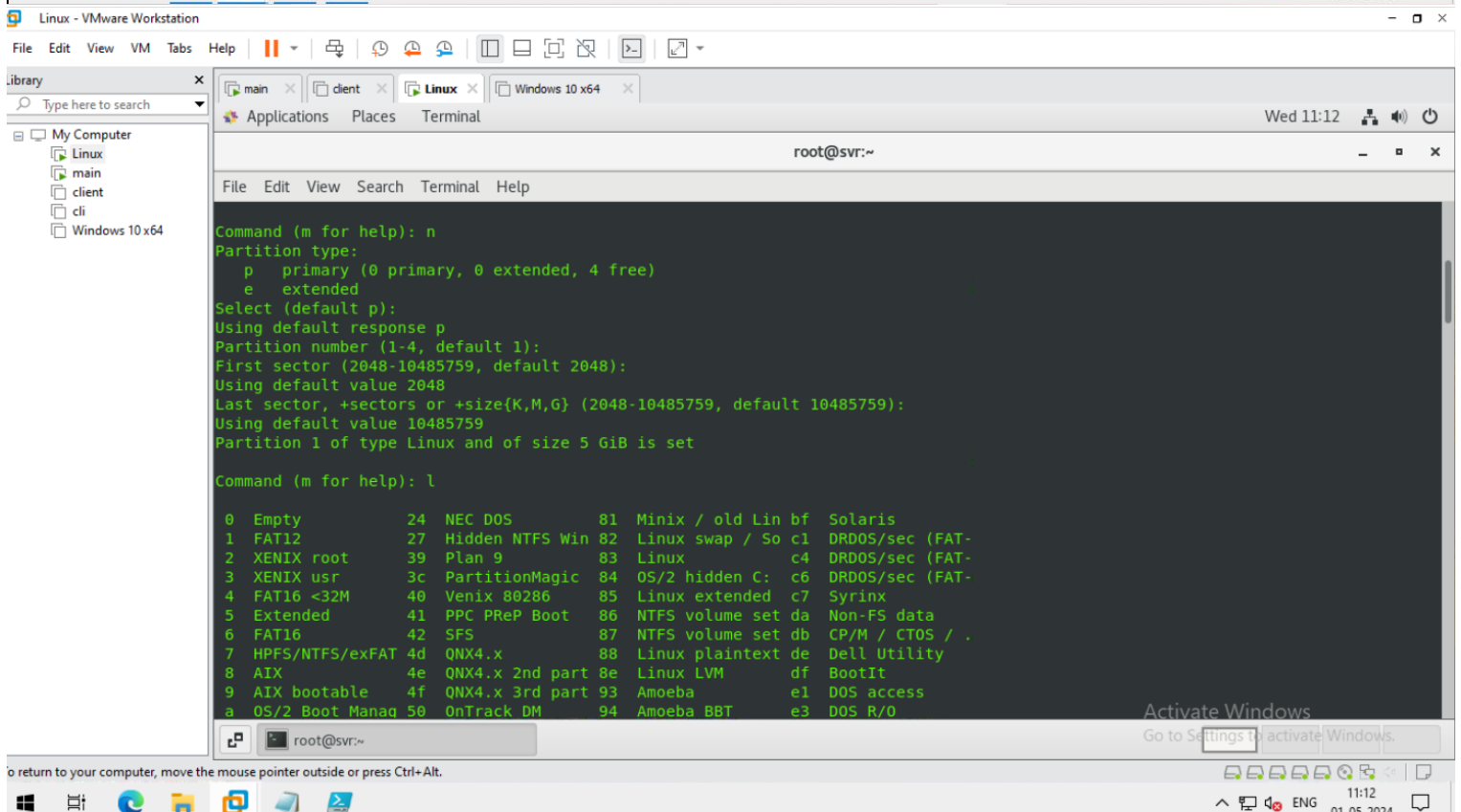
