

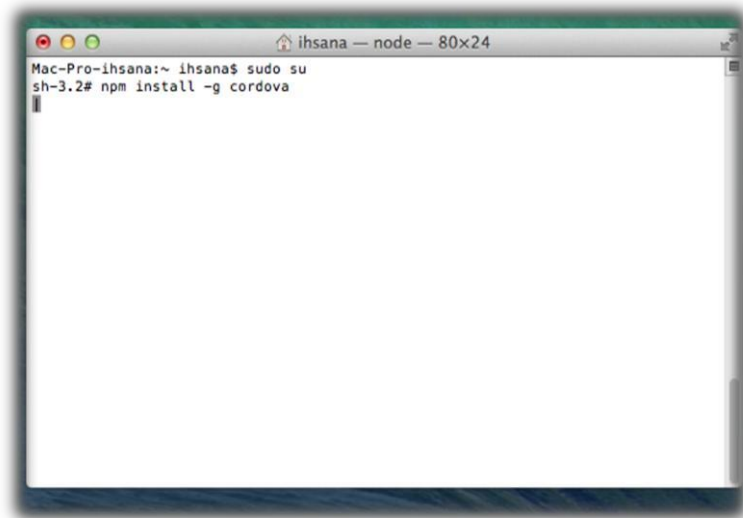
## Install Cordova

1. Connect your Mac to the Internet
2. Run a terminal with root access, it will ask to enter your password mac-osx.

```
$ sudo su
```

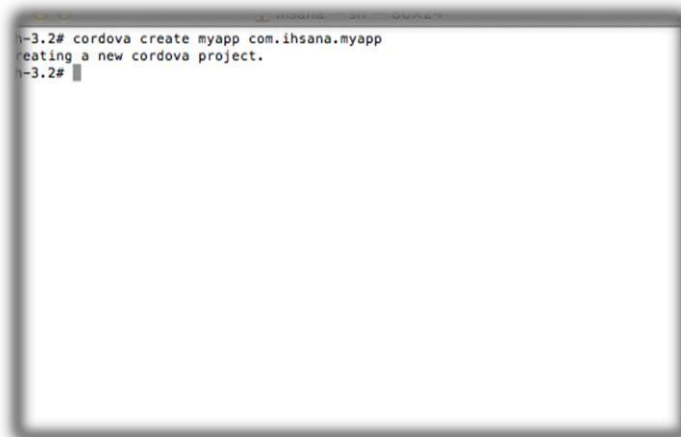
3. Then install cordova

```
$ npm install -g cordova
```



4. Please wait until finish
5. Then we try to create a project

```
$ cordova create myapp com.ihsana.myapp
```



6. Next go to the project directory

```
$ cd myapp
```

```
sh-3.2# cordova create myapp com.ihsana.myapp
Creating a new cordova project.
sh-3.2# cd myapp
sh-3.2#
```

7. Next we add the example for the Android platform

`$ cordova platform add android`

```
sh-3.2# cordova platform add android
Adding android project...
Creating Cordova project for the Android platform:
  Path: platforms/android
  Package: com.ihsana.myapp
  Name: HelloCordova
  Activity: MainActivity
  Android target: android-23
Android project created with cordova-android@5.1.1
Discovered plugin "cordova-plugin-whitelist" in config.xml. Adding it to the project
Fetching plugin "cordova-plugin-whitelist@1" via npm
Installing "cordova-plugin-whitelist" for android

  This plugin is only applicable for versions of cordova-android greater than 4.0. If you have a previous platform version, you do *not* need this plugin since the whitelist will be built in.

sh-3.2#
```

8. Sekarang kita memeriksa apa saja yang dibutuhkan cordova untuk android

`$ cordova requirements`

```
sh-3.2# cordova requirements

  This plugin is only applicable for versions of cordova-android greater than 4.0. If you have a previous platform version, you do *not* need this plugin since the whitelist will be built in.

Requirements check results for android:
Java JDK: not installed
Failed to find 'JAVA_HOME' environment variable. Try setting setting it manually
Android SDK: not installed
Failed to find 'ANDROID_HOME' environment variable. Try setting setting it manually.
Failed to find 'android' command in your 'PATH'. Try update your 'PATH' to include path to valid SDK directory.
Android target: not installed
Android SDK not found. Make sure that it is installed. If it is not at the default location, set the ANDROID_HOME environment variable.
Gradle: not installed
could not find gradle wrapper within Android SDK. Could not find Android SDK directory.
Might need to install Android SDK or set up 'ANDROID_HOME' env variable.
Error: Some of requirements check failed
sh-3.2#
```

In the above message we know that we have to install some programs are needed. Among them are: Java JDK and the Android SDK

9. Install Java JDK, you can download on the official website:

<http://www.oracle.com/technetwork/java/javase/downloads/index.html>, using safari download and install.



Product / File Description	File Size	Download
linux x86	160.26 MB	jdk-8u92-linux-i586.rpm
linux x86	174.94 MB	jdk-8u92-linux-i586.tar.gz
linux x64	158.27 MB	jdk-8u92-linux-x64.rpm
linux x64	172.99 MB	jdk-8u92-linux-x64.tar.gz
Mac OS X	227.32 MB	jdk-8u92-macosx-x64.dmg
solaris SPARC 64-bit (SVR4 package)	139.47 MB	jdk-8u92-solaris-sparcv9.tar.Z
solaris SPARC 64-bit	98.93 MB	jdk-8u92-solaris-sparcv9.tar.gz
solaris x64 (SVR4 package)	140.35 MB	jdk-8u92-solaris-x64.tar.Z
solaris x64	96.76 MB	jdk-8u92-solaris-x64.tar.gz
Windows x86	188.43 MB	jdk-8u92-windows-i586.exe
Windows x64	193.66 MB	jdk-8u92-windows-x64.exe



To check the java folder type

```
$ which java
```

For insert enviroent like this command:

```
sh-3.2# export ANDROID_HOME=/Users/YourName/Desktop/android-sdk-macosx
sh-3.2# export PATH=${PATH}:$ANDROID_HOME/tools:$ANDROID_HOME/platform-tools
```

10. Installing android SDK or Android Studio, can be downloaded from the official website:

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



	android-studio-ide-143.2915827-windows.zip	293 MB (307686999 bytes)	2aa610308b23ee938dbd1f82167
Mac OS X	android-studio-ide-143.2915827-mac.dmg	291 MB (305671838 bytes)	689889cd434cb883b3fbd61faa
Linux	android-studio-ide-143.2915827-linux.zip	291 MB (305181285 bytes)	d34c75ae2ca1cf472e21eb5301f

11. After the Install check that the required programs have all been in the Install

`$ cordova requirements`

12. If all has been fulfilled, we try to add a plugin is needed:

`$ cordova plugin add cordova-plugin-device`

`$ cordova plugin add cordova-plugin-console`

`$ cordova plugin add cordova-plugin-splashscreen`

`$ cordova plugin add cordova-plugin-statusbar`

`$ cordova plugin add cordova-plugin-inappbrowser`

`$ cordova plugin add cordova-plugin-admobpro`

13. Copy all the folders on the output ionic www to www app builder cordova project, to locate the folder type:

`$ pwd`

14. Lastly make apk, type:

`$ cordova build android`

APK will create in the folder:

`platforms\android\build\outputs\apk`