2020

Testing Manual

COMPLETED ON MAY 17, 2020

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Conventions

Buttons	(Login), (Submit)
Folders	{BuiltSpace}, {android}, {src}
Menu Items	File > Settings

Testing Manual

To get you started, the following instruction set will help guide you through the installation of Appium Studio and Apache-JMeter. These set of instructions assume that you have an understanding of Appium Studio and Apache-JMeter. In addition, this document will go over the steps to run both testing applications.

Prerequisites

- BuiltSpace Application Running on Server
- APK installed in the physical

Appium Studio

Installation Instructions

1. Launch Google Chrome
2. Navigate to https://experitest.com/appium-studio-download-windows/

   Download latest version of Appium Studio from the link provided.

3. Wait until the download is complete, select (Install)
4. Wait until the installation is completed
5. Click (Restart Now)

   The (Restart Now) will show from a pop-up window which may show after a short moment. After you restart, Appium Studio will launch.

Congratulations, you have successfully installed Appium Studio.

Enable USB Debugging

Do this for devices which are version 4.2 and higher

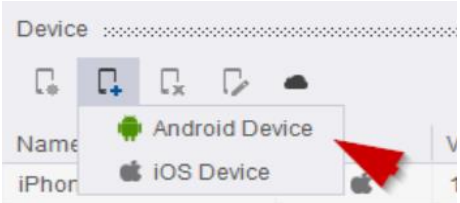
1. Go to Settings > About Phone > Build Number > Tap it 7 times to become a developer
2. Go to Settings > Developer Options > USB Debugging

   An *Allow USB Debugging* pop-up will show up after connecting the USB cable

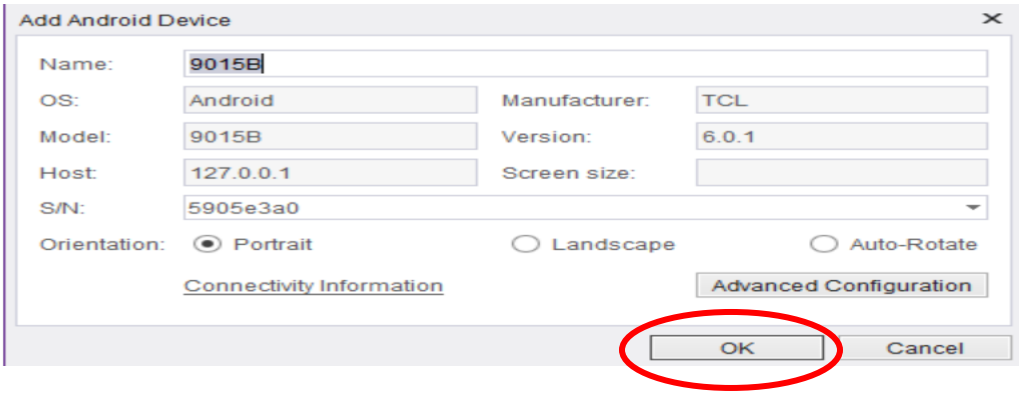
3. Click (OK)

