← → C 🔒 betheltech.exeterlms.com/student/53448/lesson/43678/topic/379809

BETHEL SCHOOL
OF TECHNOLOGY

```
Suggested packages:
  git-daemon-run | git-daemon-sysvinit git-doc git-el git-email git-gui gitk
  gitweb git-arch git-cvs git-mediawiki git-svn
The following packages will be upgraded:
  git
1 upgraded, 0 newly installed, 0 to remove and 45 not upgraded.
Need to get 3,176 kB of archives.
After this operation, 8,192 B of additional disk space will be used.
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu xenial-updates/main amd64 g
it amd64 1:2.7.4-0ubuntu1.9 [3,176 kB]
Fetched 3,176 kB in 0s (54.2 MB/s)
(Reading database ... 51431 files and directories currently installed.)
Preparing to unpack .../git_1%3a2.7.4-0ubuntu1.9_amd64.deb ...
Unpacking git (1:2.7.4-0ubuntu1.9) over (1:2.7.4-0ubuntu1.7) ...
Setting up git (1:2.7.4-0ubuntu1.9) ...
ubuntu@ip-172-31-57-114:~$ git clone https://github.com/MaryConciled/riot-express
-todo-list.git
Cloning into 'riot-express-todo-list'...
remote: Enumerating objects: 33, done.
remote: Total 33 (delta 0), reused 0 (delta 0), pack-reused 33
Unpacking objects: 100% (33/33), done.
Checking connectivity... done.
ubuntu@ip-172-31-57-114:~$ cd riot-express-todo-list/
ubuntu@ip-172-31-57-114:~/riot-express-todo-list$
```

If prompted to continue, enter "Y" and press enter to advance the ins
started, but you may be asked to enter "Y".

Git

First, you must install Git. This can be done by running the following c
window):

```
sudo apt-get install git
```

Again, it may prompt you to confirm during the installation step. This
After git is successfully installed, it's time to clone the `hackathon-star`
forked the original project onto your GitHub account. You now want to clone that repository onto the EC2 server. This can be
done by running the following command. Be sure to change "yourUserName" in the below URL to your Github username:

```
git clone https://github.com/yourUserName/hackathon-starter.git
```

The git repo will now be on the EC2 server. If you want to view the folders and files on the computer, run the following
command:

```
ls
```

Next, move into the `hackathon-starter` directory by running the following command:

```
cd hackathon-starter
```

Additional Info!

If you begin to type part of a file or directory name in your terminal, pressing Tab will autocomplete

lesson-two.pem   Show all   ✕

🔍 Search for anything   ...   4:53 PM 6/10/2020

← → C 🔒 betheltech.exeterlms.com/student/53448/lesson/43679/topic/379816

BETHEL SCHOOL
OF TECHNOLOGY

Dashboard   Profile   🔔   Mary Wheeler   ☰

ELASTIC BLOCK STORE
Volumes   Instance state   running
Snapshots   Instance type   t2.micro

                2.compute.amazonaws.com
IPv4 Public IP   52.14.202.248
IPv6 IPs   -

Feedback English (US)   © 2008 - 2017, Amazon Web Services, Inc. or its affiliates. All rights reserved.   Privacy Policy   Terms of Use

5. Run the following command using your unique P

Mac/Linux Users:

```
scp -r -i hs-key.pem $(pwd) ubuntu@ec2-0
starter
```

○ Make sure to add `:hackathon-starter` at t

Windows Users:

```
pscp -scp -r -i example-key.ppk hackathon
2.compute.amazonaws.com:~/
```

○ Make sure to add `:~/` at the end of the Publ

○ This may take a few minutes but will be subs
project.

○ If prompted, type `yes` to continue.

○ All of this together makes for a powerful on
Ensure that the location of the key and the l
you're a **Windows User**, ensure that you're

Tip!

