Assignment 4 – Virtual Machines DS 561 – Cloud Computing

Vishwas Bhaktavatsala U74206902

vishwasb@bu.edu

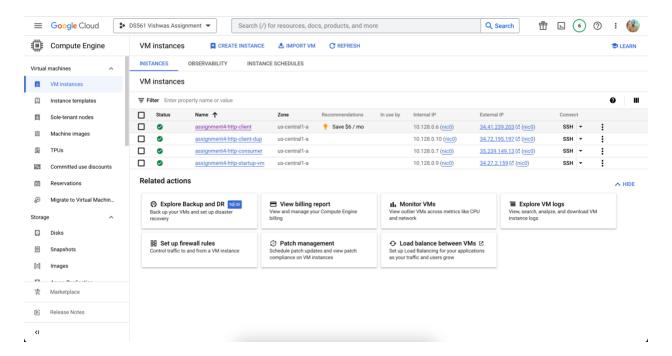
GitHub Url: https://github.com/vishwas21/DS561-vishwas-assignments

IP Address to hit for the first app: <a href="http://34.27.2.159:8080/<fileName/filePath">http://34.27.2.159:8080/<fileName/filePath>

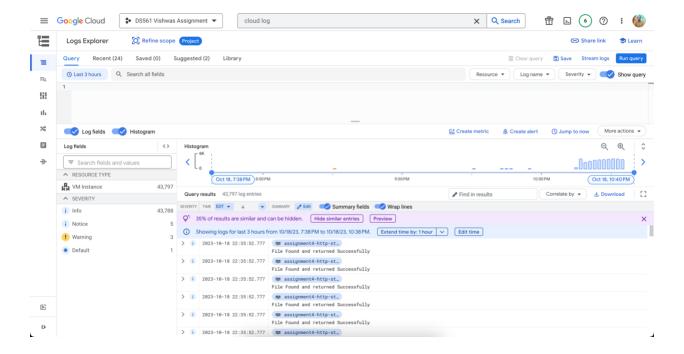
Command used to create and deploy the VMs is in the Readme.md

The startup script which was used to configure the VMs to have everything setup on creation is added in the startup.sh in the github repository.

Below are few the screenshots which were taken as proof.



Cloud Logging:



Browser Request Screenshots:



Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

This is a link

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

This is a link

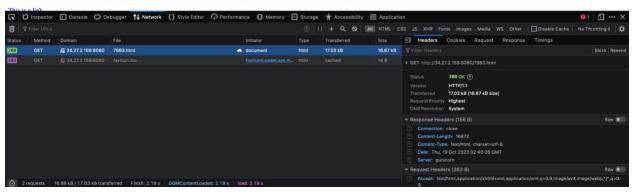
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

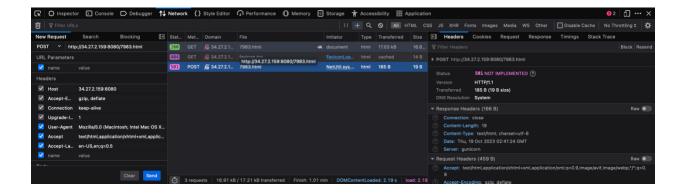
This is a link

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

This is a link

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

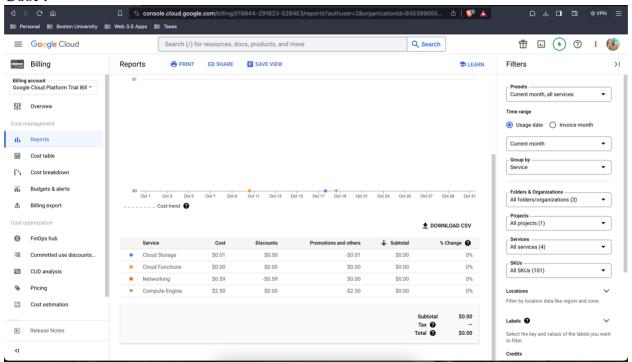




Stress Test:

First Tested with two parallel terminals – execution time was very high ~ 20 min

Cost:



vishwasb — vishwasb@assignment4-http-client-dup: ~ — ssh • Python -...

