Práctica 7.Acceso remoto.
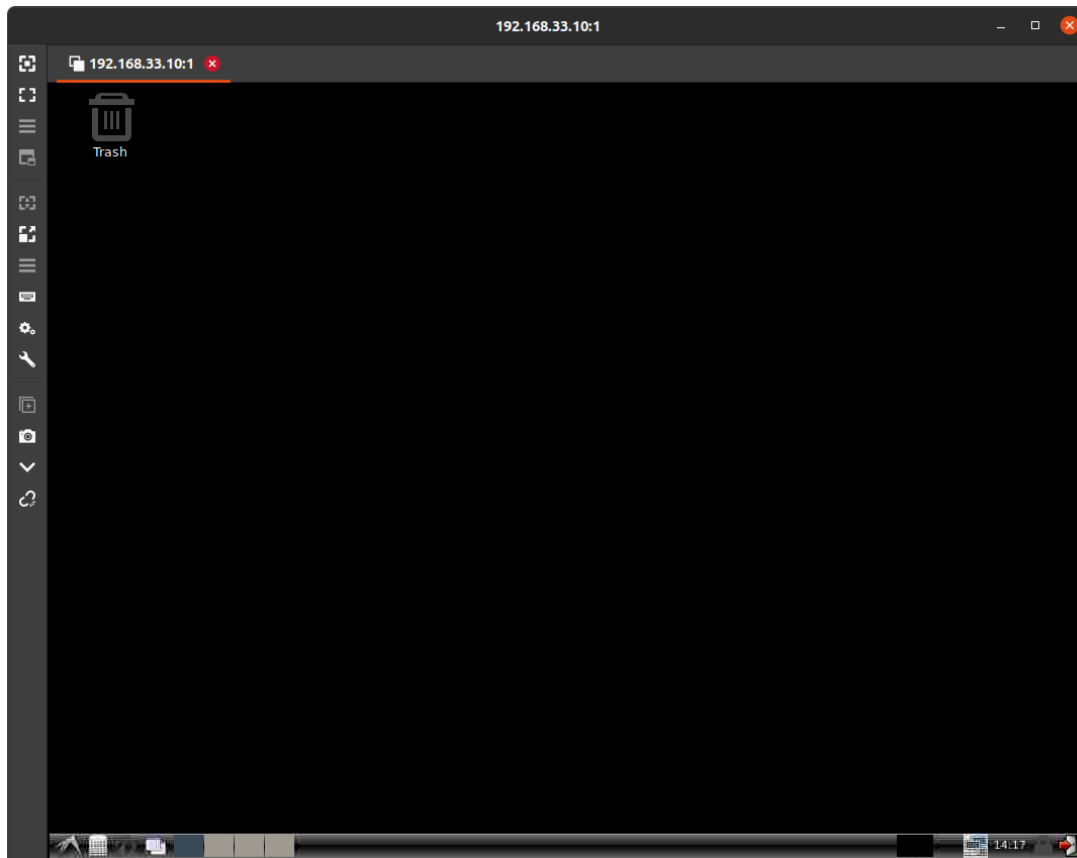
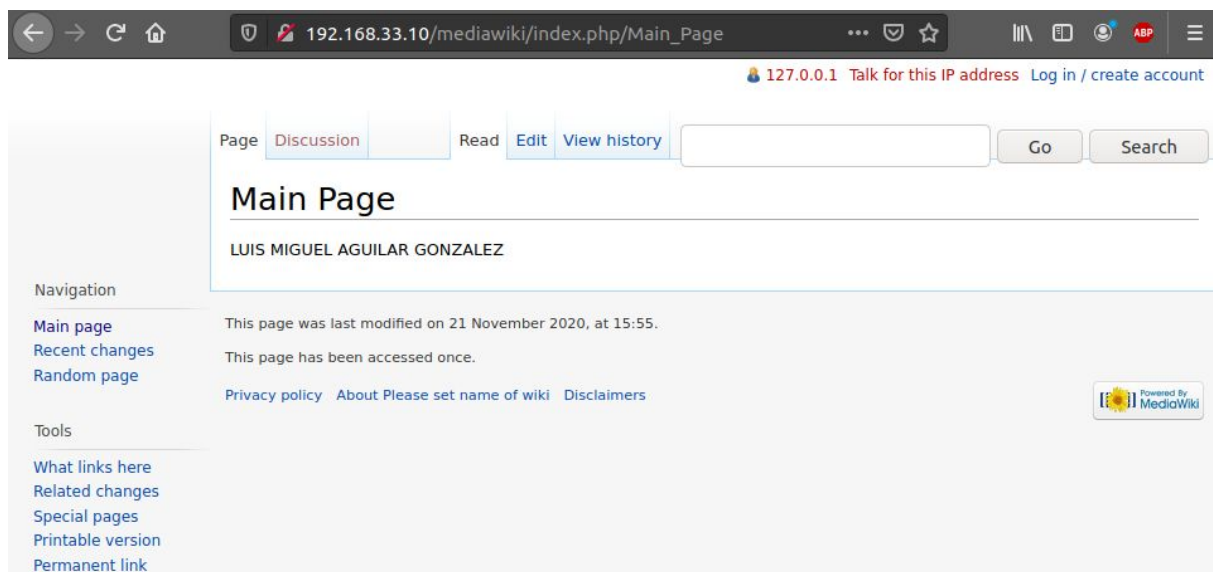Nombre: Luis Miguel Aguilar González

Para conectarme al escritorio vnc creado usaré un software llamado remmina:
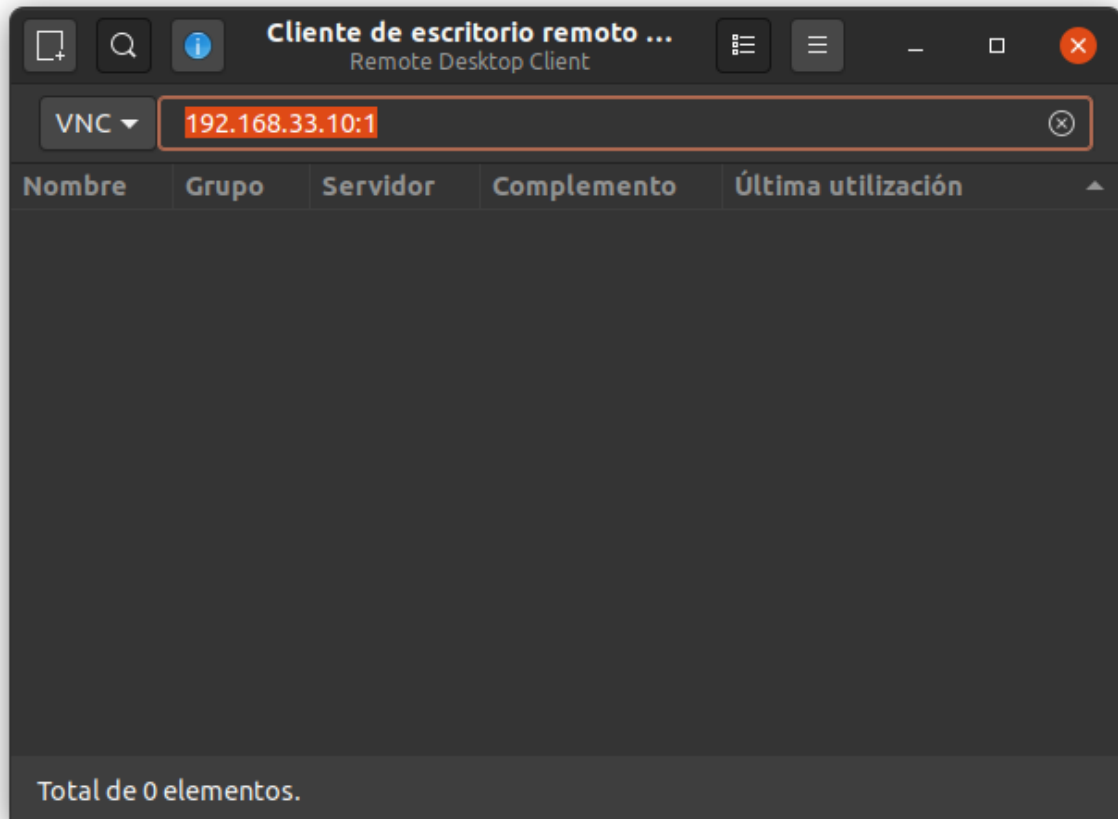
Nos conectamos usando la dirección IP de la máquina vagrant:

2.- Wiki modificado donde aparece el nombre del alumno

3.- Captura de ping a máquinas remotas

Mi compañero con IP 192.168.196.161 dentro de la red zerotier:

```
vagrant@ubuntu-focal:~$ ping 192.168.196.161
PING 192.168.196.161 (192.168.196.161) 56(84) bytes of data.
