1. npm install -g cordova ionic

2. ionic start myApp **tabs** --v2

-ionic start MyIonic2Project tutorial

1.start will tell the CLI create a new app.

2.MyIonic2Project will be the directory name and the app name from your project.

3.tutorial will be the starter template for your project.

4.--v2 tells the CLI that you want a 2.0 project.

-**Ionic has a few templates available**:

1. **tabs** : a simple 3 tab layout

2. **sidemenu**: a layout with a swipable menu on the side

3.**blank**: a bare starter with a single page

4.**super**: starter project with over 14 ready to use page designs

5.**tutorial**: a guided starter project

3**.ionic platform add android ios windows**

4.**Viewing the app in a browser**

-ionic serve

-ionic serve -l

5.**To run or build your app for production, run**

**-ionic run android --prod --release**

# or

-ionic build android --prod --release

**6.Ionic now provides a generator function to create pages and services for your app.**

**(**[**https://ionicframework.com/docs/cli/generate/**](https://ionicframework.com/docs/cli/generate/)**)**

**Page - ionic g page myPag**e

**Service - ionic g provider MyData**

<http://jayantpaliwal.com/2016/11/get-and-set-data-in-localstorage-in-ionic-2-app/>

Run this the second time to transfer to folder

$ ionic resources — splash

$ ionic resources — icon

Ref:

[**http://blog.ionic.io/10-minutes-with-ionic-2-hello-world/**](http://blog.ionic.io/10-minutes-with-ionic-2-hello-world/)

[**https://www.pluralsight.com/blog/software-development/ionic-framework-on-mac-and-windows**](https://www.pluralsight.com/blog/software-development/ionic-framework-on-mac-and-windows)

**Main Site =** [**http://ionicframework.com/docs**](http://ionicframework.com/docs)

**IONIC INSTALLATION ON WINDOWS =**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* IONIC 2 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**IONIC 2 Native --->** http://ionicframework.com/docs/v2/native/

**blog.ionic --->** http://blog.ionic.io/what-is-a-progressive-web-app/

https://scotch.io/tutorials/build-a-mobile-app-with-angular-2-and-ionic-2

**typescriptlang --->**https://www.typescriptlang.org/#download-links

-----

Ionic is built on top of AngularJS and Apache Cordova you will **need to have basic knowledge about these technologies. You also need to be familiar with**

{

**HTML5=** https://www.w3schools.com/html/default.asp

**CSS3 =** https://www.w3schools.com/css/default.asp

**JavaScript =** https://www.w3schools.com/js/default.asp

**AngularJS 1&2 =** https://www.w3schools.com/angular/default.asp

**Ionic 1&2:=** https://ionicframework.com/docs/v2/intro/tutorial/

}

**Download :**

**1. Install Apache Ant**  (apache: - http://ant.apache.org/bindownload.cgi)

**2. Install nodeJS** (https://nodejs.org/en/)

**3. Install Ionic && Cordova**  (From Command prompt) npm install -g ionic@latest

**4. Install Java JDK**

**5.Installed git =** [**https://github.com/git-for-windows/git/releases/download/v2.12.2.windows.2/Git-2.12.2.2-64-bit.exe**](https://github.com/git-for-windows/git/releases/download/v2.12.2.windows.2/Git-2.12.2.2-64-bit.exe)

[**http://www.tutorialspoint.com/android/android\_environment\_setup.htm**](http://www.tutorialspoint.com/android/android_environment_setup.htm)

**5. Install Android SDK** [**http://www.tutorialspoint.com/android/android\_environment\_setup.htm**](http://www.tutorialspoint.com/android/android_environment_setup.htm)

**6. Create, Test, and Delete a demo Ionic application**

**7. Let’s create our own application**

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**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

* *http://engineertoengineers.blogspot.in/2015/01/ionic-installation-on-windows.html*
* http://@.com/docs/intro/tutorial/
* https://coursetro.com/courses/11/Getting-Started-with-Ionic-2-for-Beginners

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*START IONIC 2 Installation process in window\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

- installed nodeJs from =https://nodejs.org/en/

-open node js {command prompt,node cmd}

-type node -v

-type nmp -v

-installed Ionic and Cordova = {npm install -g ionic cordova} =g for gloab installation for the system.

