

Tutorial for setup vs-code environment to debug react-native

1. Install VS-Code
2. Install React-Native-Cli globally on your computer:

```
# npm install react-native-cli -g
```

3. Install Android Studio & Android SDK

Following the link: <https://reactnative.cn/docs/getting-started.html>

4. Create project by react-native-cli

```
# react-native init <project-name>
```

5. Add proxy for gradle

Replace the “xxxx” to your VPN information.

```
systemProp.http.proxyPort=xxxx  
systemProp.http.proxyUser=xxxx  
systemProp.http.proxyHost=xxxx  
systemProp.http.proxyPassword=xxxx  
systemProp.https.proxyPort=xxxx  
systemProp.https.proxyUser=xxxx  
systemProp.https.proxyHost=xxxx  
systemProp.https.proxyPassword=xxxx
```

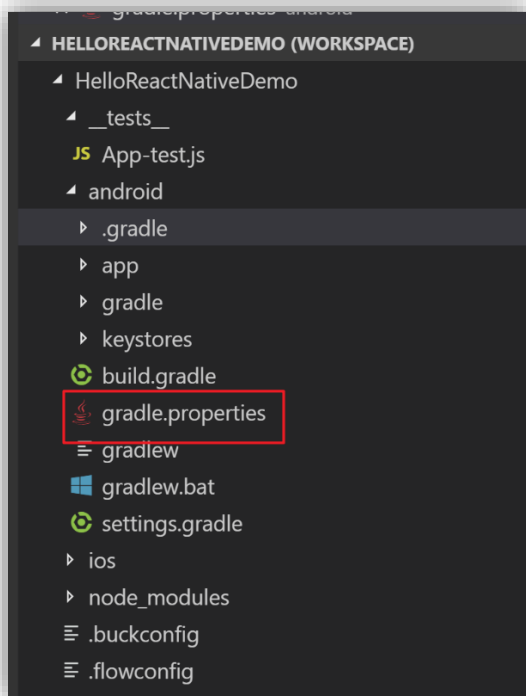


Figure 1 The gradle.properties

```

1  # Project-wide Gradle settings.
2
3  # IDE (e.g. Android Studio) users:
4  # Gradle settings configured through the IDE *will override*
5  # any settings specified in this file.
6
7  # For more details on how to configure your build environment visit
8  # http://www.gradle.org/docs/current/userguide/build_environment.html
9
10 # Specifies the JVM arguments used for the daemon process.
11 # The setting is particularly useful for tweaking memory settings.
12 # Default value: -Xmx1024m -XX:MaxPermSize=256m
13 # org.gradle.jvmargs=-Xmx2048m -XX:MaxPermSize=512m -XX:+HeapDumpOnOutOfMemoryError -Dfi
14
15 # When configured, Gradle will run in incubating parallel mode.
16 # This option should only be used with decoupled projects. More details, visit
17 # http://www.gradle.org/docs/current/userguide/multi_project_builds.html#sec:decoupled_p
18 # org.gradle.parallel=true
19 systemProp.http.proxyPort=80
20 systemProp.http.proxyUser=gradle
21 systemProp.http.proxyHost=proxy
22 systemProp.http.proxyPassword=gradle
23 systemProp.https.proxyPort=80
24 systemProp.https.proxyUser=gradle
25 systemProp.https.proxyHost=proxy
26 systemProp.https.proxyPassword=gradle

```

Figure 2 Edit the content of "gradle.properties"

6. If you met the red-screen error "unable to load script from assets index.android.bundle", when you run the project in simulated device.

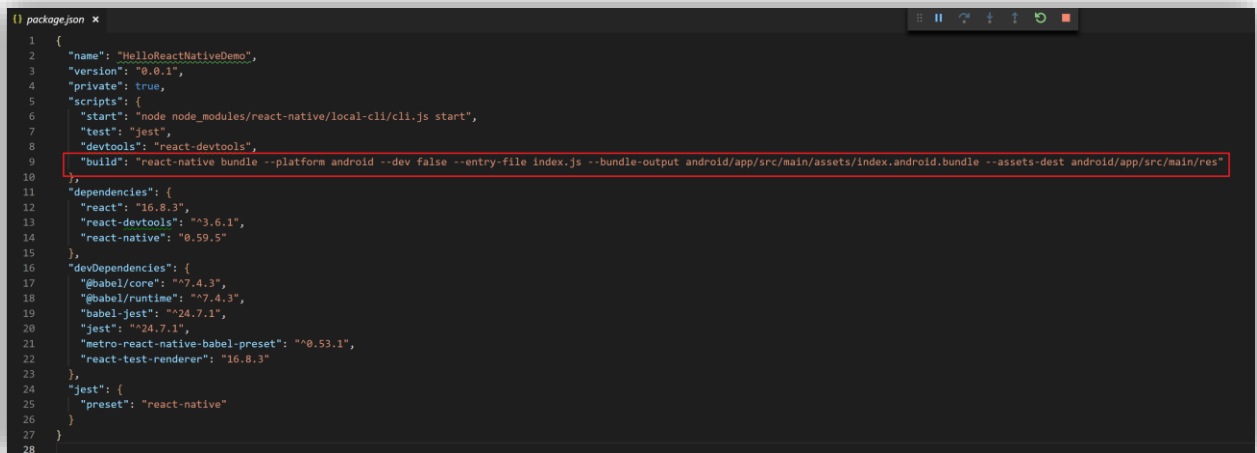
Please follow this link to resolve this issue:

<https://stackoverflow.com/questions/54975709/unable-to-load-script-from-assets-index-android-bundle-react-native>

- 1) Create the "assets" folder under "android/app/src/main"
- 2) run this command


```
# react-native bundle --platform android --dev false --entry-file index.js --bundle-output android/app/src/main/assets/index.android.bundle --assets-dest android/app/src/main/res
```
- 3) Add "build" command to the "package.json", can run this script every time you rebuild the project.


```
"build": "react-native bundle --platform android --dev false --entry-file index.js --bundle-output android/app/src/main/assets/index.android.bundle --assets-dest android/app/src/main/res"
```



```
1 {
2   "name": "HelloReactNativeDemo",
3   "version": "0.0.1",
4   "private": true,
5   "scripts": {
6     "start": "node node_modules/react-native/local-cli/cli.js start",
7     "test": "jest",
8     "devtools": "react-devtools",
9     "build": "react-native bundle --platform android --dev false --entry-file index.js --bundle-output android/app/src/main/assets/index.android.bundle --assets-dest android/app/src/main/res"
10  },
11  "dependencies": {
12    "react": "16.8.3",
13    "react-devtools": "^3.6.1",
14    "react-native": "0.59.5"
15  },
16  "devDependencies": {
17    "@babel/core": "^7.4.3",
18    "@babel/runtime": "^7.4.3",
19    "babel-jest": "^24.7.1",
20    "jest": "^24.7.1",
21    "metro-react-native-babel-preset": "^0.53.1",
22    "react-test-renderer": "16.8.3"
23  },
24  "jest": {
25    "preset": "react-native"
26  }
27 }
```

Figure 3 Add build command for build the project

7. Install Ract-Native Tools in VsCode

- 1) Press F1 in VSCode
- 2) Type "launch" in the command text-box.
- 3) Click "Add Configuration" button in the right-bottom.
- 4) Select "React-Native", then the React-Native Tools extension will add default settings for you.

8. Change the default port for React-Native, if you need. When you install McFee, the original default port which is 8081 will be occupied by Mcfee.

- 1) Press F1 to open command mode.
- 2) Type "settings" in the command text-box.
- 3) Select "Preferences: Open User Settings"

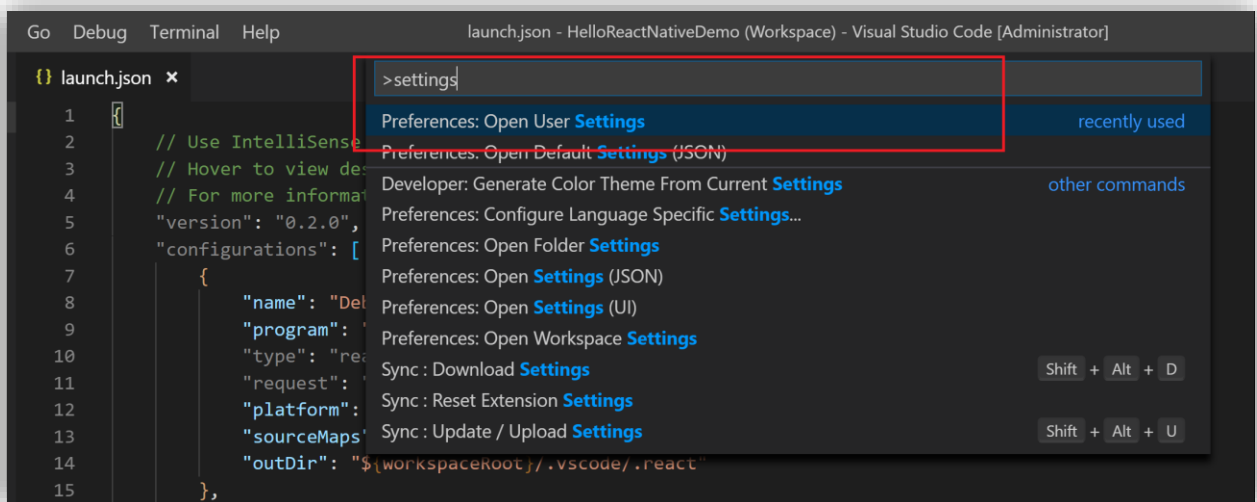


Figure 4 Open Settings View

- 4) Select Extensions in the settings view, then select "React-Native".
- 5) Then find the Packager-Port in the content-view, and modify it to your port.

