**I Setting up the project**

1. Install nod js and NPM

<https://nodejs.org/en/download/>

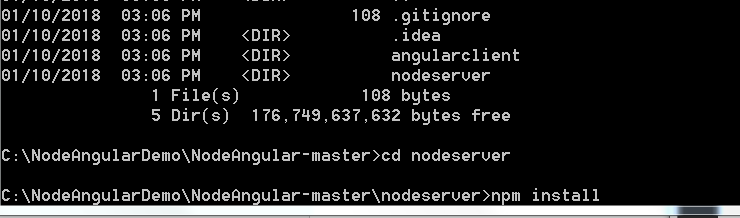
1. Install angular 5 from command line

npm install angular-cli -g

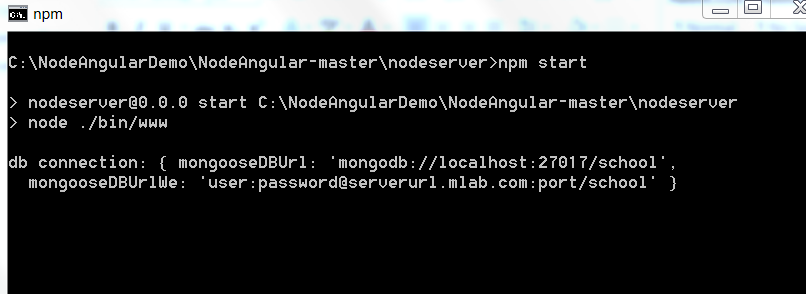
1. Link to demo project

<https://github.com/FranklinParker/NodeAngular>

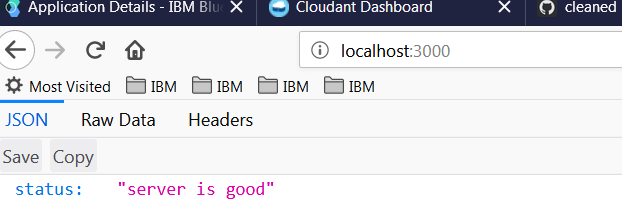
1. After downloading project from the nodeserver directory run npm install



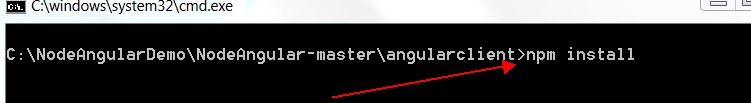
1. From command line above run npm start:



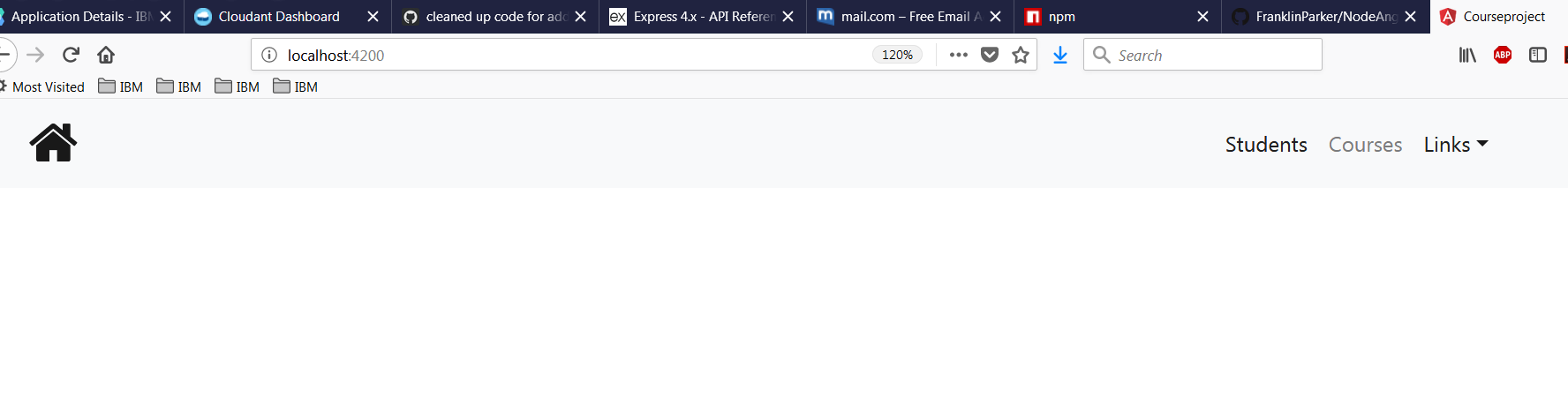
1. Go to a browser and enter localhost:3000



