Kishan Bhakta CMPSCI 4750 Lab 1

1.5.4

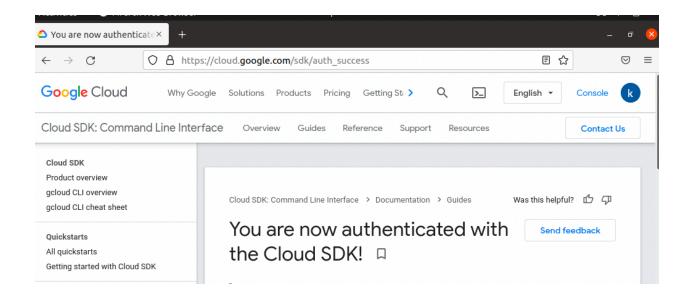
cishansgooglecloud@kishansgooglecloud-VirtualBox:-\$ gcloud auth application-default login
Your browser has been opened to visit:

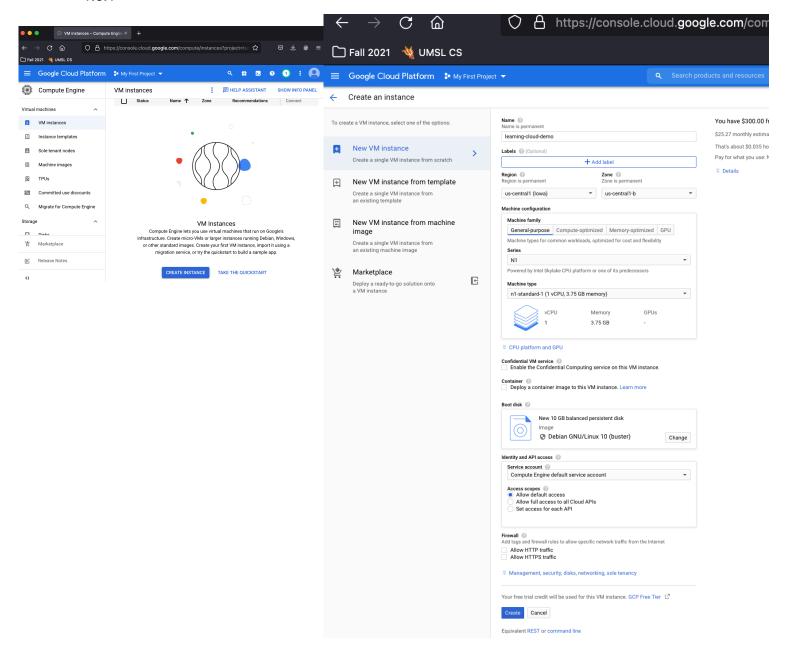
https://accounts.google.com/o/oauth2/auth?response_type=code&client_id=764086051850-6qr
4p6gpi6hn506pt8ejuq83di341hur.apps.googleusercontent.com&redirect_uri=http%3A%2F%2Flocalhos
t%3A8085%2F&scope=openid+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fuserinfo.email+https%3A%
2F%2Fwww.googleapis.com%2Fauth%2Fcloud-platform+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fa
ccounts.reauth&state=aKQjGzlgp5a0bkJukU5l794HTHwV72&access_type=offline&code_challenge=S4r0
e2CYdRqpn3pAjv0DjjMCsqa_RQ7NBotacfq_TxQ&code_challenge_method=S256

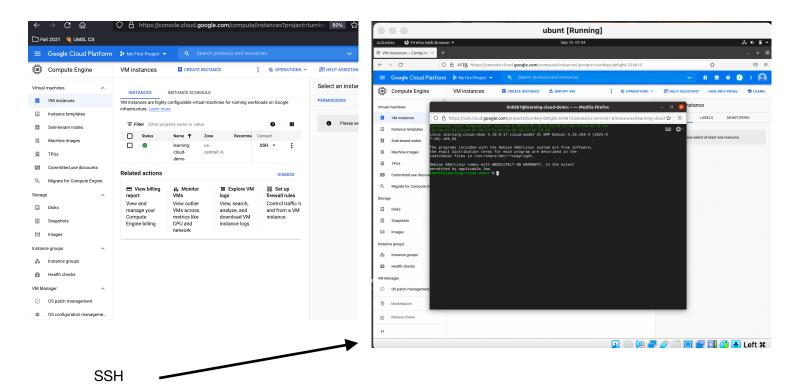
Credentials saved to file: [/home/kishansgooglecloud/.config/gcloud/application_default_cre
dentials.json]

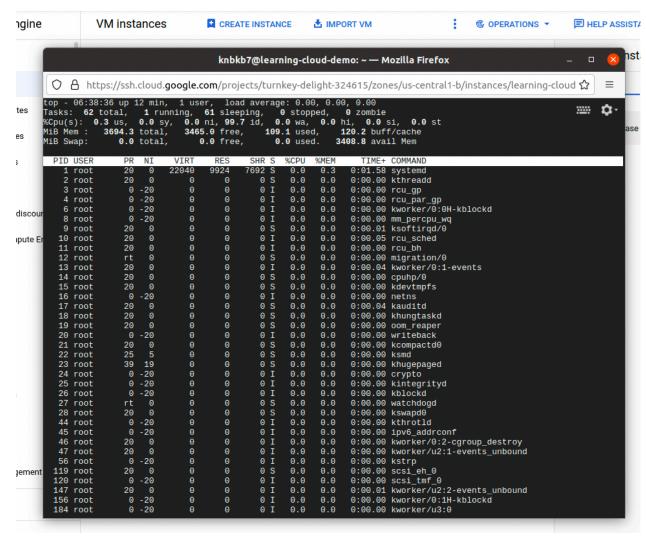
These credentials will be used by any library that requests Application Default Credentials
(ADC).