64 bytes from 192.168.196.161: icmp_seq=1 ttl=64 time=88.6 ms
64 bytes from 192.168.196.161: icmp_seq=2 ttl=64 time=34.4 ms
64 bytes from 192.168.196.161: icmp_seq=3 ttl=64 time=33.1 ms
64 bytes from 192.168.196.161: icmp_seq=4 ttl=64 time=33.7 ms
```

4.- acceso ssh a la máquina del compañero mediante ssh

```
vagrant@ubuntu-focal:~$ ssh root@192.168.196.161 -p 4522
Welcome to Ubuntu 20.04.1 LTS (GNU/Linux 5.4.0-52-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

  System information as of Sat Nov 21 18:17:20 UTC 2020

  System load:            0.0
  Usage of /home:         unknown
  Memory usage:           5%
  Swap usage:             0%
  Processes:              28
  Users logged in:        0
  IPv4 address for eth0:  10.75.123.125
  IPv6 address for eth0:  fd42:f504:34aa:7b22:216:3eff:fe10:8f04

1 update can be installed immediately.
0 of these updates are security updates.
To see these additional updates run: apt list --upgradable




The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

root@p7:~#
```
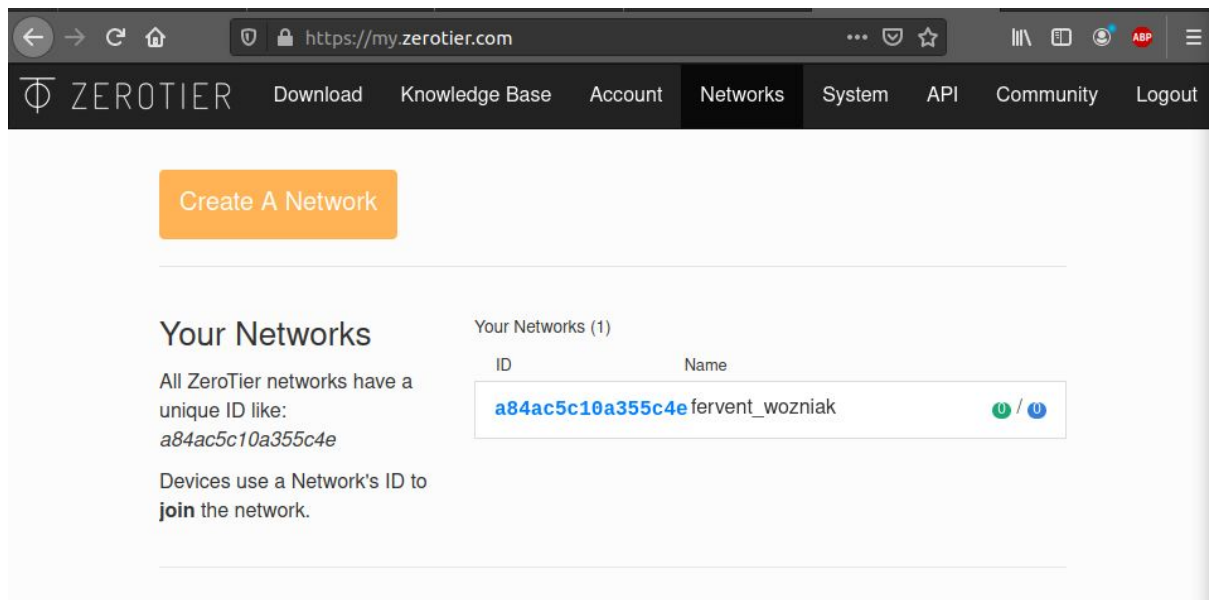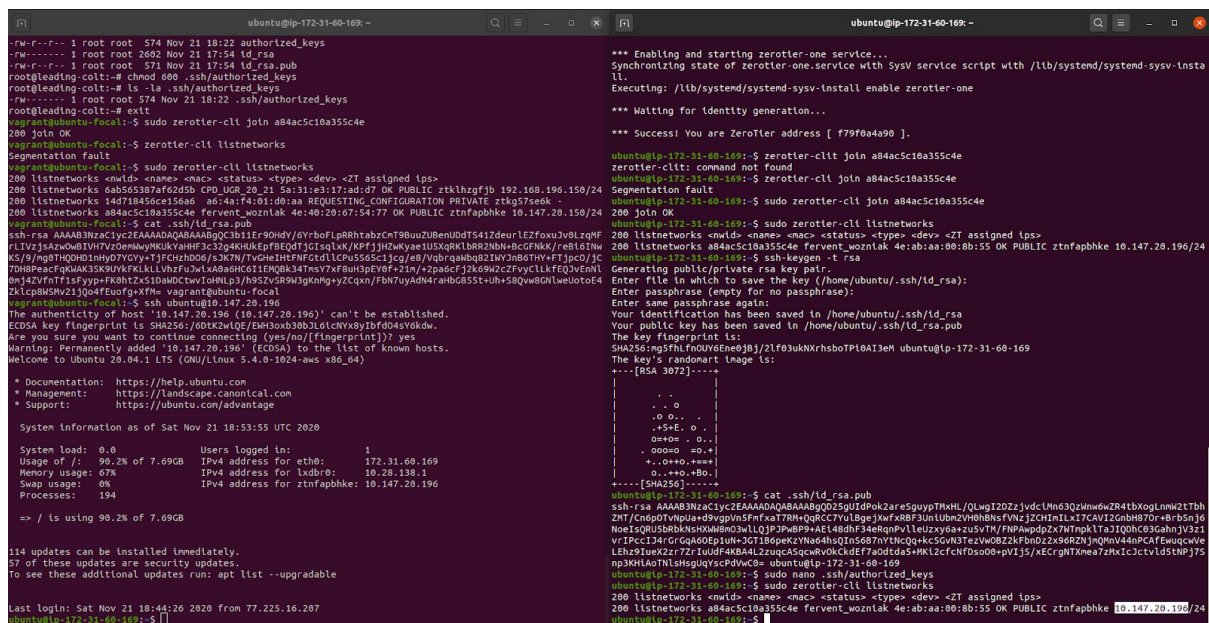
5.- (opcional) captura del ZeroTier con la creación de la nueva red

6.- (opcional) captura acceso remoto desde/hacia la máquina AWS a través de la red creada.

```
-rw-r--r-- 1 root root  574 Nov 21 18:22 authorized_keys
-rw------- 1 root root 2602 Nov 21 17:54 id_rsa
-rw-r--r-- 1 root root  571 Nov 21 17:54 id_rsa.pub
root@leading-colt:~# chmod 600 .ssh/authorized_keys
root@leading-colt:~# ls -la .ssh/authorized_keys
-rw------- 1 root root 574 Nov 21 18:22 .ssh/authorized_keys
root@leading-colt:~# exit
vagrant@ubuntu-focal:~$ sudo zerotier-cli join a84ac5c10a355c4e
200 join OK
vagrant@ubuntu-focal:~$ zerotier-cli listnetworks
Segmentation fault
vagrant@ubuntu-focal:~$ sudo zerotier-cli listnetworks
200 listnetworks <nwid> <name> <mac> <status> <type> <dev> <ZT assigned ips>
200 listnetworks 6ab565387af62d5b CPD_UGR_20_21 5a:31:e3:17:ad:d7 OK PUBLIC ztklhzgfjb 192.168.196.150/24
200 listnetworks 14d718456ce156a6  a6:4a:f4:01:d0:aa REQUESTING_CONFIGURATION PRIVATE ztkg57se6k -
200 listnetworks a84ac5c10a355c4e fervent_wozniak 4e:40:20:67:54:77 OK PUBLIC ztnfapbhke 10.147.20.150/24
vagrant@ubuntu-focal:~$ cat .ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQC3b11Er9OHdY/6YrboFLpRRhtabzCmT9BuuZUBenUDdTS41ZdeurlEZfoxuJv0LzqMF
rLIVzjsAzwOwBIVH7VzOemWwyMKUkYaHHF3c32g4KHUkEpfBEQdTjGIsqlxK/KPfjjHZwKyae1U5XqRKlbRR2NbN+BcGFNkK/reBi6INw
KS/9/mg0THQDHD1nHyD7YGYy+TjFCHzhDO6/sJK7N/TvGHeIHtFNFGtdllCPu5S65c1jcg/e8/VqbrqaWbq82IWYJnB6THY+FTjpcO/jC
7DH8PeacFqKWAK3SK9UYkFKLkLLVhzFuJwixA0a6HC6I1EMQBk34TmsY7xF8uH3pEY0f+21m/+2pa6cFj2k69W2cZFvyClLkfEQJvEnNl
0mj4ZVfnTf1sFyyp+FK0htZxS1DaWDCtwvIoHNLp3/h9SZvSR9W3gKnMg+yZCqxn/FbN7uyAdN4raHbG855t+Uh+S8Qvw8GNlweUotoE4
Zklcp8WSMv21jQo4fEuofg+XfM= vagrant@ubuntu-focal
vagrant@ubuntu-focal:~$ ssh ubuntu@10.147.20.196
The authenticity of host '10.147.20.196 (10.147.20.196)' can't be established.
ECDSA key fingerprint is SHA256:/6DtK2wiQE/EWH3oxb30bJL6icNYx8yIbfdO4sY6kdw.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.147.20.196' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 20.04.1 LTS (GNU/Linux 5.4.0-1024-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

  System information as of Sat Nov 21 18:53:55 UTC 2020

  System load:  0.0               Users logged in:            1
  Usage of /:   90.2% of 7.69GB   IPv4 address for eth0:      172.31.60.169
  Memory usage: 67%               IPv4 address for lxdbr0:    10.28.138.1
  Swap usage:   0%                IPv4 address for ztnfapbhke: 10.147.20.196
  Processes:    194


  => / is using 90.2% of 7.69GB



114 updates can be installed immediately.
57 of these updates are security updates.
To see these additional updates run: apt list --upgradable


Last login: Sat Nov 21 18:44:26 2020 from 77.225.16.207
ubuntu@ip-172-31-60-169:~$
```

```
*** Enabling and starting zerotier-one service...
Synchronizing state of zerotier-one.service with SysV service script with /lib/systemd/systemd-sysv-insta
ll.
Executing: /lib/systemd/systemd-sysv-install enable zerotier-one

*** Waiting for identity generation...

*** Success! You are ZeroTier address [ f79f0a4a90 ].

ubuntu@ip-172-31-60-169:~$ zerotier-clit join a84ac5c10a355c4e
zerotier-clit: command not found
ubuntu@ip-172-31-60-169:~$ zerotier-cli join a84ac5c10a355c4e
Segmentation fault
ubuntu@ip-172-31-60-169:~$ sudo zerotier-cli join a84ac5c10a355c4e
200 join OK
ubuntu@ip-172-31-60-169:~$ sudo zerotier-cli listnetworks
200 listnetworks <nwid> <name> <mac> <status> <type> <dev> <ZT assigned ips>
200 listnetworks a84ac5c10a355c4e fervent_wozniak 4e:ab:aa:00:8b:55 OK PUBLIC ztnfapbhke 10.147.20.196/24
ubuntu@ip-172-31-60-169:~$ ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/home/ubuntu/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/ubuntu/.ssh/id_rsa
Your public key has been saved in /home/ubuntu/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:mg5fhLfnOUY6Ene0jBj/2lf03ukNXrhsboTPi0AI3eM ubuntu@ip-172-31-60-169
The key's randomart image is:
+---[RSA 3072]----+
|                 |
|      . .        |
|     . . o       |
|    .o o..  .    |
|    .+S+E. o .   |
|    o=+o= . o..  |
|   . ooo=o  =o.+ |
|    +..o++o.+==+ |
|    o..++o.+Bo.  |
+----[SHA256]-----+
ubuntu@ip-172-31-60-169:~$ cat .ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQD25gUIdPok2areSguypTMxHL/QLwgI2DZzjvdciMn63QzWnw6wZR4tbXogLnmW2tTbh
ZMT/Cn6pOTvNpUa+d9vgpVn5FmfxaT7RM+QqRCC7YulBgejXwfxRBF3UniUbm2VH0hBNsfVNzjZCHImILxI7CAVI2GnbH87Or+BrbSnj6
NoeIsQRU5bRbkNsHXWW8mO3wlLQjPJPwBP9+AEi48dhF34eRqnPvlleUzxy6a+zu5vTM/FNPAwpdpZx7WTmpklTaJIQDhC03GahnjV3z1
vrIPccIJ4rGrGqA6OEp1uN+JGT1B6peKzYNa64hsQInS6B7nYtNcQq+kcSGvN3TezVwOBZ2kFbnDz2x96RZNjmQMnV44nPCAfEwuqcwVe
LEhz9IueX2zr7ZrIuUdF4KBA4L2zuqcASqcwRvOkCkdEf7aOdtda5+MKi2cfcNfDsoO0+pVIjS/xECrgNTXmea7zMxIcJctvld5tNPj7S
np3KHiAoTNlsHsgUqYscPdVwC0= ubuntu@ip-172-31-60-169
ubuntu@ip-172-31-60-169:~$ sudo nano .ssh/authorized_keys
ubuntu@ip-172-31-60-169:~$ sudo zerotier-cli listnetworks
200 listnetworks <nwid> <name> <mac> <status> <type> <dev> <ZT assigned ips>
200 listnetworks a84ac5c10a355c4e fervent_wozniak 4e:ab:aa:00:8b:55 OK PUBLIC ztnfapbhke 10.147.20.196/24
ubuntu@ip-172-31-60-169:~$
```