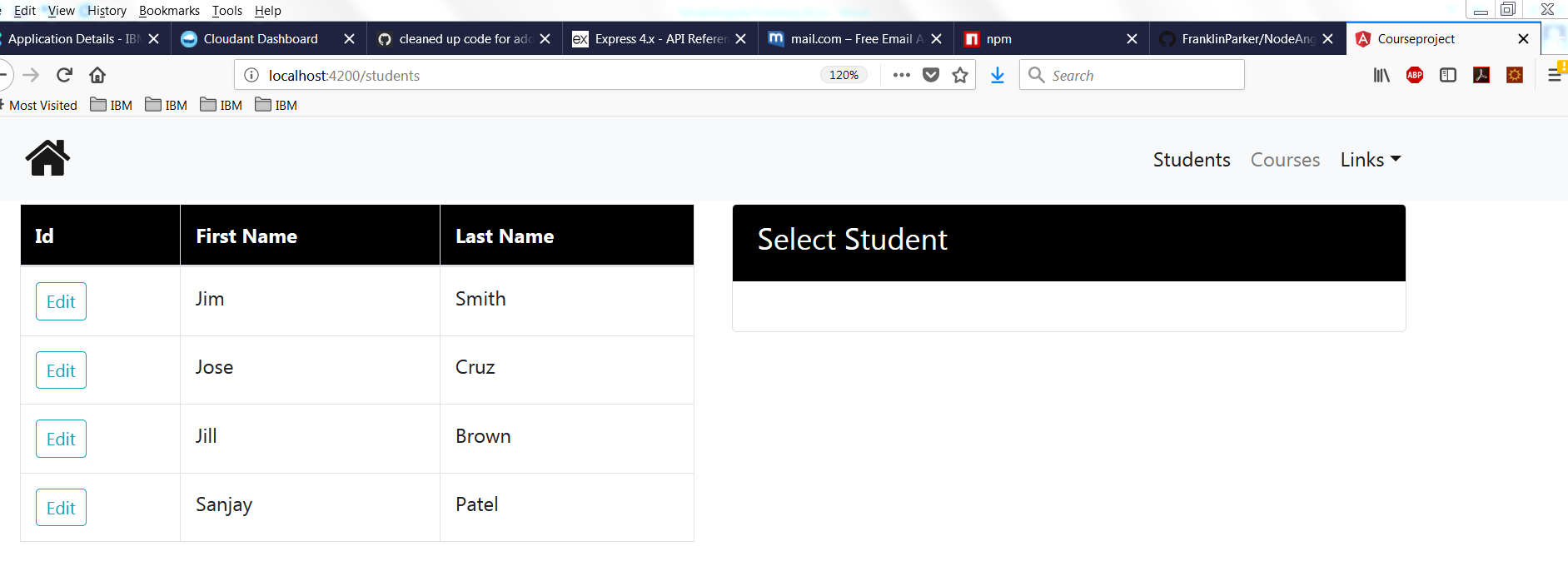
1. From go to angularclient and run npm install



