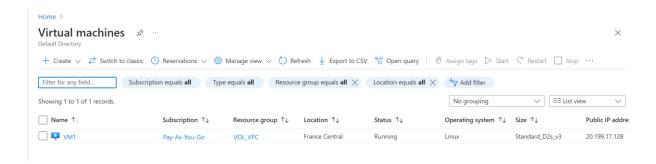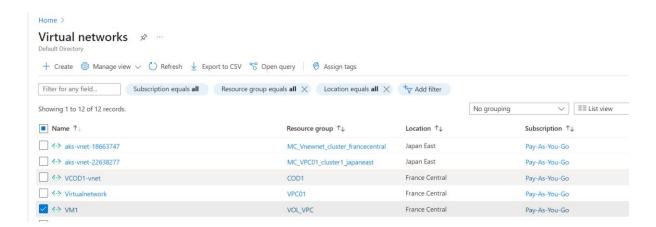# Create an Azure Virtual machine in France central using of Ubuntu image and attach a data disk with VM. disk size should be 8Gb
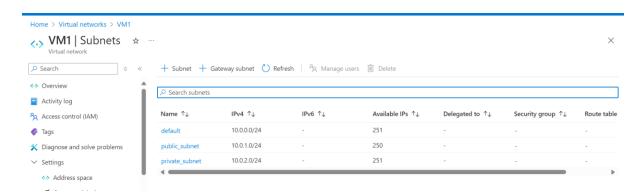
Create a virtual machine on azure dashboard