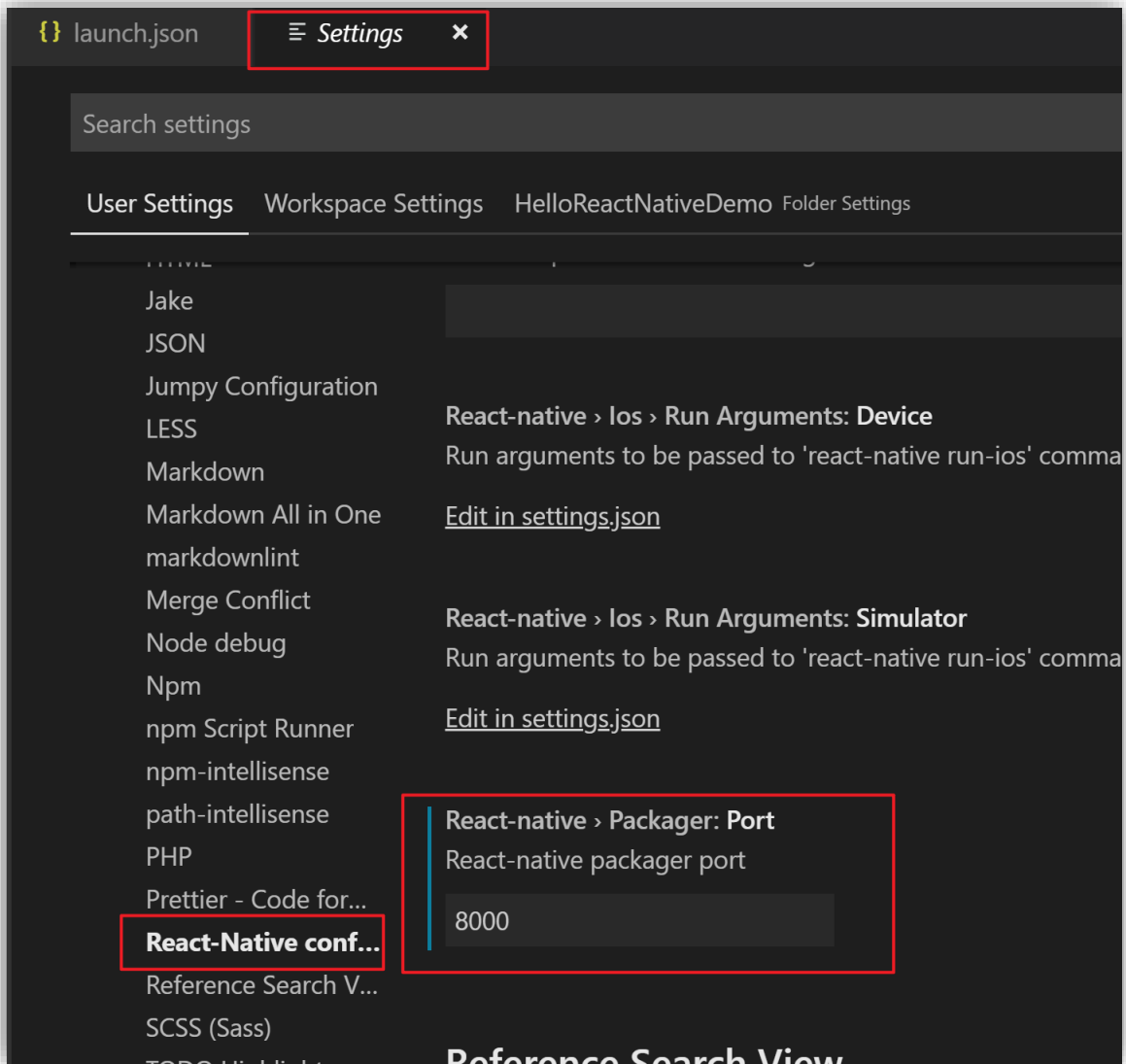


Figure 5 Set default port for React-Native

9. Debug for Android, we don't have ios, so use android as an example.

- 1) Open Android Studio, and run simulate device. Please follow the first link to create the simulate device.
- 2) Open your project in VSCode, and press "F5" to run your project. After a while, the project will be started in the simulate device.
- 3) Press "**ctrl+M**" in your device
 - Select "Dev Settings"
 - Then select "Debug server host & port for device" in the prompt out dialog.
 - Input 127.0.0.1:<customized Port>. In my case, I set it as 8000 in 8-5), so I put it as "127.0.0.1:8000"

