

Supported Platforms and Environments

This page covers software-related environments TeamCity works with. For hardware-related notes, see [this section](#).

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Platforms (Operating Systems)

TeamCity Server

Core features of TeamCity server are platform-independent. See [considerations](#) on choosing server platform. TeamCity server is a web application that runs within a capable J2EE servlet container.

Requirements:

- Java (JRE), see configuration [notes](#). Supported are:
 - OpenJDK or Oracle Java 8 (32 or 64 bit). Using latest available version of JDK 1.8 is recommended, Java versions before 1.8.0_16 are not supported. Using [64 bit Java](#) is recommended for non-trivial production usage.
 - Since TeamCity 2018.2 OpenJDK 8 (by [AdoptOpenJDK](#)) is included in the Windows `.exe` TeamCity distribution (before 2018.2 Oracle Java was bundled with TeamCity Windows distribution).

For the `.war` distribution, note that the `.war` distribution is going to be discontinued, and it is highly recommended to use the `.tar.gz` distribution, which has Tomcat bundled. It is not advised to customize Tomcat settings unless absolutely necessary. If you still want to use the `.war` distribution, note that:

- TeamCity is tested only under Apache Tomcat 8.5+, earlier Tomcat versions are not supported.
- TeamCity is meant to support J2EE Servlet 3.0+ and JSP 2.2+ container based on Apache Jasper.
- TeamCity may not work properly if the [Apache Portable Runtime](#) is enabled in Tomcat.

Generally, all the recent versions of Windows, Linux and macOS are supported. If you find any compatibility issues with any of the operating systems please make sure to [let us know](#).

The TeamCity server is tested under the following operating systems:

- Linux (Ubuntu, Debian, RedHat, SUSE, and others)
- macOS
- Windows 7/7x64
- Windows Server 2008, 2012, 2016
- Server Core installation of Windows Server 2016
- Windows 10 under the Tomcat 8.5+ web application server.

Reportedly works without known issues on:

- Windows 7+
- Windows Server 2008 R2
- Solaris
- FreeBSD
- IBM z/OS
- HP-UX

Note that Windows XP/XP x64 are not supported.

Build Agents

The TeamCity Agent is a standalone Java application.

Requirements:

- Java (JRE), see configuration [notes](#). Supported are:
 - OpenJDK or Oracle Java 8 - 10. Using latest available version of JDK 1.8 is recommended. Support for running agent run under Java 1.6 and 1.7 is deprecated.
 - Since TeamCity 2018.2 OpenJDK 8 (by [AdoptOpenJDK](#)) is included in the Windows `.exe` TeamCity distribution (before 2018.2 Oracle Java was bundled with TeamCity Windows distribution).

TeamCity agent is tested under the following operating systems:

- Linux
- macOS
- Windows 7/7x64
- Windows 10
- Windows Server 2003/2008, 2012, 2016
- Server Core installation of Windows Server 2016

Reportedly works on:

- Windows XP/XP x64
- Windows 2000 (interactive mode only)
- Solaris
- FreeBSD
- IBM z/OS
- HP-UX

Stop Build Functionality

Build stopping is supported on:

- Windows 7/7x64/10
- Linux on x86, x64, PPC and PPC64 processors
- macOS on Intel and PPC processors
- Solaris 10 on x86, x64 processors

Windows Tray Notifier

Windows 7/7x64/10 with one of the supported versions of Internet Explorer.

Web Browsers

The TeamCity Web Interface is mostly W3C-compliant, so just about any modern browser should work well with TeamCity. The following browsers have been specifically tested and reported to work correctly in the recent versions of:

- Google Chrome
- Mozilla Firefox
- Safari under Mac
- Microsoft Edge
- Microsoft Internet Explorer 11+. Support for Internet Explorer 10 is discontinued since TeamCity 2018.1.4.
- Opera 15+

Build Runners

TeamCity supports a wide range of build tools, enabling both Java and .Net software teams to build their projects.