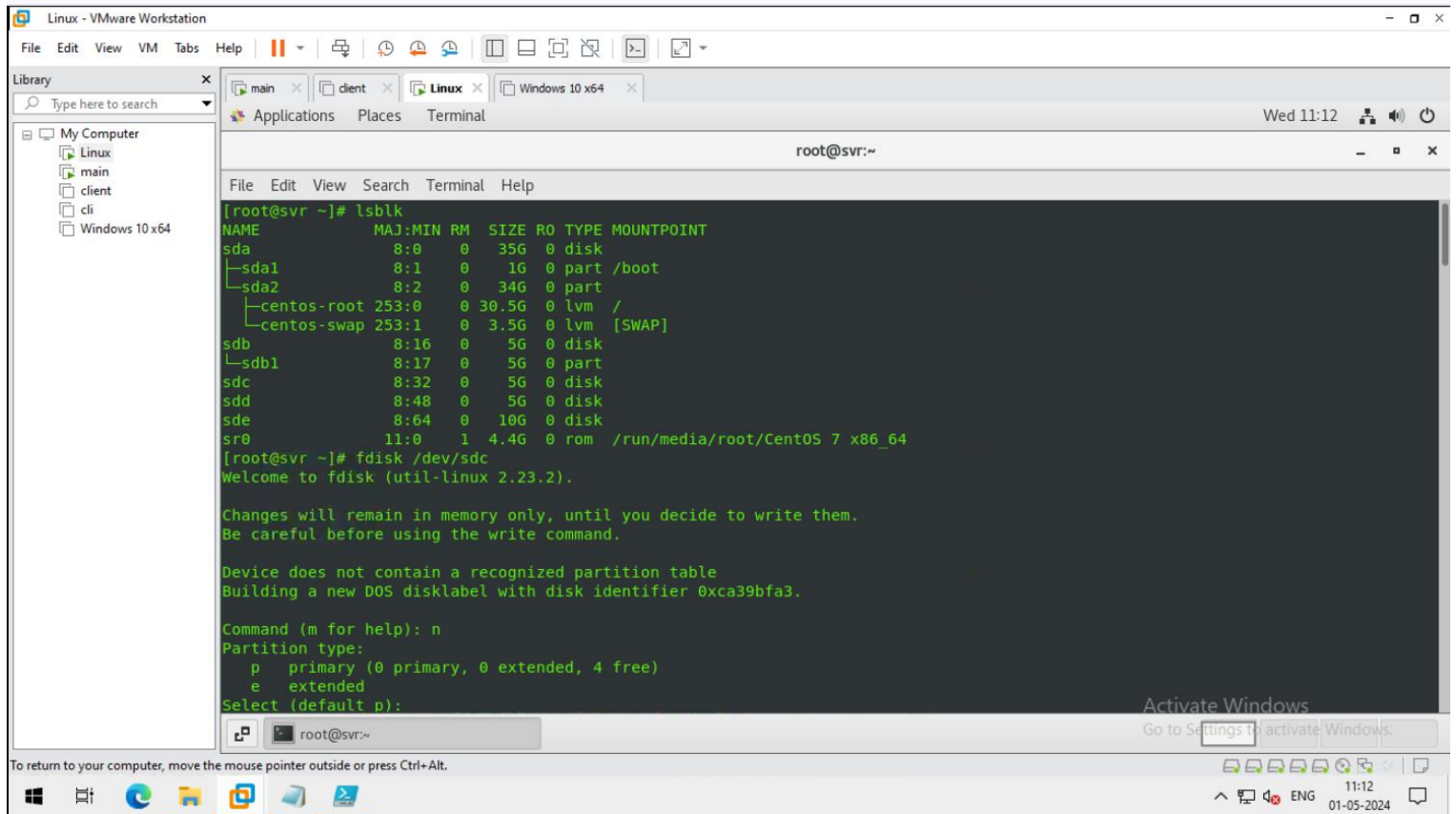
