VM1 (Ronni Tong)
Public IPv4 address: 3.222.26.93
Private IPv4 addresses: 172.31.25.171
Private IP DNS name (IPv4 only): ip-172-31-25-171.ec2.internal
Public IPv4 DNS: ec2-3-222-26-93.compute-1.amazonaws.com
Key pair assigned at launch: cs4287-vm1

```
sudo firewall-cmd --zone=trusted --add-interface=cni0 --permanent
sudo firewall-cmd --add-port=22/tcp --permanent
sudo firewall-cmd --add-port=80/tcp --permanent
sudo firewall-cmd --add-port=443/tcp --permanent
sudo systemctl restart firewalld
```

pm2 start npm -- start
Forever start run

VM2 (Xueyuan) zookeeper, broker 0
Public IPv4 address: 3.14.135.65
Private IPv4 address: 172.31.5.65
Public IPv4 DNS:ec2-3-16-79-50.us-east-2.compute.amazonaws.com
Private IP DNS name (IPv4 only): ip-172-31-5-65.us-east-2.compute.internal
CS4287-team7.pem

>Chmod 400 CS4287-team7.pem
>Ssh -i CS4287-team7.pem **ubuntu**@18.117.77.205

>cd kafka
>KAFKA_HEAP_OPTS="-Xmx512M -Xms512M"
> bin/zookeeper-server-start.sh config/zookeeper.properties
>bin/kafka-server-start.sh config/server.properties

VM3 (Xishan)
Public: 18.218.173.77
Private: 172.31.26.183
Public DNS: ec2-18-218-173-77.us-east-2.compute.amazonaws.com
Private DNS: ip-172-31-26-183.us-east-2.compute.internal
Key Pair: CS4287-FINAL-PROJECT