

Install node

Follow <https://nodejs.org/en/download/package-manager/> link to install Node

The React native Cli

Run the following command in Command prompt or shell

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

JDK

React Native requires a recent version of the Java SE Development Kit (JDK)

<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

Android development environment

Install Android Studio

<https://developer.android.com/studio/index.html>

Android SDK

Android Studio installs the latest Android SDK by default. Building a React Native app with native code, however, requires the **Android 6.0 (Marshmallow)** SDK in particular.

The SDK Manager can be accessed from the "Welcome to Android Studio" screen. Click on "Configure", then select "SDK Manager".

Select the "SDK Platforms" tab from within the SDK Manager, then check the box next to "Show Package Details" in the bottom right corner. Look for and expand the Android 6.0 (Marshmallow) entry, then make sure the following items are all checked:

- Google APIs
- Android SDK Platform 23
- Intel x86 Atom_64 System Image
- Google APIs Intel x86 Atom_64 System Image

Next, select the "SDK Tools" tab and check the box next to "Show Package Details" here as well. Look for and expand the "Android SDK Build-Tools" entry, then make sure that **23.0.1** is selected.

Finally, click "Apply" to download and install the Android SDK and related build tools.

Create an Application

`react-native init Calculator`

Configure the `ANDROID_HOME` environment variable

Go to your React native Project -> android

Create a file `local.properties`

Open the file paste your Android SDK path like below

`sdk.dir=/home/ranosys/Android/Sdk`

Run your App

Running your app in Android Device

- 1.Enable Debugging over USB
- 2.Plug in your device via USB

Now check that your device is properly connecting to ADB, the Android Debug Bridge, by running `adb devices`

`cd Calculator`

`react-native run-android`

If it show error "**Could not connect**", then again hit `react-native run-android` command.

Now App will run in your Android device and `app-debug.apk` file is generated.

Location : `/home/ranosys/Calculator/android/app/build/outputs`

*Open `App.js` in your text editor of choice and edit some lines.

Useful Link : <https://facebook.github.io/react-native/docs/getting-started.html>

Generating Signed APK in React Native

Generating Signing Key

`keytool -genkey -v -keystore my-release-key.keystore -alias my-key-alias -keyalg RSA -keysize 2048 -validity 10000`

Enter keystore password: *****

Re-enter new password: *****

What is your first and last name?

[Unknown]: Jitendra Chandwani

What is the name of your organizational unit?

[Unknown]:
What is the name of your organization?
[Unknown]:
What is the name of your City or Locality?
[Unknown]:
What is the name of your State or Province?
[Unknown]:
What is the two-letter country code for this unit?
[Unknown]:
Is CN=Jitendra Chandwani, OU=Unknown, O=Unknown, L=Unknown, ST=Unknown, C=Unknown correct?
[no]: yes

It then generates the keystore as a file called **my-release-key.keystore**.
Enter key password for <my-key-alias>
(RETURN if same as keystore password): *****
Re-enter new password: *****
[Storing **my-release-key.keystore**]

Setting up Gradle variable

Copy the **my-release-key.keystore** file under the **project/android/app/**
Edit **android/gradle.properties** and add

```
MYAPP_RELEASE_STORE_FILE=my-release-key.keystore  
MYAPP_RELEASE_KEY_ALIAS=my-key-alias  
MYAPP_RELEASE_STORE_PASSWORD= ***** //(keystore password)  
MYAPP_RELEASE_KEY_PASSWORD=***** //(key alias password)
```

Edit the file **project/android/app/build.gradle** and add the signing config,

```
...  
android {  
    ...  
    defaultConfig { ... }  
    signingConfigs {  
        release {  
            if (project.hasProperty('MYAPP_RELEASE_STORE_FILE')) {  
                storeFile file(MYAPP_RELEASE_STORE_FILE)  
                storePassword MYAPP_RELEASE_STORE_PASSWORD  
                keyAlias MYAPP_RELEASE_KEY_ALIAS  
                keyPassword MYAPP_RELEASE_KEY_PASSWORD  
            }  
        }  
    }  
    buildTypes {  
        release {
```

```
...
    signingConfig signingConfigs.release
}
}
}
```

**Update only Red highlight

Generating Release APK

`cd android && ./gradlew assembleRelease`

The generated APK can be found under `android/app/build/outputs/apk/app-release.apk`

Testing the release build of your app

`react-native run-android --variant=release`

Link: <https://facebook.github.io/react-native/docs/signed-apk-android.html>