

Bundled Development Package

TeamCity comes bundled with a Development Package that can be used to start developing TeamCity plugins.

To get the package use `.tar.gz` or `.exe` distribution.

Upon installation, `<TeamCity Home Directory>` will have a `devPackage` directory which contains TeamCity open API binaries, javadoc, sources and archive with a sample plugin.

devPackage directory description

There are mainly two types of plugins in TeamCity: server-side plugin and agent-side plugin.

To develop agent-side plugin you need the following part of Open API:

- `common-api.jar`
- `agent-api.jar`

Correspondingly for the server-side plugin, you need:

- `common-api.jar`
- `server-api.jar`

Note that sometimes a part of agent side plugin has to work in the same JVM where the build tool is executing. For example, some custom test runner can be executed in the JVM where the tests are running. `runtime` directory of `devPackage` contains some jars that can be used in this case.

`devPackage` also contains some base classes for tests under the `tests` directory.

Sample Plugin

Building and deploying sample plugin

Building plugin with Apache Ant

- Unpack `<TeamCity Home Directory>\devPackage\samplePlugin-src.zip` into a directory of your choice
- Edit `build.properties` file and set value for `path.variable.teamcitydistribution` property to path of `<TeamCity Home Directory>`
- Run `ant dist` in the plugin directory (Ant 1.7+ is recommended). The plugin distribution should be created in `dist` directory.

Building sample plugin in IntelliJ IDEA

- Unpack `<TeamCity Home Directory>\devPackage\samplePlugin-src.zip` into a directory of your choice
- Open the project in IDEA (the `.ipr` file should work OK in IntelliJ IDEA 8.1.4 and later (including IntelliJ IDEA 9.0 Community Edition))
- On prompt to add path variable, set "TeamCityDistribution" path variable to the directory where TeamCity with `devPackage` is installed (`<TeamCity Home Directory>`).
- Open Project Structure and ensure you have Project SDK with name "1.5" pointing to Sun JDK version 1.5

Running the server with plugin from IDEA

- Either edit `build.properties` file to set `path.variable.teamcitydistribution` property or regenerate the build script from IDEA (execute "Generate Ant Build" with settings: single file, all other options unchecked).

If you use Ultimate edition of IntelliJ IDEA, you can start TeamCity's Tomcat right from the IDE:

- Go to "server" run configuration settings and configure Application Server pointing it to `<TeamCity Home Directory>`
- Run "server" run configuration. It will run Ant create distribution task, deploy the plugin into `${user.home}/.BuildServer` directory and run TeamCity server.

If you use Community edition, see [#Building plugin with Apache Ant](#) - you can run "deploy" Ant build target right from Ant Build IDEA tool window and then start TeamCity manually.

Sample Plugin Functionality

The sample plugin adds "Click me!" button in the bottom of "Projects" page. Click it to navigate to the plugin description page.