If the above `pscp` command does not work because it cannot be found, you'll need to add the path to the PuTTY

```
1c0aeef9ba55156b22f3c6e6a  | 0 kB |   0.1 kB/s | ETA: 00:00:00 | 100%
0fb9de0b666b3596d1c3e4dff  | 0 kB |   0.1 kB/s | ETA: 00:00:00 | 100%
ffc0d6d92995d63191f007898  | 0 kB |   0.5 kB/s | ETA: 00:00:00 | 100%
23dbc09a51b6cdeb9be60c490  | 0 kB |   0.3 kB/s | ETA: 00:00:00 | 100%
2a365e94b9c87eb4e5cdf03e0  | 0 kB |   0.1 kB/s | ETA: 00:00:00 | 100%
9c933e483db8f6799624cb27a  | 0 kB |   0.4 kB/s | ETA: 00:00:00 | 100%
8b55b4b26d28fee5b321f2565  | 0 kB |   0.0 kB/s | ETA: 00:00:00 | 100%
4fd95ea647d10d91a793bb9c7  | 0 kB |   0.0 kB/s | ETA: 00:00:00 | 100%
b3f92d295c22bbcf81550be06  | 0 kB |   0.1 kB/s | ETA: 00:00:00 | 100%
0ea73d63bcd5e4b06f7580dbc  | 0 kB |   0.5 kB/s | ETA: 00:00:00 | 100%
433bc8a71bb58e3c1439da704  | 0 kB |   0.1 kB/s | ETA: 00:00:00 | 100%
af1f0e06ed f9fbcbaf685f15a  | 0 kB |   0.1 kB/s | ETA: 00:00:00 | 100%
df52978691712a583d5d44ad   | 0 kB |   0.1 kB/s | ETA: 00:00:00 | 100%
packed-refs                | 0 kB |   0.1 kB/s | ETA: 00:00:00 | 100%
master                     | 0 kB |   0.0 kB/s | ETA: 00:00:00 | 100%
HEAD                       | 0 kB |   0.0 kB/s | ETA: 00:00:00 | 100%
.gitignore                 | 0 kB |   0.0 kB/s | ETA: 00:00:00 | 100%
api.js                     | 0 kB |   0.6 kB/s | ETA: 00:00:00 | 100%
app.js                     | 1 kB |   1.0 kB/s | ETA: 00:00:00 | 100%
tag-todo.jade              | 0 kB |   0.5 kB/s | ETA: 00:00:00 | 100%
tag-todo.js                | 0 kB |   0.8 kB/s | ETA: 00:00:00 | 100%
lesson-two.pem             | 1 kB |   1.7 kB/s | ETA: 00:00:00 | 100%
package-lock.json          | 29 kB |  29.6 kB/s | ETA: 00:00:00 | 100%
package.json               | 0 kB |   0.5 kB/s | ETA: 00:00:00 | 100%
client.js                  | 1 kB |   1.2 kB/s | ETA: 00:00:00 | 100%
riot.js                    | 96 kB |  96.5 kB/s | ETA: 00:00:00 | 100%
README.md                  | 0 kB |   0.2 kB/s | ETA: 00:00:00 | 100%
index.jade                 | 0 kB |   0.2 kB/s | ETA: 00:00:00 | 100%
C:\Users\maryw\Desktop>
```

🔍 Search for anything   ...   7:09 PM 6/10/2020

← → C bethletech.exeterlms.com/student/53448/lesson/43679/topic/379816

PuTTY is installed on your computer. By default, it is install
out the `;%PATH%` above.

Verify Transfer

Now, if you would like to check and make sure that the `hackathon`
follow these steps:

1. Connect to the EC2 server using `ssh` or `PuTTY`, depending o
   recall how, check the **Transfer Setup** section above.

2. Once you are logged in, run:

   ```
   ls
   ```

   - This command will list out all files and folders within
     the `hackathon-starter` folder.

3. Next, `cd` into the `hackathon-starter` folder and then run `ls` again.

   - You should now see all files that were within your local `hackathon-starter` project that you transferred. - You
     may be asking yourself, why doesn't this `hackathon-starter` folder contain another `hackathon-starter` folder?
     It doesn't contain another folder because you transferred all *contents* of your local `hackathon-starter` project
     and not the root folder itself.

4. Now that you know the project was transferred correctly, you need to run `npm install` to re-install the `node_modules`:

   ```
   npm install
   ```

   - When running this command, stay in the `hackathon-starter` directory.

