



Cloud Developer Certification Preparation

Exercise 4.4:
Configuring an app to use AlchemyAPI

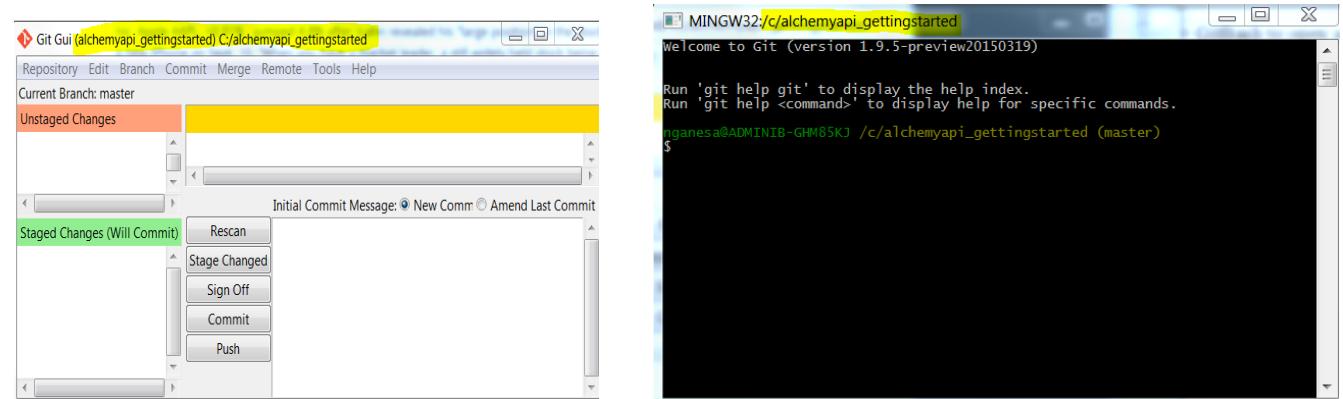
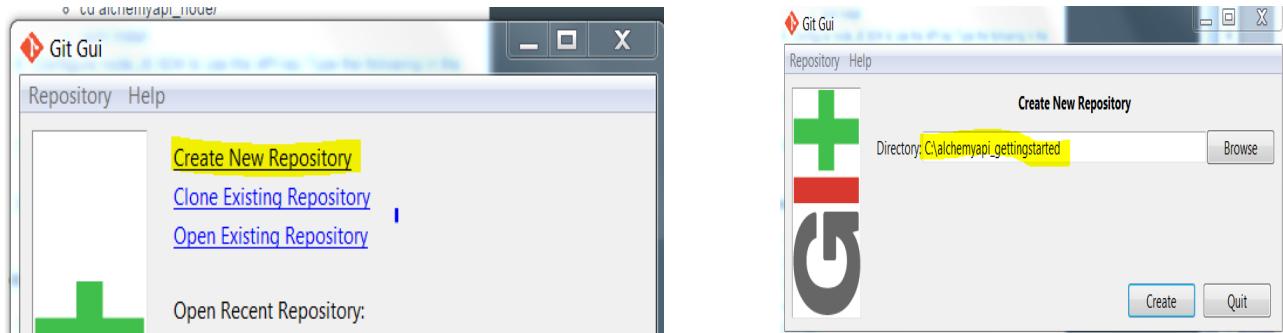
Exercise 4.4: Prerequisites

Sign up for a 30-day free trial [IBM Bluemix account](#) if you don't already have one. You also need the following software:

- A web browser supported by Bluemix:
 - Chrome: the latest version for your operating system
 - Firefox: the latest version for your operating system and ESR 31 or ESR 38
 - Internet Explorer: version 10 or 11
 - Safari: the latest version for the Mac
- Cloud Foundry command line interface, Version 6.5.1 or later (it's recommended that you use the latest release): <https://github.com/cloudfoundry/cli/releases>
- Install Git Bash: <https://git-scm.com/downloads>
- Register for a free AlchemyAPI key: <http://www.alchemyapi.com/api/register.html>

Exercise 4.4.1: Configuring an app to use AlchemyAPI

1. Open the Git UI and create a new repository. Enter a name for the new repository and click **Create**.



2. Click **Repository > GitBash** to open a command prompt.

3. Clone the repository by using the following command:

```
git clone https://github.com/AlchemyAPI/alchemyapi\_node.git
```

4. Change the directory of your Alchemy folder and then perform an npm installation.

```
nganessa@ADMINIB-GHM85KJ /c/alchemyapi_gettingstarted (master)
$ cd alchemyapi_node/
nganessa@ADMINIB-GHM85KJ /c/alchemyapi_gettingstarted/alchemyapi_node (master)
$ npm install
```

5. Run the alchemyapi.js code to enter your API key to configure the application:

Exercise 4.4: Using AlchemyAPI

```
nganesa@ADMINIB-GHM85KJ /c/alchemyapi_gettingstarted/alchemyapi_node (master)
$ node alchemyapi.js
```

You should see a message saying that you are ready to use AlchemyAPI.