-type - ionic

-type - cordova

-Create IONIC2 Project = -{ ionic start ProjectName blank --v2 }

{

start will tell the CLI create a new app,MyIonic2Project will be the directory name and the app name from your project,tutorial will be the starter template for your project.  
--v2 tells the CLI that you want a 2.0 project.

}

- goto ionic project dir { cd ProjectName/ }

-view in browser { ionic serve }

-view in mobile view with browser { ionic serve -l }

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*END IONIC 2 Installation process in window \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**ANDROID HOME PATH =** E:\LatestAndroidVersion\androidsdk\_old;E:\LatestAndroidVersion\androidsdk\_old\platforms;E:\LatestAndroidVersion\androidsdk\_old\platform-tools;E:\LatestAndroidVersion\androidsdk\_old\tools;

**JDK + ANDROID +NODE JS+ Apache PATH SET UP =**

C:\Program Files\nodejs;C:\ProgramFiles\nodejs\node\_modules\npm;E:\LatestAndroidVersion\androidsdk\_old;E:\LatestAndroidVersion\androidsdk\_old\platforms;E:\LatestAndroidVersion\androidsdk\_old\platform-tools;E:\LatestAndroidVersion\androidsdk\_old\tools;E:\LatestAndroidVersion\androidsdk\_old\platforms\android-21;E:\LatestAndroidVersion\androidsdk\_old\platforms;E:\LatestAndroidVersion\androidsdk\_old\platform-tools;C:\ProgramFiles\Java\jdk1.8.0\_91\bin;E:\LatestAndroidVersion\androidsdk\_old\tools;C:\apache-ant-1.10.0\bin;C:\ProgramFiles\nodejs;E:\LatestAndroidVersion\androidsdk\_old\system-images;

**NPM INSTALL =**<https://docs.npmjs.com/getting-started/installing-node>.

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Error Info\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**E:>ionic start mobileapp blank --v2**

**Creating an Ionic 2.x app in E:\mobileapp based on the blank template.**

**Downloading:** [**https://github.com/driftyco/ionic2-app-base/archive/master.zip**](https://github.com/driftyco/ionic2-app-base/archive/master.zip)

**Downloading:** [**https://github.com/driftyco/ionic2-starter-blank/archive/master.zip**](https://github.com/driftyco/ionic2-starter-blank/archive/master.zip)

**Installing npm packages (may take a minute or two)...**

***Error with start undefined***

***Error Initializing app: There was an error with the spawned command: npminstall***

***There was an error with the spawned command: npminstall***

**Solution :https://github.com/driftyco/ionic/issues/10506**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Error Info\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*START IONIC 2 Installation process in window 10:\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**- installed nodeJs from =https://nodejs.org/en/**

**-open node js command prompt**

**-type node -v**

**-type nmp -v**

**-installed Ionic and Cordova = {npm installed -g ionic cordova} =g for gloab installation for the system.**

**-type - ionic**

**-type - cordova**

**-Create IONIC2 Project = -{ionic start ProjectName blank --v2 }**

{

start will tell the CLI create a new app.MyIonic2Project will be the directory name and the app name from your project.tutorial will be the starter template for your project.--v2 tells the CLI that you want a 2.0 project.

}

- goto ionic project dir {cd ProjectName/}

-view in browser {ionic serve}

-view in mobile view with browser {ionic serve -l}

http://localhost:8100/ionic-lab

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*END IONIC 2 Installation process in window 10:\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Create New IONIC 2 Project in windows**

**C:\Users\Android>node -v**

**v7.8.0**

**C:\Users\Android>npm install -g cordova**

**C:\Users\Android>npm install -g ionic**

**C:\ionic>ionic start Project\_Name blank --v2 --skip -npm**

**C:\ionic>cd Project\_Name**

**C:\ionic\Project\_Name>npm install -g cnpm --registry=**[**https://registry.npm.taobao.org**](https://registry.npm.taobao.org/)