1. Run ng serve and open browser localhost:4200

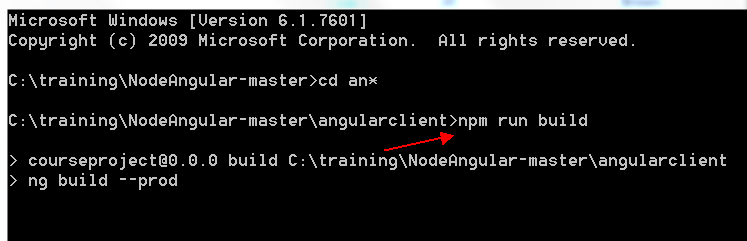


1. Click Students (data is pulled from node server):

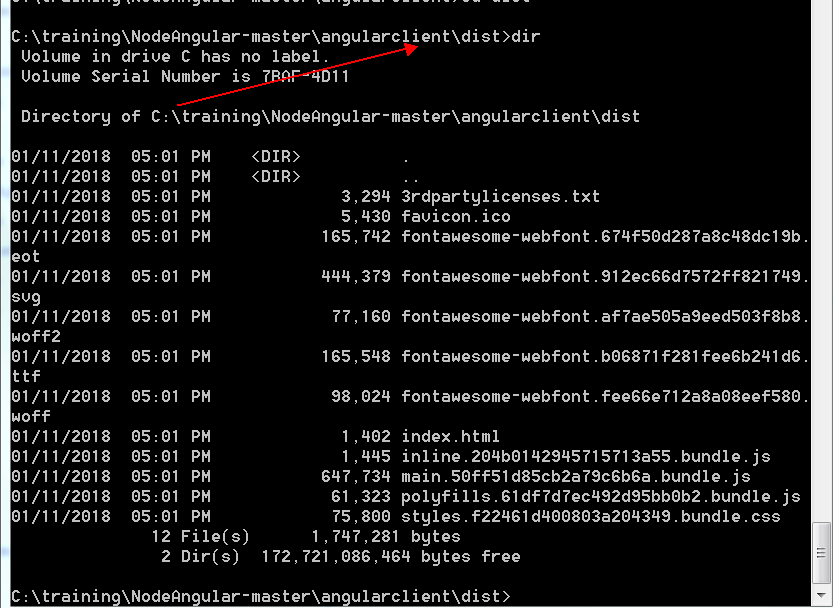


**II Creating an Angular prod build and deploying to Node server**

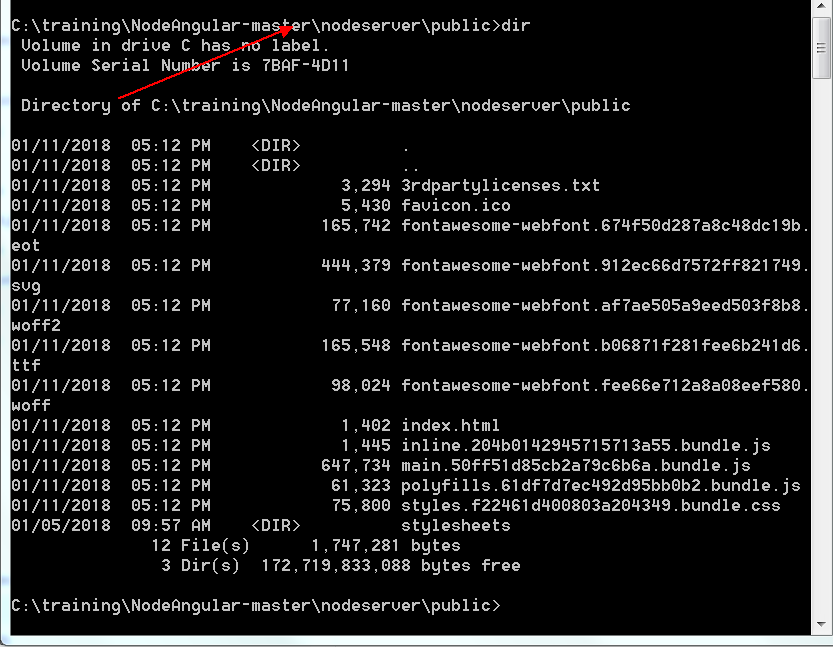
1. **From command line in angularclient directory run >npm run build:**



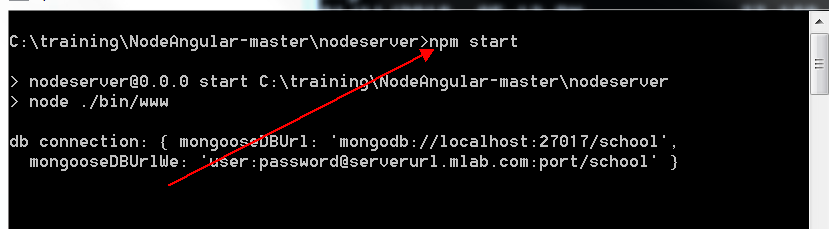
1. **This creates a directory angularclient/dist with the below files:**



