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INTRODUCTION TO MOBILE UI AUTOMATION TESTING WITH APPIUM

4 TYPES OF TESTING

- Unit Testing
 - Breaks code into smaller groups
 - Fast to run and can be used for constant regressions
- Performance Testing
 - Mobile Specific -> Performance between devices
- Ul Testing
 - This is the type that Appium falls in
- API Testing

DIFFERENCE BETWEEN UNIT TESTING AND UI TESTING

- Unit Testing
 - Used for testing sections of code
 - Helpful for developers
 - Can be used along with code check-ins for quick regression
- Ul Testing
 - Helps test a vast variety of factors (Screen size, hardware)
 - Lets you scale UI tests easily

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Automation for Apps

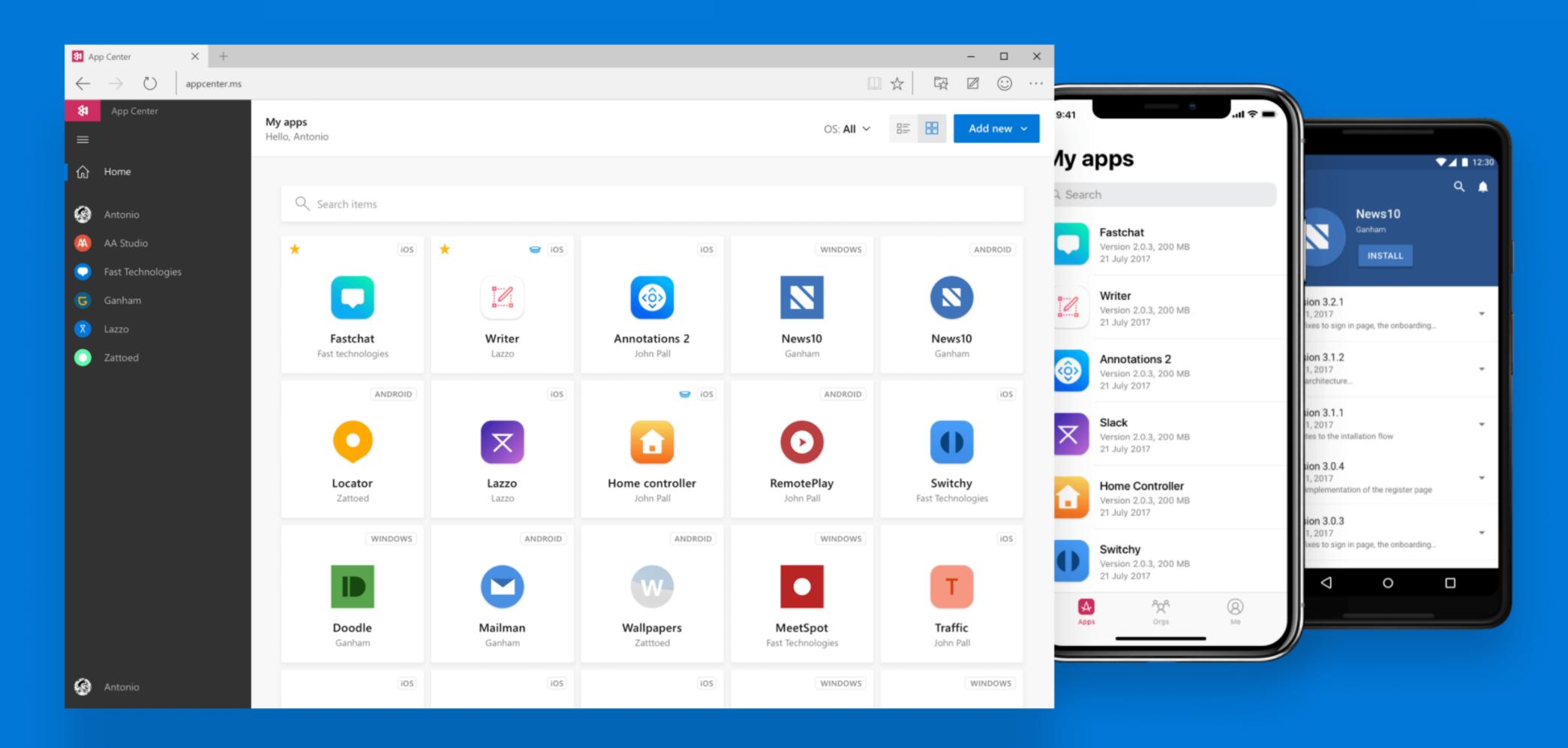
Appium is an open source test automation framework for use with native, hybrid and mobile web apps. It drives iOS, Android, and Windows apps using the WebDriver protocol.

