Software Locations and Environment Variables

Overview

The following will explain where all the software is located on a typical Titanium system and how to configure the associated environment variables for each Operating System.

Configuration

macOS Software Locations

The paths shown are the locations on our running systems. As these configurations are tried and tested with Titanium, try to keep yours as similar as possible to this.

Package	Environment Variable	Local Path	Notes
Android SDK Home	ANDROID_SDK	`~/android-sdk`	Location of `android` (Android SDK Manager) and `ddms` (debug tool) executables
Android Tools	PATH	`~/android-sdk/tools`	Location of `android` (Android SDK Manager) and `ddms` (debug tool) executables
Android Platform Tools	PATH	`~/android-sdk/platform-tools`	Location of `adb` (Android Debug Bridge) executable
git	N/A	`/usr/bin`	Location of git executable
npm	N/A	`/usr/local/bin`	Location of npm executable
Oracle JDK	N/A	`/usr/bin`	Location of Java executables, `java` and `javac` (automatically symlinked)
python	N/A	`/usr/bin`	Location of python executable
Titanium SDK Home	N/A	`~/Library/Application Support/Titanium`	Location of Mobile and Desktop SDKs (containing `mobilesdk`, `modules`, `runtime` & `sdk`directories), automatically managed by Appcelerator Studio
Appcelerator Studio	N/A	`/Applications/Appcelerator Studio`	Location of Appcelerator Studio
Appcelerator Studio Settings	N/A	`~/.eclipse`	
Appcelerator Studio Workspace	N/A	`~/Documents/Appcelerator_Studio_Workspace`	Location of Titanium projects

Windows

Windows Software Locations

The paths shown are the locations on our running systems. As these configurations are tried and tested with Titanium, try to keep yours as similar as possible to this.

> ⚠ Paths to these tools and project files should not contain spaces or special characters, such as dollar signs, ampersands, etc. Some of the development tools do not support having spaces in the path, such as scons if you want to build the Titanium SDK from source.

Package	Environment Variable	Local Path	Notes
Android SDK Home	N/A	`C:\android-sdk`	Location of `android` (Android SDK Manager) and `ddms` (debug tool) executables
Android Tools	PATH	`C:\android-sdk\tools`	Location of `android` (Android SDK Manager) and `ddms` (debug tool) executables
Android Platform Tools	PATH	`C:\android-sdk\platform-tools`	Location of `adb` (Android Debug Bridge) executable
git	PATH	`%PROGRAMFILES%\Git\bin`	Location of git executable (default installation path by Studio)
npm	PATH	`%PROGRAMFILES%\nodejs`	Location of npm executable (default installation path by Studio)
Oracle JDK (Binaries)	PATH	`%PROGRAMFILES%\Java\jdk<version>\bin`	Location of Java executables, `java` and `javac` (default installation path by Studio)
Oracle JDK (Home)	JAVA_HOME	`%PROGRAMFILES%\Java\jdk<version>`	Location of the JDK (default installation path by Studio)
python	PATH	`C:\Python27`	Location of python executable
Titanium SDK Home	N/A	`%PROGRAMDATA%\Titanium`	Location of Mobile and Desktop SDKs (containing `mobilesdk`, `modules`, `runtime` & `sdk` directories), automatically managed by Appcelerator Studio
Appcelerator Studio	N/A	`%USERPROFILE%\Roaming\Appcelerator\Appcelerator Studio`	Location of Appcelerator Studio
Appcelerator Studio Settings	N/A	`%USERPROFILE%\.eclipse`	
Appcelerator Studio Workspace	N/A	`%USERPROFILE%\Documents\Appcelerator_Studio_Workspace`	Location of Titanium projects

Be aware of the following environment variables that exist by default on Windows 7 systems, which can be used when configuring the environment variables above:

Environment Variable	Value	Notes
`%SystemRoot%`		C:\Windows
`%PROGRAMFILES%`	`C:\Program Files (x86)`	Windows 64-bit systems
`%PROGRAMFILES%`	`C:\Program Files`	Windows 32-bit systems
`%PROGRAMDATA%`	`C:\ProgramData`	
`%USERPROFILE%`		Path to the current user profile

⚠ Bear in mind the following caveats:

