Name: **Pradeep Medagiri**

You are hired as a network consultant to create a network for a startup company. The startup company is in Columbus, **Ohio**. And of course, they want to have the smallest latency for their systems. They have decided to use AWS and the network must be a customized network. At the moment, they only have 2 organizations: Operations and Sales. They want each organization to have its own subnet. Each subnet must be able to handle up to 9 hosts although they currently only have 1 host in each subnet. In addition, the subnets must be in different AZs.

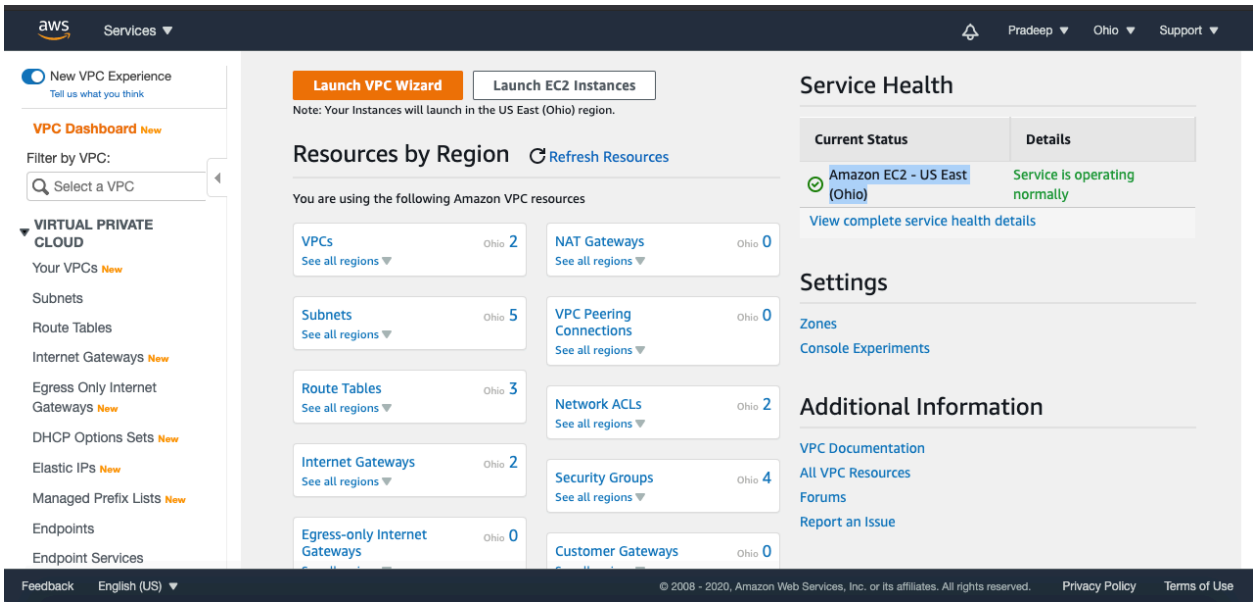
The two organizations need a shared file system (EFS) to be able to work together.

These are other parameters they give you, if not mentioned you decide:

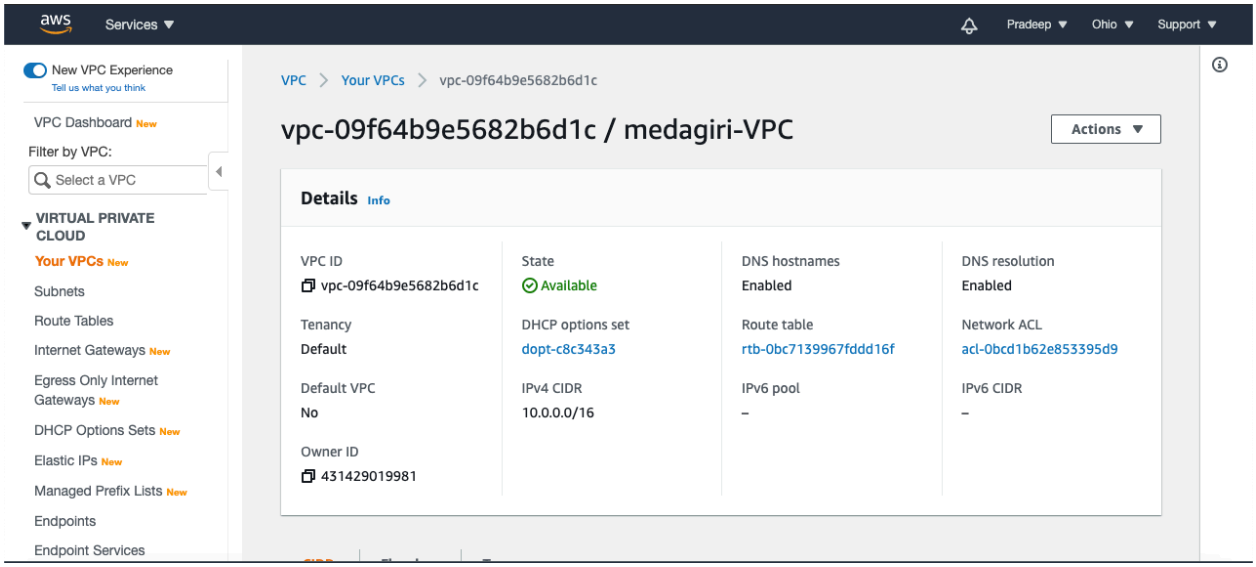
- Region: select the smallest latency to office
- VPC name: yourlastname-VPC
- Subnet Operations name: yourlastname-Ops
    - Upto 9 hosts
    - Name the single EC2: yourlastname-Ops-1
- Subnet Sales name: yourlastname-Sales
    - Upto 9 hosts
    - Name the single EC2: yourlastname-Sales-1
- EC2 configuration:
    - AMI: ubuntu 18.04
    - Instance: t2.micro
    - Allow ping and ssh from everywhere
- EFS
    - Set an EFS that can be shared by the two hosts.
    - Remove “root access only” from the mounted EFS so you don’t need to use sudo command all the time.