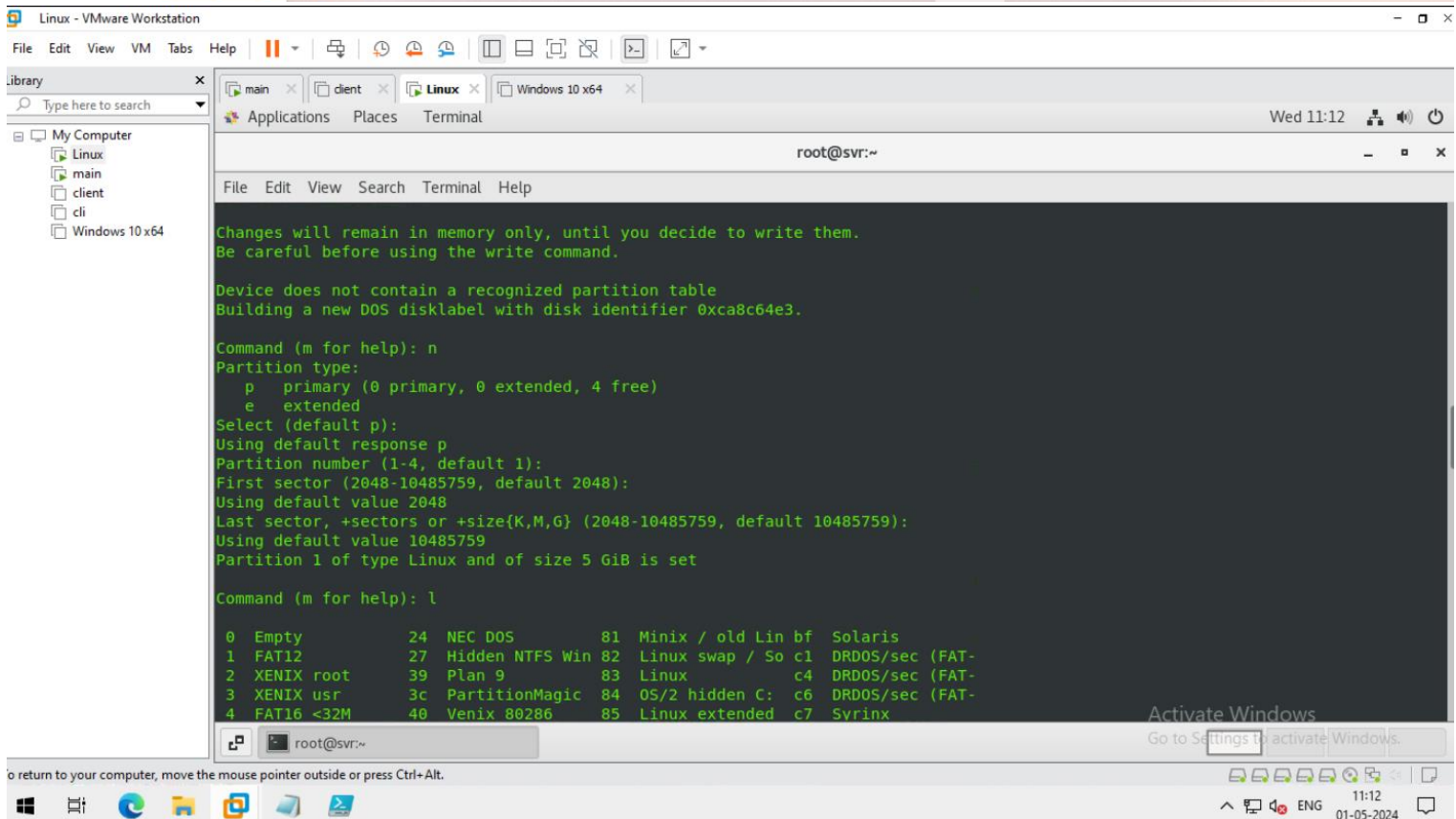
