Pro React Native

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tting Started with React Native on Ubuntu



IUX



bu're tempted to give React Native a shot.



I're on Linux, you either prefer it for ideological reasons or for productivity ons. And, between you and me, I'm happy that your money isn't going to €. :)



y case, if you're coming to React Native, I'm guessing that either you're ated with native Android development, or you're big on Javascript / React.js vant to apply your skills on mobile.



good news is that the development experience on React Native is quite good!

The bad news is that getting it up and running on Linux can be a bit tricky, and the docs on the docs on the React Native site are a bit skimpy.

So I've put this walkthrough together to get you up and running in pure copy and paste fashion.

Give it a shot and please let me know in the comments if these directions didn't solve your problem.

Walkthrough

Prerequisites

Before following this guide, you should have installed the Android SDK and run a

successful Java-based "Hello World" app for Android.

Other than that, we should have you covered!

Let's dig in.

54 alling everything



III NodeJS



irst thing you need to do is to install NodeJS, a popular Javascript mentation.



up a terminal and paste these commands in to install NodeJS from APT:

```
udo apt-get install -y build-essential
url -sL https://deb.nodesource.com/setup_4.x | sudo -E
ash -
```



udo apt-get install -y nodejs



III NPM

..... installing NodeJS, you should now have NPM, too, the Node Package Manager.

You can check by typing which npm into the terminal.

If have NPM, you'll see something like:

```
$ /usr/local/bin/npm
```

If you don't have NPM, you'll see:

```
$ which npm
npm not found
$
```

If that's the case, run the following command to install NPM:

```
curl http://npmjs.org/install.sh | sh
```

Install watchman

```
man is a tool developed by Facebook for watching the filesystem. For best ts, you'll want to install it.

again, paste these into your terminal to get up and running:

it clone https://github.com/facebook/watchman.git
d watchman
it checkout v4.1.0 # the latest stable release
/autogen.sh
/configure
ake
udo make install

III flow
```

Here's how you install it:

 wget https://facebook.github.io/flow/downloads/flowlinux64-latest.zip

up: flow. This is a static type checker for Javascript.

- unzip flow-linux64-latest.zip
- cd flow
- sudo mv flow /usr/local/bin/flow

Note: for advanced users, you can put the flow executable anywhere on your PATH. It doesn't have to be in /usr/local/bin.

Install React Native

OK, with all of that out of the way, it's finally time to install React Native.

For most users of this guide, you'll need to use sudo to install React Native as root:

• sudo npm install -g react-native-cli

sers who installed NPM through other means, you'll likely want to install shares it Native as a normal user:

pm install -g react-native-cli

ate Project

ay! React Native is installed.

it's time to do what we came here to do: make an app!

eate an app project, you'll need to sit down and input this command:

eact-native init AwesomeProject

ke several minutes, so don't panic if your terminal sits around for a while e spitting out any output.

Setting Up an Android Device

OK, now that we have a starter project waiting for us, we're almost ready to run the code.

But before we do, we'll need either an emulator or a real Android device to run our code on.

In this tutorial, we're going to use a real Android device.

First thing is to plug in your device and check the manufacturer code by using lsusb:

\$ lsusb
Bus 002 Device 002: ID 8087:0024 Intel Corp. Integrated Rat

```
Bus 002 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root
 Bus 001 Device 003: ID 22b8:2e76 Motorola PCS
 Bus 001 Device 002: ID 8087:0024 Intel Corp. Integrated Rat
 Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root
   ; 004 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root
Shares; 003 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root
   ns like a bunch of gibberish, eh? You want the line that represents your
   e. If you're in doubt, try unplugging your phone and running the command
   1:
 5
    .susb
Rep.; 002 Device 002: ID 8087:0024 Intel Corp. Integrated Rat
    ; 002 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root
   ; 001 Device 002: ID 8087:0024 Intel Corp. Integrated Rat
   ; 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root
3.0 root perice 001: ID 1d6b:0003 Linux Foundation 3.0
    ; 003 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root
```

You'll see that after removing the phone, the "Motorola PCS" disappeared from the list. This is the one that we care about!

