

 무료 전자 책

배우기

appium

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# 1: appium

[Appium](#) (iOS, FirefoxOS), (Android) (iOS, Android, FirefoxOS) , , .

## Appium?

1. API .
2. API . [Java](#) , [Objective-C](#) , Node.js ( , ) , PHP , [Python](#) , [Ruby](#) , [C #](#) , Clojure Perl [WebDriver](#) dev . Selenium WebDriver API .
3. .

WebDriver . .

Appium Apple UIAutomation JavaScript Instruments . Google UiAutomator Java .  
Appium .

?

Appium Selenium [WebDriver JSON](#) API .

Appium iOS 10 Apple UIAutomation . [Dan Cuellar](#) iOS Auto . UIAutomation iOS 10  
XCUITest .

UiAutomator [Selendroid](#) .

FirefoxOS WebDriver Gecko [Marionette](#) .

<a href="#">1.6.3</a>	2016-12-12
<a href="#">1.6.2</a>	2016-12-02
<a href="#">1.6.1</a>	2016-11-24
<a href="#">1.6.0</a>	2016-10-10
<a href="#">1.5.3</a>	2016-06-07
<a href="#">1.5.2</a>	2016-04-20
<a href="#">1.5.1</a>	2016-03-29
<a href="#">1.5.0</a>	2016-02-26
<a href="#">1.4.16</a>	2015-11-20
<a href="#">1.4.15</a>	2015-11-18
<a href="#">1.4.14</a>	2015-11-06

<a href="#">1.4.13</a>	2015-09-30
<a href="#">1.4.11</a>	2015-09-16
<a href="#">1.4.10</a>	2015-08-07
<a href="#">1.4.8</a>	2015-07-16
<a href="#">1.4.7</a>	2015-07-02
<a href="#">1.4.6</a>	2015-06-19
<a href="#">1.4.3</a>	2015-06-09
<a href="#">1.4.1</a>	2015-05-21
<a href="#">1.4.0</a>	2015-05-09
<a href="#">1.3.7</a>	2015-03-25
<a href="#">1.3.6</a>	2014-12-01

## Examples

Appium !

### iOS

- Mac OS X 10.10 , 10.11.1
- XCode> = 6.0, 7.1.1
- Apple Developer Tools (iPhone SDK, )
- [iOS](#) !

### Android

- [Android SDK](#) API = 17 ( 18/19 )
- Appium OS X, Linux Windows Android . OS .
  - 
  - [OSX](#)
  -

### FirefoxOS

- [Firefox OS](#)

---

## Appium

## Node.js

```
$ npm install -g appium
$ appium
```

## Github

```
$ git clone git@github.com:appium/appium.git
$ cd appium
$ npm install
$ node .
```

## Mac Windows

- [Appium](#)
- !

# Appium

Appium .

## Android Appium

:

- API 17 Android OSDK
- Node.js ( <https://nodejs.org/> )
- Appium ( <http://appium.io/> )
- ( <http://www.seleniumhq.org/download/> )
- Appium jar ( <https://search.maven.org/#search%7Cga%7C1%7Cg%3Aio.appium%20a%3Ajava-client> )
- .apk

:

- Eclipse [www.eclipse.org/downloads/](http://www.eclipse.org/downloads/) .
- java (jdk jre ) .
- SDK .
- Java, Android SDK, ( ) .

Windows OS : " " . ✓ " " " " -> ""-> "" JAVA jdk (;) . android sdk (;) (;) -> .

- Eclipse .

Android Eclipse : Eclipse > . ● . "ADT " URL . <https://dl-ssl.google.com/android/eclipse/> ( "https" URL "http" ( https ) .

- ANDROID\_HOME .

ANDROID\_HOME . uit Eclipse-> Window-> Preferences-> Android . Android SDK " " .  
 ""ü " " -> -> ANDROID\_HOME, - Eclipse SDK -> . -> -> , ANDROID\_HOME , -  
 > Eclipse SDK -> .

- Android . Eclipse-> -> Android -> / .-> "" .

