale

Administrators can easily provision their continuous delivery infrastructure on VMware Tanzu in containers and elastically allocate resources on demand without paying for idle resources. VMware Tanzu moves your innovations into production faster while minimizing app downtime, manual intervention, do-it-yourself (DIY) scripting and troubleshooting. CloudBees CI is installed and upgraded from the Kubernetes CLI, just like any other business-critical application.
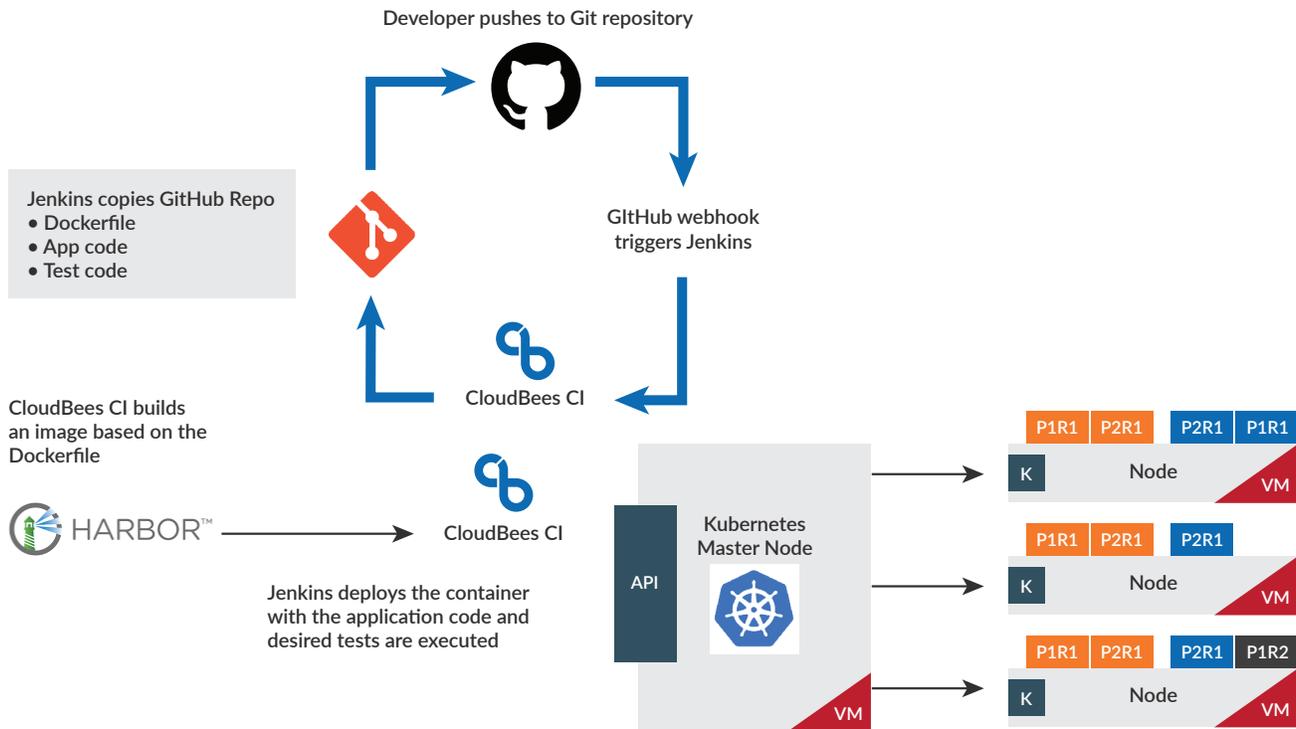
Enterprise-Level Performance and Support

Enterprise level functionality secures and optimizes downtime and helps manage Jenkins more effectively. Ensure enterprise implementations are successful every time with comprehensive technical support from the team of Jenkins experts at CloudBees.

CloudBees CI Available on VMware Solution Exchange

Deploy CloudBees CI easily on VMware Tanzu to take advantage of elastic scalability, high availability and dynamic team provisioning. This will provide you with a production-ready, enterprise CI/CD platform within minutes that can scale to all of your development teams. Scale your CI/CD implementations by shifting Jenkins-compute intensive jobs and resources to VMware Tanzu.

Architectural Overview

Developer pushes to Git repository

Jenkins copies GitHub Repo
• Dockerfile
• App code
• Test code

GItHub webhook
triggers Jenkins

CloudBees CI builds
an image based on the
Dockerfile

CloudBees CI

HARBOR™ → CloudBees CI

Jenkins deploys the container
with the application code and
desired tests are executed

API

**Kubernetes
Master Node**

VM

P1R1	P2R1	P2R1	P1R1
K	Node		VM

P1R1	P2R1	P2R1	
K	Node		VM

P1R1	P2R1	P2R1	P1R2
K	Node		VM

CloudBees CI runs natively on VMware Tanzu. The components of CloudBees CI, such as masters and agents, are provided as Docker images and deployed in pods, so that they can be dynamically scaled and are resilient to failures. Deep integration with VMware Tanzu allows IT operations to use a common set of tools for VMs and containers, and to follow standard protocols to deploy and manage CloudBees CI like any other business-critical application.

Get Started Today

Find CloudBees CI in the VMware Solution Exchange:

https://marketplace.vmware.com/vsx/solutions/cloudbees-core-for-pks