Run the Application

```
ubuntu@ip-172-31-57-114: ~

Using username "ubuntu".
Authenticating with public key "imported-openssh-key" from agent
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.4.0-1105-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

49 packages can be updated.
37 updates are security updates.

New release '18.04.4 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Wed Jun 10 21:50:16 2020 from 136.34.36.31
ubuntu@ip-172-31-57-114:~$ ls
riot-express-todo-list
ubuntu@ip-172-31-57-114:~$ rm -rf riot-express-todo-list
ubuntu@ip-172-31-57-114:~$ ls
deployment-handson-two
ubuntu@ip-172-31-57-114:~$
```

← → C bethletech.exeterlms.com/student/53448/lesson/43678/topic/379810

Dedicated Hosts	Instance: i-0c7cd220437f69fdc	Public DNS: ec2-52-14-202-248.us-east-

IMAGES
AMIs
Bundle Tasks

ELASTIC BLOCK STORE
Volumes
Snapshots

Description   Status Checks   Monitoring   Tags

Instance ID   i-0c7cd220437f69fdc

Instance state   running
Instance type   t2.micro

🗨 Feedback   ● English (US)   © 2008 - 2017, Amazon Web Services, Inc. or its affi

Copy and paste this value into the browser and append `:8080` at the end. For exa
displayed in the image above is: `ec2-52-14-202-248.us-east-2.compute.amazonaws.c`
is a *port* and is necessary to include as the web application running on EC2 is runnin

Hackathon Starter Homepage:

```
ubuntu@ip-172-31-57-114: ~/deployment-handson-two

Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu xenial-backports InReleas
[107 kB]
Ign:4 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.4 InRelease
Hit:5 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.4 Release
Hit:6 http://security.ubuntu.com/ubuntu xenial-security InRelease
Hit:7 https://deb.nodesource.com/node_8.x xenial InRelease
Fetched 216 kB in 0s (475 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-57-114:~/deployment-handson-two$ sudo apt-get install -y mong
b-org
Reading package lists... Done
Building dependency tree
Reading state information... Done
mongodb-org is already the newest version (3.4.24).
0 upgraded, 0 newly installed, 0 to remove and 45 not upgraded.
ubuntu@ip-172-31-57-114:~/deployment-handson-two$ sudo service mongod start
ubuntu@ip-172-31-57-114:~/deployment-handson-two$
ubuntu@ip-172-31-57-114:~/deployment-handson-two$ npm start

> nodejs-riot-todo@1.0.0 start /home/ubuntu/deployment-handson-two
> node app.js

Todo app listening at port 3000
```

ec2-52-14-202-248.us-east-2.compute.amazonaws.co

Home - Hackathon Starter

🔷 Project name   HOME   API EXAMPLES   CONTACT   STATUS   LOGIN   CREATE ACCOUNT
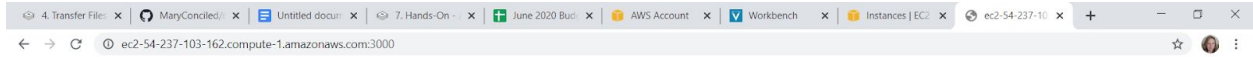
Hackathon Starter

A boilerplate for Node.js web applications.

Heading

Donec id elit non mi porta gravida at eget metus. Fusce dapibus, tellus
ac cursus commodo, tortor mauris condimentum nibh, ut fermentum
massa justo sit amet risus. Etiam porta sem malesuada magna mollis

Heading

Donec id elit non mi porta gravida at eget metus. Fusce dapibus, tellus
ac cursus commodo, tortor mauris condimentum nibh, ut fermentum
massa justo sit amet risus. Etiam porta sem malesuada magna mollis

