

Prerequisites and installation document
for

Automating Hybrid Applications with
Appium

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Introduction:

During this workshop we will dive into the mysterious world of automating Hybrid Apps with Appium by using a demo Hybrid app. This document will describe all the prerequisites to set up your local machine to make sure you can participate in this workshop.

My advice is to watch the webinar [Automating Hybrid Applications with Appium](#) before this workshop as it handles the theory. It's not mandatory because I will briefly touch it, but it would really help understanding the *basics*.

We will be using:

- a local Android emulator, because this can be used on all platforms (Windows, Mac and Linux).
- WebdriverIO as an automation tool

Prerequisites:

- A Windows, Mac or Linux operating system
- Administrator and/or installation rights on your machine
- Installed NodeJS, this needs to be an even version, so 14 or 16 (No odd versions like 13, 15, 17 which are not stable versions)
- You have downloaded and configured an Android Emulator and/or an iOS Simulator
- Have the latest version of Appium installed on your machine (1.20.0 or higher)
- Some basic JavaScript knowledge

How to set up NodeJS, configure an Android Emulator/iOS Simulator and Appium are explained below.

Installing NodeJS

If you already have NodeJS installed on your machine then you may skip this step.

There are several ways to install NodeJS, this can be done by:

- downloading it from the [NodeJS](#) website and selecting your environment,
- or by using Node Version Manager.

My advice is to use Node Version Manager because this will give you the ability to easily switch between NodeJS versions in the future.

Note:

Make sure that if you are downloading NodeJS that you are using even versions with a minimum of NodeJS 14. The odd versions (13, 15, 17) are not the stable versions to use. For more information about NodeJS checkout this recording from EuroStar "NodeJS and Testing is like driving a car, but do you know how your car works?"

Windows:

Follow the instructions for Windows [here](#).

Mac/Linux:

Follow the instructions [here](#).

Setting up an Android Emulator or an iOS Simulator

You can skip this if you've already have an emulator/simulator set up.

Android and iOS both have their own prerequisites. Please follow the installation instructions that can be found [here](#) to prepare your local machine. This will help you configure your Android Emulator or iOS simulator.

If you configure your Android emulator, then make sure that you are using Android 10.

Installing Appium

If you already have Appium installed on your machine then you may skip this step.

You can follow the instructions, to install Appium on your local machine, by watching [this](#) video. You don't need to watch the complete video, the installation part is mentioned at the beginning and stops at 4:11 min.

As mentioned in the video, make sure you use [Appium Doctor](#) to verify if everything works as expected.

Installing Appium Inspector

Download the latest version of Appium Inspector, see [here](#). Appium Inspector is the newer version of Appium Desktop which has been split up into two separate apps. The Appium server app, which is still called Appium Desktop, and the graphical user interface, which is called Appium Inspector.

If you face any installation issues on a Mac, please follow [these](#) steps.