

# Disks in AWS

- when we create an ec2 instance, the disk will be attached to ec2 instance.
- AWS supports two types of disk (virtual disk)
  - EBS:
    - This is created from a different physical server
    - This disk can exist even after ec2 is deleted
    - All ec2 instances use this disk type and for os disk only EBS should be used.
  - Instance-store
    - This disk is created from same server where ec2 was launched from
    - The contents of this disk will be wiped once we shutdown the machine
    - All ec2 instance types donot support this disk

# Disks in Azure

- when we create an virtual machines, the disks will be attached to vm.
- Azure supports two types of disk (virtual disk)
  - Data Disk:
    - This is created from a different physical server
    - This disk can exist even vm is deleted
    - All vms we can use this disk type and for os disk only Data disk should be used.
  - Temp Disk
    - This disk is created from same server where vm was launched from
    - The contents of this disk will be wiped once we shutdown the machine
    - The size of temp disk depends on vm size.

# Virtual Machine categories

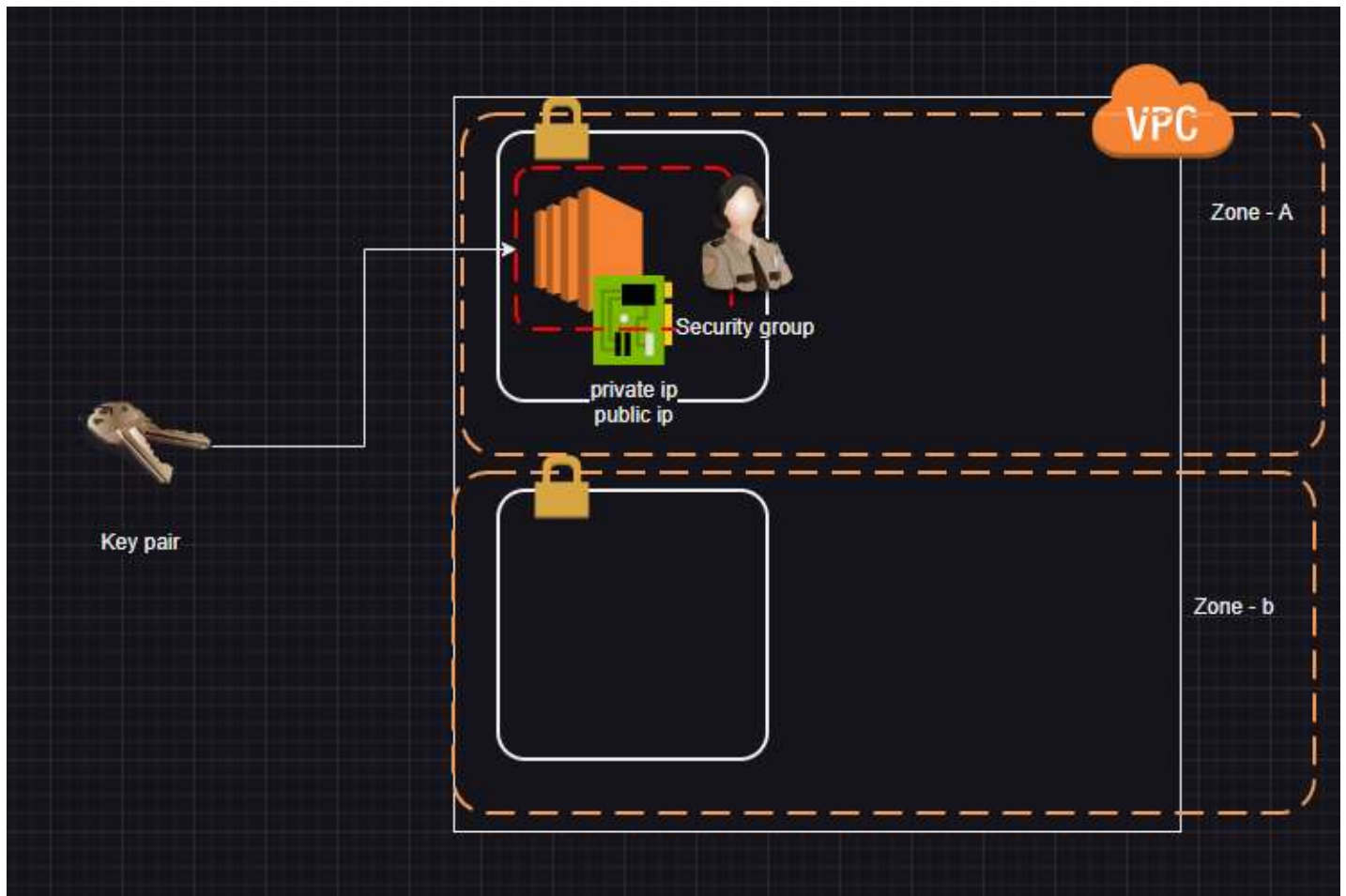
- General purpose
- Compute Optimized
- Memory Optimized
- Storage Optimized
- HPC
- [Refer Here](#)