ec2-54-237-103-162.compute-1.amazonaws.com:3000

This site can't be reached

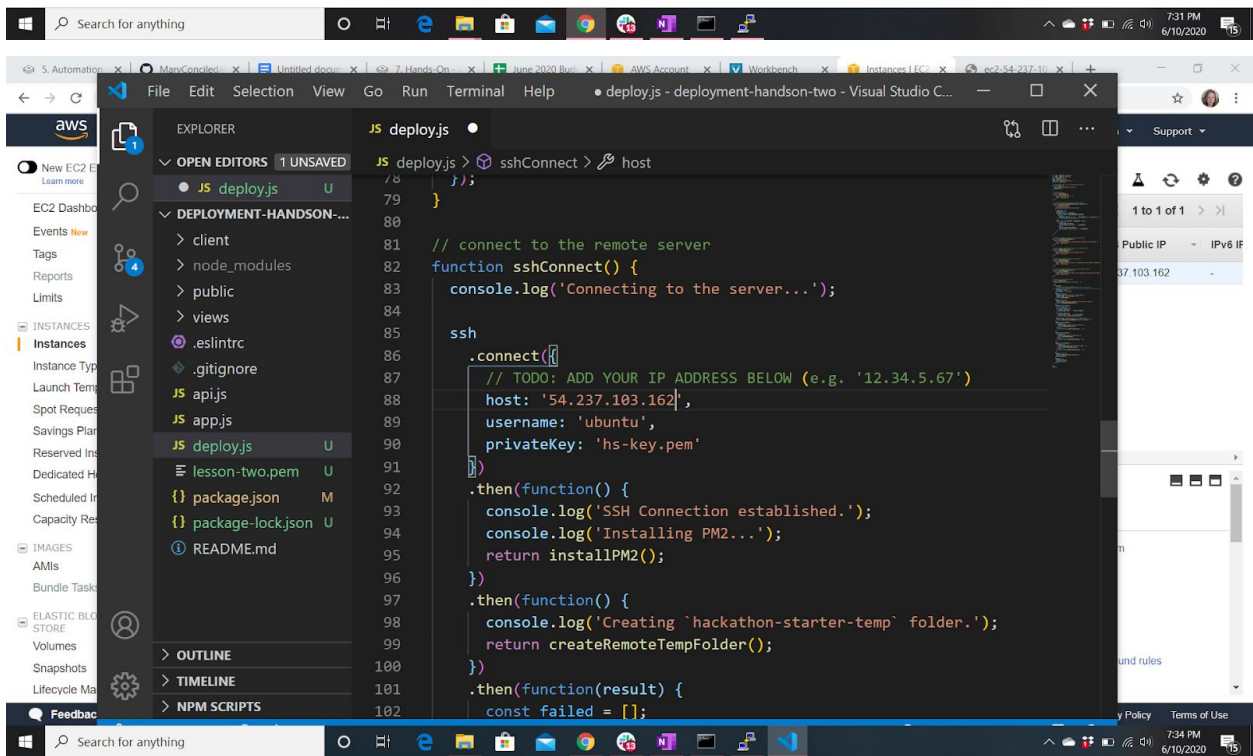**ec2-54-237-103-162.compute-1.amazonaws.com** took too long to respond.

Try:

- Checking the connection
- Checking the proxy and the firewall
- Running Windows Network Diagnostics

ERR_CONNECTION_TIMED_OUT

Reload   Details

Search for anything

7:31 PM
6/10/2020

File Edit Selection View Go Run Terminal Help   ● deploy.js - deployment-handson-two - Visual Studio C...

EXPLORER   JS deploy.js ●

∨ OPEN EDITORS   1 UNSAVED   JS deploy.js > ⟨⟩ sshConnect > 🔧 host
    ● JS deploy.js   U

∨ DEPLOYMENT-HANDSON-...

```javascript
78      });
79    }
80
81    // connect to the remote server
82    function sshConnect() {
83      console.log('Connecting to the server...');
84
85      ssh
86        .connect({
87          // TODO: ADD YOUR IP ADDRESS BELOW (e.g. '12.34.5.67')
88          host: '54.237.103.162',
89          username: 'ubuntu',
90          privateKey: 'hs-key.pem'
91        })
92        .then(function() {
93          console.log('SSH Connection established.');
94          console.log('Installing PM2...');
95          return installPM2();
96        })
97        .then(function() {
98          console.log('Creating `hackathon-starter-temp` folder.');
99          return createRemoteTempFolder();
100       })
101       .then(function(result) {
102         const failed = [];
```

> client
> node_modules
> public
> views
◎ .eslintrc
  .gitignore
JS api.js
JS app.js
JS deploy.js   U
≡ lesson-two.pem   U
{} package.json   M
{} package-lock.json   U
ⓘ README.md

> OUTLINE
> TIMELINE
> NPM SCRIPTS

Search for anything

7:34 PM
6/10/2020

ec2-54-237-103-162.compute-1.amazonaws.com:8080

This site can't be reached

ec2-54-237-103-162.compute-1.amazonaws.com refused to connect.

Try:

- Checking the connection
- Checking the proxy and the firewall

ERR_CONNECTION_REFUSED

Reload   Details