



JHIGMAN

OCTOBER 17, 2013

Setting up PhoneGap on Ubuntu for Android app development

This is just some notes I made, mostly taken from http://docs.phonegap.com/en/3.0.0/guide_overview_index.md.html.

I was installing PhoneGap 3.0.0 on Ubuntu 12.04.

I use Sublime Text 3 for development, so didn't want any of the Eclipse-based tools.

Environment

First, upgrade npm, and get the latest nodejs (by installing 'n' and running that):

```
npm update npm -g
sudo npm install n -g
sudo n stable
```

Now install phonegap itself

```
sudo npm install -g phonegap
```

Download the Android sdk from <http://developer.android.com/sdk/index.html>, put it somewhere sensible and unpack it:

```
sudo mv ~/Downloads/adt-bundle-linux-x86-20130917.zip /opt/
cd /opt
sudo unzip adt-bundle-linux-x86-20130917.zip
sudo chmod -R 777 /opt/adt-bundle-linux-x86-20130917
```

Update PATH in ~/.bashrc to include the phonegap tools:

```
# Add android sdk
PATH=$PATH:/opt/adt-bundle-linux-x86-20130917/sdk/platform-tools:/opt/adt-bundle-linux-x86-20130917/sdk/tools
```

and then 'source ~/.bashrc' to make sure you've got the new path setup.

Create an app

Create a phonegap app:

```
phonegap create my-app
cd my-app
```

Run the app

Run the app:

```
phonegap local run android
```

When I did this the first time, I got an error message:

```
[phonegap] adding the Android platform...  
[error] Please install Android target 17 (the Android 4.2 SDK). Make sure you have the latest Android tools installed as well.
```

So, run 'android', select a target (e.g. "Android 4.2.2 (API 17)"), and click the "Install 8 packages.." button

May have to repeat the "Install.." stage – different licences to be accepted on each pass for system images etc?

The run again

```
phonegap local run android
```

Nope, still didn't work – needed an emulator to be set up.

In the 'android' util, go to Tools -> Manage AVDs, use the "New" button to create a new AVD, then "Start.." the AVD.

First time, it failed with messages about not finding libGL.so. Second time, it started up the emulator..

Kill that one, run it again from the command line

```
phonegap local build android  
phonegap install android
```

Fires up the emulator, installs the app (you have to find it on the Home screen, probably called "Hello World"..

Deploy to the phone

The emulator seems to run very slowly, and not give much sense of what the app will actually be like on the phone.

So, deploy the app – plug in Android phone via USB, select "USB debugging" in the Developer section of the settings on the phone, and the app will be installed on the phone when you next do "phonegap install..."

Add some plugins to the project

Once you get going, add some plugins to the project:

```
phonegap local plugin add https://git-wip-us.apache.org/repos/asf/cordova-plugin-device.git  
phonegap local plugin add https://git-wip-us.apache.org/repos/asf/cordova-plugin-media.git
```

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10 Comments



Manuel Cepeda

February 20, 2014 at 6:48 pm

it works like a charm.

i have to install ant after a step with:

```
sudo apt-get -u install ant
```

everything else happen as you mention.

regards



Michael Calabrese

February 26, 2014 at 10:57 pm

Thank you for the great instructions! Very clean. I would add one thing. I had to install Apache ant. So I also had to do:

```
sudo aptitude install ant
```



jhigman

February 27, 2014 at 9:34 am

Many thanks Manuel and Michael for pointing out that Ant needs to be installed too.



mohamed hamdy

February 27, 2014 at 11:49 pm

Dears ,

when i write this command :`sudo npm install n -g`

it give me this error , so please advice

```
npm http GET https://registry.npmjs.org/n
```

```
npm ERR! Error: failed to fetch from registry: n
```

```
npm ERR! at /usr/share/npm/lib/utils/npm-registry-client/get.js:139:12
```

```
npm ERR! at cb (/usr/share/npm/lib/utils/npm-registry-client/request.js:31:9)
```

```
npm ERR! at Request._callback (/usr/share/npm/lib/utils/npm-registry-client/request.js:136:18)
```

```
npm ERR! at Request.callback (/usr/lib/nodejs/request/main.js:119:22)
```

```
npm ERR! at Request. (/usr/lib/nodejs/request/main.js:212:58)
```

```
npm ERR! at Request.emit (events.js:88:20)
```

```
npm ERR! at ClientRequest. (/usr/lib/nodejs/request/main.js:412:12)
```

```
npm ERR! at ClientRequest.emit (events.js:67:17)
```

```
npm ERR! at HTTPParser.onIncoming (http.js:1261:11)
```

```
npm ERR! at HTTPParser.onHeadersComplete (http.js:102:31)
```

```
npm ERR! You may report this log at:
```

```
npm ERR!
```

```
npm ERR! or use
```

```
npm ERR! reportbug --attach /home/hamdy/npm-debug.log npm
```

```
npm ERR!
```

```
npm ERR! System Linux 3.2.0-59-generic
```

```
npm ERR! command "node" "/usr/bin/npm" "install" "n" "-g"
```

```
npm ERR! cwd /home/hamdy
```

```
npm ERR! node -v v0.6.12
```