What to submit:

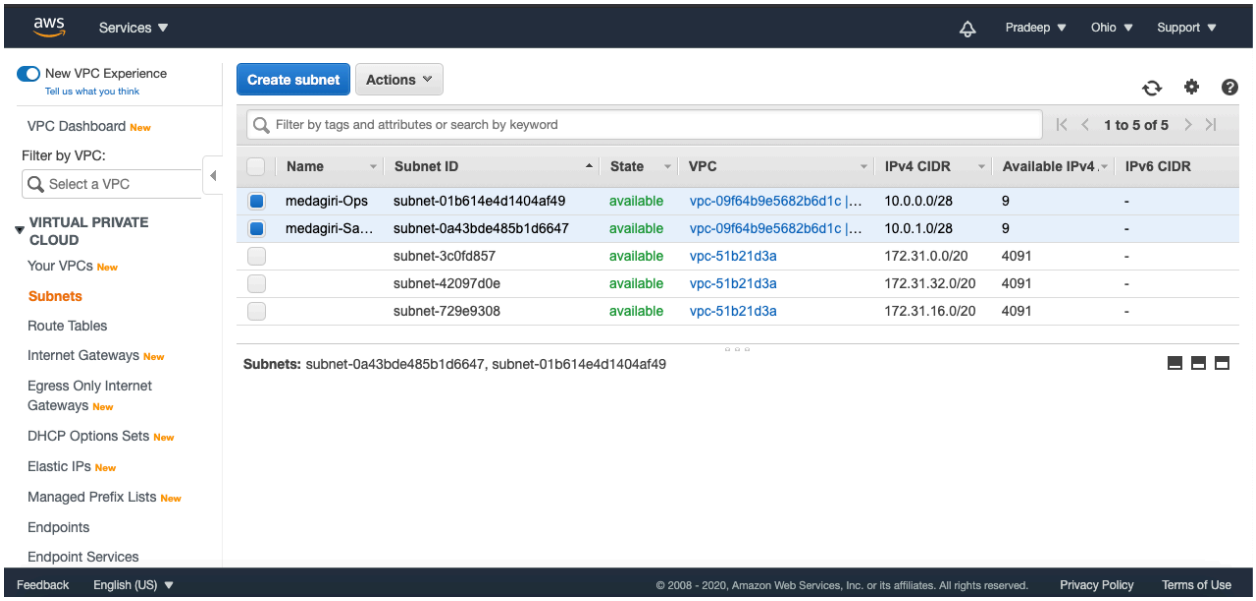
1. AWS Region: _____(1) **Amazon EC2 - US East (Ohio)**