- All Windows systems must have the following paths **at the beginning** of their PATH environment variable to function properly:
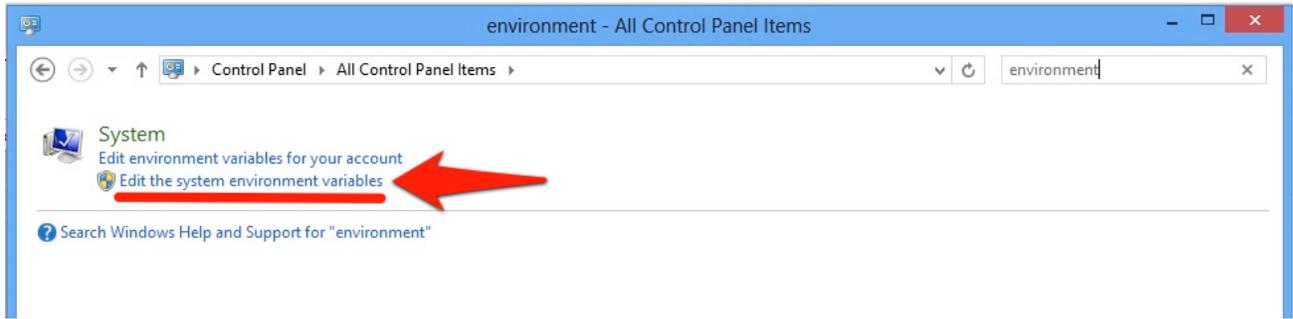
  ```
  %SystemRoot%\system32;%SystemRoot%;%SystemRoot%\System32\Wbem;
  ```

- Installing Appcelerator Studio to a common system location, such as `%PROGRAMFILES%`, is not currently recommended, due to Eclipse Bug 249133 and the complications it causes with updates.
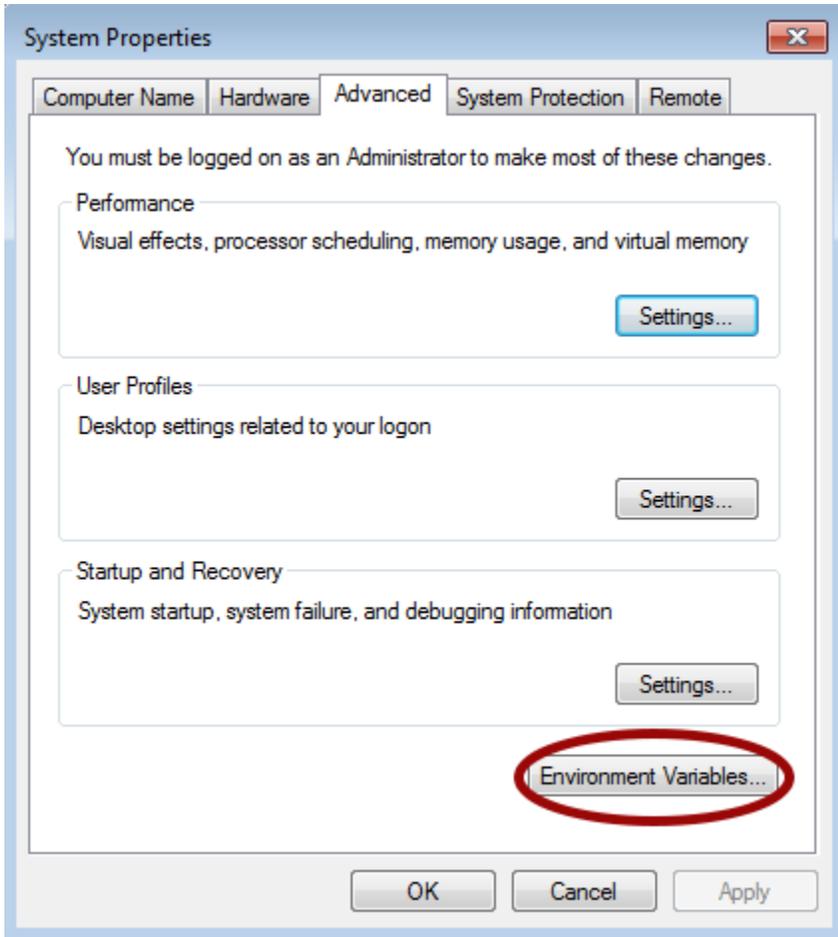
Configuring Environment Variables on Windows

