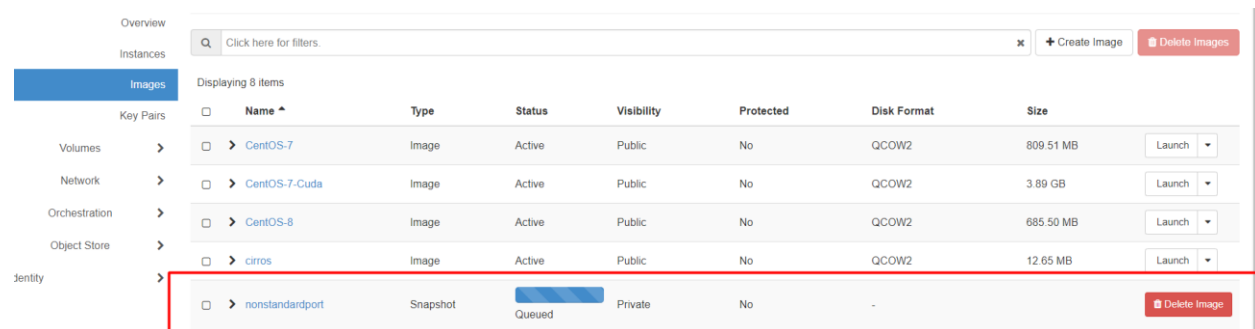


Name: Md Touhidul Islam	Server Technology Part 2	Topic: Apache as a reverse proxy to a web application
Date: 05/05/2021		

Task 1:

First, took a snapshot from cPouta instances.



Task 2:

Started simple http server to some nonstandard port.

Command:

```
$ cd /opt/stec/localtips
$ ls
... 1.txt, 2.txt ..
$ python -m http.server 4010 &
```

```
# apt install net-tools
# netstat -anp | grep "LISTEN "
```

```

mdti@virtual-ubuntu-server:~$ sudo -i
root@virtual-ubuntu-server:~# apt install net-tools
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  net-tools
0 upgraded, 1 newly installed, 0 to remove and 33 not upgraded.
Need to get 196 kB of archives.
After this operation, 864 kB of additional disk space will be used.
Get:1 http://nova.clouds.archive.ubuntu.com/ubuntu focal/main amd64 net-tools amd64 1.60+git20180626.aebd88e-1ubuntu1 [196 kB]
Fetched 196 kB in 1s (380 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 127544 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20180626.aebd88e-1ubuntu1_amd64.deb ...
Unpacking net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Setting up net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Processing triggers for man-db (2.9.1-1) ...
root@virtual-ubuntu-server:~# netstat -anp | grep "LISTEN "
tcp        0      0 127.0.0.0:53:53          0.0.0.0:*                LISTEN      511/systemd-resolve
tcp        0      0 0.0.0.0:22              0.0.0.0:*                LISTEN      938/sshd: /usr/sbin
tcp6       0      0 :::80                   :::*                    LISTEN      7905/apache2
tcp6       0      0 :::22                   :::*                    LISTEN      938/sshd: /usr/sbin
tcp6       0      0 :::443                  :::*                    LISTEN      7905/apache2
root@virtual-ubuntu-server:~#

```

Try out accessing the service from cli and browser.

Trying with curl command but doesn't work.

```

$ curl localhost:4010
$ curl localhost:4010/1.txt

```

```

mdti@virtual-ubuntu-server:~$ curl localhost:4010
curl: (7) Failed to connect to localhost port 4010: Connection refused
mdti@virtual-ubuntu-server:~$ curl localhost:4010/1.txt
curl: (7) Failed to connect to localhost port 4010: Connection refused
mdti@virtual-ubuntu-server:~$

```

Task 3:

Configuring Pouta Security group rules to get access with browser to the server.