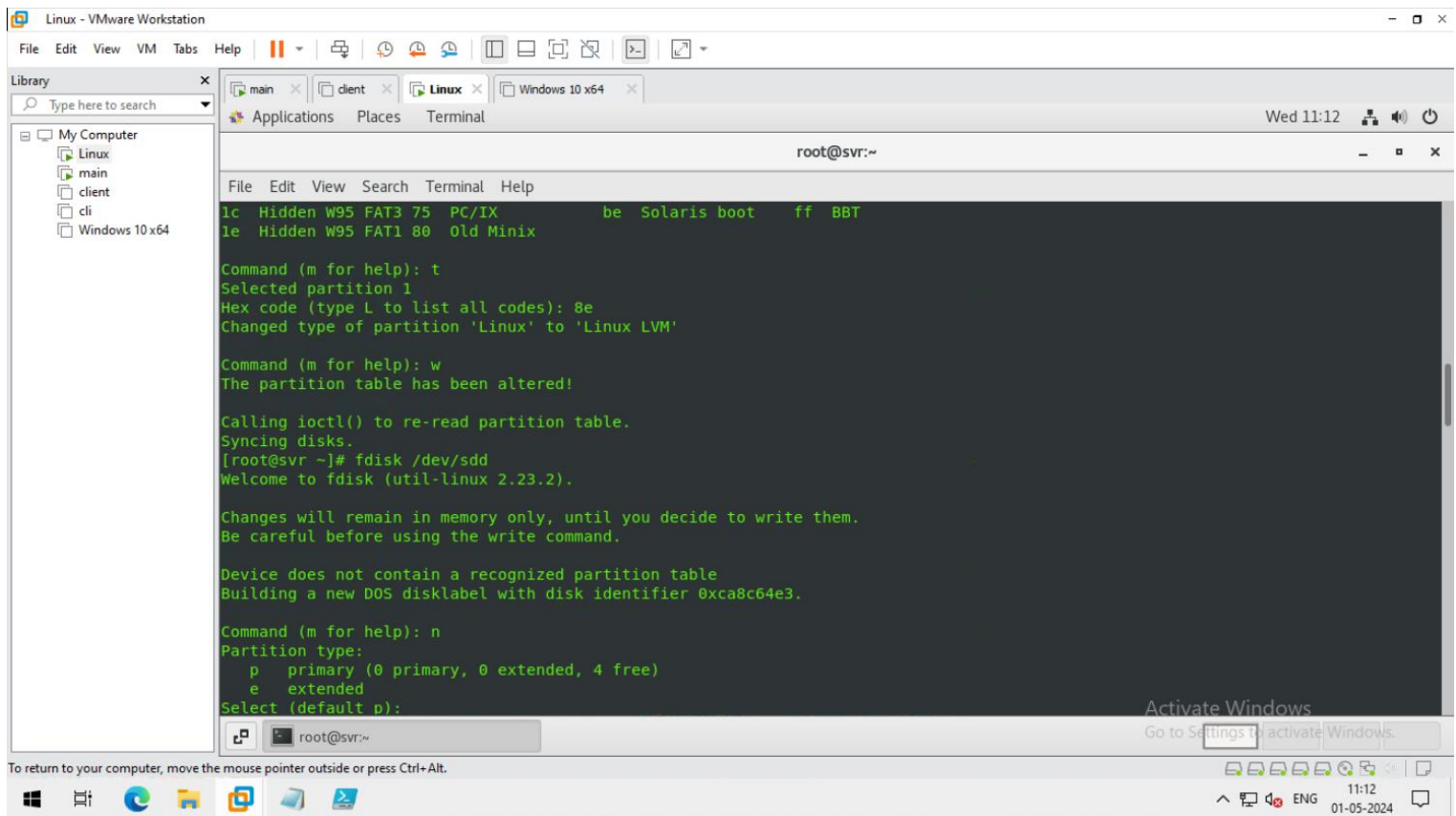