Run Live Testing

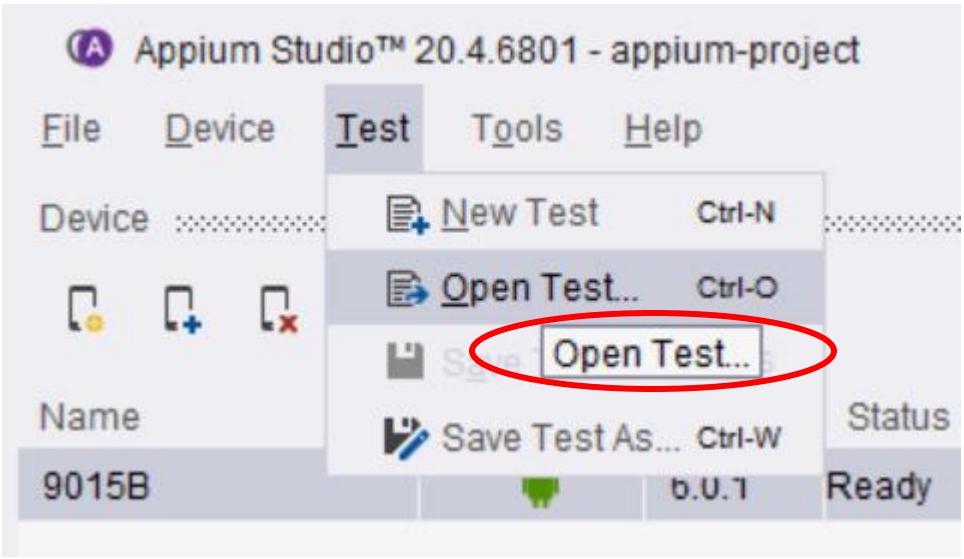
1. In Appium Studio, go to *Device* tab
2. Click (Add Device) icon
3. Select (Android Device)



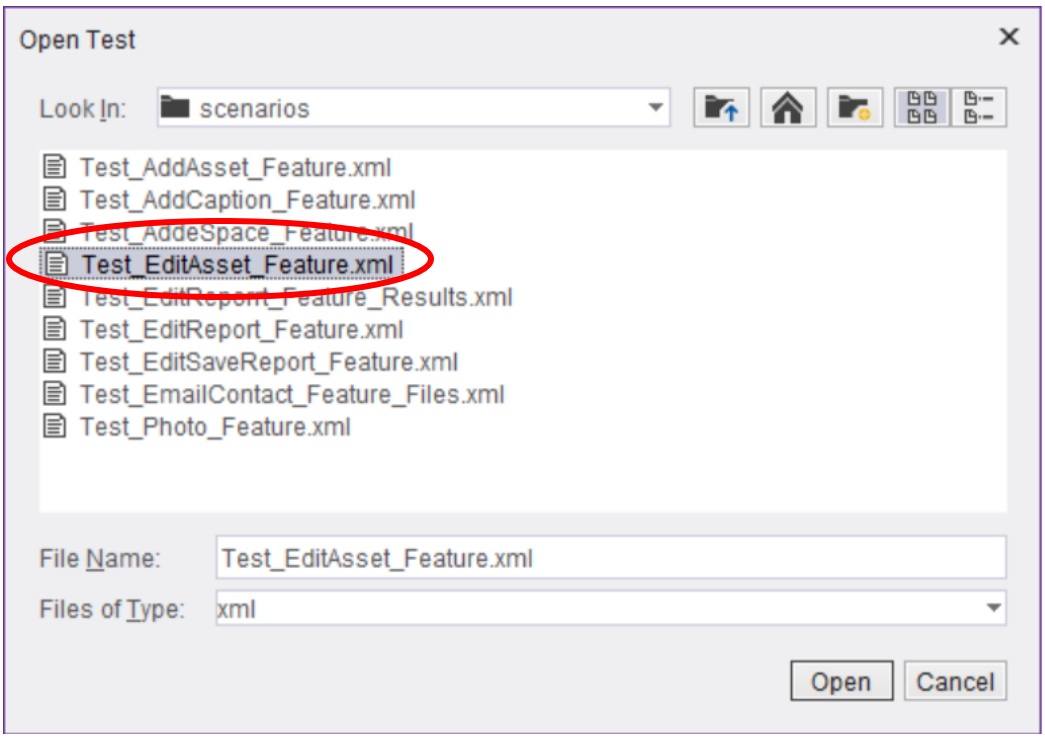
4. Click (OK)