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Visual Studio App Center



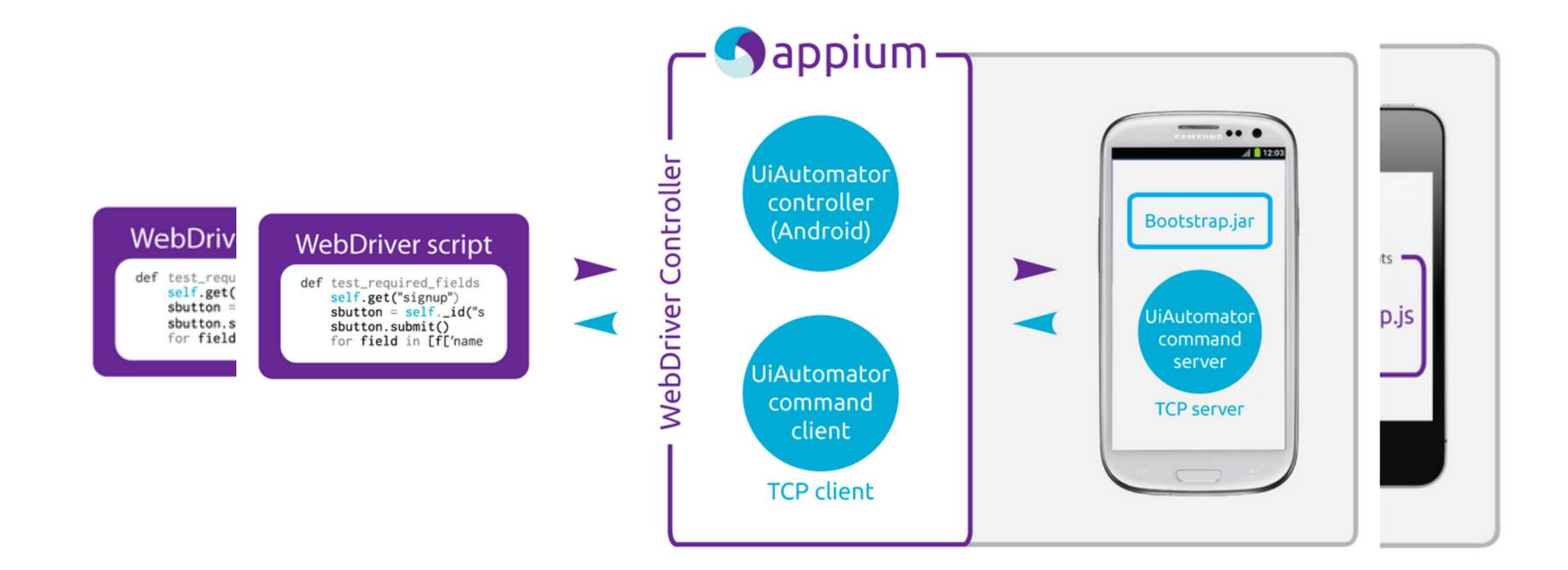
AWS Device Farm

Improve the quality of your iOS, Android, and web applications by testing against real phones and tablets in the AWS Cloud.



WHAT IS APPIUM?

