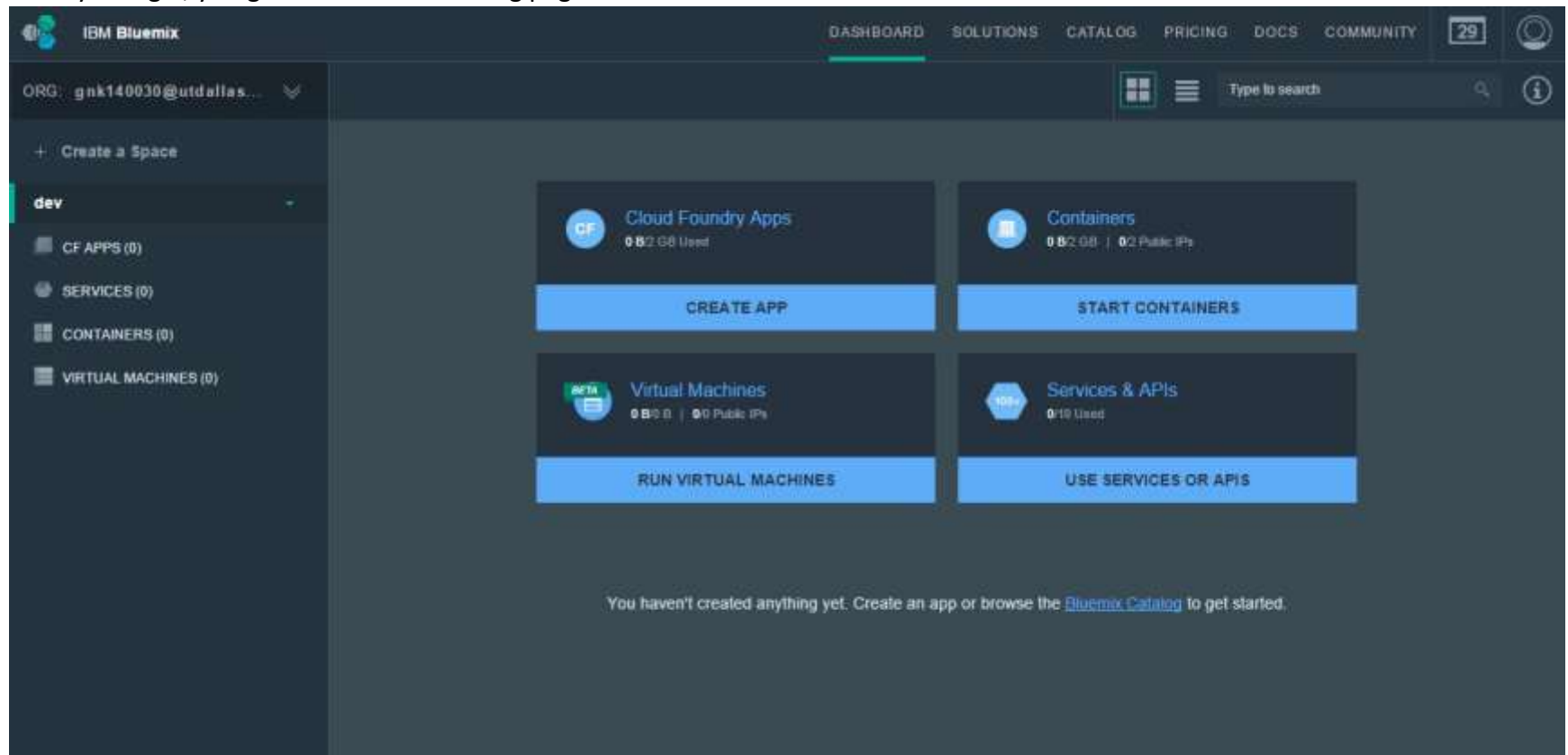
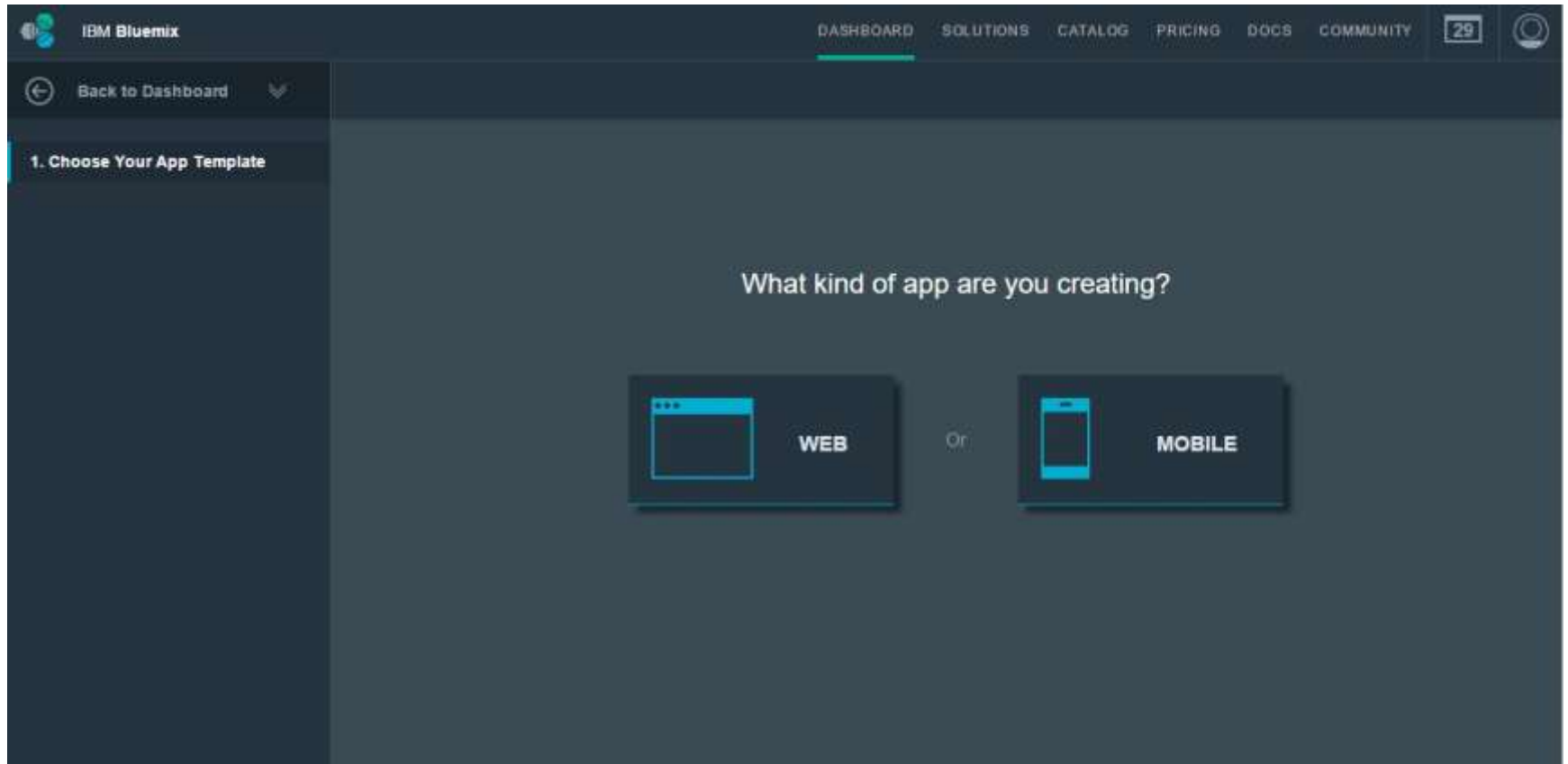