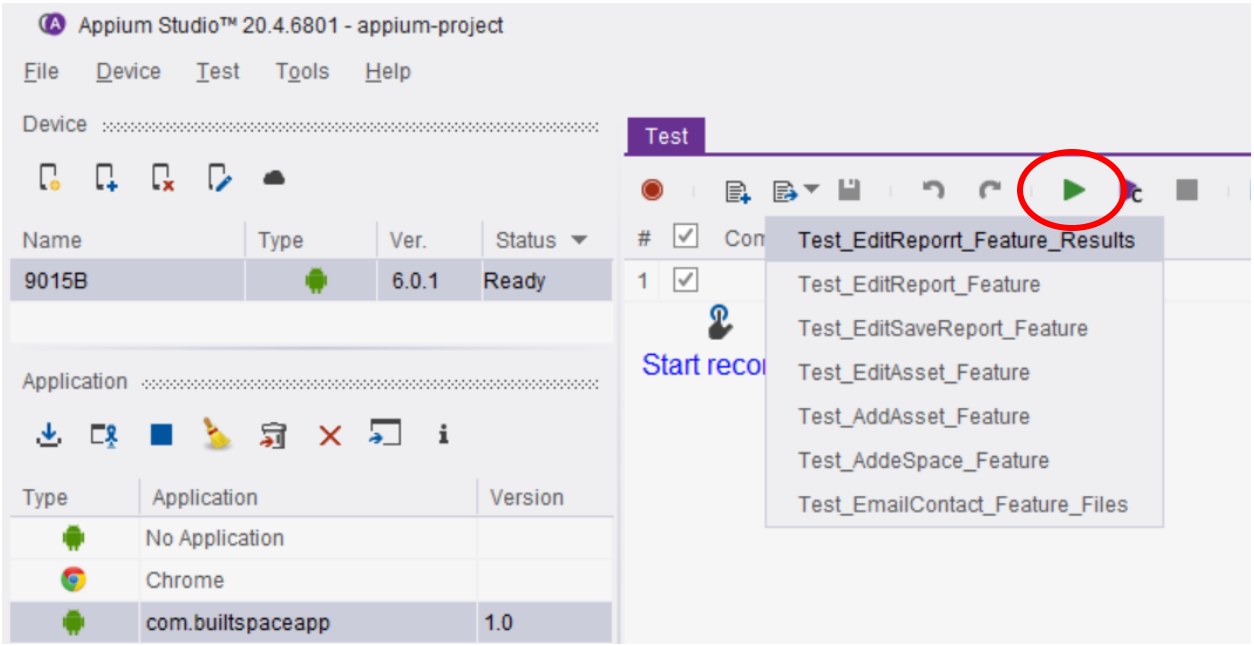
5. Open test cases from {test} attached in the {source code zip}



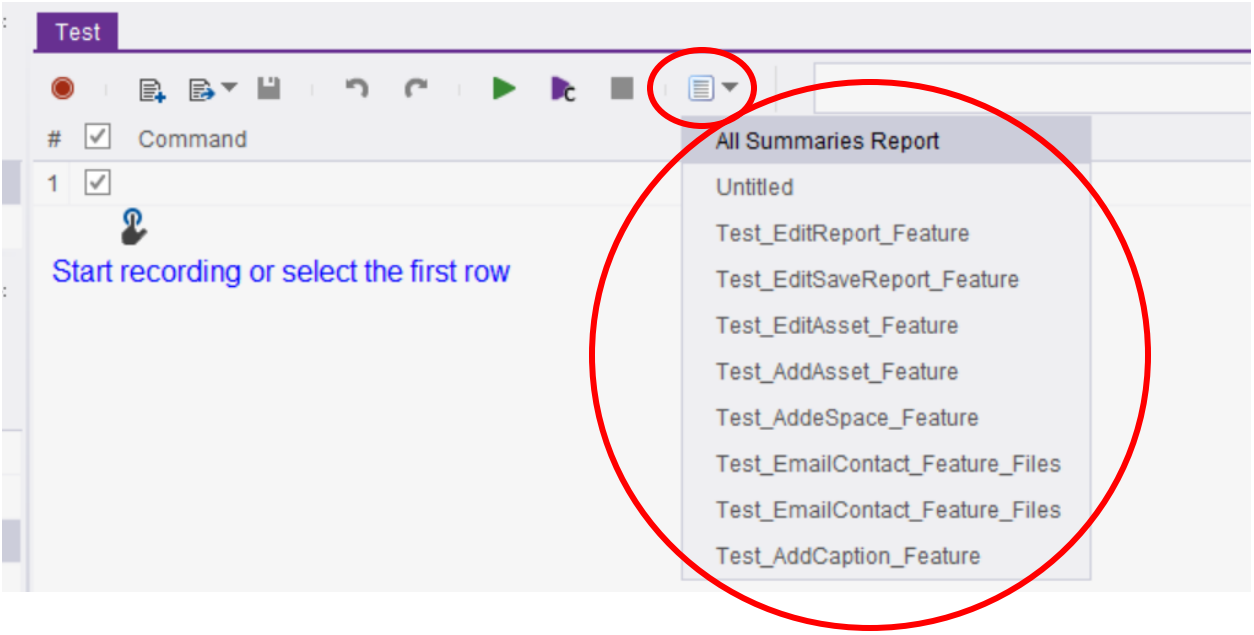
6. Open the test cases you would like to run from {testing}