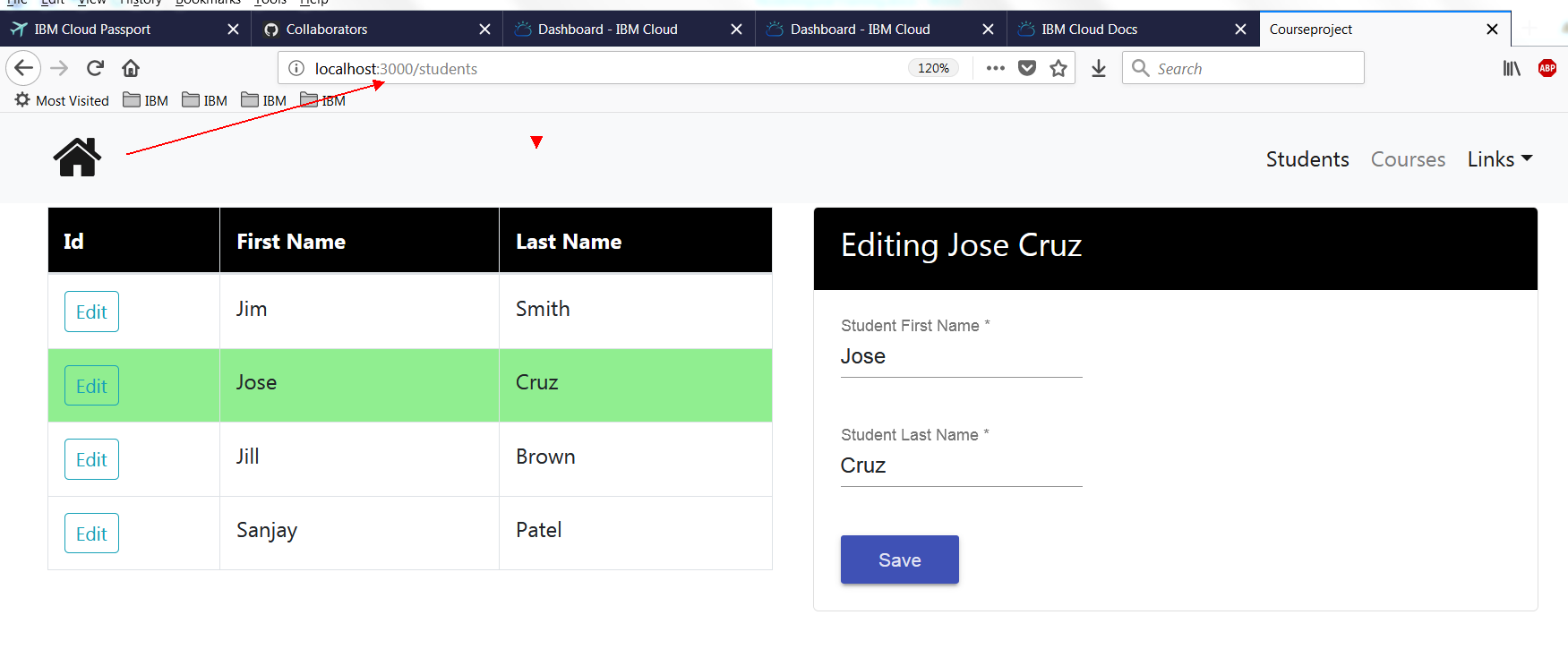
1. **Copy all those files to the nodeserver/public dir:**



1. **From nodeserver dir run npm start:**



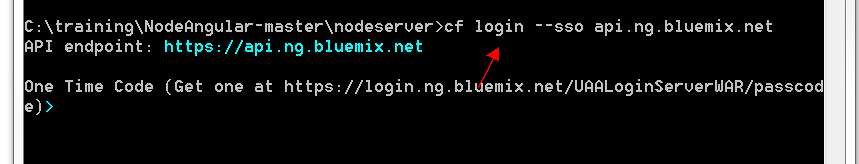
1. **Go to the browser** [**http://localhost:3000/students**](http://localhost:3000/students)