**C:\ionic\Project\_Name >ionic platform add android**

**To run or build your app for production, run**

**ionic run android --prod --release  
*# or*  
ionic build android --prod --release**

|  |  |
| --- | --- |
| down vote | **Use below command for uninstall ionic and corova**  **uninstall :**  sudo npm uninstall -g cordova  sudo npm uninstall -g ionic  **IOS install :**  sudo npm install -g cordova  **Cccordova**:-  https://cordova.apache.org/docs/en/2.9.0/guide/cli/  dvgdfgdfgdfgdf |

**Set PATH**

**Need To Download Software for ionic on windows os**

**-**[**http://www.tiagoporto.com/blog/environment-setting-tutorial-ionic-android-on-windows/**](http://www.tiagoporto.com/blog/environment-setting-tutorial-ionic-android-on-windows/)

**-**[**https://www.pluralsight.com/blog/software-development/ionic-framework-on-mac-and-windows**](https://www.pluralsight.com/blog/software-development/ionic-framework-on-mac-and-windows)

**Environment var**

1. \_JAVA\_OPTIONS

--Xmx512M

2.ANDROID\_HOME

E:\LatestAndroidVersion\androidsdk\_old

3.JAVA\_HOME

C:\Program Files\Java\jdk1.8.0\_91

4.PATH

C:\Users\Android\AppData\Roaming\npm

**System Var**

1.ANDROID\_HOME

E:\LatestAndroidVersion\androidsdk\_old

2.JAVA\_HOME

C:\Program Files\Java\jdk1.8.0\_91

3.PATH

%SystemRoot%\system32;%SystemRoot%;%SystemRoot%\System32\Wbem;C:\Windows\System32;C:\Program Files\nodejs\;%JAVA\_HOME%\bin;C:\apache-ant-1.10.0\bin;%ANDROID\_HOME%\tools;%ANDROID\_HOME%\platform-tools;C:\Program Files\Git\cmd;C:\Program Files\Git\mingw64\bin;C:\Program Files\Git\usr\bin

**NODE Js** = Download from https://nodejs.org/en/download/.

**Android SDK**=https://www.tutorialspoint.com/android/android\_studio.htm

-**Android - Environment Setup**

-Java JDK5 or later version

-Set-up Java Development Kit (JDK)

1.set PATH=C:\jdk1.8.0\_102\bin;%PATH%

2.set JAVA\_HOME=C:\jdk1.8.0\_102

**XCode**  =http://www.tutorialspoint.com/android/android\_environment\_setup.htm

cordova and Ionic =

**Apache =** Download at the link <http://ant.apache.org/bindownload.cgi>

1. npm install -g cordova ionic

2. ionic start myApp **tabs** --v2

-ionic start MyIonic2Project tutorial

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**(**[**https://ionicframework.com/docs/cli/generate/**](https://ionicframework.com/docs/cli/generate/)**)**

**Page - ionic g page myPag**e

**Service - ionic g provider MyData**

Example :

C:\IONIC2> ionic start cutePuppyPics tutorial --v2

C:\IONIC2>cd cutePuppyPics

C:\IONIC2\cutePuppyPics>cordova platforms add android

Error: Platform android already added.

C:\IONIC2\cutePuppyPics>ionic run android

## **Building for Android**

ionic platform add android

ionic build android

ionic run android

**Sign-and-deploy-the-unsigned-apk**

[**http://mehedi.info/2017/01/22/how-to-solve-sign-the-build-using-keystore-or-buildconfig-or-sign-and-deploy-the-unsigned-apk-manually-using-android-tools/**](http://mehedi.info/2017/01/22/how-to-solve-sign-the-build-using-keystore-or-buildconfig-or-sign-and-deploy-the-unsigned-apk-manually-using-android-tools/)

C:\Users\Android>cd\

**C:\>cd IONIC2**

**C:\IONIC2>cd IoSlideDemo**

**C:\IONIC2\IoSlideDemo>ionic run android**

Built the following apk(s):