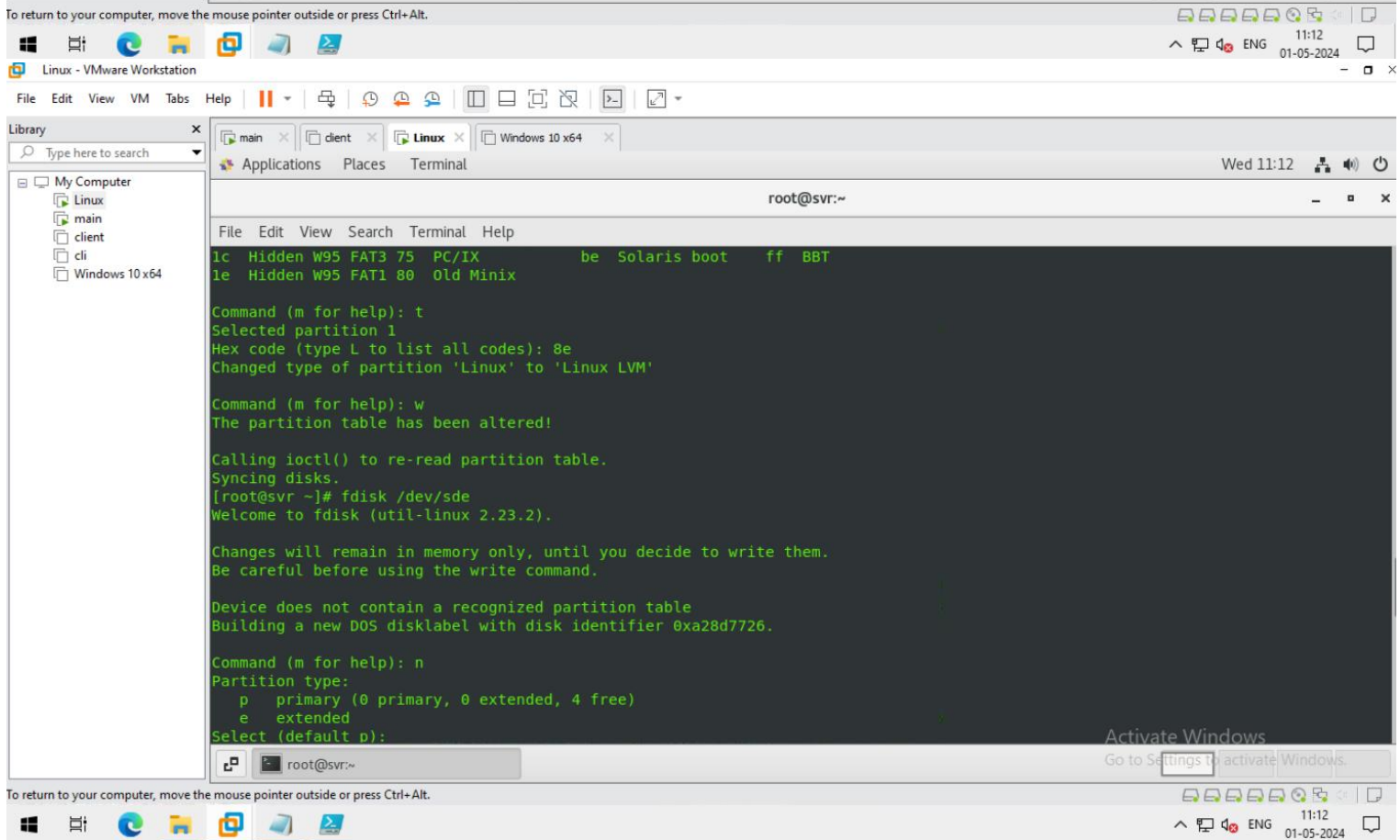