npm ERR! npm -v 1.1.4
npm ERR! message failed to fetch from registry: n
npm ERR!
npm ERR! Additional logging details can be found in:
npm ERR! /home/hamdy/npm-debug.log



Tejas Tank

March 3, 2014 at 2:37 pm

npm http GET <https://registry.npmjs.org/n>

npm ERR! Error: failed to fetch from registry: n
npm ERR! at /usr/share/npm/lib/utils/npm-registry-client/get.js:139:12
npm ERR! at cb (/usr/share/npm/lib/utils/npm-registry-client/request.js:31:9)
npm ERR! at Request._callback (/usr/share/npm/lib/utils/npm-registry-client/request.js:136:18)
npm ERR! at Request.callback (/usr/lib/nodejs/request/main.js:119:22)
npm ERR! at Request. (/usr/lib/nodejs/request/main.js:212:58)
npm ERR! at Request.emit (events.js:88:20)
npm ERR! at ClientRequest. (/usr/lib/nodejs/request/main.js:412:12)
npm ERR! at ClientRequest.emit (events.js:67:17)
npm ERR! at HTTPParser.onIncoming (http.js:1261:11)
npm ERR! at HTTPParser.onHeadersComplete (http.js:102:31)
npm ERR! You may report this log at:
npm ERR!
npm ERR! or use
npm ERR! reportbug -attach /home/devid/npm-debug.log npm
npm ERR!
npm ERR! System Linux 3.8.0-35-generic
npm ERR! command "node" "/usr/bin/npm" "install" "n" "-g"
npm ERR! cwd /home/devid
npm ERR! node -v v0.6.12
npm ERR! npm -v 1.1.4
npm ERR! message failed to fetch from registry: n
npm ERR!
npm ERR! Additional logging details can be found in:
npm ERR! /home/devid/npm-debug.log
npm not ok

Please share resolution.



Tejas Tank

March 3, 2014 at 2:39 pm

I had resolved error:

npm ERR! Error: failed to fetch from registry: n

Fire below command then try all about command works fine.

npm config set registry <http://registry.npmjs.org/>

@tejas



Tejas Tank

March 3, 2014 at 3:54 pm

When I had use below command:

phonegap local run android

It throws error:

=====

/home/tejastank/.cordova/lib/android/cordova/3.3.0/bin/node_modules/q/q.js:126

throw e;

^

Error: An error occurred while listing Android targets

at /home/devid/.cordova/lib/android/cordova/3.3.0/bin/lib/check_reqs.js:87:29

at _rejected (/home/devid/.cordova/lib/android/cordova/3.3.0/bin/node_modules/q/q.js:808:24)

at /home/devid/.cordova/lib/android/cordova/3.3.0/bin/node_modules/q/q.js:834:30

at Promise.when (/home/devid/.cordova/lib/android/cordova/3.3.0/bin/node_modules/q/q.js:1079:31)

at Promise.promise.promiseDispatch

(/home/devid/.cordova/lib/android/cordova/3.3.0/bin/node_modules/q/q.js:752:41)

at /home/devid/.cordova/lib/android/cordova/3.3.0/bin/node_modules/q/q.js:574:44

at flush (/home/devid/.cordova/lib/android/cordova/3.3.0/bin/node_modules/q/q.js:108:17)

at process._tickCallback (node.js:415:13)



Tejas Tank

March 3, 2014 at 4:18 pm

Unable to get running emulator .

What steps to carry for this ?



xyz

March 8, 2014 at 2:26 pm

@Tejas Tank

same here



Anonymous

March 18, 2014 at 5:47 pm

worked great. after searching hours on the internet, found your article and it all worked for me. thanks a ton.

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