TeamCity

Your 24/7 Build Engineer

Overview

TeamCity is a continuous integration and delivery server from JetBrains. It takes moments to set up, shows your build results on-the-fly, and works out of the box. TeamCity will make sure your software gets built, tested, and deployed, and will notify you on that the way you choose. TeamCity integrates with all major development frameworks, version control systems, issue trackers, IDEs, and cloud services, providing teams with an exceptional experience of a well- built intelligent tool. With a fully functional free version available, TeamCity is a great fit for teams of all sizes.

Key Benefits

- Simple setup: create projects from just a VCS repository URL, or even directly from your GitHub or Bitbucket projects.
- Keep project settings in version control, and create and update projects and build con gurations using DSL.
- Automate code analysis, compiling, and testing processes, with having instant feedback on build progress, problems, and test failures, all in a simple, intuitive web-interface.
- Run multiple builds and tests under different configurations and platforms simultaneously.
- Make sure your team sustains an uninterrupted workflow with the help of Pre-tested commits and Personal builds.
- Have build history insight with customizable statistics on build duration, success rate, code quality, and custom metrics.
- Run your projects at a large scale by enabling a two-node configuration, or cluster your servers with cross-server project navigation.
- Enable cost-effective on-demand build infrastructure scaling thanks to tight integration with Amazon EC2, Microsoft Azure, and VMware vSphere.
- Deploy artifacts using a variety of built-in deployers.
- Easily extend TeamCity functionality and add new integrations using Java REST API.
- Great visual project representation. Track any changes made by any user in the system, filter projects and choose style of visual change status representation.

Key Features

For .NET

- Support for Visual Studio solutions, as well as any other project using MSBuild or NAnt build scripts.
- Testing with any of the .NET testing frameworks out of the box, including: NUnit, MSTest, MSpec, and Gallio and xUnit via plugins. Usually, there's no need to make any changes in the build scripts, TeamCity will report tests automatically.
- Automatic support for most of the coverage engines currently available for .NET: NCover, PartCover, or JetBrains dotCover.
- Code duplicates nder backed with FxCop and ReSharper.
- Full Visual Studio integration: build notifications, browsing build results, navigation to the source code, code coverage highlighting (in case of using dotCover).

For Ruby

- Support for Ruby projects, building with RVM, Bundler, or Ruby SDK.
- Unit testing with any of the publicly available tools, such as Test::Unit, Test-Spec, Shoulda, RSpec, Cucumber.
- Full integration with JetBrains RubyMine, including running builds, pre-tested commits, browsing build, and unit tests results.

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For Java

- Out-of-the-box CI for any Ant, Maven, or Gradle based projects with zero modifications to the build scripts. IntelliJ IDEA projects are supported as well.
- Over 600+ automated server-side code inspections for Java, JSP, JavaScript and CSS out of the box.
- JUnit and TestNG based unit testing without modifying build scripts; On-the-fly failed tests reporting; Tests auto reordering “failed first”.
- Server-side code coverage with Emma, Jacoco, or with the IDEA-based code coverage framework.
- Code duplicates finder for Maven-based and IntelliJ IDEA projects.
- Full integration with IntelliJ IDEA and Eclipse.

Distributed Version Control Systems

- TeamCity supports: Git, Subversion, Mercurial, Perforce, Team Foundation Version Control, SourceGear Vault, CVS, IBM Rational ClearCase, Borland StarTeam, Visual SourceSafe.
- Developing with feature branches in Git and Mercurial with TeamCity is extremely simple.
- As soon as you push your branch to Git or Mercurial repository, TeamCity will detect it and start a build on your changes. TeamCity also provides branch support for Perforce streams.
- You can also enjoy using automatic merge feature for merging feature branches to the default, when a build finishes successfully in the branch.

Other technologies

- With 3rd party plugins, TeamCity also supports following testing frameworks: Gallio, xUnit, Boost Test (C++), CppUnit(C++), Unit test (Python), and Nose (Python).
- TeamCity provides full integration with Xcode 3 (target-based build), Xcode 4 (scheme-based build), and Xcode 5.

System requirements

- TeamCity is a Java-based server-side application, it installs on any platform with Java support.
- Oracle Java (JRE) 8 (included in the Windows .exe distribution). Both 32-bit and 64-bit Java versions can be used (64 bit is recommended for production).
- For .war distribution: J2EE Servlet (2.5+) container, JSP 2.0+ container based on Apache Jasper. TeamCity is tested under Tomcat 7 which is the recommended server.
- TeamCity comes bundled with HSQLDB 1.8/2.x database, but can be con gured to use external database. External databases supported include: MySQL 5.0.33+, 5.1.49+, 5.5+, 5.6+, 5.7+; MS SQL Server 2005, 2008, 2012, and 2014 (including Express editions), SQL Azure; PostgreSQL 8.2+, Oracle 10g+.

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