Deploy an Application on a Platform-as-a-Service Cloud (Etherpad / Etherpad-Lite on PaaS)

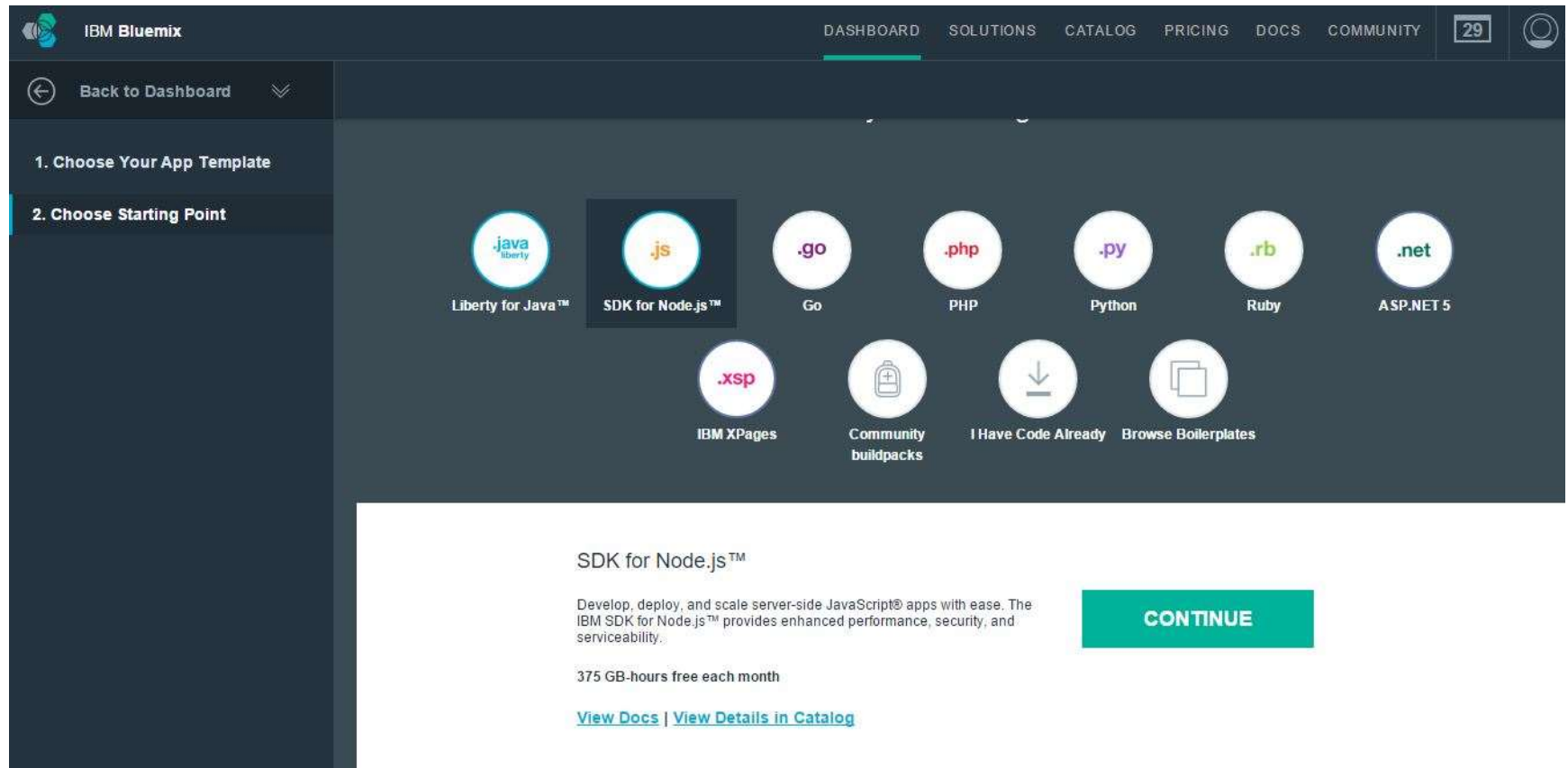
- 1) Open the following link: https://www-947.ibm.com/account/userservices/jsp/login.jsp?persistPage=true&page=/FIM/sps/IBM_WWW_SAML20_EXTERNAL/saml20/logininitial%3FRequestBinding%3DHTTPPost%26ResponseBinding%3DHTTPPost%26NameIdFormat%3DEmail%26PartnerId%3Dhttps%3A//idaas.ng.bluemix.net/sps/saml20sp/saml20&PD-REFERER=https://idaas.ng.bluemix.net/idaas/public/tamlogin.jsp&error=
- 2) Once you login, you get to see the following page:



3) Once you enter the page above, click on CREATE APP option under Cloud Foundry Apps. It will lead you to a new page as shown:

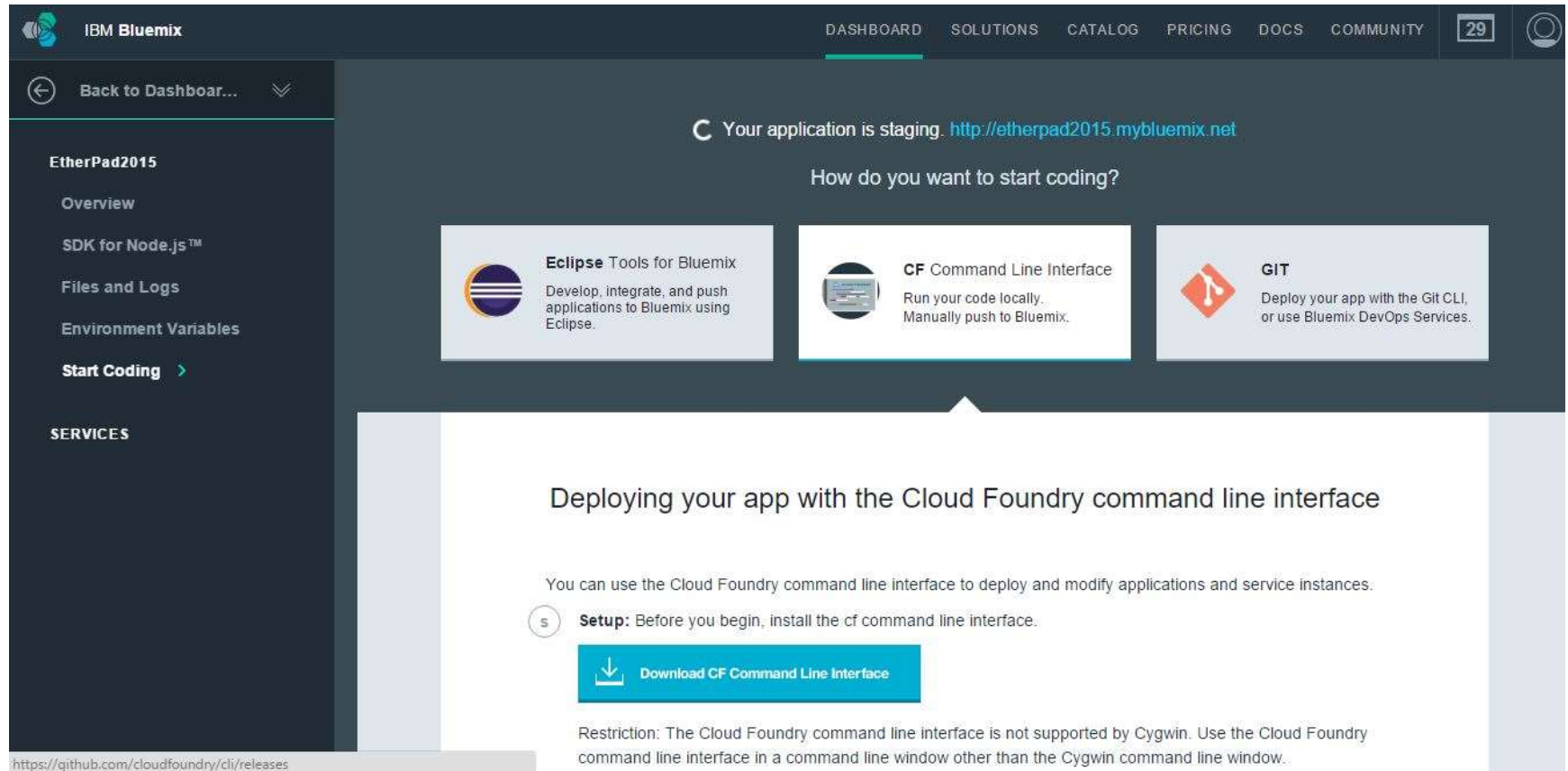


- 4) We are creating a web application. So click on it and it leads to a new page where you need to select SDK for Node.js and click Continue as shown below:



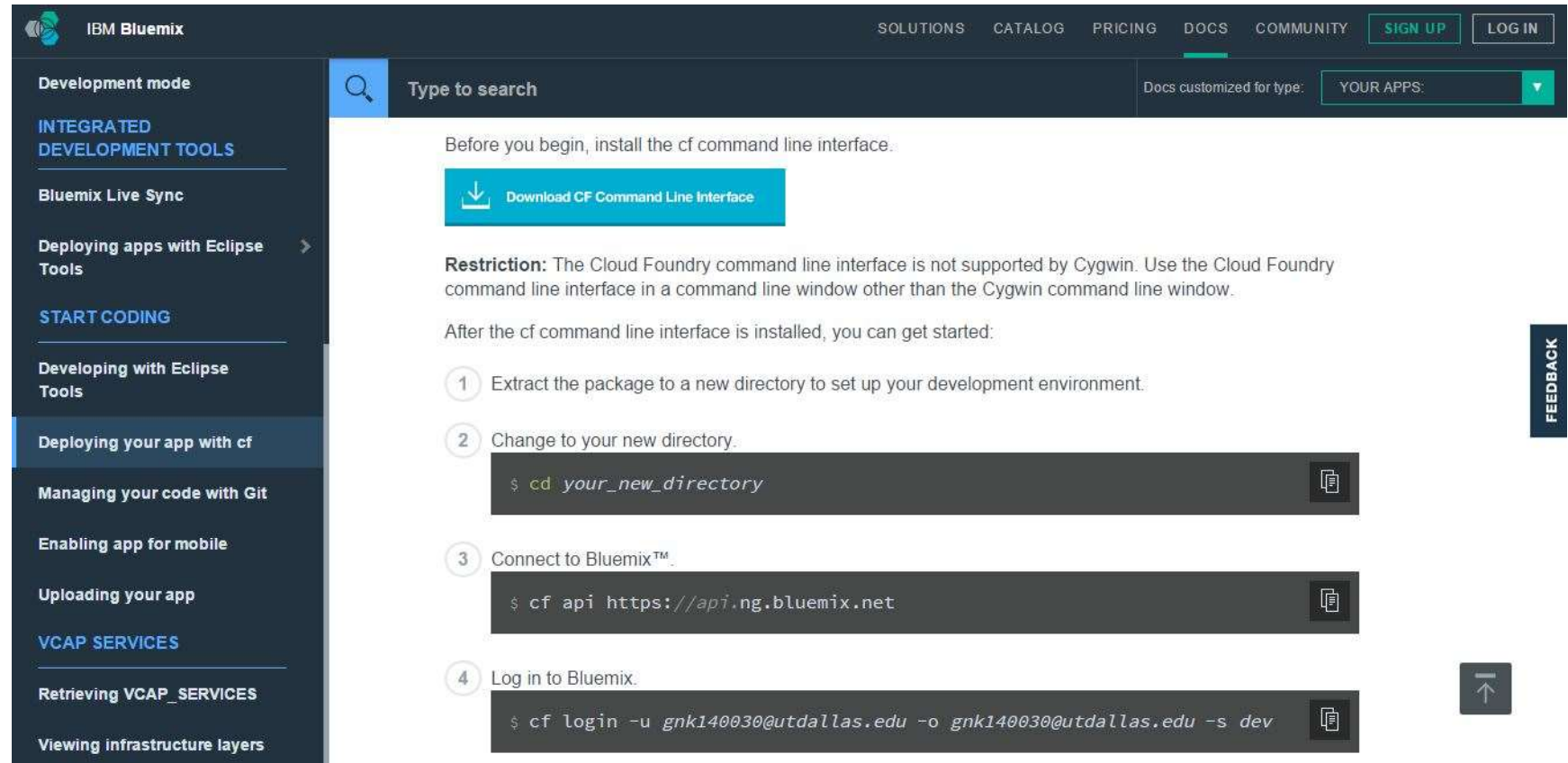
- 5) You need to give a name for the application that you are building. I named our application as **Etherpad2015_gayathri.**

6) Once the application starts running, Download the CF Command Line Interface to deploy and modify application and service instances.



7) Now download the Windows-64bit CF version in the Installers and After the CF command line interface is installed, you can get started by downloading the **etherpad-lite-cf.zip** and extract the package to a new directory to set up the development environment.

