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**CSCI-E91 Cloud Devops: Assignment 1**

**Problem 1:**

1. The VM setup was successful with Ubuntu on 1 core, 4Gb ram, 10Gb secondary and default network connectivity.
2. Network connectivity was successful as shown demonstrated in using wget and curl commands as demonstrated in the screenshot below,



```
stakes@CSCI91:~$ wget google.com
--2018-09-27 10:36:33-- http://google.com/
Resolving google.com (google.com)... 172.217.6.78, 2607:f8b0:4005:80a::200e
Connecting to google.com (google.com)|172.217.6.78|:80... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: http://www.google.com/ [following]
--2018-09-27 10:36:33-- http://www.google.com/
Resolving www.google.com (www.google.com)... 172.217.6.36, 2607:f8b0:4005:805::2004
Connecting to www.google.com (www.google.com)|172.217.6.36|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]
Saving to: 'index.html'

index.html           [ <=> ] 12.86K  ---KB/s  in 0.01s

2018-09-27 10:36:33 (1.26 MB/s) - 'index.html' saved [13167]

stakes@CSCI91:~$ curl google.com
<HTML><HEAD><meta http-equiv="content-type" content="text/html; charset=utf-8">
<TITLE>301 Moved</TITLE></HEAD><BODY>
<H1>301 Moved</H1>
The document has moved
<A HREF="http://www.google.com/">here</A>.
</BODY></HTML>
stakes@CSCI91:~$ python3 --version
Python 3.6.6
```

3. As also shown above, Python3 was already preinstalled in the ubuntu VM.
4. Pip3 and boto3 were successfully installed using the following commands
  - a. `sudo apt-get install python3-pip`
  - b. `sudo pip3 install boto3`
5. Notebook was installed successfully and Jupyter notebook ran using the following commands
  - a. `sudo apt-get install notebook`
  - b. `jupyter notebook`
6. My preferred Text editor is currently sublime

**Problem 2:**

1. My code.harvard.edu repository name is "cscie-91\_sta83 and all teaching staff have been added as collaborators
2. The SSH keys were successfully created locally and public key uploaded to code.harvard.edu as evidenced by the keypair permissions and location shown in the image below

```

stakes@CSCI91:~/ssh$ ll
total 16
drwx----- 2 stakes stakes 4096 Sep 27 11:52 ./
drwxr-xr-x 17 stakes stakes 4096 Sep 27 11:18 ../
-rw----- 1 stakes stakes 1675 Sep 27 11:52 id_rsa
-rw-r--r-- 1 stakes stakes 395 Sep 27 11:52 id_rsa.pub
stakes@CSCI91:~/ssh$ pwd
/home/stakes/ssh

```

3. The git repository was successfully cloned locally and the README file modified, staged, committed and pushed as directed in the assignment instructions as shown below

The screenshot shows a GitHub repository page for a user named 'sta283'. At the top, it displays repository statistics: 2 commits, 1 branch, 0 releases, and 1 contributor. Below this is a navigation bar with buttons for 'Tree: 498c9f0815', 'New pull request', 'Create new file', 'Upload files', 'Find file', and 'Clone or download'. The main content area shows a commit history table with one entry: 'Initial Line/description added' by 'sta283' 4 hours ago. Below the table, the 'README.md' file is displayed, showing the title 'cscie-91\_sta283' and a description: 'This is the first CSCI E-91 repo'.

### Problem 3:

1. The bash script was completed as named "system\_data\_script.sh" and its result named "system\_data\_script\_result.txt" under "assignment1" directory in the repository
2. The python script was completed and named "max\_int.py" under "assignment1" directory in the repository
3. The python script was completed and named "quote\_dictionary.py" under "assignment1" directory in the repository

Please let me know if you have any concerns or questions. Thanks!