

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.

	Jenkins LTS	CloudBees CI Traditional Platforms	CloudBees CI Modern Platforms
Resiliency			
High Availability (active/active)		✓	✓
High Availability (active/passive)		✓	
Kubernetes resiliency	✓		✓
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 compatibility, manage plugin versions, and enforce compliance)		✓	✓
Cluster operations such as performing backups or restarts on controllers, or upgrading or installing plugins		✓	✓
Pipeline template catalog to centrally share and organize pipeline templates		✓	✓
Share build agents across connected controllers		✓	✓
Auto-discovery of pipeline templates in repositories		✓	✓
Store complete controller and operations center configuration (basic configuration in addition to: plugins, RBAC, items) to YAML file for easy replication via CasC		✓	✓
Developer Productivity			
Build-time optimization with workspace caching		✓	✓
Modern and performant pipeline troubleshooting		✓	✓
Receive automatic granular, actionable build data directly in GitHub	✓	✓	✓
Receive automatic granular, actionable build data directly in Slack		✓	✓
Automate pipelines across teams/controllers		✓	✓
Manage inbound events across multiple controllers		✓	✓

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
Security and Governance			
Centrally enforce common security options, including authentication system across a cluster of controllers		✓	✓
Centrally managed and flexible RBAC model that introduces roles and groups		✓	✓
Single point of configuration for single sign-on (SSO) across 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			
Rolling releases	✓	✓	✓
Assisted updates available		✓	✓
Analysis of your 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		✓	✓
Upgrade plugins with the Beekeeper Upgrade Assistant		✓	✓
Cluster operations such as performing backups or restarts on 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/products/continuous-integration/demo

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