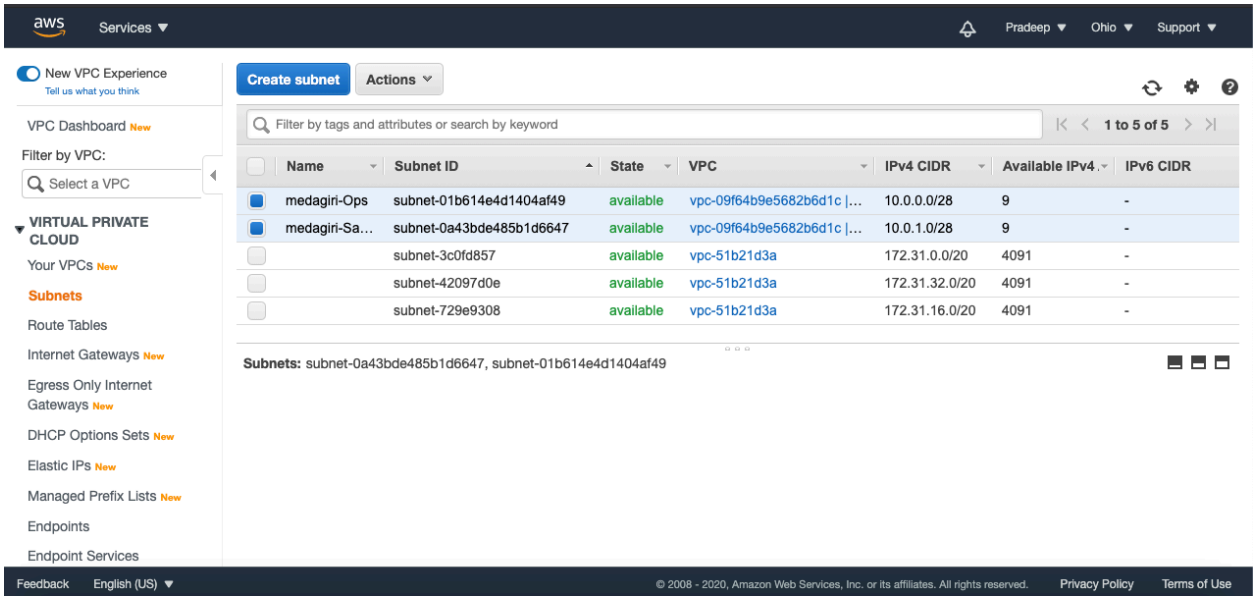
2. Your VPC CIDR: _____(1) **10.0.0.0/16**



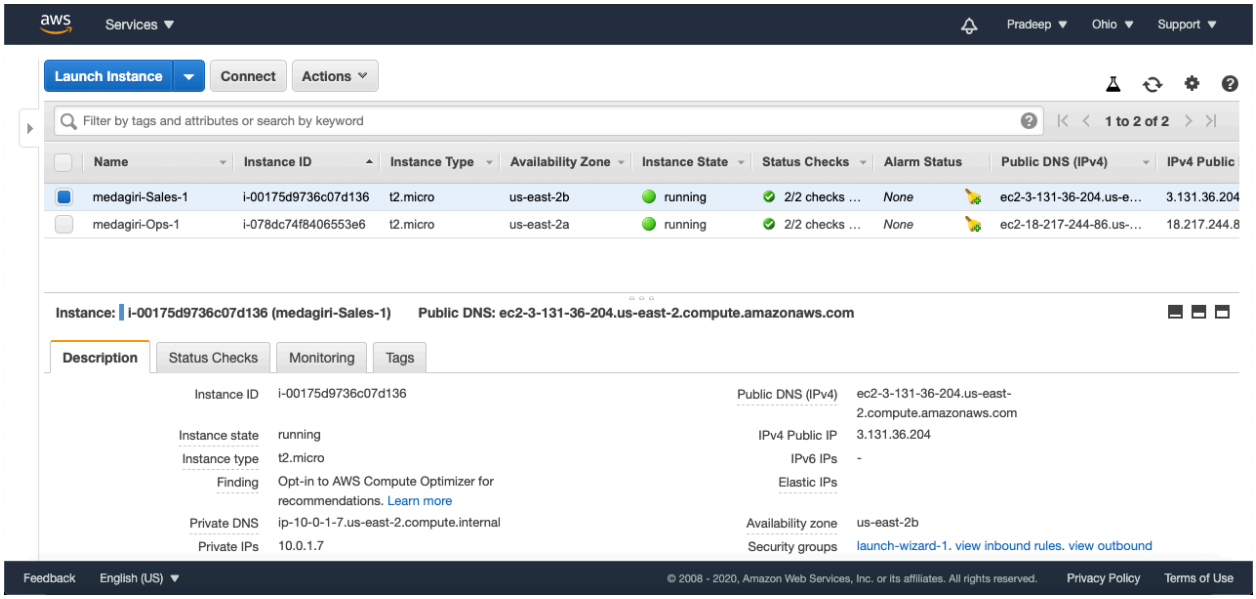
3. Your yourlastname-Ops CIDR: _____(1) 10.0.0.0/28