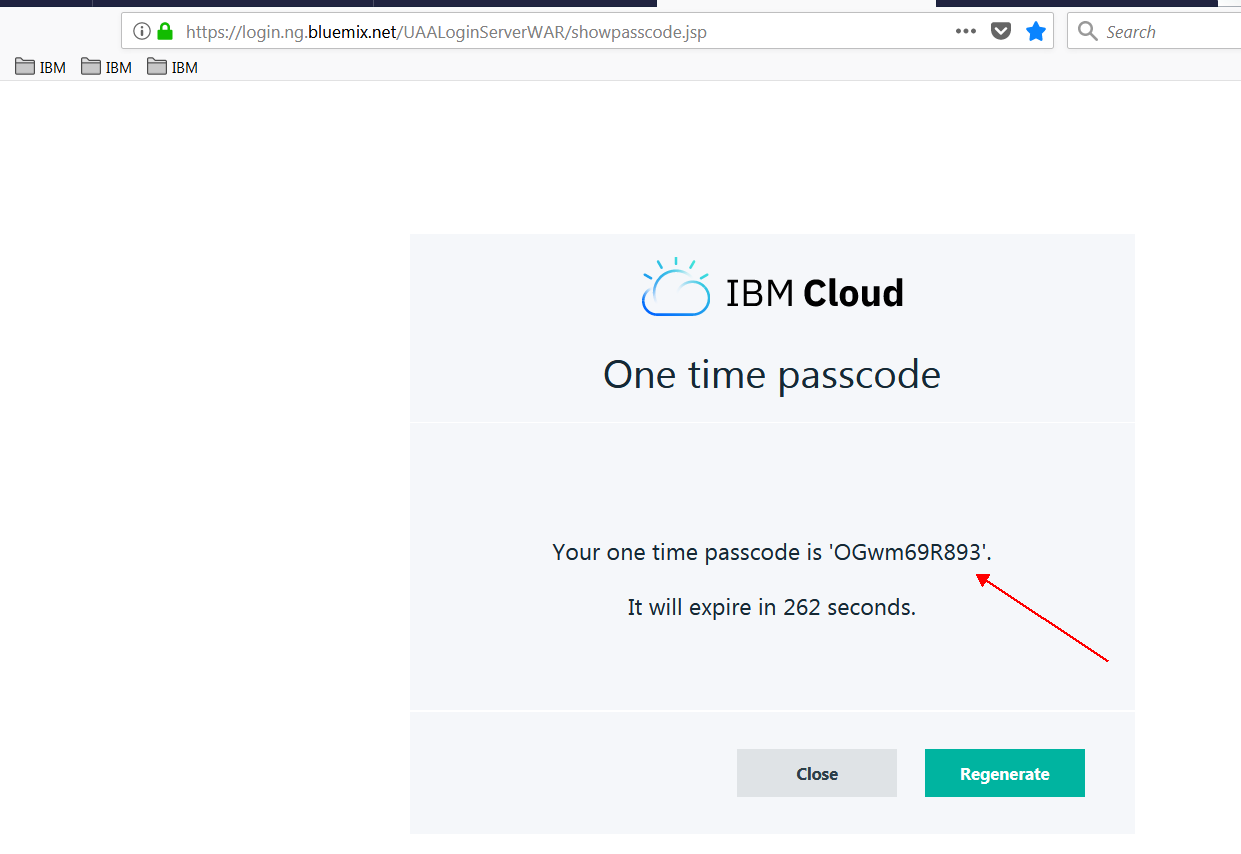
**III BlueMix deploy – this assumes you have an account and Cloud Foundry CLI**

