Run/Debug Configuration: Maven

This run/debug configuration is used to launch the Maven projects. The dialog box contains the following tabs:

- Parameters tab
- General tab
- Runner tab

This section provides descriptions of the configuration-specific items, as well as the toolbar and options that are common for all run/debug configurations.

Item	Description
Name	In this text box, specify the name of the current run/debug configuration.

Parameters tab

Item	Description
Working directory	Specify the path to the Maven project file `pom.xml`.
Command line	Specify the Maven goals and options separated with space.
Profiles	Specify the profiles to be used separated with space.
Resolve Workspace Artifacts	We recommend that you use this check box if you have dependent modules in your project. By default, this check box is not selected. In this case, classes of dependent modules are searched in .jar files in a Maven local repository. If you select this check box, the classes of the dependent modules will be searched in the module compilation output. In this case, each time you make changes to the dependent module, you don't need to deploy them into a local repository.

General

Item	Description
Work offline	If this option is checked, Maven works in offline mode and uses only those resources that are available locally. This option corresponds to the `--offline` command line option.
Use plugin registry	Check this option to enable referring to the Maven Plugin Registry. This option corresponds to the `--no-plugin-registry` command line option.
Execute goals recursively	If this option is cleared, the build does not recur into the nested projects. Clearing this option equals to `--non-recursive` command line option.

Item	Description
Print exception stack traces	If this option is checked, exception stack traces are generated. This option corresponds to the `--errors` command line option.
Output level	Select the desired level of the output log, which allows plugins to create messages at levels of *debug*, *info*, *warn*, and *error*, or disable output log.
Checksum policy	Select the desired level of checksum matching while downloading artifacts. You can opt to fails downloading, when checksums do not match (`--strict-checksums`), or issue a warning (`--lax-checksums`).
Multiproject build fail policy	Specify how to treat a failure in a multiproject build. You can choose to: ■ Fail the build at the very first failure, which corresponds to the command line option `--fail-fast`. ■ Fail the build at the end, which corresponds to the command line option `--fail-at-end`. ■ Ignore failures, which corresponds to the command line option `--fail-never`.
Snapshot update policy	Specify whether the snapshot dependencies should be updated.
Plugin update policy	Select plugin update policy from the drop-down list. You can opt to: ■ Check for updates, which corresponds to the command line option `--check-plugin-updates`. ■ Suppress checking for updates, which corresponds to the command line option `--no-plugin-updates`.
Maven home directory	By default, this field shows the fully qualified name of the Maven installation directory. If you need to specify another directory, check the **Override** option, click the ellipsis button and select the desired path in the **Select Maven Installation Directory** dialog.
User settings file	Specify the file that contains user-specific configuration for Maven in the text field. If you need to specify another file, check the **Override** option, click the ellipsis button and select the desired file in the **Select Maven Settings File** dialog.
Local repository	By default, the field shows the path to the local directory under the user home that stores the downloads and contains the temporary build artifacts that you have not yet released. If you need to specify another directory, check the **Override** option, click the ellipsis button and select the desired path in the **Select Maven Local Repository** dialog.

Runner tab

Item	Description

Item	Description
VM Options	Specify the string passed to the VM for launching the Maven project. When specifying the options, follow these rules: ■ Use spaces to separate individual options, for example, `-client -ea -Xmx1024m`. ■ If an option includes spaces, enclose the spaces or the argument that contains the spaces in double quotes, for example, `some" "arg` or `"some arg"`. ■ If an option includes double quotes (e.g. as part of the argument), escape the double quotes by means of the backslashes, for example, `-Dmy.prop=\"quoted_value\"`.
JRE	Select JRE from the drop-down list.
Skip tests	If this option is checked, the tests will be skipped when running or debugging the Maven project.
Properties	Specify the properties and their values to be passed to Maven.

Logs tab

Use this tab to specify which log files generated while running or debugging should be displayed in the console, that is, on the dedicated tabs of the Run or Debug tool window.

Item	Description
Is Active	Select check boxes in this column to have the log entries displayed in the corresponding tabs in the Run tool window or Debug tool window.
Log File Entry	The read-only fields in this column list the log files to show. The list can contain: ■ Full paths to specific files. ■ Ant patterns ⊡ that define the range of files to be displayed. ■ Aliases to substitute for full paths or patterns. These aliases are also displayed in the headers of the tabs where the corresponding log files are shown. > If a log entry pattern defines more than one file, the tab header shows the name of the file instead of the log entry alias.
Skip Content	Select this check box to have the previous content of the selected log skipped.
Save console output to file	Select this check box to save the console output to the specified location. Type the path manually, or click the browse button and point to the desired location in the dialog that opens.
Show console when standard out changes	Select this check box to activate output console and bring it forward, if associated process writes to Standard.out.