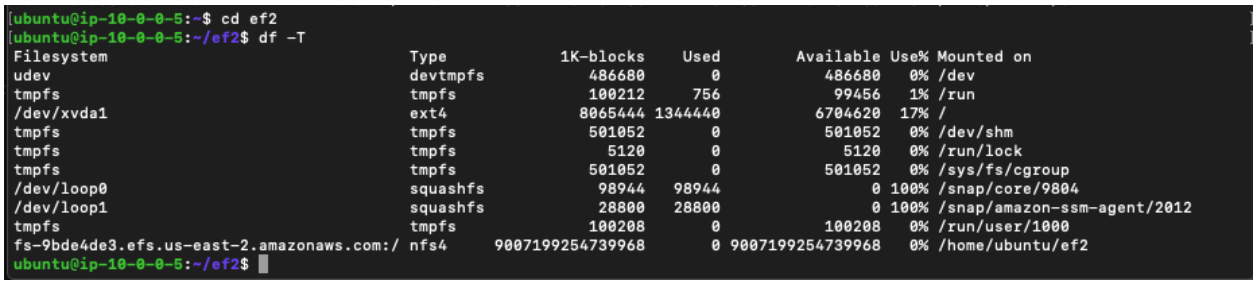
4. Your yourlastname-Sales CIDR: _____(1) 10.0.1.0/28



5. Submit the screenshot of the EC2s together. (1)

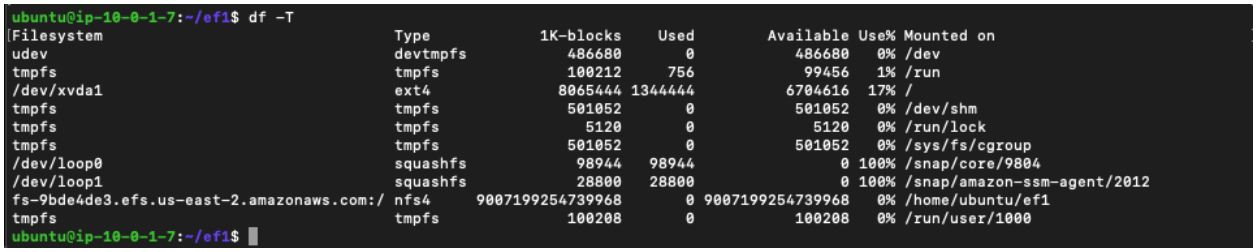


6. Submit the screenshot of df – T printout from yourlastname-Ops-1. (5)



```
[ubuntu@ip-10-0-0-5:~$ cd ef2
[ubuntu@ip-10-0-0-5:~/ef2$ df -T
Filesystem                                     Type            1K-blocks     Used        Available Use% Mounted on
udev                                           devtmpfs           486680        0           486680   0% /dev
tmpfs                                          tmpfs              100212      756            99456   1% /run
/dev/xvda1                                     ext4              8065444  1344440          6704620  17% /
tmpfs                                          tmpfs              501052        0           501052   0% /dev/shm
tmpfs                                          tmpfs                5120        0             5120   0% /run/lock
tmpfs                                          tmpfs              501052        0           501052   0% /sys/fs/cgroup
/dev/loop0                                     squashfs            98944    98944                0 100% /snap/core/9804
/dev/loop1                                     squashfs            28800    28800                0 100% /snap/amazon-ssm-agent/2012
tmpfs                                          tmpfs              100208        0           100208   0% /run/user/1000
fs-9bde4de3.efs.us-east-2.amazonaws.com:/ nfs4     9007199254739968        0 9007199254739968   0% /home/ubuntu/ef2
ubuntu@ip-10-0-0-5:~/ef2$
```

7. Submit the screenshot of df – T printout from yourlastname-Sales-1. (5)



```
ubuntu@ip-10-0-1-7:~/ef1$ df -T
Filesystem                                     Type            1K-blocks     Used        Available Use% Mounted on
udev                                           devtmpfs           486680        0           486680   0% /dev
tmpfs                                          tmpfs              100212      756            99456   1% /run
/dev/xvda1                                     ext4              8065444  1344444          6704616  17% /
tmpfs                                          tmpfs              501052        0           501052   0% /dev/shm
tmpfs                                          tmpfs                5120        0             5120   0% /run/lock
tmpfs                                          tmpfs              501052        0           501052   0% /sys/fs/cgroup
/dev/loop0                                     squashfs            98944    98944                0 100% /snap/core/9804
/dev/loop1                                     squashfs            28800    28800                0 100% /snap/amazon-ssm-agent/2012
fs-9bde4de3.efs.us-east-2.amazonaws.com:/ nfs4     9007199254739968        0 9007199254739968   0% /home/ubuntu/ef1
tmpfs                                          tmpfs              100208        0           100208   0% /run/user/1000
ubuntu@ip-10-0-1-7:~/ef1$
```

8. Submit the screenshot of ls -l of the folder that contains the EFS from yourlastname-Ops-1 (5)

```
[ubuntu@ip-10-0-0-5:~/ef2$ ls -l
total 8
drwxrwxr-x 2 ubuntu ubuntu 6144 Oct 12 18:23 testa
drwxrwxr-x 2 ubuntu ubuntu 6144 Oct 12 18:20 testb
ubuntu@ip-10-0-0-5:~/ef2$
```

9. Submit the screenshot of ls -l of the folder that contains the EFS from yourlastname-Sales-1 (5)