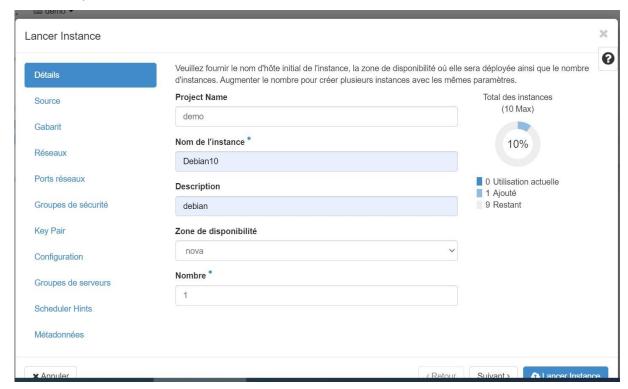
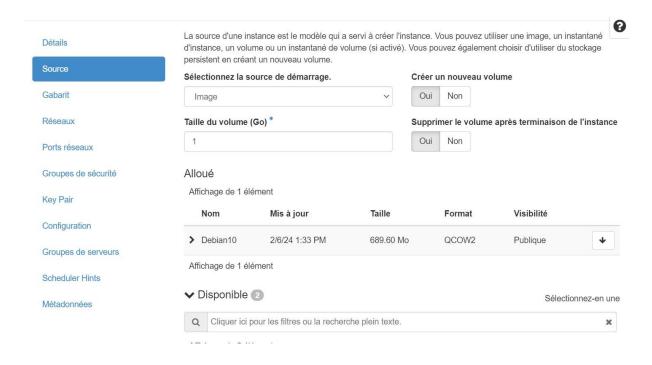
RAPPORT TP OPENSTACK

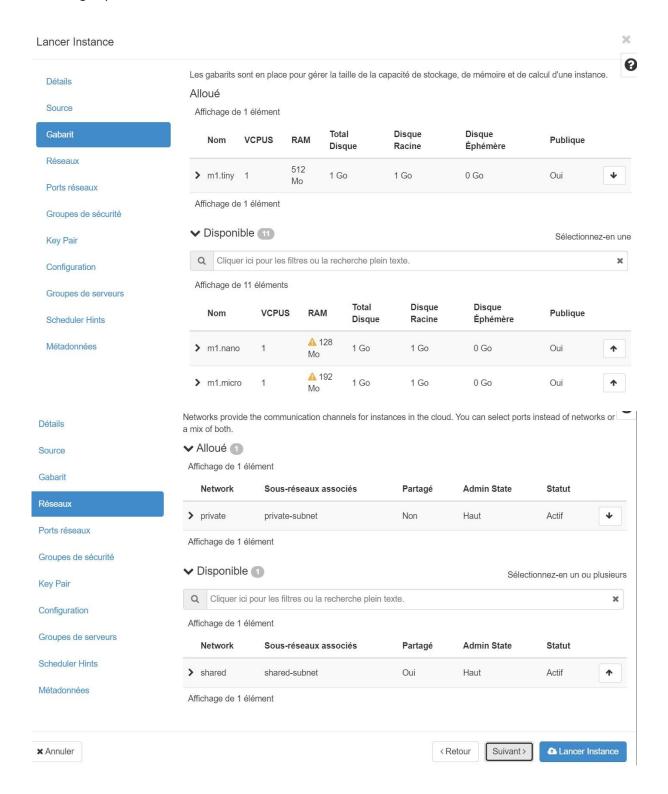


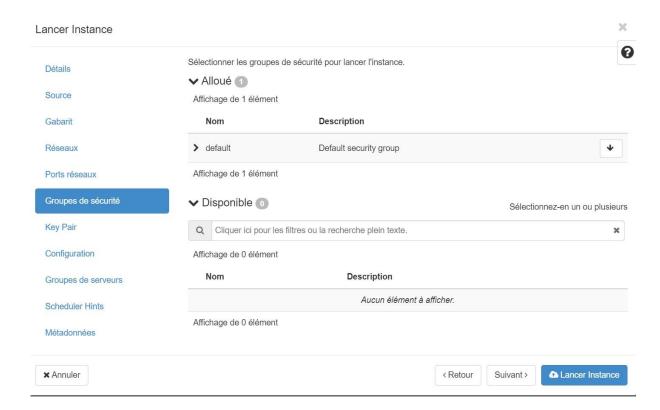
Après la création de la VM j'ai installé Debian.

