

# Run Espresso tests in the Perfecto lab

The Perfecto Gradle Plugin allows the tester to:

- Select a device or multiple devices from the Perfecto Lab to run Espresso Tests for applications.
- Install the application and test files onto the selected devices.
- Run the test methods on the devices.
- See the progress of the test set on the console.
- Access a DigitalZoom Report Library grid that presents the results of the tests.

On this page:

- [Demo video](#)

The procedure presented here is used when the application and test files are available on the local disc storage and the plugin *jar* file is not installed.

**To execute the plugin without an Android Studio project:**

1. Add the Perfecto plugin dependency to your `build.gradle` file. Read [here how to create a build.gradle file](#).
2. Select which devices to run on and define other configurations in a configuration file. Read [here how to create a configuration file](#).
3. Open a command-line (terminal) window in the folder where you want to execute the plugin.
4. Execute the plugin using the following command in the command-line window:  
Here we also supply the full path to the Configuration File created in steps 5-9. Other [configuration parameters](#) (except for device selection) could be added to the command line.

## For Android apps

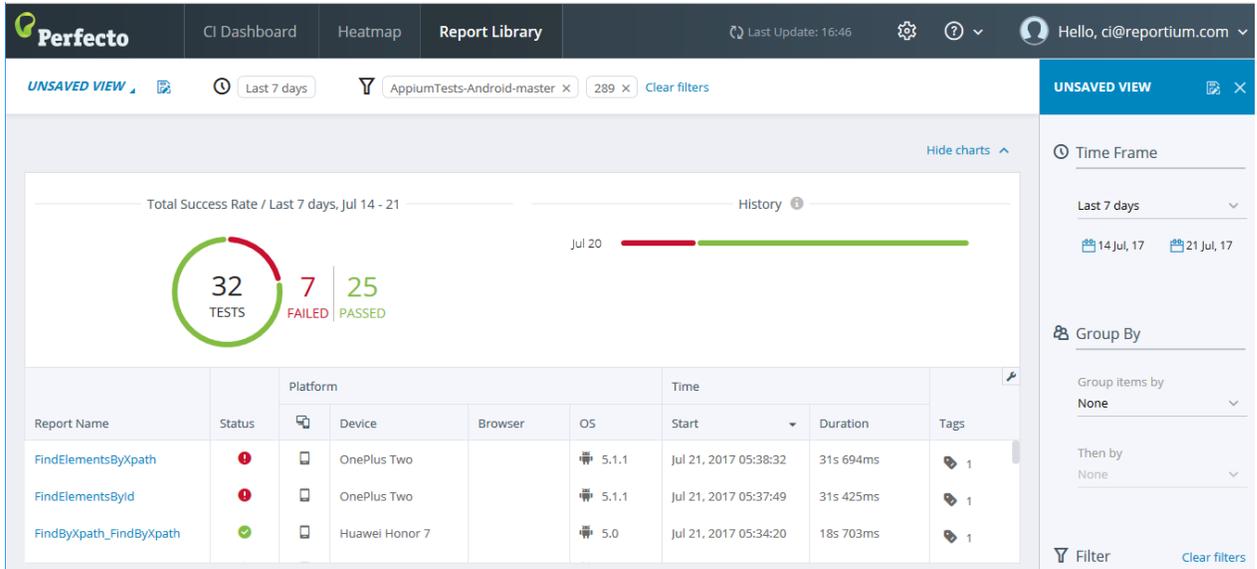
```
gradle perfecto-android-inst -PconfigFileLocation="C:\temp\Espresso\ConfigFile.json"
```

This will

- Select the devices as specified in the Device selection parameters of the configuration file [or a random device if no specification provided],
  - Install the application and test *APK* files onto the device
  - Run the test methods (based on the configuration parameters)
  - Send output to the console window
  - Generate an execution report that can be viewed in the [DigitalZoom Reporting](#) interface.
5. During the execution, the plugin will report on the progress of the execution, and the completion of each test method to the command-line window.
  6. At the end of the execution, a *high-level summary report* of the completion status for each device used will be presented in the command-line window
  7. Copy the report URL from the summary report on your console:

```
View the detailed report at: https://demo.reporting.perfectomobile.com/library?startExecutionTime[1]=lastMonth&tags[0]=5af27a82-54cc-405a-8c6e-fa46fcae874b  
Finished flow execution
```

8. Open the URL in your browser to access the execution report:



## Demo video

The following video demonstrates these steps.