Desired Capabilities Required for Selenium and Appium Tests

You can configure the environment for your Appium and Selenium tests by specifying a set of desired capabilities. Our Platform Configurator can set desired capabilities for testing in the scripting language of your choice. Test Configuration Options provides a complete list of all Selenium, Appium, and Sauce Labs testing capabilities.

See the following sections for more information.

- Required Selenium Test Configuration Settings
  - Browser Name
  - Browser Version
  - Platform Name
- 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
Browser Name	The name of the browser test against.	`browserName`	string	`"browserName": "firefox"`
Browser Version	The version of the browser you want to use in your test.	`browserVersion`	string	`"browserVersion": "latest"` ✅ **Default to Latest Version of Chrome or Firefox** If you want to use the latest stable version of Google Chrome or Firefox that Sauce supports, you can use `"browserVersion": "latest"`. You can also use `"browserVersion": "latest-1"` or `"browserVersion": "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. ✅ **Microsoft Edge versions** 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: https://en.wikipedia.org/wiki/Microsoft_Edge It is the EdgeHTML version that should be specified here, such as `"browserVersion": "18.17763"`.
Platform Name	Which operating system the browser should be running on.	`platformName`	string	`"platformName": "macOS 10.13"`

Required Appium Test Configuration Settings

Setting	Description	Key	Value Type	Example
Appium Version	The version of Appium that you want to run your tests with.	`appiumVersion`	string	`"appiumVersion": "1.5.3"` ✅ **Default Appium Version** 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 `appiumVersion` capability. You can find the release notes for each Appium version at the Appium GitHub repository. 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.
Browser Name	The mobile web browser that will be automated in the simulator, emulator or device.	`browserName`	string	`"browserName": "Safari"` ✅ **Empty String for Mobile Native and Hybrid Apps** If you're testing a mobile native or web application, the value for this capability should be an empty string.
Device Name	The name of the simulator, emulator, or device you want to use in the test.	`deviceName`	string	`"deviceName": "Google Nexus 7 HD Emulator"` ✅ **Generic Android Emulator** For an Android emulator test you can request a generic Android emulator by using the option `"deviceName":"Android Emulator"`. 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 `"deviceName":"Android Emulator"`, you need to specify the exact Android emulator skin to use, for example `"deviceName":"Samsung Galaxy S4 Emulator"`. ✅ **Emulator Skins and Configurations** 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 Platform Configurator to get a list of the available Android emulator skins for the various Android emulator versions.
Platform Version	The mobile operating system version that you want to use in your test.	`platformVersion`	string	`"platformVersion": "9.1"`
Platform Name	The mobile operating system platform you want to use in your test.	`platformName`	string	`"platformName": "iOS"`
Application Path	The path to a `.ipa`, `.apk` or `.zip` file containing the app to test. This could be the location of your app in the Temporary Sauce Storage, for example, `sauce-storage:myapp.zip`, or the URL to a remote location where your app is located, for example `http://myappurl.zip/`.	`app`	string	`"app": "sauce-storage:my_app.zip"` ✅ **Required for Mobile Native and Hybrid Apps Only** This capability is required only for testing mobile native or web applications.