- Appium is an open-source tool for automating native, mobile web, and hybrid applications
- Appium is "cross-platform": it allows you to write tests against multiple platforms using the same API

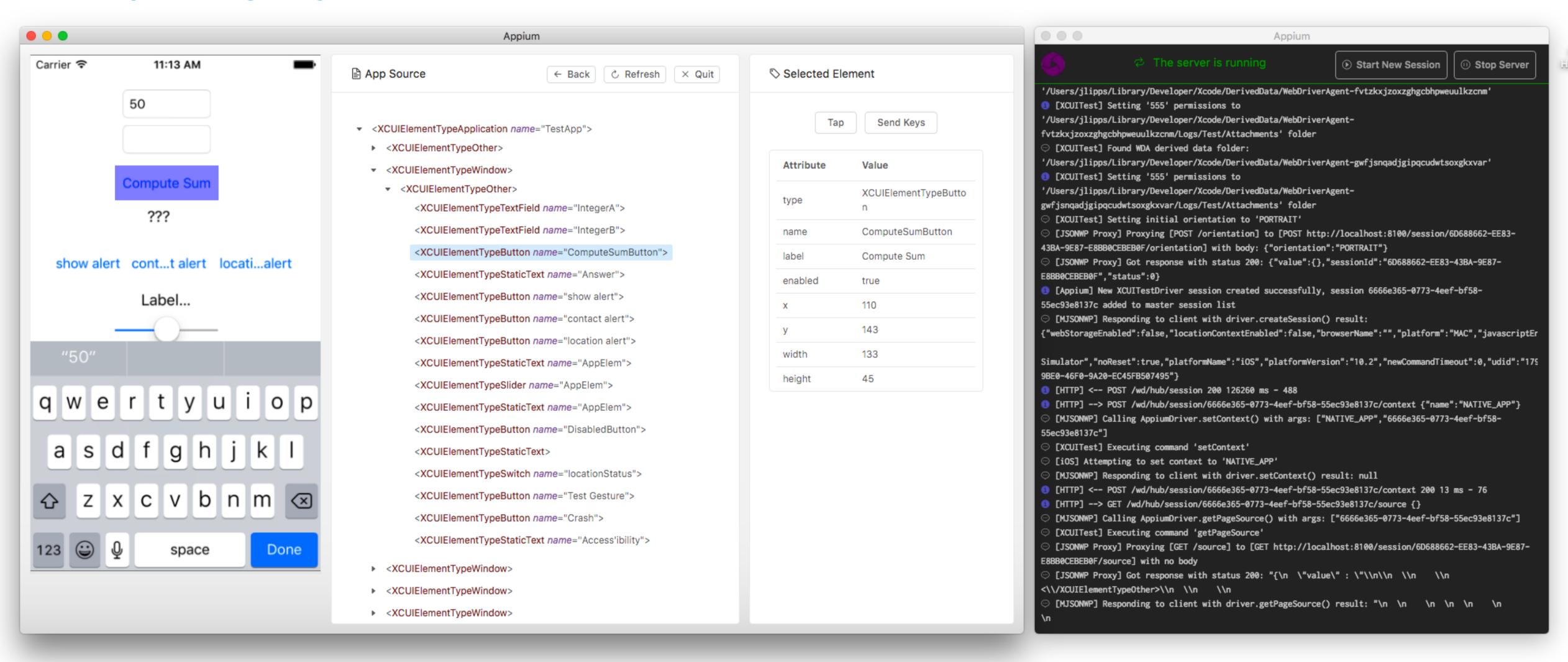


INSTALLING APPIUM

- Appium Server
 - npm install -g appium
- Javascript Client
 - npm install webdriverio
- C# Client
 - Nuget Appium.WebDriver

- Python Client
 - pip install Appium-Python-Client
- Java Client
 - Maven + Gradle support

APPIUM DESKTOP



USING APPIUM WITH ANY LANGUAGE

- Any language that supports webdriver/http calls
 - ► C#
 - **PHP**
 - Java
 - Javascript
 - Python
 - Ruby

- Appium Desktop
 - Supports test recordings in...
 - JS w/ webdriver.io
 - Java w/ JUnit
 - Python
 - Ruby

AUTOMATING TESTS WITH APPIUM

- App Center
 - Currently only supports Maven and JUnit
- AWS Device Farm
 - Maven/JUnit and Python
- > TFS/VSTS
 - Whatever language you want!
 - Allows you to test against in-house devices

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QUESTIONS