Create a virtual network

Create one public and private subnet inside the VPC

Connect the instance to the terminal

```
PS C:\Users\10748211\Downloads> ssh -i VM1_key.pem azureuser@20.199.17.128
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1015-azure x86_64)

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

 System information as of Tue Oct  1 14:19:35 UTC 2024

  System load:  0.05              Processes:             133
  Usage of /:   5.0% of 28.02GB   Users logged in:       0
  Memory usage: 4%                IPv4 address for eth0: 10.0.1.4
  Swap usage:   0%
```

```
azureuser@VM1:~$ sudo su -
root@VM1:~# lsblk
NAME      MAJ:MIN RM   SIZE RO TYPE MOUNTPOINTS
sda         8:0    0    30G  0 disk
├─sda1      8:1    0    29G  0 part /
├─sda14     8:14   0     4M  0 part
├─sda15     8:15   0   106M  0 part /boot/efi
└─sda16   259:0    0   913M  0 part /boot
sdb         8:16   0    16G  0 disk
└─sdb1      8:17   0    16G  0 part /mnt
sdc         8:32   0     8G  0 disk
sr0        11:0    1   628K  0 rom
```

```
root@VM1:~# mkfs.
mkfs.bfs      mkfs.cramfs   mkfs.ext3     mkfs.fat      mkfs.msdos    mkfs.vfat
mkfs.btrfs    mkfs.ext2     mkfs.ext4     mkfs.minix    mkfs.ntfs     mkfs.xfs
root@VM1:~# mkfs.ext4 /dev/sdc
mke2fs 1.47.0 (5-Feb-2023)
Discarding device blocks: done
Creating filesystem with 2097152 4k blocks and 524288 inodes
Filesystem UUID: 972611bf-81b4-4c79-8abf-b6e3fd4c7ef7
```

```
root@VM1:~# mkdir /data
```

```
root@VM1:~# mount /dev/sdc /data
root@VM1:~# blkid
/dev/sdb1: UUID="1c584646-4f45-4f7e-af93-992f31ea9c66" BLOCK_SIZE="4096" TYPE="ext4" PARTUUID="30ac91c6-01"
/dev/sda16: LABEL="BOOT" UUID="28b8c8ec-d86d-4cd8-b218-afaecbf2dd6f" BLOCK_SIZE="4096" TYPE="ext4" PARTUUID="734d5011-00
6f-4623-ad93-a2ac18a7e79e"
/dev/sda15: LABEL_FATBOOT="UEFI" LABEL="UEFI" UUID="D5E6-8187" BLOCK_SIZE="512" TYPE="vfat" PARTUUID="7dbd2c4b-8ff3-4c6f
-bc2f-5f8a9cbaed32"
/dev/sda1: LABEL="cloudimg-rootfs" UUID="bf171e20-4158-4861-8c95-1443ece8c413" BLOCK_SIZE="4096" TYPE="ext4" PARTUUID="1
a6a002b-5407-43ed-a20a-67c0e584807b"
/dev/sdc: UUID="972611bf-81b4-4c79-8abf-b6e3fd4c7ef7" BLOCK_SIZE="4096" TYPE="ext4"
/dev/sda14: PARTUUID="d5673fda-51ba-48ab-bafc-85c163d56c7b"
```

```
root@VM1:~# vim /etc/fstab
```

```
# CLOUD_IMG: This file was created/modified by the Cloud Image build process
UUID=bf171e20-4158-4861-8c95-1443ece8c413     /        ext4   discard,commit=30,errors=remount-ro     0 1
LABEL=BOOT     /boot    ext4    defaults,discard      0 2
UUID=D5E6-8187  /boot/efi     vfat     umask=0077     0 1
/dev/disk/cloud/azure_resource-part1   /mnt   auto   defaults,nofail,x-systemd.after=cloud-init.service,_netdev,comme
nt=cloudconfig  0     2
UUID=972611bf-81b4-4c79-8abf-b6e3fd4c7ef7     /data ext4 defaults 0 0
~
~
~
~
```

```
root@VM1:~# df -h
Filesystem     Size  Used Avail Use% Mounted on
/dev/root       29G  1.5G   27G   6% /
tmpfs          3.9G     0  3.9G   0% /dev/shm
tmpfs          1.6G 1008K  1.6G   1% /run
tmpfs          5.0M     0  5.0M   0% /run/lock
efivarfs       128K   35K   89K  29% /sys/firmware/efi/efivars
/dev/sda16     881M   59M  761M   8% /boot
/dev/sda15     105M  6.1M   99M   6% /boot/efi
/dev/sdb1       16G   28K   15G   1% /mnt
tmpfs          789M   12K  789M   1% /run/user/1000
/dev/sdc       7.8G   24K  7.4G   1% /data
```

```
root@VM1:~# cd /data
root@VM1:/data# df -h
Filesystem     Size  Used Avail Use% Mounted on
/dev/root       29G  1.5G   27G   6% /
tmpfs          3.9G     0  3.9G   0% /dev/shm
tmpfs          1.6G 1008K  1.6G   1% /run
tmpfs          5.0M     0  5.0M   0% /run/lock
efivarfs       128K   35K   89K  29% /sys/firmware/efi/efivars
/dev/sda16     881M   59M  761M   8% /boot
/dev/sda15     105M  6.1M   99M   6% /boot/efi
/dev/sdb1       16G   28K   15G   1% /mnt
tmpfs          789M   12K  789M   1% /run/user/1000
/dev/sdc       7.8G   24K  7.4G   1% /data
```

```
root@VM1:/data# touch mahek.txt
root@VM1:/data# mount -a
root@VM1:/data#
```

We will now reboot the instance and reconnect it.

```
PS C:\Users\10748211\Downloads> ssh -i VM1_key.pem azureuser@20.199.17.128
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1015-azure x86_64)
```

```
azureuser@VM1:~$ sudo su -
root@VM1:~# cd /data
root@VM1:/data# ls
lost+found  mahek.txt
root@VM1:/data# df -h
Filesystem     Size  Used Avail Use% Mounted on
/dev/root       29G  1.5G   27G   6% /
tmpfs          3.9G     0  3.9G   0% /dev/shm
tmpfs          1.6G 1016K  1.6G   1% /run
tmpfs          5.0M     0  5.0M   0% /run/lock
efivarfs       128K   35K   89K  29% /sys/firmware/efi/efivars
/dev/sdc       7.8G   24K  7.4G   1% /data
/dev/sda16     881M   59M  761M   8% /boot
/dev/sda15     105M  6.1M   99M   6% /boot/efi
/dev/sdb1       16G   28K   15G   1% /mnt
tmpfs          789M   12K  789M   1% /run/user/1000
```