Appium :

- node.js ( " <http://nodejs.org/> " ) .
- Appium : Appium → node\_modules → appium → bin → shift + → → appium → enter

: Appium v1.3.4 (REV c8c79a85fbd6870cd6fc3d66d038a115ebe22efe) : Appium REST HTTP  
 0.0.0.0:4723 . Console LogLevel : : Appium REST http 0.0.0.0 . 4723info : LogLevel :

Appium : package appium.com;

```
import java.net.MalformedURLException; import java.net.URL;
```

```
import org.openqa.selenium.remote.CapabilityType; import  

org.openqa.selenium.remote.DesiredCapabilities; import  

org.openqa.selenium.remote.RemoteWebDriver;
```

```
AppiumLaunch {public static void main (String args []) MalformedURLException  

{RemoteWebDriver throw. DesiredCapabilities = DesiredCapabilities ();
```

```
capabilities.setCapability("platformName", "Android");  

capabilities.setCapability("deviceName", "");  
  

capabilities.setCapability("version", "4.4.2");  

capabilities.setCapability("device ID", "");  

capabilities.setCapability("app-package", "");  

capabilities.setCapability(CapabilityType.BROWSER_NAME, "");  
  

capabilities.setCapability("app-activity", "");  

capabilities.setCapability("takesScreenshot", true);  
  

capabilities.setCapability("app", "C:/Users/.....apk");  
  

driver=new RemoteWebDriver( new URL("http://127.0.0.1:4723/wd/hub"), capabilities);  

System.out.println("app is launched on the device");  
  

}
```

```
}
```

- apk .
- apk . apk decompiling . apk decompiling <http://www.decompileandroid.com> .

appium :

1. appium.exe appium.exe appium .
- 2.

adb : adb .  
3. Eclipse . .apk .

appium : <https://riptutorial.com/ko/appium/topic/5122/appium->



## 2: Appium

selenium GRID appium . .

### Examples

GRID Appium : . Appium Selenium Grid

1. Selenium selenium jar jar .

```
java -jar selenium-server-standalone-2.53.3.jar -role hub
Open http://localhost:4444/grid/console and you should be able to see GRID console in your browser.
```

2. Appium Nodes json . json . json . { "capabilities": [{ "applicationName": "ONEPLUS A3003", "browserName": "ONEPLUS A3003", "platformName": "ANDROID", "maxInstances": 1}], "configuration": { "cleanUpCycle": 2000, "timeout": 30000, "proxy": "org.openqa.grid.selenium.proxy.DefaultRemoteProxy", "host": "127.0.0.1", "port": 4723, "maxSession": 1, "register": true, "registerCycle": 5000, "hubPort": 4444, "hubHost": " IP "}}  
jsonFile1.json . applicationName > -> -> -> hubHost IP cmd

appium --nodeconfig C : /richa/jasonfile1.json -p 4723 -bp 4724 -U xxxx

i) json pasth ii) 4723 . iii) 4724 iv) -U xxxx

ID -> -> -> -> "adb " ID .

Selenium Grid .

json appium . json .

```
{ "" : {"applicationName ":"Lenovo K50a40 ","browserName ":"Lenovo K50a40 ","platformName ":"ANDROID ","maxInstances ": 1}}, "configuration ": {"cleanUpCycle " 2000, "timeout": 30000, "proxy": "org.openqa.grid.selenium.proxy.DefaultRemoteProxy", "host": "127.0.0.1", "port": 4730, "maxSession": 1, "register ": true, "registerCycle ": 5000, "hubPort ": 4444, "hubHost ":" IP "}}
jsonFile2.json .
```

Lenovo mobile . appium --nodeconfig C : / richa / jasonFile2.json -p 4730 -bp 4731 -U xxxx

Selenium Grid .

3) TestNG .

-> . adb .

4.

SearchHotelTestCase.Java . package com.trivago.TestCases;

```

import java.net.MalformedURLException; import java.net.URL; import
java.util.concurrent.TimeUnit;

import org.openqa.selenium.remote.DesiredCapabilities; import
org.openqa.selenium.remote.RemoteWebDriver; import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Parameters; org.testng.annotations.Test;

import com.trivago.pages.LocaleSelectionPage; import com.trivago.pages.SearchLocation; import
com.trivago.pages.SplashScreenPage;

import io.appium.java_client.MobileElement; import io.appium.java_client.android.AndroidDriver;

SearchHotelTestCase ( AndroidDriver ;

@BeforeMethod public void beforeMethod (String deviceName_, String platformVersion_, String
applicationName_), MalformedURLException, InterruptedException . @Parameters ({
"deviceName _", "platformVersion _", "applicationName_"})

DesiredCapabilities = DesiredCapabilities (); capabilities.setCapability ( "deviceName",
deviceName_); capabilities.setCapability ( "platformVersion", platformVersion_);
capabilities.setCapability ( "platformName", "Android"); capabilities.setCapability (
"applicationName", applicationName_); capabilities.setCapability ( "app",
"/Users/richa.b.shrivastava/Downloads/com.trivago_2017-04-28.apk"); capabilities.setCapability (
"appPackage", "com.trivago"); capabilities.setCapability ( "appActivity",
"com.trivago.activities.SplashActivity");

URL url = URL ( "http : ///0.0.0:4723/wd/hub/ "); System.out.println ( "before webdriver"); =
AndroidDriver (url, capabilities); System.out.println ( "webdriver "); driver.manage (). timeouts ().
implicitlyWait (10, TimeUnit.SECONDS); Thread.sleep (4000); }

@Test public void SearchHotel () { // LocaleSelectionPage localeSelectionPage = new
LocaleSelectionPage (driver); SplashScreenPage splashScreenPage = SplashScreenPage ();
SearchLocation searchLocation = SearchLocation ();

// localeSelectionPage.selectLocale () . splashScreenPage.clickSplashSearchText ();
searchLocation.inputSearchText ( "Paris"); searchLocation.selectSuggestions ( " , ");

}

}

```

**Appium** : <https://riptutorial.com/ko/appium/topic/10016/appium-->

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# 3: Java

API

Java

## Examples

### Android Play ( )

:

- pom.xml
- src / test / java / PlayStoreAutomation.java

:

```
mvn -Dtest = PlayStoreAutomation
```

### PlayStoreAutomation.java

```
import org.junit.AfterClass;
import org.junit.BeforeClass;
import org.junit.Test;
import io.appium.java_client.android.AndroidDriver;
import io.appium.java_client.android.AndroidKeyCode;
import io.appium.java_client.MobileElement;
import org.openqa.selenium.remote.DesiredCapabilities;
import org.openqa.selenium.By;
import java.util.concurrent.TimeUnit;
import java.net.URL;

public class PlayStoreAutomation {
    public static AndroidDriver<MobileElement> driver;

    @BeforeClass
    public static void setUp() throws Exception {
        DesiredCapabilities capabilities = new DesiredCapabilities();
        capabilities.setCapability("platformName", "Android");
        capabilities.setCapability("deviceName", "Android Device");
        capabilities.setCapability("appPackage", "com.android.vending");
        capabilities.setCapability("appActivity",
"com.google.android.finsky.activities.MainActivity");

        driver = new AndroidDriver<MobileElement>(new URL("http://localhost:4723/wd/hub"),
capabilities);
        driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
    }

    @AfterClass
    public static void tearDown() {
        driver.quit();
    }
}
```

```

@Test
public void testPlayStore() throws Exception {
    driver.findElement(By.id("com.android.vending:id/text_container")).sendKeys("Google");
    driver.pressKeyCode(AndroidKeyCode.ENTER);

    // First item in the search result by Xpath

driver.findElement(By.xpath("//android.support.v7.widget.RecyclerView[1]/android.widget.LinearLayout[1]

    // Confirm element found
    driver.findElement(By.xpath("//android.widget.TextView[@text='Google']"));
}
}

```

## pom.xml

```

<project xmlns="http://maven.apache.org/POM/4.0.0"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>

    <groupId>com.testner.appium</groupId>
    <artifactId>tester-tests</artifactId>
    <version>1.0-SNAPSHOT</version>

    <dependencies>
        <dependency>
            <groupId>io.appium</groupId>
            <artifactId>java-client</artifactId>
            <version>4.0.0</version>
        </dependency>
        <dependency>
            <groupId>junit</groupId>
            <artifactId>junit</artifactId>
            <version>4.12</version>
        </dependency>
    </dependencies>

    <build>
        <plugins>
            <plugin>
                <artifactId>maven-compiler-plugin</artifactId>
                <version>3.1</version>
                <configuration>
                    <source>1.8</source>
                    <target>1.8</target>
                </configuration>
            </plugin>
            <plugin>
                <groupId>org.apache.maven.plugins</groupId>
                <artifactId>maven-surefire-plugin</artifactId>
                <version>2.10</version>
                <configuration>
                    <reportsDirectory>${project.build.directory}/reports</reportsDirectory>
                </configuration>
            </plugin>
        </plugins>
    </build>
</project>

```

```
</build>  
</project>
```

Java : <https://riptutorial.com/ko/appium/topic/6195/java->

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3	Java	<a href="#">Domestus</a>