8) Next, open the command prompt and follow the following commands:



The screenshot shows the IBM Bluemix developer portal. The left sidebar contains a navigation menu with the following items: 'Development mode', 'INTEGRATED DEVELOPMENT TOOLS', 'Bluemix Live Sync', 'Deploying apps with Eclipse Tools', 'START CODING', 'Developing with Eclipse Tools', 'Deploying your app with cf' (highlighted), 'Managing your code with Git', 'Enabling app for mobile', 'Uploading your app', 'VCAP SERVICES', 'Retrieving VCAP_SERVICES', and 'Viewing infrastructure layers'. The main content area is titled 'Type to search' and contains the following text: 'Before you begin, install the cf command line interface.' followed by a 'Download CF Command Line Interface' button. Below this is a 'Restriction' note: 'The Cloud Foundry command line interface is not supported by Cygwin. Use the Cloud Foundry command line interface in a command line window other than the Cygwin command line window.' This is followed by the text 'After the cf command line interface is installed, you can get started:' and a numbered list of four steps: 1. 'Extract the package to a new directory to set up your development environment.', 2. 'Change to your new directory.' with a code block showing '\$ cd your_new_directory', 3. 'Connect to Bluemix™' with a code block showing '\$ cf api https://api.ng.bluemix.net', and 4. 'Log in to Bluemix.' with a code block showing '\$ cf login -u gnk140030@utdallas.edu -o gnk140030@utdallas.edu -s dev'. A 'FEEDBACK' button is visible on the right side of the page.

9) The next step is pushing the app to Bluemix:

```
cf push Etherpad2015_gayathri -m 512M -b  
https://github.com/cloudfoundry/nodejs-buildpack.git
```

```
G:\EtherPad>cf api https://api.ng.bluemix.net
Setting api endpoint to https://api.ng.bluemix.net...
OK

API endpoint:  https://api.ng.bluemix.net (API version: 2.27.0)
User:          gnk140030@utdallas.edu
Org:           gnk140030@utdallas.edu
Space:         dev

G:\EtherPad>cf login -u gnk140030@utdallas.edu -o gnk140030@utdallas.edu -s dev
API endpoint: https://api.ng.bluemix.net

Password>
Authenticating...
OK

Targeted org gnk140030@utdallas.edu

Targeted space dev

API endpoint:  https://api.ng.bluemix.net (API version: 2.27.0)
User:          gnk140030@utdallas.edu
Org:           gnk140030@utdallas.edu
Space:         dev

G:\EtherPad>cf push Etherpad2015_gayathri -m 512M -b https://github.com/cloudfo
ndry/nodejs-buildpack.git
Creating app Etherpad2015_gayathri in org gnk140030@utdallas.edu / space dev as
gnk140030@utdallas.edu...
OK

Creating route etherpad2015-gayathri.mybluemix.net...
OK

Binding etherpad2015-gayathri.mybluemix.net to Etherpad2015_gayathri...
OK

Uploading Etherpad2015_gayathri...
```

```

-----> Uploading droplet (41M)

0 of 1 instances running, 1 starting
1 of 1 instances running

App started

OK

App Etherpad2015_gayathri was started using this command `node node_modules/ep_e
therpad-lite/node/server.js`

Showing health and status for app Etherpad2015_gayathri in org gnki40030@utdalla
s.edu / space dev as gnki40030@utdallas.edu...
OK

requested state: started
instances: 1/1
usage: 512M x 1 instances
urls: etherpad2015-gayathri.mybluemix.net
last uploaded: Thu Oct 8 03:00:35 UTC 2015
stack: cflinuxfs2
buildpack: https://github.com/cloudfoundry/nodejs-buildpack.git

state      since                cpu    memory          disk
details
#0  running  2015-10-07 10:03:44 PM  0.0%   146.3M of 512M  239.4M of 1G

C:\EtherPad>

```

- 10) Next, we need to create a service to allow Etherpad to connect to our database. To do that, let's go back to the Bluemix UI. In the top click on Dashboard, you should see the app you created. Let's go ahead and click on it. To add the service Bluemix will provision and bind a service to our app for us. Click "Add A Service" and scroll down to data management. We want ClearDB for this app. Click on ClearDB and click "Create". Now, It will ask if you want to restage the app, so click RESTAGE.

11) Configure the app with ClearDB (MySQL):

To switch the app over to MySQL, we need to edit the settings.json for the app and then re-upload the app to Bluemix. You will need to replace the value DATABASE with the name of your ClearDB service. To get this info, let's go back to the Bluemix UI and our app. If you click on "Show Credentials", it will give you the name of your ClearDB service, copy and paste this in the settings.json file and save the file:

```
"dbService": "ClearDB MySQL Database-by",
```

12) The last step is re-pushing our app to Bluemix since we made a change to it. To do this we need to use the push command we used above:

```
cf push Etherpad2015_gayathri -m 512M -b  
https://github.com/cloudfoundry/nodejs-buildpack.git
```


App started

OK

App Etherpad2015_gayathri was started using this command `node node_modules/ep_etherpad-lite/node/server.js`

Showing health and status for app Etherpad2015_gayathri in org gnk140030@utdallas.edu / space dev as gnk140030@utdallas.edu...