C:/IONIC2/IoSlideDemo/platforms/android/build/outputs/apk/android-debug.apk

s

:transformClassesWithDexForDebug

:mergeDebugJniLibFolders

:transformNative\_libsWithMergeJniLibsForDebug

:processDebugJavaRes

UP-TO-DATE

:transformResourcesWithMergeJavaResForDebug

:validateSigningDebug

:packageDebug

:assembleDebug

:cdvBuildDebug

BUILD SUCCESSFUL

Total time: 1 mins 30.099 secs

Built the following apk(s):

C:/IONIC2/HelloWrold/platforms/android/build/outputs/apk/android-debug.apk

ANDROID\_HOME=E:\LatestAndroidVersion\androidsdk\_old

JAVA\_HOME=C:\Program Files\Java\jdk1.8.0\_91

No target specified, deploying to device '192.168.5.101:5555'.

Skipping build...

Built the following apk(s):

C:/IONIC2/HelloWrold/platforms/android/build/outputs/apk/android-debug.apk

Using apk: C:/IONIC2/HelloWrold/platforms/android/build/outputs/apk/android-debug.apk

Package name: com.ionicframework.hellowrold172374

LAUNCH SUCCESS

**C:\IONIC2\HelloWrold>ionic run android --prod --release**

Built the following apk(s):

**C:/IONIC2/HelloWrold/platforms/android/build/outputs/apk/android-release-unsigned.apk**

ANDROID\_HOME=E:\LatestAndroidVersion\androidsdk\_old

JAVA\_HOME=C:\Program Files\Java\jdk1.8.0\_91

**C:/IONIC2/HelloWrold/platforms/android/build/outputs/apk/android-release-unsigned.apk**

**Using apk: C:/IONIC2/HelloWrold/platforms/android/build/outputs/apk/android-release-unsigned.apk**

**Package name: com.ionicframework.hellowrold172374**

**Sign the build using** '-- **--keystore' or '--buildConfig' or sign and deploy the unsigned apk manually using Android tools.**

**C:\IONIC2\HelloWrold>keytool -genkey -v -keystore release.keystore -alias ALIAS -keyalg RSA -keysize 2048 -validity 10000**

Picked up \_JAVA\_OPTIONS: -Xmx512M

Enter keystore password:ionic@123

Keystore password is too short - must be at least 6 characters

Enter keystore password:ionic@123

Re-enter new password:ionic@123

What is your first and last name?

[Unknown]: hello

What is the name of your organizational unit?

[Unknown]: hellotest

What is the name of your organization?

[Unknown]: hello

What is the name of your City or Locality?

[Unknown]: ahmedabad

What is the name of your State or Province?

[Unknown]: gujarat

What is the two-letter country code for this unit?

[Unknown]: 91

Is CN=hello, OU=hellotest, O=hello, L=ahmedabad, ST=gujarat, C=91 correct?

[no]: +91

What is your first and last name?

[hello]: hello test

What is the name of your organizational unit?

[hellotest]: hello

What is the name of your organization?

[hello]: hello

What is the name of your City or Locality?

[ahmedabad]: ahmedabad

What is the name of your State or Province?

[gujarat]: gu

What is the two-letter country code for this unit?

[91]: 91

Is CN=hello test, OU=hello, O=hello, L=ahmedabad, ST=gu, C=91 correct?

[no]: yes

Generating 2,048 bit RSA key pair and self-signed certificate (SHA256withRSA) with a validity of 10,000 days

for: CN=hello test, OU=hello, O=hello, L=ahmedabad, ST=gu, C=91

Enter key password for <ALIAS>

(RETURN if same as keystore password):

Re-enter new password:ionic@123

**[Storing release.keystore]**

C:\IONIC2\HelloWrold>

IOS Deploy Process on MAC:

<https://github.com/phonegap/ios-deploy/issues/109>

<https://stackoverflow.com/questions/33812254/installing-cordova-cli-and-ionic>

<https://medium.com/@leetheguy/testing-an-ionic-1-app-on-ios-and-android-emulators-and-devices-b88a44cf5a3>