Run/Debug Configuration: Resin

Use this dialog to create or edit run/debug configurations for Resin ⊡ .

- Name field and Share option

- Server tab

- Deployment tab

- Logs tab

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- Startup/Connection tab

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- Toolbar

Name field and Share option

Item	Description
Name	Use this field to edit the name of the run/debug configuration. This field is not available when editing the run/debug configuration defaults.
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.

Server tab

Item	Local/Remote	Description
Application server	Both	Select the server configuration to be used. If the run/debug configuration is intended for working with a remote server, the same server version should be configured locally and associated with the run/debug configuration. Click **Configure** to create a new server configuration or edit an existing one. (The Application Servers dialog will open.)
Start browser	Both	Select this check box to run the default Web browser to study your application output there.

Item	Local/Remote	Description
With JavaScript debugger	Both	If this check box is selected, the Web browser is started with the JavaScript debugger enabled. JavaScript debugging is available only for Firefox and Google Chrome. Note that when you debug your JavaScript in Firefox for the first time, the JetBrains Firefox extension will be installed.
Startup page	Both	In this field, specify the URL the browser should go to when started. In most typical cases, this URL will correspond to the root of your Web application or its starting page.
VM options	Local	If necessary, specify the command-line options to be passed to the server JVM at the server start. If you need more room to type, click next to the field to open the **VM Options** dialog where the text entry area is larger. 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\"`.

Item	Local/Remote	Description
On 'Update' action	Both	Select the necessary option for the Update application action. The update options are different for exploded and packed artifacts. For exploded artifacts, the available options are: - **Update resources.** All changed resources (that is, all application components other than the classes) will be updated. - **Update classes and resources.** All changed resources will be updated; changed classes will be recompiled. In the debug mode, the updated classes will be hot-swapped. In the run mode, IntelliJ IDEA will just update the changed classes in the output folder. Whether such classes will actually be reloaded in the running application, depends on the capabilities of the runtime being used. - **Redeploy.** The application will be updated and redeployed. - **Restart server.** The server will be restarted. The updated version of the application will be deployed at the server startup. For packed artifacts, the available options are: - **Hot swap classes.** Changed classes will be recompiled and reloaded at runtime. Note that this option will work only in the debug mode. - **Redeploy.** The overall application will be rebuilt and redeployed. - **Restart server.** The server will be restarted. The application will be rebuilt and deployed at the server startup. In the run/debug configurations for remote servers, the available application update options are limited to those for packed artifacts. Also, the **Restart server** option is not available.
Show dialog	Both	Select this check box if you want to see the **Update <application name>** dialog every time you perform the Update application action. The **Update <application name>** dialog is used to view and change the current update option prior to actually updating the application.

Item	Local/Remote	Description
On frame deactivation	Both	Specify which application update actions should be performed when switching from IntelliJ IDEA to a different application (for example, a Web browser). (*Frame deactivation* means *switching to a different application.*) If no update actions are required, select **Do nothing**. Otherwise, select the necessary update option. Note that the **Redeploy** an the **Restart server** options are not available.
Resin configuration template	Local	Specify the location of the Resin configuration template. You can click ⋯ and select the necessary file in the dialog that opens.
Additional Resin command line	Local	If necessary, specify additional commands for the server. If you need more room to type, click 📇 next to the field to open the **Additional Resin command line** dialog where the text entry area is larger.
Do not alter Resin configuration	Local	Select this check box to suppress editing the Resin configuration file.
Charset	Both	Specify the character set to be used.
JMX port	Both	Specify the JMX server port.
Ping	Remote	Click this button to ping the JMX port on the server.
Deploy mode	Local	Select the deploy-mode (startup-mode) for applications on the server.
HTTP port	Local	The server HTTP port.
Remote staging	Remote	This section contains the settings related to staging. An example of remote staging settings for a mounted folder is provided after this table.

Item	Local/Remote	Description
Type	Remote	Select the way the staging environment or host is accessed for transferring the application artifact or artifacts from your local computer. (In the user interface of IntelliJ IDEA this setting is also referred to as the *connection type*.) The available options are: - **Same file system.** Select this option if the target server is installed on your local computer. The artifacts in this case are deployed locally and, thus, don't need to be transferred to a remote host. - **ftp.** The File Transfer Protocol⧉ or Secure FTP⧉ is used. - **Local or mounted folder.** The staging environment is a local folder or is accessed as a mounted folder⧉. If the list is empty, you have to enable the Remote Hosts Access plugin which supports the corresponding functionality.
Host	Remote	If **Same file system** is selected for **Type**, the only available option for **Host** is also **Same file system**. In all other cases, the list contains the existing configurations of the selected type. So each configuration corresponds to an individual (S)FTP connection, or a local or mounted folder. Select an existing configuration or create a new one. To create a new configuration: 1. Click ⋯ to the right of the list. 2. In the Deployment dialog, click ╋. 3. In the **Add Server** dialog, specify the configuration name, select the type, and click **OK**. 4. On the Connection tab, specify the settings in the **Upload/download project files** section. Note that the rest of the settings don't matter in the context of a remote Resin run/debug configuration. 5. Click **OK** in the **Deployment** dialog.
Path from root	Remote	The path to the staging folder relative to the local or mounted folder, or the root of the (S)FTP host. You can use ⋯ to select the folder in the **Choose target path** dialog. Note that if **Same file system** is selected for **Type** and **Host**, this setting doesn't need to be specified.
Remote connection settings	Remote	The settings for accessing deployed applications.

