



# Desired Capabilities Required for Selenium and Appium Tests






These are the desired capabilities that you must include in your Appium and Selenium test scripts to configure the basic testing environment. You can also use the [Platform Configurator](#) to set the desired capabilities for your test in the scripting language of your choice. [Test Configuration Options](#) includes a complete list of all the Selenium, Appium, and Sauce Labs testing options.

- [Required Selenium Test Configuration Settings](#)
  - [Browser Name](#)
  - [Browser Version](#)
  - [Platform](#)
- [Required Appium Test Configuration Settings](#)
  - [Browser Name](#)
  - [Device Name](#)
  - [Platform Version](#)
  - [Platform Name](#)
  - [Application Path](#)

## Required Selenium Test Configuration Settings

Setting	Description	Key	Value Type	Example
<b>Browser Name</b>	The name of the browser test against.	browserName	string	"browserName": "firefox"
<b>Browser Version</b>	The version of the browser you want to use in your test.	version	string	"version": "66.0" <div style="border: 1px solid #c6e0b4; padding: 10px; margin-top: 10px;"> <p> <b>Default to Latest Version of Chrome or Firefox</b></p> <p>If you want to use the latest stable version of Google Chrome or Firefox that Sauce supports, you can use "version": "latest". You can also use "version": "latest-1" or "version": "latest-2", etc. to request the next most recent versions of a browser. For example, if the latest stable version of Chrome is 73, you can request "latest-2" to use Chrome 71.</p> </div> <div style="border: 1px solid #c6e0b4; padding: 10px; margin-top: 10px;"> <p> <b>Microsoft Edge versions</b></p> <p>Microsoft Edge has two version numbers, the browser application version and the EdgeHTML rendering engine version. For example, the current stable release of Edge as of November 2019 has the browser application version 44.17763 and the EdgeHTML version 18.17763. The Wikipedia page on Microsoft Edge covers this in more detail: <a href="https://en.wikipedia.org/wiki/Microsoft_Edge">https://en.wikipedia.org/wiki/Microsoft_Edge</a> It is the EdgeHTML version that should be specified here, such as "version": "18.17763".</p> </div>
<b>Platform</b>	Which operating system the browser should be running on.	platform	string	"platform": "macOS 10.13"

## Required Appium Test Configuration Settings

Setting	Description	Key	Value Type	Example
<b>Appium Version</b>	The version of Appium that you want to run your tests with.	appiumVersion	string	<pre>"appiumVersion": "1.5.3"</pre> <div style="border: 1px solid green; padding: 10px; margin-top: 10px;"> <p> <b>Default Appium Version</b></p> <p>If you don't select an Appium Version for your test in the Platform Configurator, this capability will automatically default to the latest version of Appium that is compatible with your selected OS. If you prefer to use a different version of Appium for your test, enter the version number you want as the value for the <code>appiumVersion</code> capability. You can find the release notes for each Appium version at <a href="#">the Appium GitHub repository</a>. In order for you to have a window of time to check the compatibility of your test suites with the latest Appium version, it won't be set as the default version on Sauce until one week after the version release.</p> </div>
<b>Browser Name</b>	The mobile web browser that will be automated in the simulator, emulator or device.	browserName	string	<pre>"browserName": "Safari"</pre> <div style="border: 1px solid green; padding: 10px; margin-top: 10px;"> <p> <b>Empty String for Mobile Native and Hybrid Apps</b></p> <p>If you're testing a mobile native or web application, the value for this capability should be an empty string.</p> </div>
<b>Device Name</b>	The name of the simulator, emulator, or device you want to use in the test.	deviceName	string	<pre>"deviceName": "Google Nexus 7 HD Emulator"</pre> <div style="border: 1px solid green; padding: 10px; margin-top: 10px;"> <p> <b>Generic Android Emulator</b></p> <p>For an Android emulator test you can request a generic Android emulator by using the option <code>"deviceName": "Android Emulator"</code>. If you want to use an Android emulator that looks and feels like a specific Android phone or tablet, for example a Google Nexus 7 HD Emulator or a Samsung Galaxy S4, then instead of <code>"deviceName": "Android Emulator"</code>, you need to specify the exact Android emulator skin to use, for example <code>"deviceName": "Samsung Galaxy S4 Emulator"</code>.</p> </div> <div style="border: 1px solid green; padding: 10px; margin-top: 10px;"> <p> <b>Emulator Skins and Configurations</b></p> <p>Each Android emulator skin will have a different configuration depending on the phone or tablet that it emulates. For example, all the skins have different resolutions, screen dimensions, pixel densities, memory, etc. You can use the <a href="#">Platform Configurator</a> to get a list of the available Android emulator skins for the various Android emulator versions.</p> </div>
<b>Platform Version</b>	The mobile operating system version that you want to use in your test.	platformVersion	string	<pre>"platformVersion": "9.1"</pre>
<b>Platform Name</b>	The mobile operating system platform you want to use in your test.	platformName	string	<pre>"platformName": "iOS"</pre>
<b>Application Path</b>	The path to a <code>.ipa</code> , <code>.apk</code> or <code>.zip</code> file containing the app to test. This could be the location of your app in the <a href="#">Temporary Sauce Storage</a> , for example, <code>sauce-storage:myapp.zip</code> , or the URL to a remote location where your app is located, for example <code>http://myappurl.zip/</code> .	app	string	<pre>"app": "sauce-storage:my_app.zip"</pre> <div style="border: 1px solid green; padding: 10px; margin-top: 10px;"> <p> <b>Required for Mobile Native and Hybrid Apps Only</b></p> <p>This capability is required only for testing mobile native or web applications.</p> </div>