Supported Java build runners

- [Ant 1.6-1.10](#) TeamCity 2018.2 comes bundled with Ant 1.9.11.
- [Maven](#) versions 2.0.x, 2.x, 3.x (known at the moment of the TeamCity release). Java 1.5 and higher is supported. TeamCity comes bundled with Maven 2.2.1, 3.0.5, 3.1.1, 3.2.5, 3.3.9 and 3.5.4.
- [IntelliJ IDEA Project](#) runner (requires Java 8)
- [Gradle](#) (requires Gradle 0.9-rc-1 or higher)
- [Java Inspections](#) and [Java Duplicates](#) based on IntelliJ IDEA (requires Java 8)

Supported .Net platform build runners

- [MSBuild](#). Requires .Net Framework or Mono installed on the build agent. Microsoft Build Tools 2013, 2015 and 2017 are also supported.
- [NAnt](#) versions 0.85 - 0.91 alpha 2. Requires .Net Framework or Mono installed on the build agent.
- [Microsoft Visual Studio Solutions](#) (2003 - 2015 and 2017). Requires a corresponding version of Microsoft Visual Studio installed on the build agent.
- [FxCop](#). Requires FxCop installed on the build agent.
- [Duplicates Finder for C# and VB.NET code](#) based on [ReSharper Command Line Tools](#). Supported languages are C# up to version 4.0 and VB.NET version 8.0 - 10.0. Requires .Net Framework 4.0+ installed on the build agent.
- [Inspections for .NET](#) based on [ReSharper Command Line Tools](#). Requires .Net Framework 4.0+ installed on the build agent.
- [.NET Process Runner](#) for running any .NET application (requires .NET installed on the build agent)
- [NuGet](#) runners under Windows, Linux macOS. Require NuGet.exe Command Line tool installed on the agents. Supported NuGet versions under Windows are 1.4+.
 - Windows: NuGet versions prior to 2.8.6 require .Net Framework 4.0+ installed on the build agent
 - Windows: NuGet 2.8.6 and later requires .NET 4.5
 - Linux and macOS: require [Mono 4.4.2+](#) and NuGet CLI 3.2+ installed on the agent
- [.NET CLI \(dotnet\)](#). Requires the [.NET Core SDK](#) installed on build agents.

Other runners

- [Rake](#)
- [Command Line Runner](#) for running any build process using a shell script
- [PowerShell](#) versions 1.0 through 5.0 are supported.
- [Xcode](#) versions 3-8 are supported (requires Xcode installed on the build agent)

Testing Frameworks

- [JUnit 3.8.1+](#), 4.x
- [NUnit 2.2.10](#), 2.4.x, 2.5.x, 2.6.x, 3.0.x are supported (dedicated build runner).
- [TestNG 5.3+](#)
- [MSTest 8.x-12.x,14.x, 15.x](#) and [VSTest](#) are supported by the [Visual Studio Tests](#) runner; requires the appropriate Microsoft Visual Studio edition or Visual Studio Test Agent installed on the build agent.
- [MSpec](#) (requires MSpec installed on the build agent)

Version Control Systems

- [Git](#) (for automatic "git gc" support requires Git client installed on the server in order to perform maintenance of Git clones, latest version is recommended)
- [Subversion](#) (server versions 1.4-1.9 and higher as long as the protocol is backward compatible).
- [Perforce](#) (requires a Perforce client installed on the TeamCity server). Check [compatibility issues](#).
- [Team Foundation Server](#) 2005, 2008, 2010, 2012, 2013, 2015, 2017 are supported.
- [Mercurial](#) (requires the Mercurial "hg" client v1.5.2+ installed on the server)
- [CVS](#)
- [SourceGear Vault](#) 6 and 7 (requires the Vault command line client libraries installed on the TeamCity server)
- [Borland StarTeam](#) 6 and up (the StarTeam client application must be installed on the TeamCity server)
- [IBM Rational ClearCase](#), Base and UCM modes (requires the ClearCase client installed and configured on the TeamCity server)
- [Microsoft Visual SourceSafe](#) 6 and 2005 (requires a SourceSafe client installed on the TeamCity server, available only on

Windows platforms)

For support for other VCS please check [external plugins](#) available.

Checkout on Agent

The requirements noted are for agent environment and are additional to those for the server listed above.

- Git (git client version 1.6.4+ must be installed on the agent, latest version is recommended)
- Subversion (working copies in the Subversion 1.4-1.8 format are supported)
- Perforce (a Perforce client must be installed on the TeamCity agent machine)
- Team Foundation Server 2005-2015, 2017 are supported.
- Mercurial (the Mercurial "hg" client v1.5.2+ must be installed on the TeamCity agent machine)
- CVS
- IBM Rational ClearCase (the ClearCase client must be installed on the TeamCity agent machine)

Labeling Build Sources

- Git
- Subversion
- Perforce
- Team Foundation Server
- Mercurial
- CVS
- SourceGear Vault
- Borland StarTeam
- ClearCase

Remote Run on Branch

- Git
- Mercurial

Feature Branches

- Git
- Mercurial

VCS Systems Supported via Third Party Plugins

- [AccuRev](#)
- [Bazaar](#)
- [PlasticSCM](#) (related [details](#))

Cloud Agents Integration

- [Amazon EC2](#)
- [VMWare vSphere](#)

Check also other non-bundled and third-party [cloud integration plugins](#).