OK

requested state: started

instances: 1/1

usage: 512M x 1 instances

urls: etherpad2015-gayathri.mybluemix.net

last uploaded: Thu Oct 8 03:00:35 UTC 2015

stack: cflinuxfs2

buildpack: <https://github.com/cloudfoundry/nodejs-buildpack.git>

	state	since	cpu	memory	disk	d
etails						
#0	running	2015-10-07 10:03:44 PM	0.0%	146.3M of 512M	239.4M of 1G	

C:\EtherPad>cf push Etherpad2015_gayathri -m 512M -b <https://github.com/cloudfoundry/nodejs-buildpack.git>

Updating app Etherpad2015_gayathri in org gnk140030@utdallas.edu / space dev as gnk140030@utdallas.edu...

OK

Uploading Etherpad2015_gayathri...

```
0 of 1 instances running, 1 starting
0 of 1 instances running, 1 starting
1 of 1 instances running
```

App started

OK

App Etherpad2015_gayathri was started using this command 'node node_modules/ep_etherpad-lite/node/server.js'

Showing health and status for app Etherpad2015_gayathri in org gnk140030Putdallas.edu / space dev as gnk140030Putdallas.edu...

OK

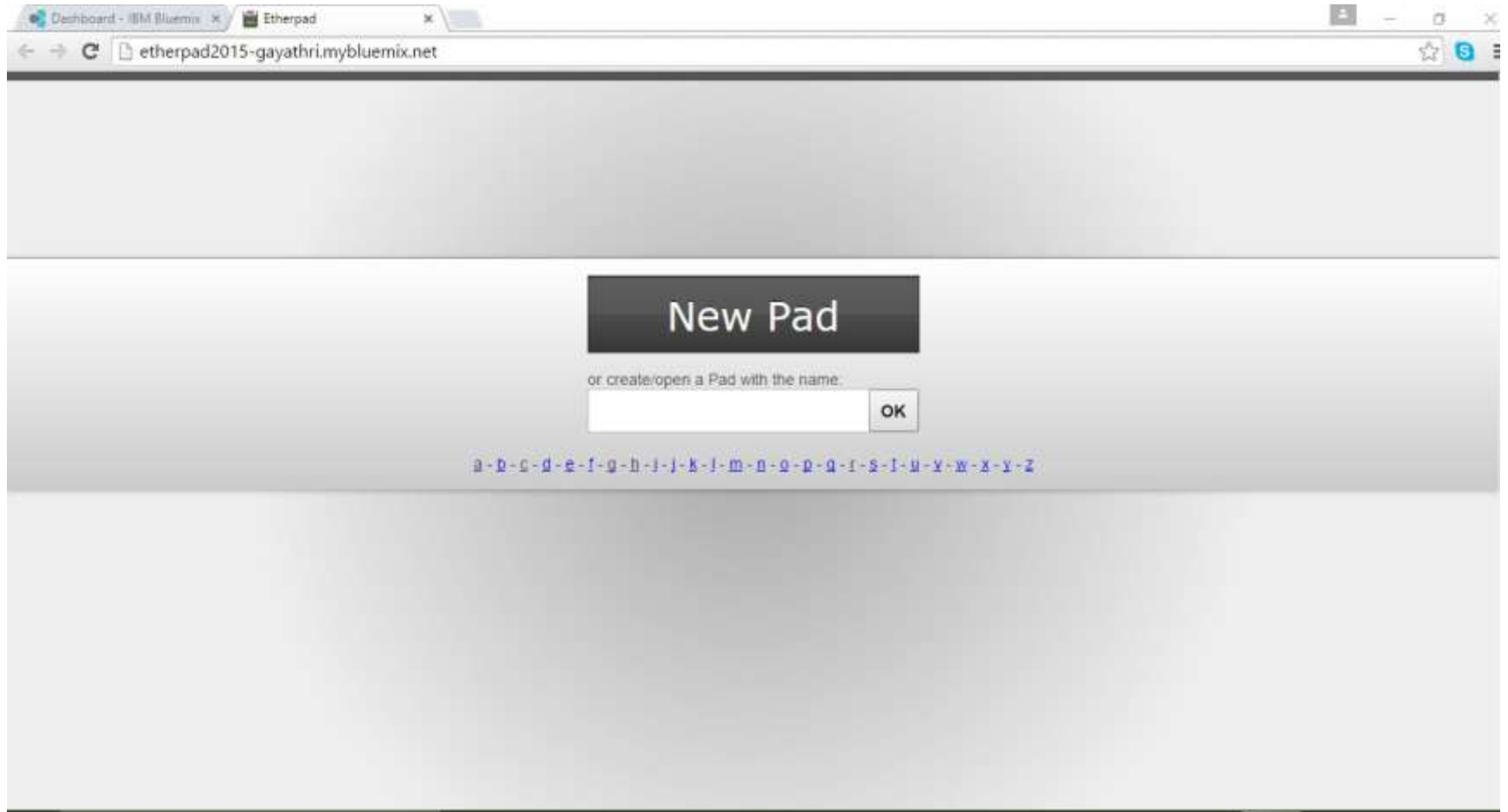
```
requested state: started
instances: 1/1
usage: 512M x 1 instances
urls: etherpad2015-gayathri.mybluemix.net
last uploaded: Thu Oct 8 03:44:43 UTC 2015
stack: cflinuxfs2
buildpack: https://github.com/cloudfoundry/nodejs-buildpack.git
```

	state	since	cpu	memory	disk	d
etails						
#0	running	2015-10-07 10:48:13 PM	0.0%	155.6M of 512M	239.4M of 1G	

