

Run/Debug Configuration: Android Application

Use this dialog box to configure running and debugging of *Android* applications and activities on actual and virtual devices.

Click [here](#) for the description of the common options.

The dialog box consists of three tabs:

- [General](#)
- [Emulator](#)
- [Logcat](#)

General tab

Item	Description
Module	From this drop-down list, select the module to apply the configuration to.
Package	<p>In this area, appoint the .apk file to deploy to the target virtual or physical device.</p> <ul style="list-style-type: none">■ Deploy default APK: choose this option to have IntelliJ IDEA upload the .apk built from the module specified in the Module drop-down list aboveLaunchActivity The .apk is built automatically, no preliminary artifact configuration is required from your side.■ Deploy custom artifact: choose this option to have IntelliJ IDEA upload the .apk built from the code and resources appointed in a manually configured artifact. Choose the artifact to use in the drop-down list which shows all the manually created artifact definitions for the selected module. See Configuring Artifacts for details.■ Do not deploy anything: choose this option to suppress uploading data to the device. This approach may be helpful if you have already deployed your application manually outside IntelliJ IDEA.
Activity	<p>In this area, appoint the activity to launch on the application start.</p> <ul style="list-style-type: none">■ Do not launch activity: choose this option to connect to an already running application provided that you have chosen Do not deploy anything in the Packages area. Executing a run configuration with these settings is equal to clicking the Attach debugger to Android process button  on the toolbar, see Debugging a Running Application.■ Launch default activity: choose this option to have IntelliJ IDEA automatically launch the activity marked as start-up.■ Launch: choose this option to have IntelliJ IDEA launch an activity of your choice upon the application start. This option may be helpful when you want to run or debug a part of your application and have already chosen the Deploy custom artifact option in the Packages area. Type the activity name manually or click the Browse button  and select the desired activity in the Select Activity Class dialog box, that opens. The list of available activities is determined by the choice of the module.

Item	Description
Target Device	<p>In this area, choose the type of device to run/debug the application on. The available options are:</p> <ul style="list-style-type: none"> ■ Show chooser dialog: choose this option have IntelliJ IDEA display the Choose Device dialog box when the application is already started. To have IntelliJ IDEA afterwards automatically use the device chosen through the Choose Device dialog box, select the Use same device for future launches check box. ■ USB device: choose this option to have IntelliJ IDEA detect a plugged in USB device upon the application start. ■ Emulator: choose this option to use one of the configured emulators and choose the relevant configuration in the Prefer Android Virtual Device drop-down list. <div style="border: 1px solid gray; padding: 5px; margin-top: 10px;"> <p>Selecting the Show chooser dialog or USB device option may be helpful if you are going to run the application on a physical device which will be plugged in later and therefore the set of available devices cannot be foreseen.</p> </div>
Prefer Android Virtual Device	<p>From this drop-down box, select the virtual device configuration to run or debug the specified activity. Click the Browse button  to open the Select Android Virtual Device dialog box, where you can appoint a device to launch upon the future session start-up with the current configuration.</p> <p>The drop-down list is available only if the Emulator check box is cleared.</p>

Emulator tab

In this tab, specify additional configuration settings for launching the Android emulator.

Item	Description
Network Speed	From this drop-down list, select the network transfer rate  to be simulated.
Network Latency	Use this drop-down list to specify the time delay between the initial input and the output.
Wipe user data	Select this check box to have the contents of the user-data image copied to the new user-data disk image while resetting the image. By default, the <code><system>/userdata.img</code> is copied.
Disable boot animation	Select this check box if you do not want an animated boot screen displayed upon the emulator start-up.
Additional command line options	In this text box, type the additional options to be passed to the emulator via the command line. For lengthy command lines, click the  button and type the text in the Additional Command Line Options dialog box, that opens.

Logcat tab

Item	Description
Clear log before launch	Select this check box to have the data from previous sessions removed from the log file before starting the application.
Show logcat automatically	<ul style="list-style-type: none">■ When this check box is selected, the Logcat tab is activated automatically every time an application is deployed and launched successfully.■ When the check box is cleared, the focus does not move to the Logcat tab automatically upon application start and you have to switch to the tab manually.

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.
	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	<p>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.</p>
Share	<p>Select this check box to make the run/debug configuration available to other team members.</p> <p>If the directory-based project format is used, the settings for a run/debug configuration are stored in a separate xml file in the <code>.idea\runConfigurations</code> folder if the run/debug configuration is shared and in the <code>.idea\workspace.xml</code> file otherwise.</p> <p>If the file-based format is used, the settings are stored in the <code>.ipr</code> file for shared configurations or in the <code>.iws</code> file for the ones that are not shared.</p> <p>This check box is not available when editing the run/debug configuration defaults.</p>

Item	Description			
Before launch	<p data-bbox="440 165 1370 264">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.</p> <table border="1" data-bbox="440 286 1398 392"><thead><tr><th data-bbox="440 286 544 392">Item</th><th data-bbox="544 286 715 392">Keyboard shortcut</th><th data-bbox="715 286 1398 392">Description</th></tr></thead><tbody></tbody></table>	Item	Keyboard shortcut	Description
Item	Keyboard shortcut	Description		

Item	Item	Keyboard shortcut	Description Description
	+	Alt+Insert	<p>Click this icon to add a task to the list. Select the task to be added:</p> <ul style="list-style-type: none"> ■ 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: Add a remote SSH external tool. Refer to the section Remote SSH External Tools for details.

Item	Item	Keyboard shortcut	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:

- [Run/Debug Configuration](#)

Procedures:

- [Creating an Android Run/Debug Configuration](#)
- [Creating and Editing an Android Run/Debug Configuration](#)
- [Running](#)
- [Debugging](#)

Reference:

- [Run/Debug Configuration: Android Test](#)

Web Resources:

- [Developer Community](#)