VCS Hosting Services Integration

- [GitHub / GitHub Enterprise](#)
- [Bitbucket Cloud](#)
- [Visual Studio Team Services](#)

Issue Tracker Integration

- [JetBrains YouTrack](#) 1.0 and later (tested with the latest version).
- [Atlassian Jira](#) 4.4 and later (all major features also reportedly worked for version 4.2).

- [Bugzilla 3.0 and later](#) (tested with Bugzilla 5.0.1).
- [GitHub](#)
- [Bitbucket](#)
- [TFS](#) (Microsoft Visual Studio Team Foundation Server 2010-2018, and Visual Studio Team Services are supported) Additional requirements are listed in [Integrating TeamCity with Issue Tracker](#).

Links to issues of any issue tracker can also be recognized in change comments using [Mapping External Links in Comments](#).

IDE Integration

TeamCity provides productivity plugins for the following IDEs:

- [Eclipse](#): Eclipse versions 3.8 and 4.2-4.6 are supported. Eclipse must be run under JDK 1.5+
- [IntelliJ Platform Plugin](#): compatible with IntelliJ IDEA 15.0.x - 2018.3.x (Ultimate and Community editions); as well as other IDEs based on the same version of the platform, including JetBrains RubyMine 6.3+, JetBrains PyCharm 3.1+, JetBrains PhpStorm/WebStorm 7.1+, AppCode 2.1+. See [more information](#) on compatibility.
- [Microsoft Visual Studio 2010, 2012, 2013, 2015, 2017](#) is supported by the TeamCity Visual Studio Add-in shipped as a part of [ReSharper Ultimate](#). Installed .NET Framework is required.

Remote Run and Pre-tested Commit

Remote Run and Pre-tested commit functionality is available for the following IDEs and version control systems:

IDE	Supported VCS
Eclipse	<ul style="list-style-type: none"> • Subversion 1.7-1.8 via Subclipse and Subversive Eclipse integration plugins or SvnKit. • Subversion 1.4-1.7 via Subclipse and Subversive Eclipse integration plugins. • Perforce (P4WSAD 2009.2 - 2010.1, P4Eclipse 2010.1 - 2015.1) • Git (the EGit 2.0+ Eclipse integration plugin) • CVS • ClearCase (the client software is required) • see also
IntelliJ IDEA Platform *)	<ul style="list-style-type: none"> • Subversion • Perforce • Git (remote run only) • Team Foundation Server (since TeamCity 2017.1; the plugin update is required) • ClearCase
Microsoft Visual Studio	<ul style="list-style-type: none"> • Subversion 1.4-1.9 (the command-line client is required) • Team Foundation Server 2005 and later. Installed Team Explorer is required. • Perforce 2008.2 and later (the command-line client is required)


*) Supported only with the VCS integrations bundled with the IDEs by JetBrains

Code Coverage

IDE	Supported Coverage Tool
Eclipse	IDEA and EMMA code coverage
IntelliJ IDEA Platform	IDEA , EMMA and JaCoCo code coverage
Microsoft Visual Studio	JetBrains dotCover coverage. Requires JetBrains dotCover installed in Microsoft Visual Studio

Supported Databases

See more at [Setting up an External Database](#)

- [HSQLDB 2.3.2](#)  The internal database suits evaluation purposes only; we strongly recommend using an external database in a production environment.
- [MySQL 5.0.33+](#), [5.1.49+](#), [5.5+](#), [5.6+](#), [5.7+](#), [8+](#) (Please note that due to bugs in MySQL, versions 5.0.20, 5.0.22 and 5.1 up to 5.1.48 are not compatible with TeamCity)
- [Microsoft SQL Server 2005, 2008, 2012, 2014, 2016 and newer](#) (including Express editions), [SQL Azure](#); [SSL](#)

connections support might require [these updates](#).

- PostgreSQL 8.2 and newer
- Oracle 10g and newer (TeamCity is tested with [driver](#) version 12.1.0.1)