

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)
 - Oracle Java 6-8, (Java 7, and since TeamCity 9.1 Java 8, is included in the Windows `.exe` distribution). The latest Oracle 1.7 JDK, and since TeamCity 9.1 JDK 1.8, is recommended.
 - OpenJDK 7 is supported, but Oracle JDK is recommended.
 - Both 32-bit and 64-bit Java versions can be used.
- For `.war` distribution:
 - J2EE Servlet (2.5+) container, JSP 2.0+ container based on Apache Jasper. TeamCity is tested under Apache Tomcat 7 which is the recommended server. Tomcat 7 is already included in Windows `.exe` and `.tar.gz` distributions. TeamCity is reported to work with Jetty and Tomcat 6.x-7.x.
 - It is highly recommended to use the `.tar.gz` distribution (which has Tomcat bundled) and not to customize Tomcat settings unless absolutely necessary.
 - If you still want to use the `.war` distribution, note that
 - it is recommended to use Tomcat 6.0.35+; earlier versions of Tomcat have some issues which can cause a deadlock in TeamCity on the start-up.
 - due to [bug](#) in Tomcat 7.0.25 and [another one](#) in Tomcat 7.0.54 these versions cannot be used with TeamCity
 - TeamCity may not work properly if the [Apache Portable Runtime](#) is enabled in Tomcat.

 TeamCity with the native MSSQL external database driver is not compatible with Oracle Java 6 Update 29, due to a [bug](#) in Java itself. You can use earlier or later versions of Oracle Java.

Generally, all the recent versions of Windows, Linux and Mac OS X 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 X
- Windows XP

- Windows 7/7x64
- Windows Server 2008 and (tested with TeamCity 9.1) Windows Server 2016
- Windows 8
- Windows10
under the Tomcat 7 web application server.

Reportedly works without known issues on:

- Windows Server 2008 R2
- Windows Server 2012
- Solaris
- FreeBSD
- IBM z/OS
- HP-UX

Build Agents

The TeamCity Agent is a standalone Java application.

Requirements:

- Java (JRE)
 - Oracle Java 6-8, (Java 7, and since TeamCity 9.1 Java 8, is included in the Windows .exe distribution). The latest Oracle 1.7 JDK, and since TeamCity 9.1 Oracle JDK 1.8, is recommended.
 - OpenJDK 7 is supported, but Oracle JDK is recommended.
 - Both 32-bit and 64-bit Java versions can be [used](#).

TeamCity agent is tested under the following operating systems:

- Linux
- MacOS X
- Windows XP/XP x64/Vista/Vista x64
- Windows 7/7x64
- Windows 8
- Windows10
- Windows Server 2003/2008 and (tested with TeamCity 9.1) Windows Server 2016

Reportedly works on:

- Windows Server 2012
- Windows 2000 (interactive mode only)
- Solaris
- FreeBSD
- IBM z/OS
- HP-UX

Stop Build Functionality

Build stopping is supported on:

- Windows 2000/XP/XP x64/Vista/Vista x64/7/7x64/8/10
- Linux on x86, x64, PPC and PPC64 processors
- Mac OS X on Intel and PPC processors
- Solaris 10 on x86, x64 processors

Windows Tray Notifier

Windows 2000/XP/Vista/Vista x64/7/7x64/8/10 with one of the supported versions of Internet Explorer.

Web Browsers

The TeamCity Web Interface is 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:

- Google Chrome
- Mozilla Firefox 3.6+
- Microsoft Internet Explorer 8+ (without the compatibility mode)
- Opera 9.5+
- Safari 3+ under Mac

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 -1.9 (TeamCity comes bundled with Ant 1.8.4, since TeamCity 9.1 - with Ant 1.9.6.)
- [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 updated to 3.1.1 since TeamCity 9.0.4, 3.2.3 updated to 3.2.5 since TeamCity 9.1.6.
- [IntelliJ IDEA Project](#) runner (requires Java 1.6+)
- [Gradle](#) (requires Gradle 0.9-rc-1 or higher)
- [Java Inspections](#) and [Java Duplicates](#) based on IntelliJ IDEA (requires Java 1.6+)

Supported .Net platform build runners

- [MSBuild](#) (requires .Net Framework or Mono installed on the build agent. Microsoft Build Tools 2013 and since TeamCity 9.1 Microsoft Build Tools 2015 preview 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, 2005, 2008, 2010, 2012, 2013, and since TeamCity 9.1 2015) (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.
- [NuGet](#) runners (supported only for agents running Windows OS. Require NuGet.exe Command Line tool installed on the agents). Supported NuGet versions are 1.4+. Since TeamCity 9.1.6, NuGet versions prior to 2.8.6 require .Net Framework 4.0+ installed on the build agent, NuGet 2.8.6 and later requires .NET 4.5.