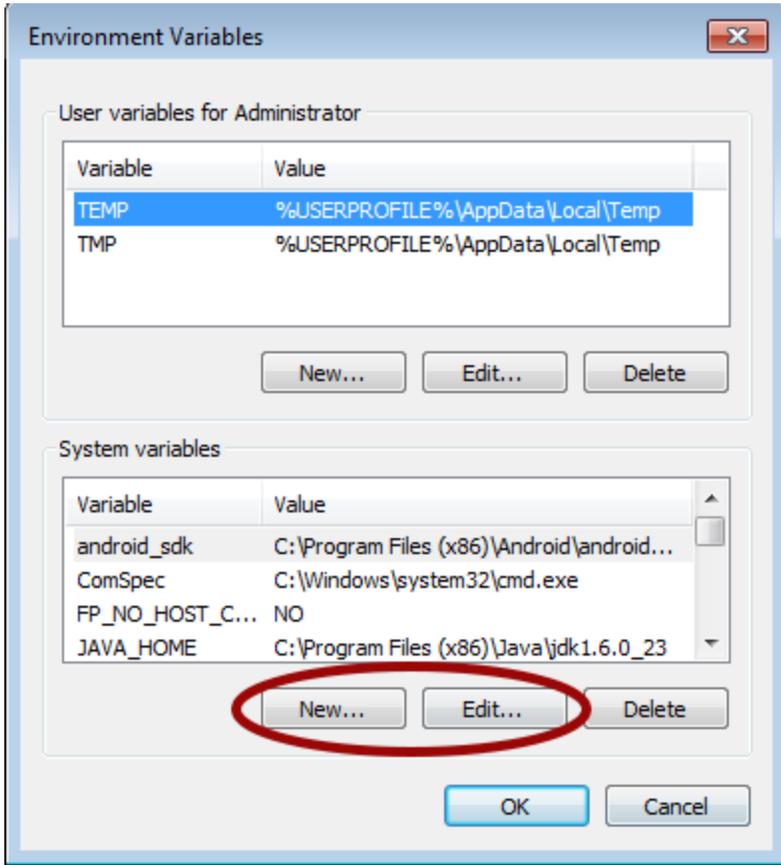Configure system variables using the Control Panel

- Open the Windows Control Panel and search for 'environment'.
- Click **Edit the system environment variables**. The *System Properties* dialog appears displaying the **Advanced** tab.

- Click the **Environment Variables** button.

- Use the **New** or **Edit** buttons at the bottom of the dialog to add or change system variables.

Ubuntu Software Locations

Below is a summary of where Titanium-related components are typically stored and the system variables that should be configured.

> ⚠ The paths shown are the locations on our running systems. As these configurations are tried and tested with Titanium, try to keep yours as similar as possible to this.

Package	Environment Variable	Local Path	Notes
Android SDK Home	ANDROID_SDK	`/opt/android-sdk-linux_86`	Location of `android` (Android SDK Manager) and `ddms` (debug tool) executables
Android Tools	PATH	`/opt/android-sdk-linux_86/tools`	Location of `android` (Android SDK Manager) and `ddms` (debug tool) executables
Android Platform Tools	PATH	`/opt/android-sdk-linux_86/platform-tools`	Location of `adb` (Android Debug Bridge) executable
git	N/A	`/usr/bin`	Location of git executable
npm	N/A	`/usr/local/bin`	Location of npm executable
Oracle JDK	N/A	`/usr/bin`	Location of Java executables, `java` and `javac` (symlinked using `update-alternatives`)
python	N/A	`/usr/bin`	Location of python executable (automatically symlinked)
Appcelerator Studio	N/A	`~/Titanium_Studio`	Location of Appcelerator Studio
Titanium SDK Home	N/A	`~/.titanium`	Location of Mobile and Desktop SDKs (containing `mobilesdk`, `modules`, `runtime` & `sdk` directories), automatically managed by Appcelerator Studio

Appcelerator Studio Settings	N/A	`~/.eclipse`	
Appcelerator Studio Workspace	N/A	`~/Documents/Appcelerator_Studio_Workspace`	Location of Titanium projects