



CloudBees Smart Tests

Ship faster. Test smarter. Sleep better.

Smart Tests finds and runs only the tests that matter, using explainable AI that learns from every change. Your teams move faster, spend less, and ship with confidence.

When Speed Becomes the Bottleneck

Modern test suites have exploded. Running every test on every change wastes hours, compute, and patience. Developers wait. Bills rise. Releases slip.

Smart Tests fixes that without asking you to rebuild your pipelines.

Precision That Keeps Pace

Smart Tests learns from each commit to run the smallest, safest set of tests for that change.

It cuts waste, shortens cycles, and scales with your codebase using AI that is transparent and auditable.



Within a couple of hours, our developers had meaningful test results instead of waiting days. It completely changed how fast we can ship.

– Principal DevOps Engineer,
Global Software Provider

From Testing Everything to Testing Smart

● Predictive Test Selection

Uses AI to identify the smallest, most relevant subset of tests based on historical code and test behavior.

● AI-Driven Failure Triage

Clusters recurring issues for faster diagnosis, helping teams pinpoint failing or slow tests and prioritize fixes.

● Confidence Modeling

Delivers 90%+ defect-detection confidence while reducing total test execution.

● Continuous Learning

Improves accuracy with every run and repository, adapting to evolving codebases automatically.

● Quality & Reliability Insights

Provides data-driven visibility into flakiness, stability, and runtime trends to strengthen test health.

● Governed AI

Ensures every recommendation is explainable, auditable, and reversible for full trust and control.

Proof in Every Pipeline

Metric	Before	After Smart Tests	Improvement
Pre-commit testing	6 hrs	2 hrs	↓ 66%
Regression cycle	Multi-day	< 2 hrs	↓ 80%
Cloud cost	High	3–5 VMs saved per test hour	↓ Spend
Release velocity	Monthly	Bi-weekly	2x faster delivery

Up to

80%

Test execution time reduction

Up to

2x

Annual release velocity

Up to

3-5

Cloud instances saved per test hour

Part of CloudBees Unify

Used on its own, Smart Tests accelerates and de-risks testing across any CI/CD system. When connected through CloudBees Unify, it becomes part of a governed ecosystem that unifies intelligence across testing, security, compliance, and release orchestration. Together they deliver: A single, trusted source of truth across pipelines and tools.

Move Faster. Stay Confident.

- [See Smart Tests in action.](#) Cut test time, cost, and friction.
- [Join the CloudBees AI Design Partner Program.](#) Shape the future of AI-driven quality.

Learn more: visit cloudbees.com/unify and book a demo.



CloudBees, Inc.
cloudbees.com
info@cloudbees.com

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