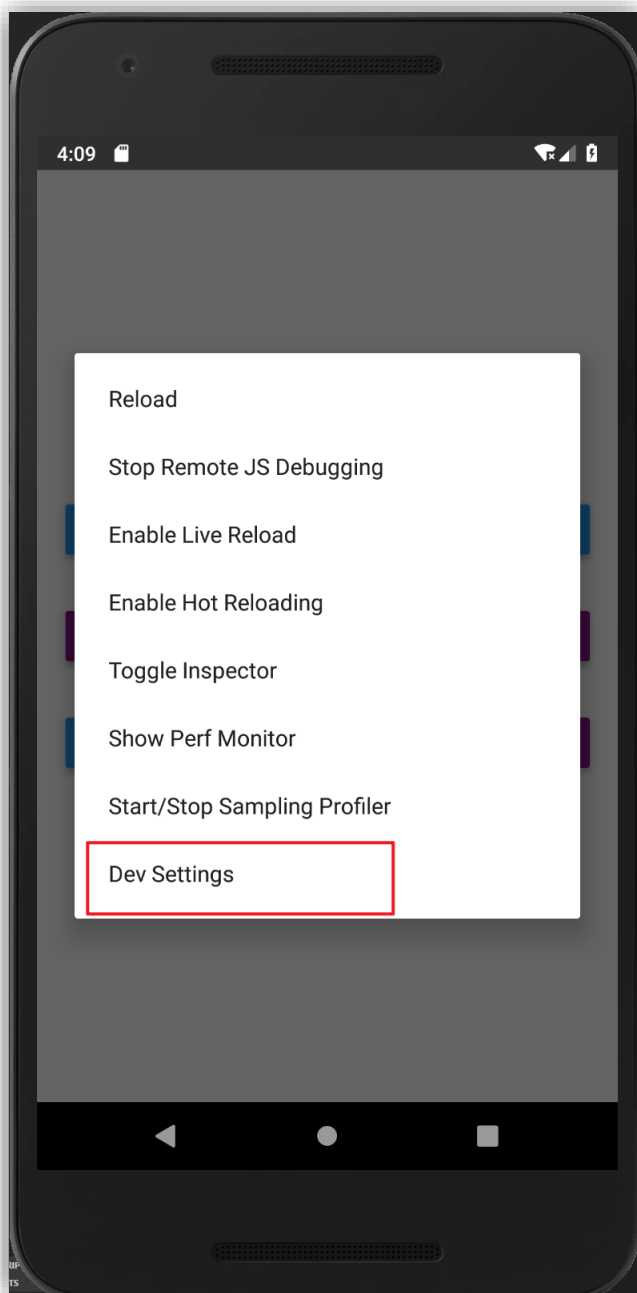


Figure 6 Get Dev-Settings

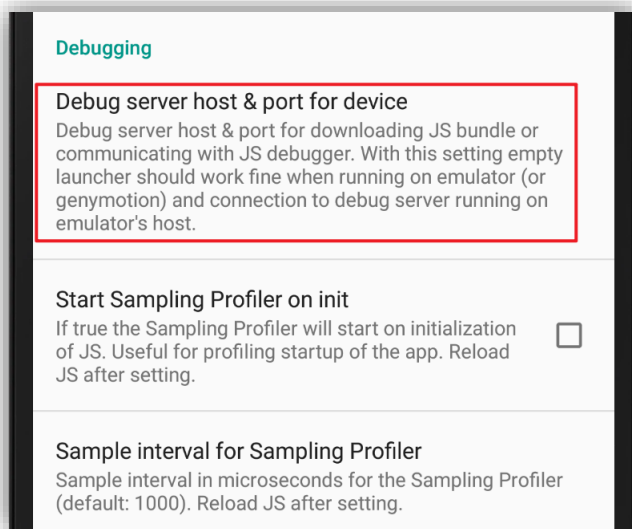


Figure 7 Select Settings Option

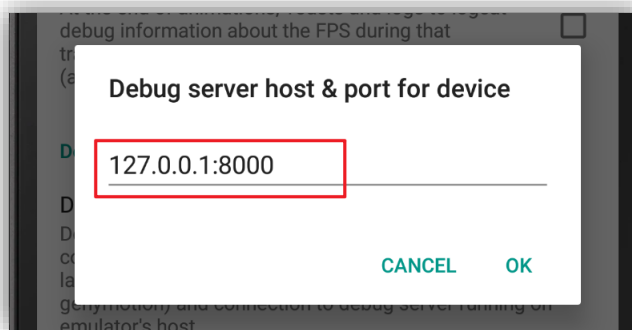


Figure 8 Input your information

10. Then when you click on the device, you can get the break-point in VSCode.