Item	Description
Show console when standard error changes	Select this check box to activate output console and bring it forward, if associated process writes to Standard.err.
✚	Click this button to open the Edit Log Files Aliases dialog where you can select a new log entry and specify an alias for it.
✏	Click this button to edit the properties of the selected log file entry in the Edit Log Files Aliases dialog.
━	Click this button to remove the selected log entry from the list.
⋯	Click this button to edit the select log file entry. The button is available only when an entry is selected.

Toolbar

Item	Shortcut	Description
✚	`Alt+Insert`	Click this button to add new configuration to the list.
━	`Alt+Delete`	Click this button to remove the selected configuration from the list.
🗐	`Ctrl+D`	Click this button to create a copy of the selected configuration.
🔧	Edit defaults	Click this button to edit the default configuration templates. The defaults are used for the newly created configurations.
⬆ or ⬇	`Alt+Up` or `Alt+Down`	Use these buttons to move the selected configuration or group of configurations (folder) up and down in the list. The order of configurations or folders in the list defines the order, in which configurations appear in the **Run/Debug** drop-down list on the main toolbar.
📁		Use this button to create a new folder. If one or more run/debug configurations have the focus, then the selected run/debug configurations are automatically moved to the newly created folder. If only a category has the focus, then an empty folder is created. Move run/debug configurations to a folder using drag-and-drop, or ⬆ ⬇ buttons.

Common options

Item	Description
Name	In this text box, specify the name of the current run/debug configuration. This field does not appear for the default run/debug configurations.

Item	Description
Defaults	This node in the left-hand pane of the dialog box contains the default run/debug configuration settings. Select the desired configuration to change its default settings in the right-hand pane. The defaults are applied to all newly created run/debug configurations.
Share	Select this check box to make the run/debug configuration available to other team members. If the directory-based project format is used, the settings for a run/debug configuration are stored in a separate xml file in the `.idea\runConfigurations` folder if the run/debug configuration is shared and in the `.idea\workspace.xml` file otherwise. If the file-based format is used, the settings are stored in the `.ipr` file for shared configurations or in the `.iws` file for the ones that are not shared. This check box is not available when editing the run/debug configuration defaults.

Item	Description
Before launch	Specify which tasks should be carried out before starting the run/debug configuration. The specified tasks are performed in the order that they appear in the list.

Item	Keyboard shortcut	Description

Item	Item	Keyboard shortcut	Description Description
	+	`Alt+Insert`	Click this icon to add a task to the list. Select the task to be added: ■ **Run External tool.** Select this option to run an application which is external to IntelliJ IDEA. In the dialog that opens, select the application or applications that should be run. If the necessary application is not defined in IntelliJ IDEA yet, add its definition. For more information, see Configuring Third-Party Tools and External Tools. ■ **Make.** Select this option to have the project or module compiled. The Make Module command will be carried out if a particular module is specified in the run/debug configuration, and the Make Project command otherwise. If an error occurs during the compilation, IntelliJ IDEA won't attempt to start the run/debug configuration. ■ **Make, no error check.** The same as the **Make** option but IntelliJ IDEA will try to start the run/debug configuration irrespective of the compilation result. ■ **Build Artifacts.** Select this option to have an artifact or artifacts built. In the dialog that opens, select the artifact or artifacts that should be built. See also, Configuring Artifacts. ■ **Run Ant target.** Select this option to have an Ant target run. In the dialog that opens, select the target to be run. For more information, see Ant. ■ **Generate CoffeeScript Source Maps.** Select this option to have the source maps for your CoffeeScript sources generated. In the dialog that opens, specify where your CoffeeScript source files are located. For more information, see CoffeeScript Support. ■ **Run Maven Goal.** Select this option to have a Maven goal run. In the dialog that opens, select the goal to be run. For more information, see Maven. ■ **Run Remote External tool**: Add a remote SSH external tool. Refer to the section Remote SSH External Tools for details.
	+	`Alt+Insert`	

Item	Item	Keyboard shortcut	Description	Description
	─	Alt+Delete	Click this icon to remove the selected task from the list.	
	🖉	Enter	Click this icon to edit the selected task. Make the necessary changes in the dialog that opens.	
	⬆	Alt+Up	Click this icon to move the selected task one line up in the list.	
	⬇	Alt+Down	Click this icon to move the selected task one line down in the list.	
	Show this page		Select this check box to have the run/debug configuration settings shown prior to actually starting the run/debug configuration.	

See Also

Concepts:

- Maven

Procedures:

- Creating Maven Run/Debug Configuration

Reference:

- Maven Projects Tool Window
- Maven

External Links:

- Repository Managers 🗗

Web Resources:

- Developer Community 🗗