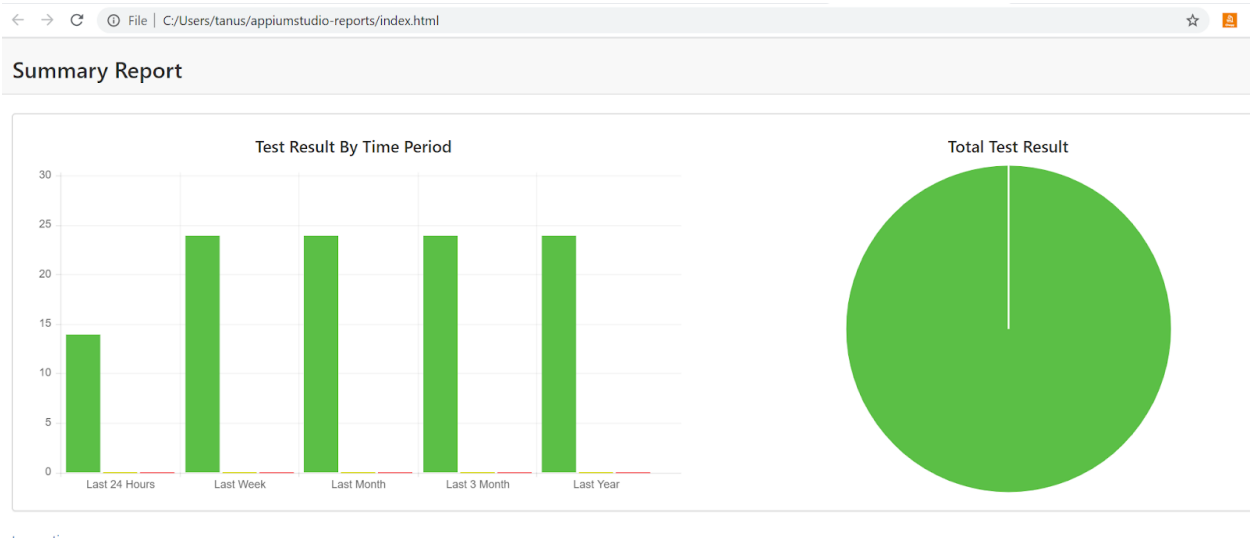
7. You can run the given tests by selecting (Run)



8. Finally, you can now view all or individual summary reports by selecting the drop down menu



Test Report Results



Apache-JMeter

In the case of Project, the CPU % user usage is 97% and the system usage (sy) is 8.9% with 0% idle. Testers may experience decreased performance due to lack of CPU power!

In order to meet the demands of this simulation of 200 users in 1 Ramp-up period (seconds), we need to either increase our CPU or optimize our server setup to use less CPU.