Bus 001 Device 003: ID 22b8:2e76 Motorola PCS

From thabove line, you want to grab the first four digits from the device ID:

22b8:2e76

In this case, it's 22b8. That's the identifier for Motorola.

You'll need to input this into your udev rules in order to get up and running.

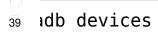
So, fire up your favorite text editor. For me it's vim:

• sudo vim /etc/udev/rules.d/51-android.rules

And add the following line to the file:

SUBSYSTEM=="usb", ATTR{idVendor}=="22b8", MODE="0666", GROU

check that your device is properly connecting to ADB, the Android Debug Shares |e, by using adb devices.

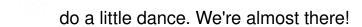


;t of devices attached

∍)300GLMK device



should see it as shown above.





nning the Project

now that we have a starter project waiting for us, we'll need to run the code.

In one terminal:

- cd AwesomeProject
- react-native start

In a second terminal:

- cd AwesomeProject
- react-native run-android

Did it fail?

OK, try this:

• adb reverse tcp:8081 tcp:8081

Still failing?

Leave a comment below or ping me on the Reactiflux Discord server and I'll help you out.

it succeed? 54 Shares ET! Celebrate and then let's move on to the grand finale: 39)pen index.android.js in your text editor

- hange "Welcome to React Native" to "Welcome to React Native on Android" ress the menu button (F2 by default, or %-M in Genymotion) and select leload JS to see your change!
 - lun adb logcat *:S ReactNative:V ReactNativeJS:V in a terminal
) see your app's logs
 - s a doozy, but we did it!
 - this helpful? If so, don't miss my next post by joining the mailing list using the pelow:

et weekly tips to become a React Native Pro

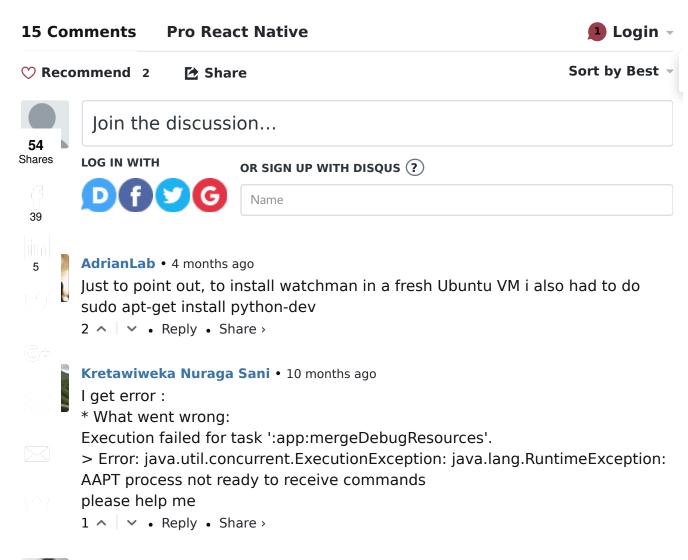
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Written on February 3, 2016

David Kay writes about keeping you productive in React Native.

Over the years, he's developed over a dozen successful native apps.

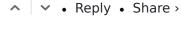
If you found this article helpful, join his weekly newsletter.





pallav • 3 months ago

Hi, Thank you so much for the tutorial. I cannot tell you how much I thanked you in my heart while following your steps. I am able to launch the app but I cannot see any text on the app. Is there a way to fix this? I am using Ubuntu 14.04 with node -v7.10.1 and npm 4.6.1 and Android 5 (Xiaomi). I am able to launch the app using Expo but not with native code. Where am I going wrong?



Spartacus Gupta • a year ago

Android Debug Bridge version 1.0.31

I am frustrated now, spent almost 3 days on this. command adb reverse tcp:8081 tcp 8081

never work for me I want live reloading but using usb connection please help me

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