C:\EtherPad>

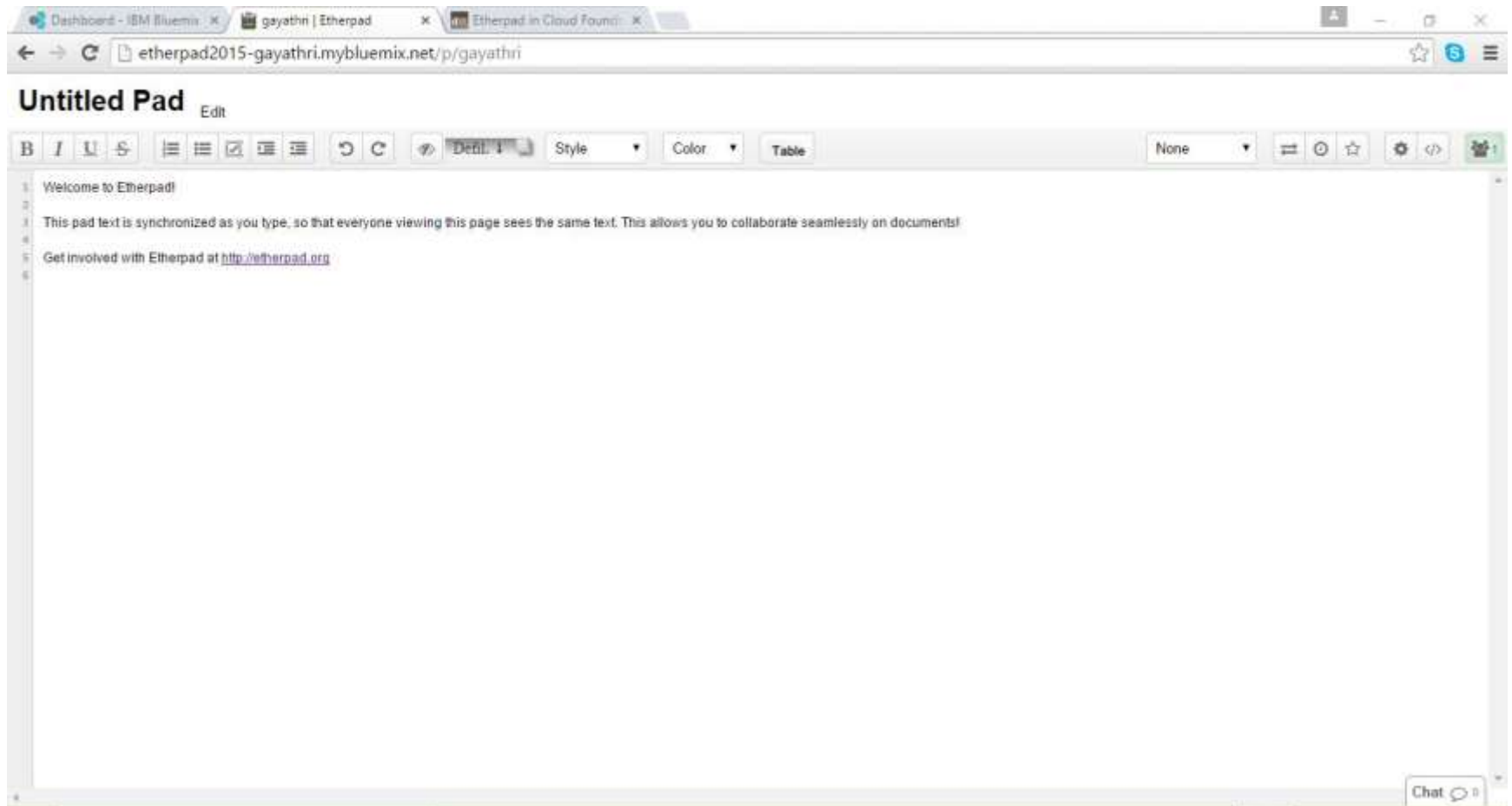
13) Now, open the link provided in the dashboard:

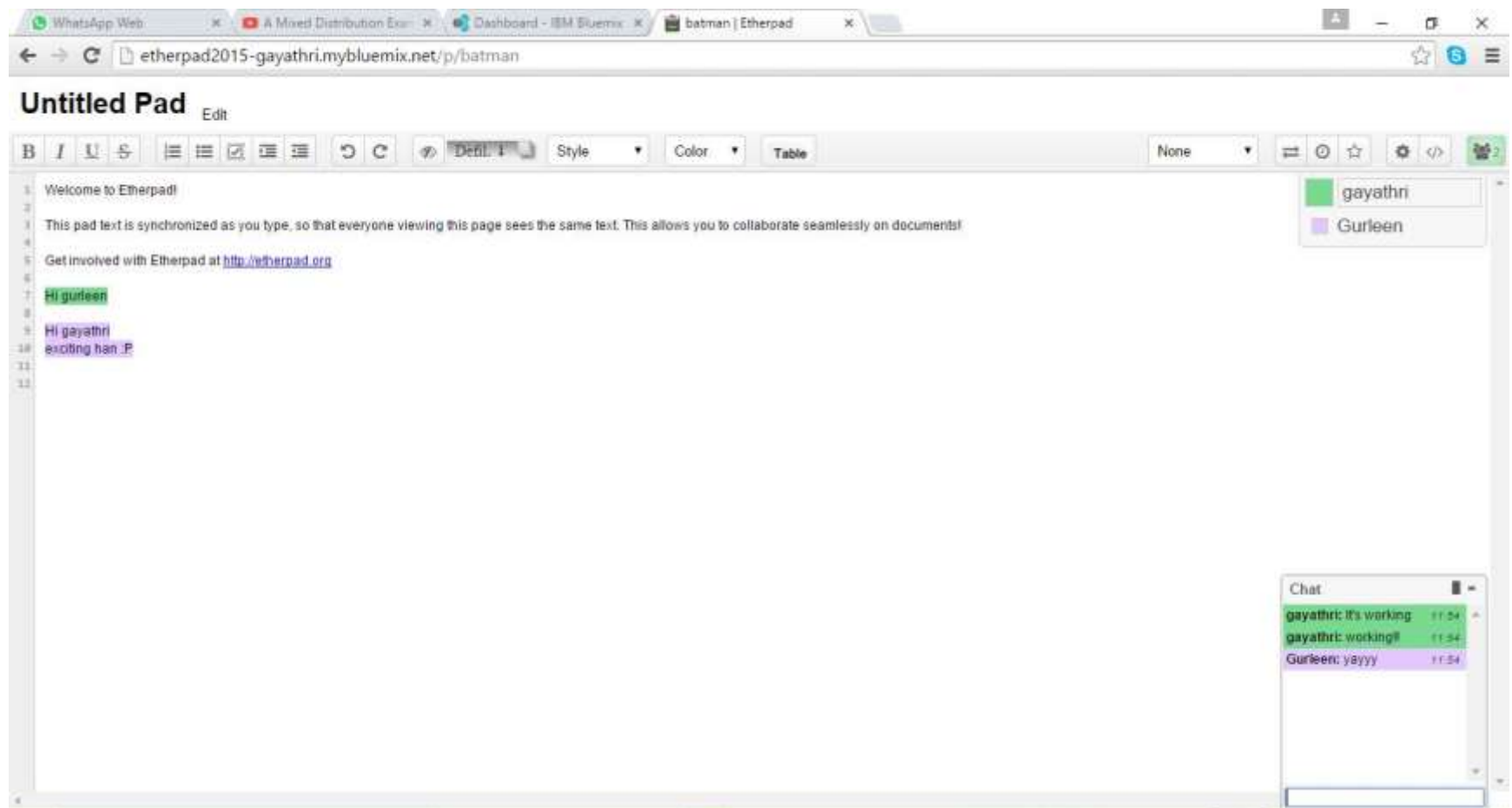
<http://etherpad2015-gayathri.mybluemix.net/>



Give a name to open the PAD

14) Now, run Etherpad and test it!





We have successfully tested it and it works!

Problems faced during installation of app:

Error message:

```
C:\Users\Gayathri\Desktop\New folder>cf push EtherPad2015 -m 512M -b https://git
hub.com/cloudfoundry/nodejs-buildpack.git
Using manifest file C:\Users\Gayathri\Desktop\New folder\manifest.yml

Updating app EtherPad2015 in org gnk140030@utdallas.edu / space dev as gnk140030
@utdallas.edu...
OK

Using route etherpad2015.mybluemix.net
Uploading EtherPad2015...
Uploading app files from: C:\Users\Gayathri\Desktop\New folder
Uploading 2.1M, 379 files
Done uploading
OK

Stopping app EtherPad2015 in org gnk140030@utdallas.edu / space dev as gnk140030
@utdallas.edu...
OK

Starting app EtherPad2015 in org gnk140030@utdallas.edu / space dev as gnk140030
@utdallas.edu...
-----> Downloaded app package (51M)
-----> Downloaded app buildpack cache (660K)
Cloning into '/tmp/buildpacks/nodejs-buildpack'...
Submodule 'compile-extensions' (https://github.com/cloudfoundry-incubator/co
mpile-extensions.git) registered for path 'compile-extensions'
Submodule path 'compile-extensions': checked out 'ce9345a9a6e7b00266194cadd18dbe
f37e791a7b'
It looks like you're deploying on a stack (currently set to *lucid64*) that's no
t supported by this buildpack.
That could be because you're using a recent buildpack release on a deprecated st
ack.
If you're using the buildpack installed by your CF admin, please let your admin
know you saw this error message.
If you at one point specified a buildpack that's at git URL, please make sure yo
u're pointed at a version that supports this stack.
Staging failed: Buildpack compilation step failed

FAILED
BuildpackCompileFailed

TIP: use 'cf logs EtherPad2015 --recent' for more information

C:\Users\Gayathri\Desktop\New folder>
```

The reason why it showed a “FAILED” error message was that, the etherpad-lite-cf.zip was not installed properly. The contents of the folder were not uploaded to the cloud properly. When you re-install and unzip the files properly, and push it to your app, it works fine.

Team:

Team – 22:

Gurleen Chawla and Gayathri N Kannepalli