6. Execute the app.js by entering `node app.js`.

```
api_key.txt
You are now ready to start using AlchemyAPI. For an example, run: node app.js
nganesa@ADMINIB-GHM85KJ /c/alchemyapi_gettingstarted/alchemyapi_node (master)
$
```

```
nganesa@ADMINIB-GHM85KJ /c/alchemyapi_gettingstarted/alchemyapi_node (master)
$ node app.js
Express server listening on port 3000
To view the example, point your favorite browser to: localhost:3000
GET / 200 9446ms - 76kb
GET / 200 7480ms - 76.11kb
```

7. Open a browser to <http://localhost:3000> to see the results, which should look like this:

Node.js & AlchemyAPI request, parsing and display example

Entity Extraction

For more information on entity extraction: <http://www.alchemyapi.com/products/features/entity-extraction/>
For the docs: <http://www.alchemyapi.com/api/entity-extraction/>

Processed Text

Yesterday dumb Bob destroyed my fancy iPhone in beautiful Denver, Colorado. I guess I will have to head over to the Apple Store and buy a new one.

Response Object

```
{  
  "status": "OK",  
  "usage": "By accessing AlchemyAPI or using information generated by AlchemyAPI, you are agreeing to"
```

8. Open a Windows command prompt and change to your Alchemy folder. Then, change to the alchemyapi_node directory.

```
Administrator: C:\windows\system32\cmd.exe
C:\>cd alchemyapi_gettingstarted
C:\alchemyapi_gettingstarted>cd alchemyapi_node
C:\alchemyapi_gettingstarted\alchemyapi_node>
```

Exercise 4.4: Using AlchemyAPI

9. Set the API to point to IBM Bluemix by using the command `cf api https://api.ng.bluemix.net`. Then, log in with your IBM ID and password. The targeted organization is displayed if you have multiple organizations.

```
C:\alchemyapi_gettingstarted\alchemyapi_node>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: 2.19.0)
User:          nganesa@us.ibm.com
Org:          nganesa@us.ibm.com
Space:        NeerSample

C:\alchemyapi_gettingstarted\alchemyapi_node>
```

10. Push this app to Bluemix by using the command `cf push application_name`. To avoid a conflicting route, append your initials and the month and year to `alchemyapi_getting_started` for `application_name`.

```
C:\alchemyapi_gettingstarted\alchemyapi_node>cf push alchemyapi_getting_started
Creating app alchemyapi_getting_started in org nganesa@us.ibm.com / space NeerSample as nganesa@us.ibm.com...
OK

Creating route alchemyapi-getting-started.mybluemix.net...
OK

Binding alchemyapi-getting-started.mybluemix.net to alchemyapi_getting_started...
OK

Uploading alchemyapi_getting_started...
```

```
App alchemyapi_getting_started was started using this command `./vendor/initial_startup.rb`

Showing health and status for app alchemyapi_getting_started in org nganesa@us.ibm.com / space NeerSample as nganesa@us.ibm.com...
OK

requested state: started
instances: 1/1
usage: 1G x 1 instances
urls: alchemyapi-getting-started.mybluemix.net
last uploaded: Mon Apr 27 21:05:12 +0000 2015

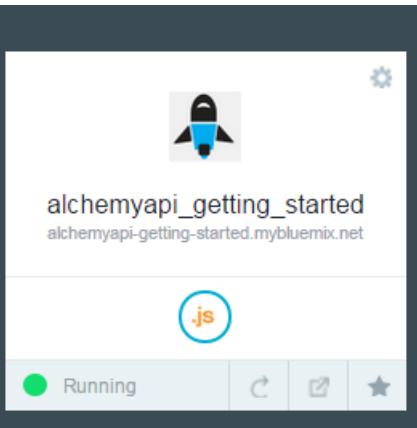
      state      since            cpu    memory       disk      detail
ls
#0  running   2015-04-27 02:05:42 PM  0.0%  47.2M of 1G  42.6M of 1G

C:\alchemyapi_gettingstarted\alchemyapi_node>
```

The app is now running in Bluemix.

11. Open the app from the Bluemix dashboard and click the route to open the page in a new browser tab.

Exercise 4.4: Using AlchemyAPI



The screenshot shows a web browser window with the following details:

- Title Bar:** The title is "alchemyapi-getting-started.mybluemix.net".
- Toolbar:** Includes standard browser icons for back, forward, search, and refresh, along with links for "Apps", "Files - Mobile Bl...", "Got 5 minutes? ...", and "Other bookmarks".
- Content Area:**
 - Section Header:** "Node.js & AlchemyAPI request, parsing and display example".
 - Section Header:** "Entity Extraction".
 - Text:** "For more information on entity extraction: <http://www.alchemyapi.com/products/features/entity-extraction/>
For the docs: <http://www.alchemyapi.com/api/entity-extraction/>".
 - Section Header:** "Processed Text".
 - Text:** "Yesterday dumb Bob destroyed my fancy iPhone in beautiful Denver, Colorado. I guess I will have to head over to the Apple Store and buy a new one."

12. To make changes in the app, change to the files in the folder on your local machine and save your changes. Use the `cf push` command to push the app again to Bluemix.