1. **Appium Architecture**

[Appium](https://www.edureka.co/blog/appium-tutorial/) is an open source, cross-platform [automation testing tool](https://www.edureka.co/blog/software-testing-tools/). It is currently geared towards providing a seamless automation [testing experience for mobile applications](https://www.edureka.co/blog/mobile-application-testing/) that run on Android and iOS.

1. **How Appium works**

<http://appium.io/docs/en/about-appium/intro/>

<https://www.edureka.co/blog/appium-tutorial/>

<https://subscription.packtpub.com/book/application_development/9781787280168/1/ch01lvl1sec11/appium-architecture>

1. **Note:**

Appium is available in Linux, Windows , Mac OS

Key Concepts:

* Client Server Architecture
* Server Written in Nodejs
* Appium Sessions
* Desired Capabilities
  + Works differently on iOs and Android
  + Json Wire Protocol
  + Protocol to ensure communication between client and server
  + Bunch of Standardized End Point
  + Mobile Json WP
  + Json object being sent through wired protocol using the same Key value pair
  + Appium Server:
  + Request is sent from Client
  + Appium Server Differentiate the request by Android or iOS, if its Android request – It is sent to UIAutomator and if its ios : Request is sent to XCUITest
  + Ui Automator: It’s a framework developed by Android developers at google
  + After UI Automator or XCUI Test, the request is sent to Bootstrap.js in case of iOS and Bootstrap.jar in case of UIAutomator
  + After the automation is done, the response can be seen in the Appium logs . And the server response is sent back to the client
  + Appium Client Library and necessary jar files are required