Other runners

- [Rake](#)
- [Command Line Runner](#) for running any build process using a shell script
- [PowerShell](#) versions 1.0 through 4.0 are supported. Since TeamCity 9.1 version 5.0 is supported as well.
- [.NET Process Runner](#) for running any .NET application (requires .NET installed on the build agent)
- [Xcode](#) 3, 4, 5, 6 are supported. Since TeamCity 9.1, [Xcode 7.x](#) is 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 (dedicated build runner); since TeamCity 9.1 NUnit 3.0.x is supported.
- [TestNG](#) 5.3+
- [MSTest](#) 8.x, 9.x, 10.x, 11.x, 12.x.; since TeamCity 9.1 MSTest 2015 (14.0) is also supported. The dedicated build runner; requires appropriate Microsoft Visual Studio edition installed on the build agent. Since TeamCity 9.1 the MSTest runner is merged into the [Visual Studio Tests](#) runner.
- [Visual Studio Tests](#) runner, available since TeamCity 9.1, integrates MSTest runner and VSTest console runner formerly provided as an external plugin; requires the appropriate Microsoft Visual Studio edition installed on the build agent.
- [MSpec](#) (requires MSpec installed on the build agent)

Version Control Systems

- [Subversion](#) (server versions 1.4-1.7 and higher as long as the protocol is backward compatible). Check [Subversion 1.8 compatibility with different TeamCity versions](#).
- [Perforce](#) (requires a Perforce client installed on the TeamCity server). Check [compatibility issues](#).
- [Git](#) (requires a Git client installed on the TeamCity server).
- [Mercurial](#) (requires the Mercurial "hg" client v1.5.2+ installed on the server)
- [Team Foundation Server](#) 2005, 2008, 2010, 2012, 2013. Since TeamCity 9.1, TFS 2015 is supported as well. Requires Team Explorer installed on the TeamCity server (which should run under Windows).
- [CVS](#)
- [IBM Rational ClearCase](#), Base and UCM modes (requires the ClearCase client installed and configured on the TeamCity server)

- [SourceGear Vault](#) 6 and 7 (requires the Vault command line client libraries installed on the TeamCity server)
- [Microsoft Visual SourceSafe](#) 6 and 2005 (requires a SourceSafe client installed on the TeamCity server, available only on Windows platforms)
- [Borland StarTeam](#) 6 and up (the StarTeam client application must be installed on the TeamCity server)

Using server-side [checkout mode](#) does not impose any additional requirements for agent environment.

Checkout on Agent

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

- Subversion (working copies in the Subversion 1.4-1.8 format are supported)
- CVS
- Git (git v.1.6.4+ must be installed on the agent)
- Mercurial (the Mercurial "hg" client v1.5.2+ must be installed on the TeamCity agent machine)
- Team Foundation Server 2005, 2008, 2010, 2012, 2013, and since TeamCity 9.1 2015. (requires Team Explorer to be installed on the build agent, available only on Windows platforms)
- Perforce (a Perforce client must be installed on the TeamCity agent machine)
- IBM Rational ClearCase (the ClearCase client must be installed on the TeamCity agent machine)

Labeling Build Sources

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

Remote Run on Branch

- Git
- Mercurial

Feature Branches

- Git
- Mercurial

VCS Systems Supported via Third Party Plugins

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

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).
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 3.6.2-3.8 and 4.2-4.4 are supported. Eclipse must be run under JDK 1.5+

- [IntelliJ Platform Plugin](#): compatible with IntelliJ IDEA 11.1.x - 14.x (Ultimate and Community editions), since TeamCity 9.0.5 -15.0.x, since TeamCity 9.1 - IntelliJ IDEA 2016.2 and later; as well as other IDEs based on the same version of the platform, including JetBrains RubyMine 4.0+, JetBrains PyCharm 2.5+, JetBrains PhpStorm/WebStorm 4.0+, AppCode 1.5+. See [more information](#) on compatibility.
- [Microsoft Visual Studio 2005, 2008, 2010, 2012, 2013](#). Since TeamCity 9.1 Visual Studio 2015 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 1.4-1.7 with Subclipse and Subversive Eclipse integration plugins. • Subversion 1.7-1.8 via Subversive/Subclipse/SvnKit. • Perforce (P4WSAD 2008.1 - 2010.1, P4Eclipse 2010.1 - 2014.1) • ClearCase (the client software is required) • CVS • Git (the EGit 1.0+ Eclipse integration plugin) see also
IntelliJ IDEA Platform	<ul style="list-style-type: none"> • ClearCase • Git (remote run only) • Perforce • StarTeam • Subversion • Visual SourceSafe
Microsoft Visual Studio	<ul style="list-style-type: none"> • Subversion 1.4-1.8. Since TeamCity 9.1.5, Subversion 1.9 is supported (by the Addin in the ReSharper Ultimate 10.0.2.). 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)

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 1.8/2.x (internal, used by default)  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+ (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 and 2016 (tested with TeamCity 9.1). Express editions are also supported. 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)