# EC2 Instance type categories

- General purpose
- Compute Optimized
- Memory Optimized
- Storage Optimized
- HPC
- [Refer Here](#)

## Creating an EC2 linux instance and EC2 Windows instance in AWS

- Overview



- In AWS, the username in the ec2 is pre-determined according to AMI.
- Linux instance

```

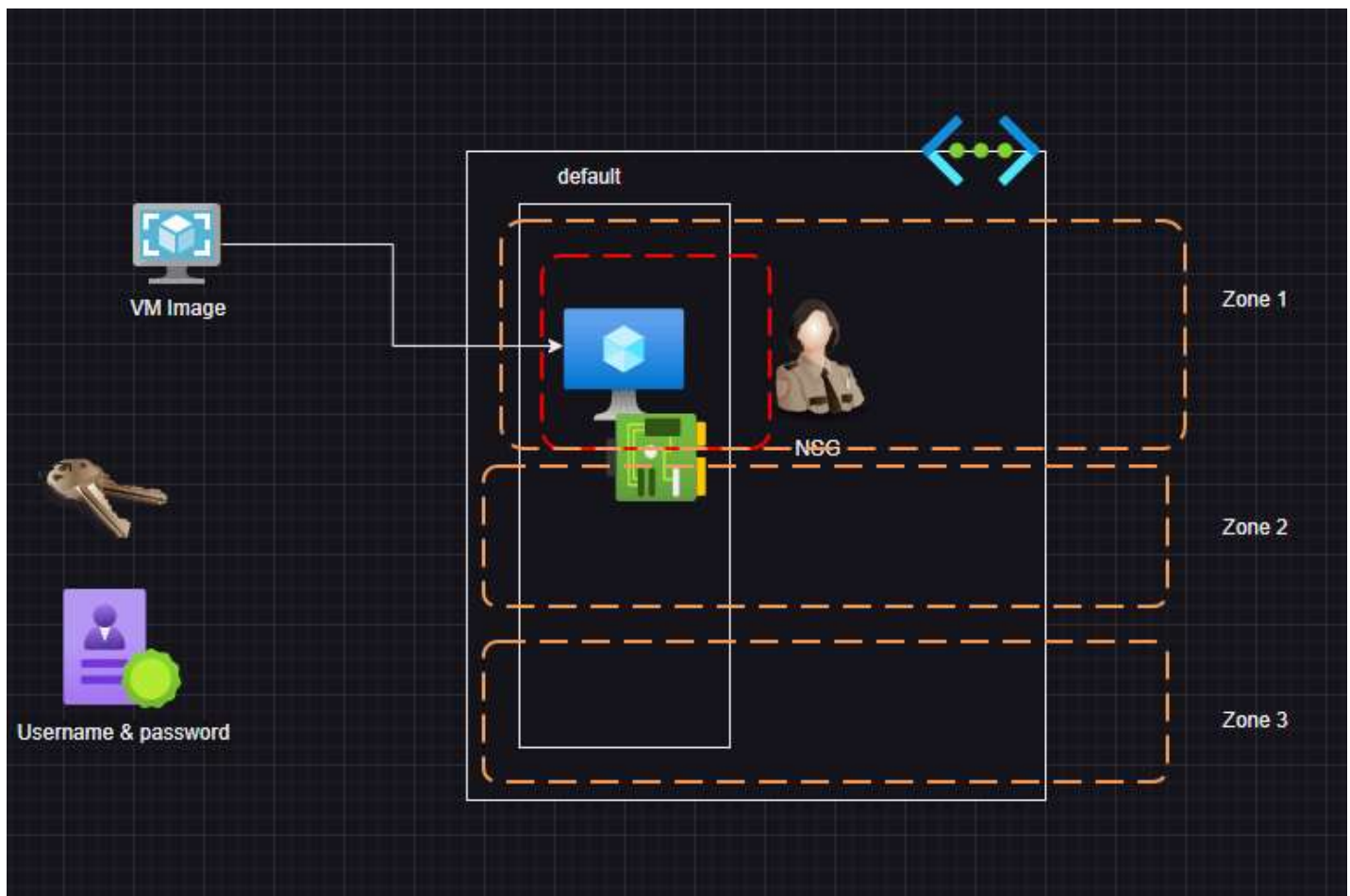
AWS EC2  Windows PowerShell
[ec2-user@ip-172-31-1-254 ~]$ sudo lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
nvme0n1      259:0    0   10G  0 disk
├─nvme0n1p1  259:1    0    1M  0 part
├─nvme0n1p2  259:2    0 200M  0 part /boot/efi
├─nvme0n1p3  259:3    0 600M  0 part /boot
└─nvme0n1p4  259:4    0 9.2G  0 part /
[ec2-user@ip-172-31-1-254 ~]$