1. From command line in the same directory where the node app is –

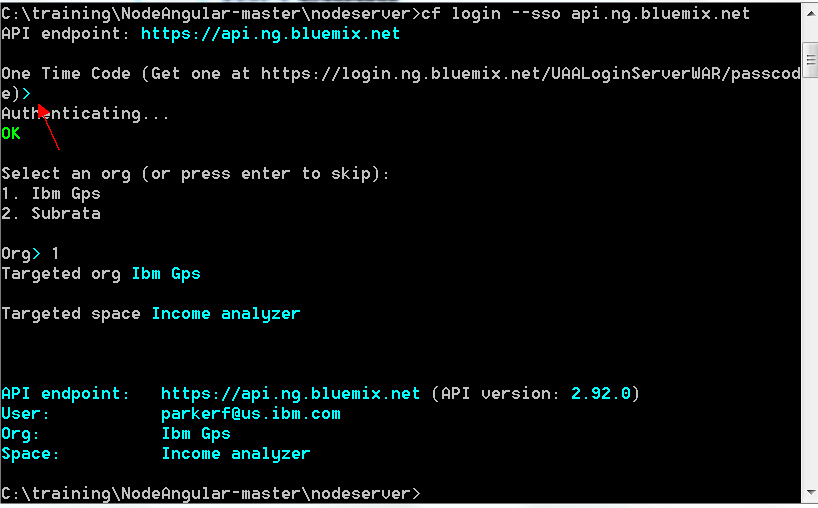
>cf login --sso api.ng.bluemix.net



1. Go to <https://login.ng.bluemix.net/UAALoginServerWAR/showpasscode.jsp> and get one time passcode:

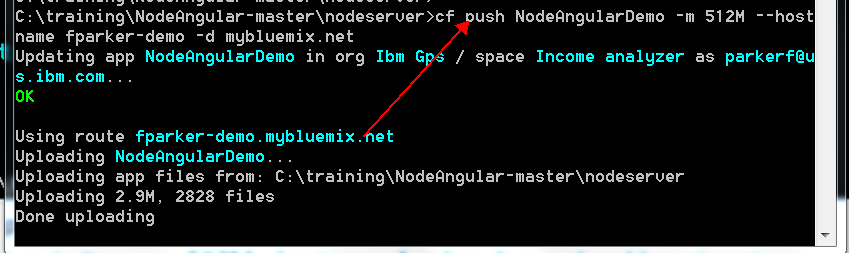


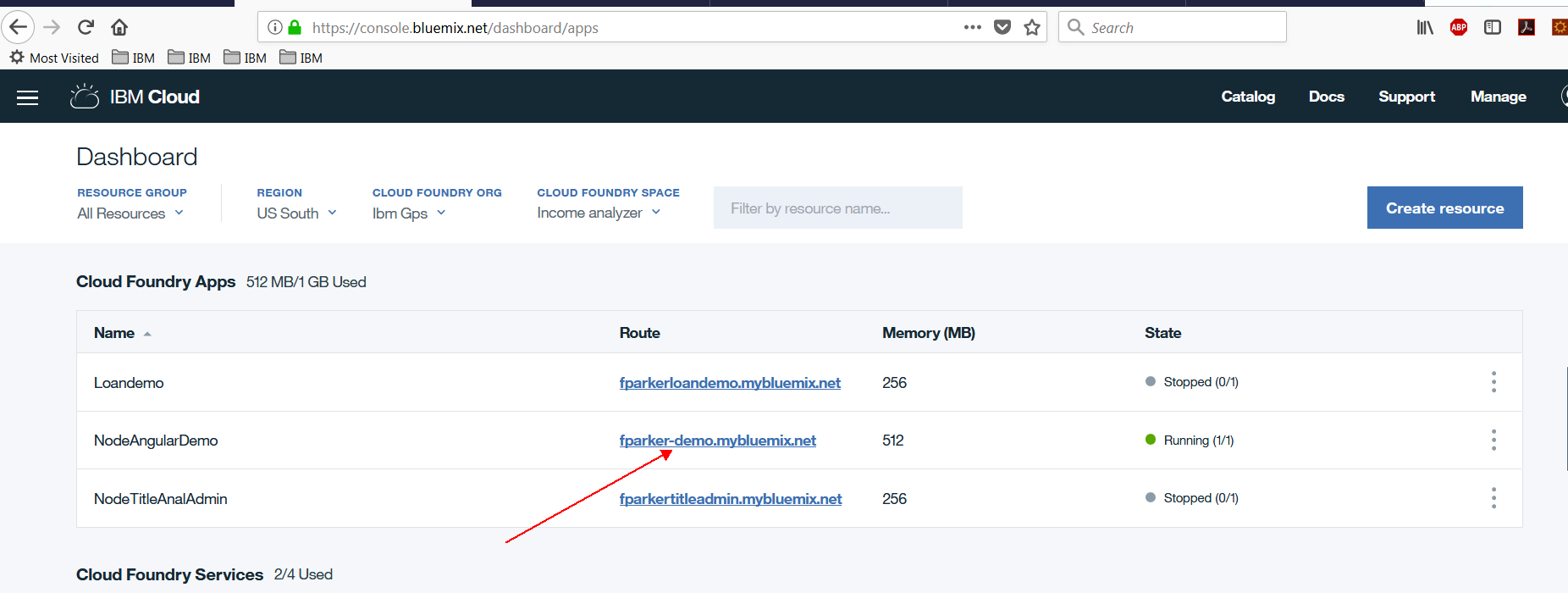
1. Paste passcode to command line:



1. Now you can push the app to blue mix using:

cf push NodeAngularDemo -m 512M --hostname fparker-demo -d mybluemix.net



1. Go to blue mix console to confirm: 
2. Click on url and:

