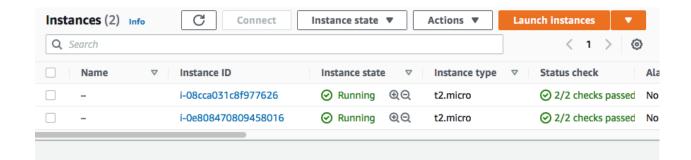
Create VMs / Transfer files

- You need the public address to connect to the VM
- The private IP address is displayed when inputting the ip a command

```
Last login: Tue Dec 14 16:56:59 on ttys002
(base)
0 ~
[joegriffin@wumbus: cd ~/Downloads
(base)
0 ~/Downloads
[joegriffin@wumbus: chmod 400 JG_data_54000.pem
(base)
0 ~/Downloads
[joegriffin@wumbus: ssh -i "JG_data_54000.pem" ec2-user@ec2-3-139-233-179.us-east-2.compute.amazonaws.com
Last login: Tue Dec 14 22:57:26 2021 from wumbus.fsm.northwestern.edu
                     Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-10-183 ~]$ ip a
[1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 9001 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 02:1c:78:a1:41:0c brd ff:ff:ff:ff:ff
    inet 172.31.10.183/20 brd 172.31.15.255 scope global dynamic eth0
       valid_lft 2545sec preferred_lft 2545sec
    inet6 fe80::1c:78ff:fea1:410c/64 scope link
       valid_lft forever preferred_lft forever
[ec2-user@ip-172-31-10-183 ~]$
```

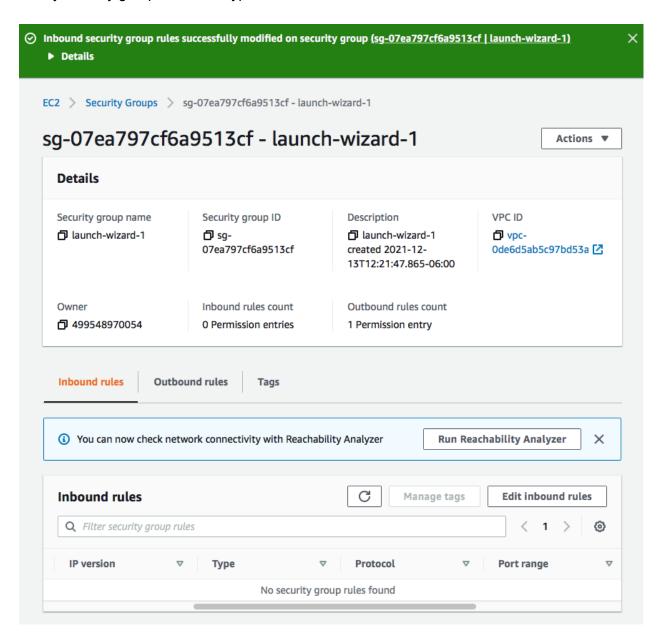


```
Last login: Tue Dec 14 16:52:51 on ttys000
(base)
0 ~
[joegriffin@wumbus: cd ~/Downloads
(base)
0 ~/Downloads
joegriffin@wumbus: chmod 400 JG_data_54000.pem
(base)
0 ~/Downloads
[joegriffin@wumbus: scp -i JG_data_54000.pem JG_data_54000.pem ec2-]
user@3.139.233.179:/tmp
The authenticity of host '3.139.233.179 (3.139.233.179)' can't be est
ablished.
ECDSA key fingerprint is SHA256:0zTUIc3BEEW1drMAUCtX4LRSTCaqJbsLWeKLj
ZyxWEo.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '3.139.233.179' (ECDSA) to the list of kno
wn hosts.
JG_data_54000.pem
     100% 1700 151.0KB/s
                             00:00
(base)
0 ~/Downloads
[joegriffin@wumbus: exit
logout
Saving session...
...copying shared history...
...saving history...truncating history files...
...completed.
[Process completed]
```

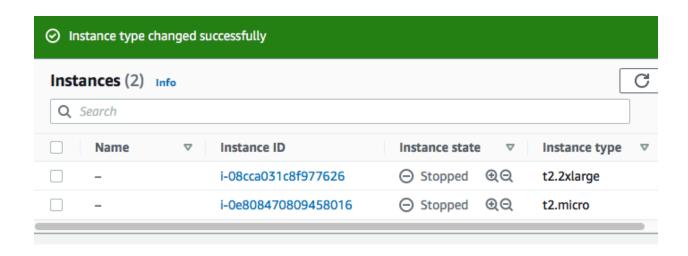
```
[[ec2-user@ip-172-31-10-183 tmp]$ echo "You can do it" > testfile.txt
[ec2-user@ip-172-31-10-183 tmp]$ cat testfile.txt
You can do it
[ec2-user@ip-172-31-10-183 tmp]$ scp -i JG_data_54000.pem testfile.txt ec2-
user@3.145.70.218:/tmp
testfile.txt
        100%
                     10.1KB/s
                                00:00
              14
[ec2-user@ip-172-31-10-183 tmp]$ echo "Num 2" > test2.txt
[ec2-user@ip-172-31-10-183 tmp]$ echo "Num 3" > test3.txt
[ec2-user@ip-172-31-10-183 tmp]$ cat test2.txt
Num 2
[ec2-user@ip-172-31-10-183 tmp]$ cat test3.txt
[ec2-user@ip-172-31-10-183 tmp]$ scp -i JG_data_54000.pem test2.txt ec2-use
r@3.145.70.218:/tmp
test2.txt
        100%
                      4.6KB/s
                                00:00
[ec2-user@ip-172-31-10-183 tmp]$ scp -i JG_data_54000.pem test3.txt ec2-use
r@3.145.70.218:/tmp
test3.txt
                                00:00
        100%
                6
                      4.3KB/s
[ec2-user@ip-172-31-10-183 tmp]$
[[ec2-user@ip-172-31-10-183 tmp]$
[ec2-user@ip-172-31-10-183 tmp]$
[ec2-user@ip-172-31-10-183 tmp]$ exit
logout
Connection to ec2-3-139-233-179.us-east-2.compute.amazonaws.com closed.
(base)
0 ~/Downloads
[joegriffin@wumbus: exit
logout
Saving session...
...copying shared history...
...saving history...truncating history files...
...completed.
[Process completed]
```

```
[[ec2-user@ip-172-31-8-159 ~]$ cd /tmp
[[ec2-user@ip-172-31-8-159 tmp]$ 11
total 4
drwx---- 3 root
                     root
                               17 Dec 14 22:52 systemd-private-52e735c9
108aa4c1492c1f424c3-chronyd.service-1wqyGU
-rw-rw-r-- 1 ec2-user ec2-user 14 Dec 14 23:18 testfile.txt
[[ec2-user@ip-172-31-8-159 tmp]$ 11
total 12
drwx---- 3 root
                     root
                               17 Dec 14 22:52 systemd-private-52e735c9
108aa4c1492c1f424c3-chronyd.service-1wqyGU
-rw-rw-r-- 1 ec2-user ec2-user 6 Dec 14 23:26 test2.txt
-rw-rw-r-- 1 ec2-user ec2-user 6 Dec 14 23:26 test3.txt
-rw-rw-r-- 1 ec2-user ec2-user 14 Dec 14 23:18 testfile.txt
[[ec2-user@ip-172-31-8-159 tmp]$
[[ec2-user@ip-172-31-8-159 tmp]$
[[ec2-user@ip-172-31-8-159 tmp]$ exit
Connection to ec2-3-145-70-218.us-east-2.compute.amazonaws.com closed.
(base)
0 ~/Downloads
[joegriffin@wumbus: exit
logout
Saving session...
...copying shared history...
...saving history...truncating history files...
...completed.
[Process completed]
```

Modify security group / instance type



- SSH disconnects when SSH inbound rule is deactivated
- SSH reconnects when SSH inbound rule is reactivated



Adding additional volumes