Item	Local/Remote	Description
Host	Remote	The fully qualified domain name or the IP address of the Resin host.
Port	Remote	The HTTP port of Resin.

An example of remote staging settings for a mounted folder

Assuming that:

- `C:\shared` is a shared folder on the remote host which is mounted to the local computer as the drive `X:`.

- The folder that you are going to use for staging is `C:\shared\staging`.

Here are the corresponding remote staging settings:

- **Type:** Local or mounted folder.

- **Host:** The configuration should be selected in which the value in the **Folder** field is `X:\` (the **Upload/download project files** section on the **Connection** tab of the **Deployment** dialog).

- **Path from root:** `staging`

Deployment tab

Use this tab to specify which artifacts and/or external resources should be deployed onto the server. (An external resource means a deployable Web component such as a `.war` file which is not represented by a project artifact. Usually, such components are stored outside of the project scope.)

To add items to the deployment list (shown under **Deploy at the server startup**), use ┿. To edit the settings for an artifact or external resource, select the corresponding item in the list and use the controls in the right-hand part of the tab. For more information, see the table below.

Item	Tooltip and Shortcut	Description
┿	Add `Alt+Insert`	Use this icon or shortcut to add an artifact or an external resource to the list. - To add an artifact, select **Artifact** and choose the desired artifact in the dialog that opens. - To add an external resource, select **External Source** and choose the location of the desired resource in the dialog that opens.
━	Remove `Alt+Delete`	Use this icon or shortcut to remove the selected artifacts and external resources from the list.
🖉	Edit Artifact `F4`	Use this icon or shortcut to configure the selected artifact. (The Artifacts page of the Project Structure dialog will open.)
Deployment method		For local servers: select the deployment method for the selected artifact or external resource (**JMX** or **resin.xml**).

Item	Tooltip and Shortcut	Description
Resin host name		For local servers: specify the name or the IP address of the Resin host (for example, `localhost` or `127.0.0.1`).
Use default context name		For local servers: select this check box if you want to use the default context root ⬀ for the selected artifact or external resource. Otherwise, clear this check box and specify the context root in the **Application context name** field. Note that if the deployment method is JMX, the default context root is always used.
Application context name		For local servers: specify the context root for the selected artifact or external resource.

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.
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.

Item	Description
+	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.
(pencil icon)	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.

Code Coverage tab

Use this tab to configure code coverage monitoring options.

Note that this tab is not available for remote servers.

Item	Description
Choose code coverage runner	Select the desired code coverage runner.
Sampling	Select this option to measure code coverage with minimal slow-down.
Tracing	Select this option to collect accurate branch coverage. This mode is available for the IntelliJ IDEA code coverage runner only.
Track per test coverage	Select this check box to detect lines covered by one test and all tests covering line.
Packages and classes to record code coverage data	If necessary, specify the classes and packages to be measured. Use (icon) or (icon) to add classes or packages to the list. To remove the classes or packages from the list, select the corresponding list items and click −.
Enable coverage in test folders.	Select this check box to include the test source folders in code coverage analysis.

Startup/Connection tab

Item	Local/Remote	Description
Run Debug	Remote	Select **Run** or **Debug** to show settings either for the run or the debug mode.

Item	Local/Remote	Description
▶ Run with Coverage	Local	Select **Run with Coverage** to show settings for run with coverage mode.
Transport	Remote	Specify the "transport" settings for the connection with the debugger. In technical terms, these are the parameters for the `-Xrunjdwp` command-line option: ■ **Socket.** Specify the debugger port in the **Port** field. The combination of these two settings translates into `-Xrunjdwp:transport=dt_socket,address=<port>,suspend=n,server=y` ■ **Shared memory.** Specify the shared memory address in the corresponding field. The combination of these two settings translates into `-Xrunjdwp:transport=dt_shmem,address=<address>,suspend=n,server=y` Note that as you change the transport settings, what follows `transport=` within `-Xrunjdwp` in the area above also changes. In this way you control the corresponding command-line debugger parameters which you cannot edit directly.

Before Launch options

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	Shortcut	Description

Item	Shortcut	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 Another Configuration.** Select this option to have another run/debug configuration executed. In the dialog that opens, select the configuration to be run. ▪ **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**. Select this option to run a remote application which is external to IntelliJ IDEA. In the dialog that opens, select one or more remote applications to be run. If the necessary applications are not defined in IntelliJ IDEA yet, add definitions. For more information, see Configuring Third-Party Tools and External Tools.
➖	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.

Item	Shortcut	Description
⬆ ⬇	Alt+Up/Alt+Down	Click these icons to move the selected task one line up or 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.

Toolbar

Item	Shortcut	Description
➕	Alt+Insert	Use this icon or shortcut to create a new run/debug configuration.
➖	Alt+Delete	Use this icon or shortcut to delete the selected run/debug configuration.
🗐	Ctrl+D	Use this icon or shortcut to create a copy of the selected run/debug configuration.
🛠		Click this button to edit the default settings of the selected run/debug configuration. This button it disabled for defaults.
⬆ ⬇	Alt+Up/Alt+Down	Use these buttons to move the selected run/debug configuration up and down in the list. The order of configurations in the list defines the order in which the configurations appear in the corresponding list on the main toolbar. These buttons are disabled for defaults.
🗀		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.

See Also

Procedures:

- Working with Server Run/Debug Configurations

Reference:

- Application Servers

Web Resources:

- Developer Community 🔗