



CloudBees® CI and Jenkins®

Feature Comparison

CloudBees CI is an enterprise Continuous Integration (CI) solution that leverages the flexible and robust Jenkins engine. With its additional features, this solution enhances scalability, manageability, and performance for enterprises utilizing Jenkins. So, how does Jenkins and CloudBees CI stack up against each other? Check out the feature comparison below, along with helpful links for more information.

	Jenkins LTS	CloudBees CI Traditional Platforms	CloudBees CI Modern Platforms
Resiliency			
High Availability - Active-Active		✓	✓
High Availability - Active Passive		✓	
Self-Healing Kubernetes	✓		✓
Managing CI at Scale			
Horizontal Scalability for automatic scaling and load balancing of workload		✓	✓
Centralized management of controllers and a central view into a CI cluster		✓	✓
Plugin Management (verify compatability, manage plugin versions and enforce compliance)		✓	✓
Cluster operations such as performing backups or restarts on client controllers, or upgrading or installing plugins		✓	✓
Shared and centrally organized pipeline templates		✓	✓
Share build agents across connected controllers		✓	✓
Auto-discovery of pipeline templates in repositories		✓	✓
Store complete controller configuration(basic config plus: plugins, RBAC, items (pipeline jobs, folders, organization folders) to file for easy replication (CasC)		✓	✓
Developer Productivity			
Modern and performant pipeline troubleshooting tool		✓	✓
Receive and act upon granular, actionable build data directly in GitHub	✓	✓	✓
Receive granular, actionable build data directly in Slack	✓	✓	✓
Automate pipelines across teams/controllers (pub/sub message bus)		✓	✓
Manage inbound events across multiple controllers		✓	✓
Security and Governance			
Centrally enforce common security options, including authentication system across a cluster of controllers		✓	✓
Flexible role-based access control (RBAC) with granular role/group permissions and multiple levels of authorization control		✓	✓

Jenkins LTS = Jenkins long term support release

CloudBees CI Modern Platforms = designed to run on Kubernetes



	Jenkins LTS	CloudBees CI Traditional Platforms	CloudBees CI Modern Platforms
Single Sign-On (SSO) for access to multiple controllers	✓	✓	✓
Enforce best practices on pipelines		✓	✓
Manage objects in folders to enable access control to controllers and agents		✓	✓
Cloud Platform			
Jenkins build validated for AKS, EKS, GKE, PKS, and OpenShift (Kubernetes)			✓
Share cloud agent configuration across a cluster of controllers		✓	✓
Automatically free unused resources when idle (Hibernation) for resource cost savings and optimization			✓
Elastically scale agents up and down dynamically based on workload	✓		✓
Installation, Updates and Maintenance			
Monthly rolling releases		✓	✓
Assisted updates available		✓	✓
Analysis of Jenkins environment (Alerts you to out-of-date components, security vulnerabilities and issues impacting performance)	✓	✓	✓
Curated list of 200+ plugins to ensure compatibility with each other and the Jenkins build instance		✓	✓
Automated incremental plugin security updates (deliver plugin security fixes or important new features that can't wait until the next full product release)		✓	✓
Cluster operations such as performing backups or restarts on client controllers, or upgrading or installing plugins		✓	✓
Manage plugin compatibility and updates with custom plugin catalogs		✓	✓
Report on plugin usage		✓	✓
Support Services			
24/7 expert support available depending on support agreement		✓	✓
Dedicated expertise to accelerate your DevOps transformation		✓	✓

Ready to get started with CloudBees CI?
Schedule a demo today!
cloudbees.com/ci/demo

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 Read more about Jenkins at: www.cloudbees.com/jenkins/about

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