# **Guide to Appium 2.x server installation and changes for iOS & Android devices**

Below are the highlights of appium changes for 2.x

* Decoupled individual appium drivers
* Introducing appium plugin
* Support w3c protocol standard
* Changes to appium capabilities
* Appium inspector separated from appium desktop
* Deprecated some of the appium commands as part of w3c migration
* Changes to appium client libraries e.g java-client deprecated lots of commands

### **Install the latest appium server**

you can use below npm command (there is no GUI as we have for 1.x)

**sudo npm install -g appium@next**

### **To verify appium version**

### **Appium –v**

### **Verify if appium server running**

navigate to browser and run below url, you should see the appium version

<http://0.0.0.0:4723/status>

1. **Individual appium driver installation**

Appium decoupled all the drivers and have to install them individually on a need basis.

Example – Run below command for IOS driver i.e – xcuitest

**appium driver install xcuitest**

For android i.e – uiautomator2

**appium driver install uiautomator2**

1. **Verify the installations**

You can install appium-doctor npm package to verify the installations

**npm install -g appium-doctor**

**appium-doctor --version**

Then individually for all appium drivers, we can verify the setup is correct to run tests on Android or IOS devices.

**appium-doctor —-android**

**appium-doctor —-ios**

1. **Updating the appium drivers**

To list down all the appium drivers installed on machine –

**appium driver list**

To verify if any updates available

**appium driver list –updates**

To update individual appium drivers or multiple drivers at a time –

**appium driver update xcuitest**

or

**appium driver update xcuitest, uiautomator2** …

Note – All the drivers are installed under home/.appium

### **Support w3c protocol standard**

As per the appium documentation on migrating completely to w3c protocol –

*“Up until Appium 2.0, Appium supported both protocols, so that older Selenium/Appium clients could still communicate with newer Appium servers. Moving forward, support for older protocols will be removed.”*

There are lots of changes introduced to support the w3c as a whole.

Appium DesiredCapabilities are now renamed as appium capabilities –

* All capabilities should be prefixed with **appium:** keyword, use this in appium inspector or in java code to launch simulators / real devices.

example – **appium:app, appium:noReset** etc

* Introduced **appium:options** section to capture multiple appium capabilities –

Example shown below:

{

"platformName": "iOS",

"browserName": "Safari",

"appium:options": {

"platformVersion": "14.4",

"deviceName": "iPhone 11",

"automationName": "XCUITest"

}

}

**Note:**  for list of capabilities, refer [capabilities guide](https://github.com/appium/appium/blob/master/packages/appium/docs/en/guides/caps.md)

* The appium JavaScript library is deprecated, and instead we should be using webDriverIO
* Appium java-client library is updated to 8.x to support w3c standard protocol
* Appium Inspector as a separate utility