WARNING:
Cannot find a quota project to add to ADC. You might receive a "quota exceeded" or "API not
enabled" error. Run \$ gcloud auth application-default set-quota-project to add a quota pro
ject.









```
Run `gcloud topic --help` to learn about advanced features of the SDK like arg files and output fo
 kishansgooglecloud@kishansgooglecloud-VirtualBox:~$ gcloud compute instances list
                                               MACHINE TYPE
                                                                    PREEMPTIBLE INTERNAL IP EXTERNAL IP
                            ZONE
learning-cloud-demo us-central1-b n1-standard-1
                                                                                     10.128.0.2
                                                                                                      35.194.27.66 RUNNING
 cishansgooglecloud@kishansgooglecloud-VirtualBox:~$
                                                                                                     lecloud-VirtualBox:~$ gcloud compute ssh learning-cloud-demo
          The private SSH key file for gcloud does not exist. The public SSH key file for gcloud does not exist. You do not have an SSH key for gcloud. SSH keygen will be executed to generate a key.
Generating public/private rsa key pair.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/kishansgooglecloud/.ssh/google_compute_engine
Your public key has been saved in /home/kishansgooglecloud/.ssh/google compute engine.pub
The key fingerprint is:
SHA256:KVei04HRCPsYzn/8pj/9RT7BI6tNsrYeJd7TT9p0IM4 kishansgooglecloud@kishansgooglecloud-VirtualBox
The key's randomart image is: +---[RSA 3072]----+
    0 + 0 =
       . = .0+.++0
        . o =E= o=
         . .0.0 .*0
           .+=*.00.+
   ---[SHA256]----
No zone specified. Using zone [us-centrall-b] for instance: [learning-cloud-demo].
Updating project ssh metadata...:Updated [https://www.googleapis.com/compute/v1/projects/turnkey-delight-324615].
Updating project ssh metadata...done.
Waiting for SSH key to propagate.
Warning: Permanently added 'compute.8758044734786383677' (ECDSA) to the list of known hosts.
Linux learning-cloud-demo 4.19.0-17-cloud-amd64 #1 SMP Debian 4.19.194-3 (2021-07-18) x86 64
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
 ishansgooglecloud@learning-cloud-demo:~$
```

1.6.3

```
kishansgooglecloud@learning-cloud-demo:~ $ sudo apt-get install nodejs

Reading package lists... Done

Building dependency tree

Reading state information... Done

The following additional packages will be installed:
    libatomic1 libbrotli1 libc-ares2 libicu63 libnode64 libuv1 nodejs-doc

Suggested packages:
    npm

The following NEW packages will be installed:
    libatomic1 libbrotli1 libc-ares2 libicu63 libnode64 libuv1 nodejs nodejs-doc

0 upgraded, 8 newly installed, 0 to remove and 0 not upgraded.

Need to get 15.5 MB of archives.

After this operation, 64.3 MB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 http://security.debian.org/debian-security buster/updates/main amd64 libc-ares2 amd64 1.14.0-1+deb10u1 [86.1 kB]

Get:2 http://deb.debian.org/debian buster/main amd64 libatomic1 amd64 8.3.0-6 [9032 B]

Get:4 http://deb.debian.org/debian buster/main amd64 libbrotli1 amd64 1.0.7-2+deb10u1 [269 kB]

Get:4 http://security.debian.org/debian-security buster/updates/main amd64 libuv1 amd64 1.24.1-1+deb10u1 [110 kB]
```

1.6.3 continued

```
kishansgooglecloud@kishansgooglecloud-VirtualBox:~$ nodejs -v
v10.19.0
kishansgooglecloud@kishansgooglecloud-VirtualBox:~$ npm -v
6.14.4
kishansgooglecloud@kishansgooglecloud-VirtualBox:~$
```

```
+ @google-cloud/compute@0.7.2
updated 1 package and audited 116 packages in 3.344s
found 2 high severity vulnerabilities
   run `npm audit fix` to fix them, or `npm audit` for details
kishansgooglecloud@kishansgooglecloud-VirtualBox:~$ node script.js
Getting your VMs...
Found a VM called learning-cloud-demo
Done.
kishansgooglecloud@kishansgooglecloud-VirtualBox:~$
```

```
kishansqooglecloud@kishansgooglecloud-VirtualBox:~$ cat script.js
const Compute = require('@google-cloud/compute');
const compute = new Compute();
const zone = compute.zone('us-central1-b');
console.log('Getting your VMs...');
zone.getVMs().then((data) => {
        data[0].forEach((vm) => {
                console.log('Found a VM called', vm.name);
                console.log('Stopping', vm.name, '...');
                vm.stop((err, operation) => {
                        operation.on('complete', (err) => {
                                console.log('Stopped', vm.name);
                        });
                });
       });
kishansgooglecloud@kishansgooglecloud-VirtualBox:~$ node script.js
Getting your VMs...
Found a VM called learning-cloud-demo
Stopping learning-cloud-demo ...
Stopped learning-cloud-demo
kishansgooglecloud@kishansgooglecloud-VirtualBox:~$
```