onsequat. Duis aute irure dolor in reprehenderit in voluptate velit esse\ncillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident , sunt in culpa qui officia deserunt mollit anim id est laborum.\n\n This is a link \n\nLorem ipsum dolor sit amet, consectetur ad ipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua . Ut enim ad\nminim veniam, quis nostrud exercitation ullamco laboris nisi ut al iquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in volupta te velit esse\ncillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat c upidatat non proident, sunt in culpa qui officia deserunt mollit anim id est lab orum.\n\n This is a link \n\nLorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore e t dolore magna aliqua. Ut enim ad\nminim veniam, quis nostrud exercitation ullam co laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in rep rehenderit in voluptate velit esse\ncillum dolore eu fugiat nulla pariatur. Exce pteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt m ollit anim id est laborum. $\n\n< a HREF="8773.html"> This is a link \n\n$ Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor i ncididunt ut labore et dolore magna aliqua. Ut enim ad\nminim veniam, quis nostr ud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis au te irure dolor in reprehenderit in voluptate velit esse\ncillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa q ui officia deserunt mollit anim id est laborum.\n\n This is a link \n\n</body>\n</html>\n'

vishwasb@assignment4-http-client-dup:~\$

is nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehender it in voluptate velit esse\ncillum dolore eu fugiat nulla pariatur. Excepteur si nt occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit an im id est laborum. $\n\n This is a link <math>\n\nLorem ipsu$ m dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad\nminim veniam, quis nostrud exercit ation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure d olor in reprehenderit in voluptate velit esse\ncillum dolore eu fugiat nulla par iatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.\n\n This is a link < /a>\n\nLorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmo d tempor incididunt ut labore et dolore magna aliqua. Ut enim ad\nminim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequa t. Duis aute irure dolor in reprehenderit in voluptate velit esse\ncillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.\n\n This is a link \n\nLorem ipsum dolor sit amet, consectetur adipiscin g elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut en im ad\nminim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip e x ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate veli t esse\ncillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidata t non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.\n $\n< HREF="73.html"> This is a link \n\n</bdy>\n</html>\n'$ vishwasb@assignment4-http-client:~\$

Consumer Vm – Output

```
vishesb@asignment(-http-comsumer:$ source _/env/bin/activate

(ann) vishesb@asignment(-http-comsumer:$ pythond consumerApp.py

Listening for messages on projects/ds561-vish-asignment/subscriptions/ds561-asignment3-sub..

Received the message from pub is ('country': 'Lipa', 'request': 'GET', 'args': 'ImmutableWaltiDict([])', 'data': 'b\\'', 'message': 'Request from an unsuthorized country')'.

Received the message from pub is ('country': 'Lipa', 'request': 'GET', 'args': 'ImmutableWaltiDict([])', 'data': 'b\\'', 'message': Request from an unsuthorized country')'.

Received the message from pub is ('country': 'Lipa', 'request': 'GET', 'args': 'ImmutableWaltiDict([])', 'data': 'b\\'', 'message': Request from an unsuthorized country')'.

Received the message from pub is ('country': 'Lipa', 'request': 'GET', 'args': 'ImmutableWaltiDict([])', 'data': 'b\\'', 'message': 'Request from an unsuthorized country')'.

Received the message from pub is ('country': 'Lipa', 'request': 'GET', 'args': 'ImmutableWaltiDict([])', 'data': 'b\\'', 'message': 'Request from an unsuthorized country')'.

Received the message from pub is ('country': 'Lipa', 'request': 'GET', 'args': 'ImmutableWaltiDict([])', 'data': 'b\\'', 'message': 'Request from an unsuthorized country')'.

Received the message from pub is ('country': 'Lipa', 'request': 'GET', 'args': 'ImmutableWaltiDict([])', 'data': 'b\\'', 'message': 'Request from an unsuthorized country')'.

Received the message from pub is ('country': 'Lipa', 'request': 'GET', 'args': 'ImmutableWaltiDict([])', 'data': 'b\\'', 'message': 'Request from an unsuthorized country')'.

Received the message from pub is ('country': 'Lipa', 'request': 'GET', 'args': 'ImmutableWaltiDict([])', 'data': 'b\\'', 'message': 'Request from an unsuthorized country')'.

Received the message from pub is ('country': 'Lipa', 'request': 'GET', 'args': 'ImmutableWaltiDict([])', 'data': 'b\\'', 'message': 'Request from an unsuthorized country')'.

Received the message from pub is ('country': 'Lipa', 'request': 'GET', 'args'
```