Par la suite, je devais lancer une nouvelle instance :









J'ai alloué une adresse ip flottante au projet en associant les ip.

De plus, j'ai vérifié le bon fonctionnement en se connectant en ssh via PuTTY à l'adresse du serveur OpenStacks pour réaliser un ping sur l'adresse IP de l'instance.

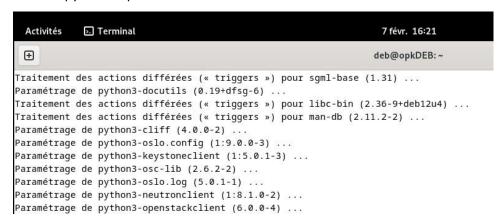
```
₽ 172.16.100.11 - PuTTY
                                                                                       X
   login as: root
   root@172.16.100.11's password:
Linux debian 6.1.0-17-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.69-1 (2023-12-30)
The programs included with the Debian GNU/Linux system 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.
Last login: Wed Feb 7 15:16:55 2024 from 172.16.1.115
root@debian:~# ping 172.16.100.68
PING 172.16.100.68 (172.16.100.68) 56(84) bytes of data.
64 bytes from 172.16.100.68: icmp_seq=1 ttl=64 time=0.647 ms
64 bytes from 172.16.100.68: icmp_seq=2 ttl=64 time=0.288 ms
64 bytes from 172.16.100.68: icmp_seq=3 ttl=64 time=0.385 ms
64 bytes from 172.16.100.68: icmp_seq=4 ttl=64 time=0.324 ms
64 bytes from 172.16.100.68: icmp seq=5 ttl=64 time=0.416 ms
 -- 172.16.100.68 ping statistics ---
packets transmitted, 5 received, 0% packet loss, time 4088ms
rtt min/avg/max/mdev = 0.288/0.412/0.647/0.125 ms
 oot@debian:~#
```

J'ai vérifié si appache2 était bien installé à l'aide de la commande « sudo systemctl status apache2 ».

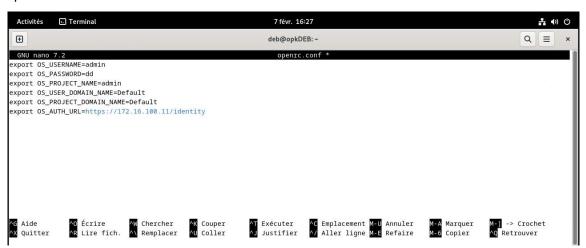
```
    apache2.service - The Apache HTTP Server

     Loaded: loaded (/lib/system/spstem/apache2.service; enabled; preset: enabled)
Active: active (running) since Wed 2024-02-07 09:56:38 CET; 6h ago
       Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 115526 (apache2)
      Tasks: 94 (limit: 19116)
     Memory: 410.7M
       CPU: 40.617s
     CGroup: /system.slice/apache2.service
               -115526 /usr/sbin/apache2 -k start
              —115528 "(wsgi:horizon)   " -k start
              -115529 "(wsgi:horizon)
               -115530 "(wsgi:horizon) " -k start
              -115531 /usr/sbin/apache2 -k start
              févr. 07 09:56:38 opkDEB systemd[1]: Starting apache2.service - The Apache HTTP Server...
févr. 07 09:56:38 opkDEB apachectl[115525]: AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using
févr. 07 09:56:38 opkDEB systemd[1]: Started apache2.service - The Apache HTTP Server.
lines 1-19
```

J'installe python3-openstackclient.



Ensuite je crée et configure le fichier de configuration openrc.conf afin de se connecter au projet OpenStack.



Je vérifie ensuite la connexion à OpenStack avec la commande openstack token issue :

root@opkDEB:/home/deb# openstack token issue
.

Field	Value	
expires	2024-02-07T16:36:50+0000	
id	gAAAAABlw6OS3bs6SkLrgWbV_2DffAVJfcWg-NGLCL5TPOornl_3gKtJCbSKPbZJsMIE1MEjFlf_77_q-tgDHLp3iw7CJhLticy1pDuiq-	
	bYGW0Dvbq5ab0K90S_DsYginuM2qxxc9drLf4RY4tXr0NPekAtFVE2BKT-pHhCj_gjtsK2HE-dY	
project_id	b65523249e9b4a318c4bcc45e01151dc	
user id	d9e2ce88cf314ecbacf7c38548f81d7c	