If you are curious, you may adjust the number of threads in the test to see how many your server can handle before it begins to exhibit performance degradation. In the case of our 1 CPU droplet example, it works fine for 200 threads over 1 Ramp-up period (seconds) with Loop count of 1, at the Tester's PC.

Installation Instructions

1. Install the latest 64-bit JRE or JDK
2. Go to Apacher JMeter and find the Binary
3. Once downloaded, move this file to your preferred location, extract it and go to the folder and then the bin directory
4. Take a look at the bin folder directly. You should see a series of scripts, select *ApacheJMeter.jar* to open in Jmeter

Congratulations, you have successfully installed Apache-JMeter-5.2.1

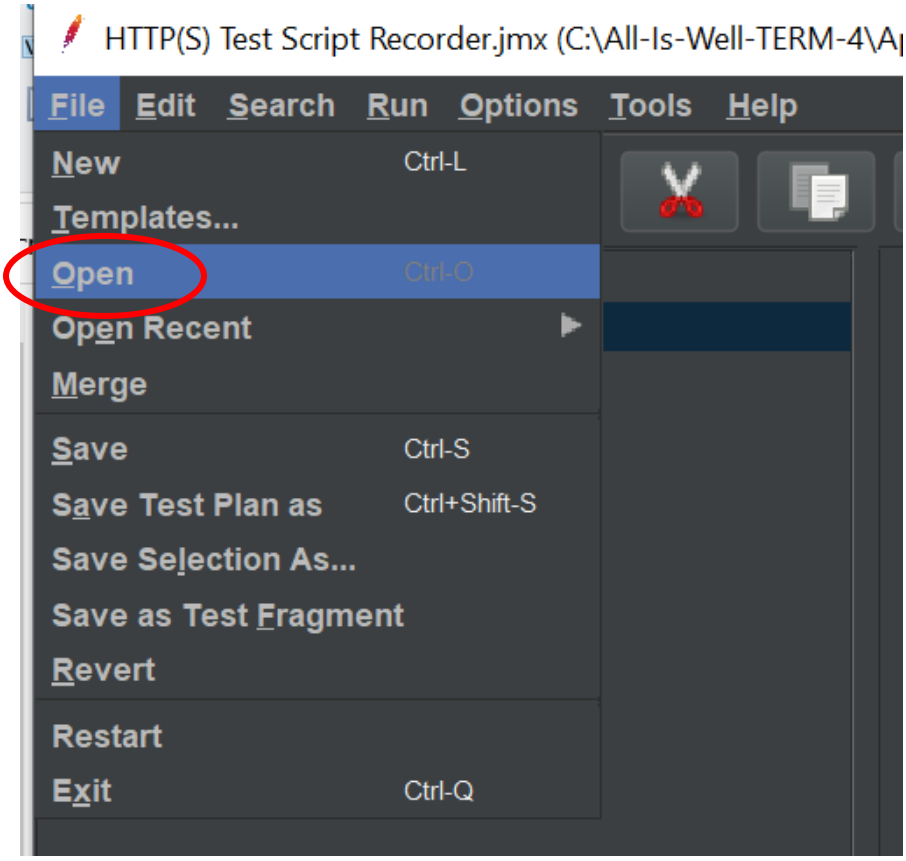
Android Proxy Configuration

This is essential for Apache-JMeter

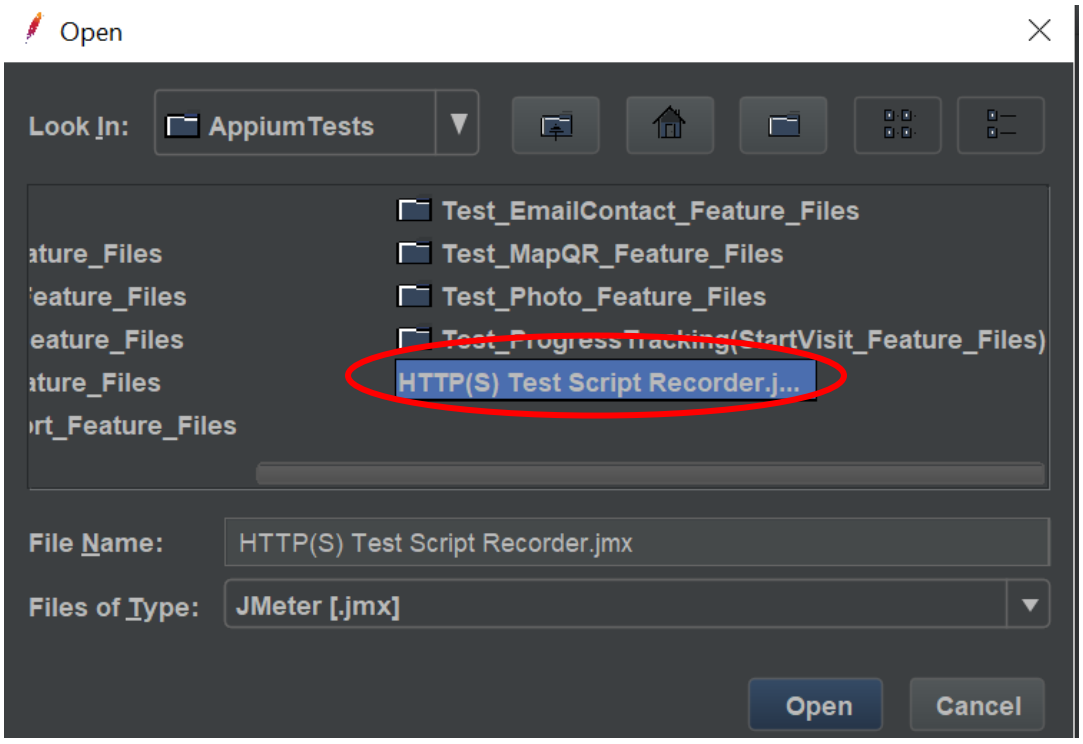
1. Go to Settings > Wi-Fi
2. Long tap the network which you are connect
3. Click (Modify Network) option
4. Check the *Advanced Options* checkbox
5. Set *Proxy* option to (Manual)
6. Set *Proxy hostname* as your PC IP address
7. Set *Proxy Port* to 8181
8. Click (Save)

Run Live Testing

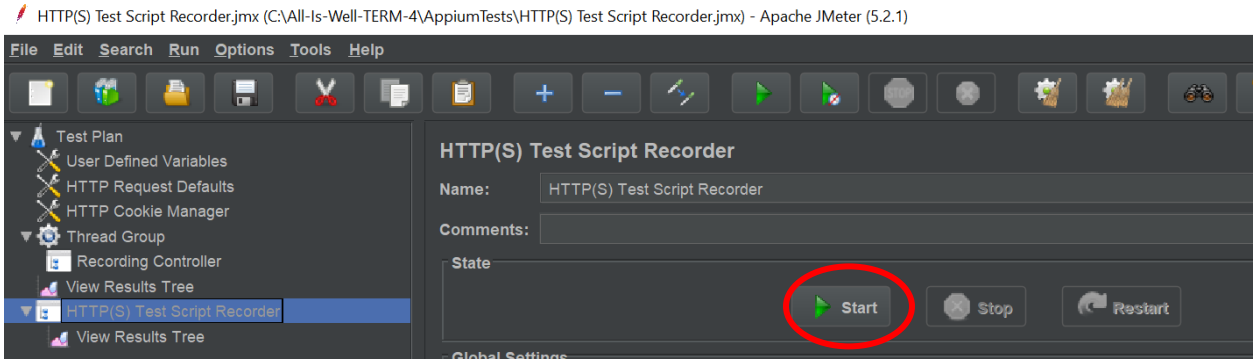
1. Go to File > Open



2. Locate and select [HTTP(S) Test Script Recorder.jmx) file provided in the submission



3. Start recording the test by clicking (Start)



4. Start running the test by selecting (Running Test)