```

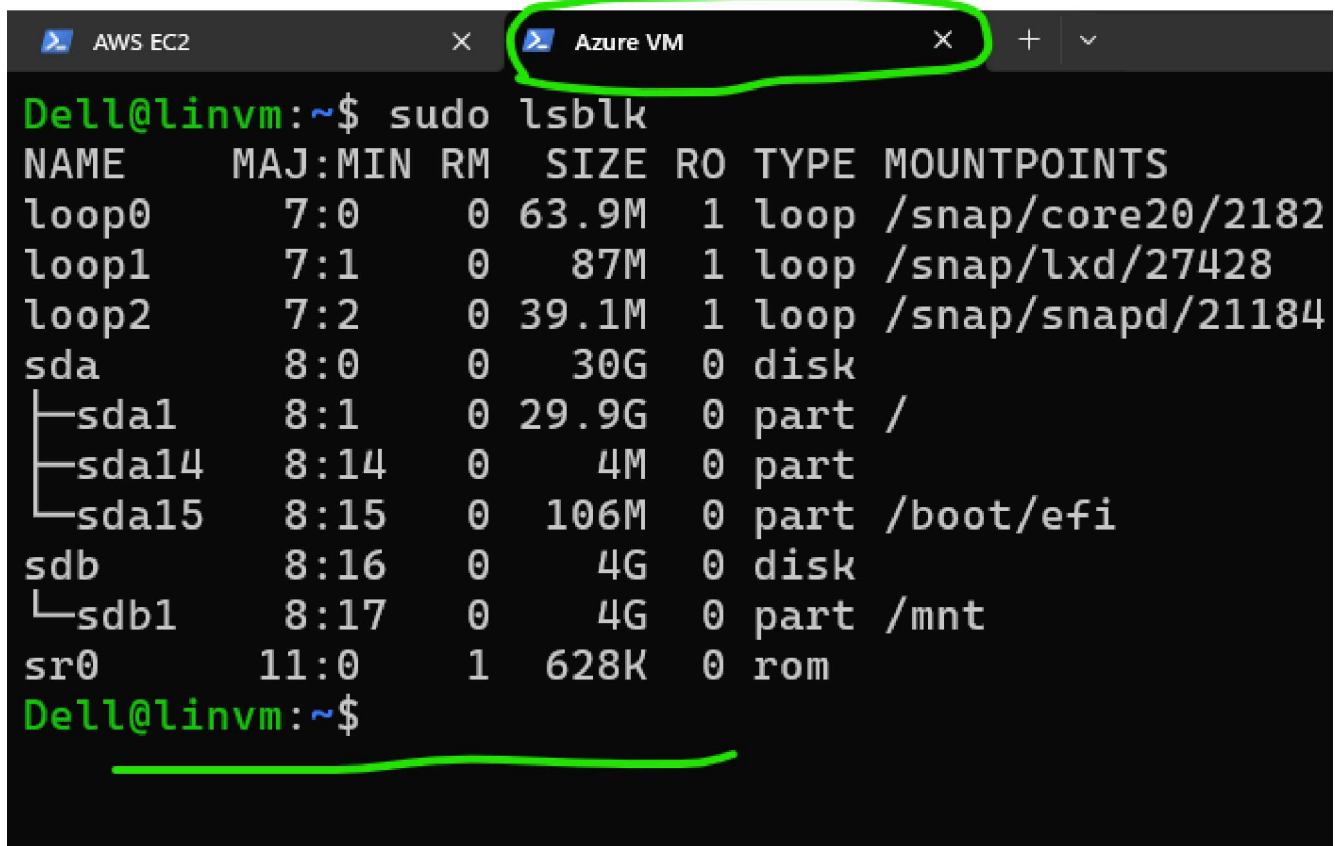
- Windows Server:
  - Create a windows server with some key pair
  - Generate a password from the key pair
  - then use remote desktop connection `mstsc -v <publicip>`

## Create a Linux VM and Windows VM in Azure

- Overview



- Azure allows us to set username and Password/key during virtual machine creation
- In Azure the virtual machine needs to be part of some network, we can select an existing network or create one
- Linux Instance



```
Dell@linvm:~$ sudo lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0        7:0    0 63.9M  1 loop /snap/core20/2182
loop1        7:1    0   87M  1 loop /snap/lxd/27428
loop2        7:2    0 39.1M  1 loop /snap/snapd/21184
sda          8:0    0   30G  0 disk
├─sda1       8:1    0 29.9G  0 part /
├─sda14      8:14   0    4M  0 part
└─sda15      8:15   0 106M  0 part /boot/efi
sdb          8:16   0    4G  0 disk
└─sdb1       8:17   0    4G  0 part /mnt
sr0         11:0    1 628K  0 rom

Dell@linvm:~$
```

- Windows Instance

