# **React-Native Environment & Setting Setup**

# **Setting up the development environment Using React Native CLI**

**Development OS**

1. **macOS, Windows, Linux**
   1. **macOS => IOS =>**

### **Node & Watchman**

Node.js is an open-source, cross-platform, back-end JavaScript runtime environment that runs on the V8 engine and executes JavaScript code outside a web browser.

**brew install node**

[Watchman](https://facebook.github.io/watchman) is a tool by Facebook for watching changes in the filesystem

Run the following commands in a Terminal

**brew install watchman**

* + 1. **Xcode**

Xcode is Apple's integrated development environment for macOS, used to develop software for macOS, iOS, iPadOS, watchOS.

* + - 1. **install Xcode is via the** [**Mac App Store**](https://itunes.apple.com/us/app/xcode/id497799835?mt=12)

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#### **Command Line Tools**

Open Xcode, then choose "Preferences..." from the Xcode menu. Go to the Locations panel and install the tools by selecting the most recent version in the Command Line Tools dropdown.

#### **Installing an iOS Simulator in Xcode**

To install a simulator, open Xcode > Preferences... and select the Components tab. Select a simulator with the corresponding version of iOS you wish to use.

#### **CocoaPods**

[CocoaPods](https://cocoapods.org/) is built with Ruby and it will be installable with the default Ruby available on macOS

Run the following commands in a Terminal

**sudo gem install cocoapods**

### **React Native Command Line Interface**

React Native has a built-in command line interface. Rather than install and manage a specific version of the CLI globally, we recommend you access the current version at runtime using npx, which ships with Node.js. With npx react-native <command>, the current stable version of the CLI will be downloaded and executed at the time the command is run.

## **Creating a new application**

Use React Native's built-in CLI to create new project

**npx react-native init AwesomeProject**

## **Running your React Native application**

To start Metro/react server

**npx react-native start**

**Start your application**

**npx react-native run-ios**

* 1. **macOS => Android =>**

### **Node & Watchman =**

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### **Java Development Kit**

Run the following commands in a Terminal after installing JDK

**brew install --cask adoptopenjdk/openjdk/adoptopenjdk8**

### **Install Android Studio**

Android Studio is the official integrated development environment for Google's Android operating system, built on JetBrains' IntelliJ IDEA software and designed specifically for Android developmen

**https://developer.android.com/studio/index.html**

#### **Install the Android SDK**

Android Studio installs the latest Android SDK by default. The SDK Manager can also be found within the Android Studio "Preferences" dialog, under Appearance & Behavior → System Settings → Android SDK.

## **Creating a new application**

use React Native's built-in CLI to create new project

**npx react-native init AwesomeProject**

## **Running your React Native application**

To start Metro/react server

**npx react-native start**

**Start your application**

**npx react-native run-android**

* 1. **Windows => Android => =>**

You will need Node, the React Native command line interface, a JDK, and Android Studio

* + 1. **Node & JSK**

We recommend installing Node via [Chocolatey](https://chocolatey.org/), a popular package manager for Windows.

React Native also requires [Java SE Development Kit (JDK)](https://openjdk.java.net/projects/jdk8/), which can be installed using Chocolatey as well.

**choco install -y nodejs.install openjdk8**

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**https://developer.android.com/studio/index.html**

#### **Install the Android SDK**

Android Studio installs the latest Android SDK by default. Building a React Native app with native code, however, requires the Android 10 (Q) SDK in particular.

To do that, open Android Studio, click on "Configure" button and select "SDK Manager".

The SDK Manager can also be found within the Android Studio "Preferences" dialog, under Appearance & Behavior → System Settings → Android SDK.

## **Creating a new application**

use React Native's built-in CLI to create new project

**npx react-native init AwesomeProject**

## **Running your React Native application**

To start Metro/react server

**npx react-native start**

**Start your application**

**npx react-native run-android**