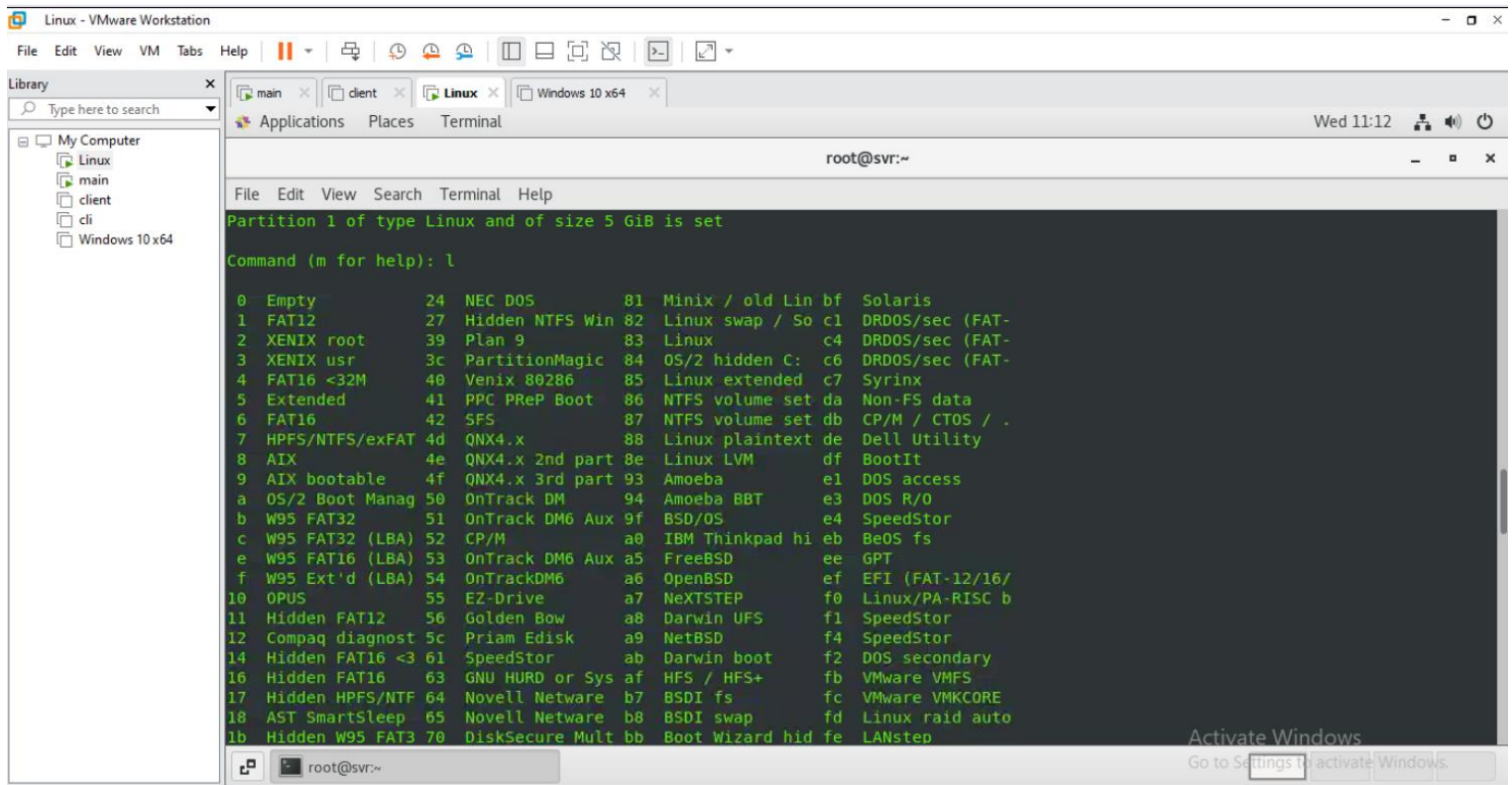
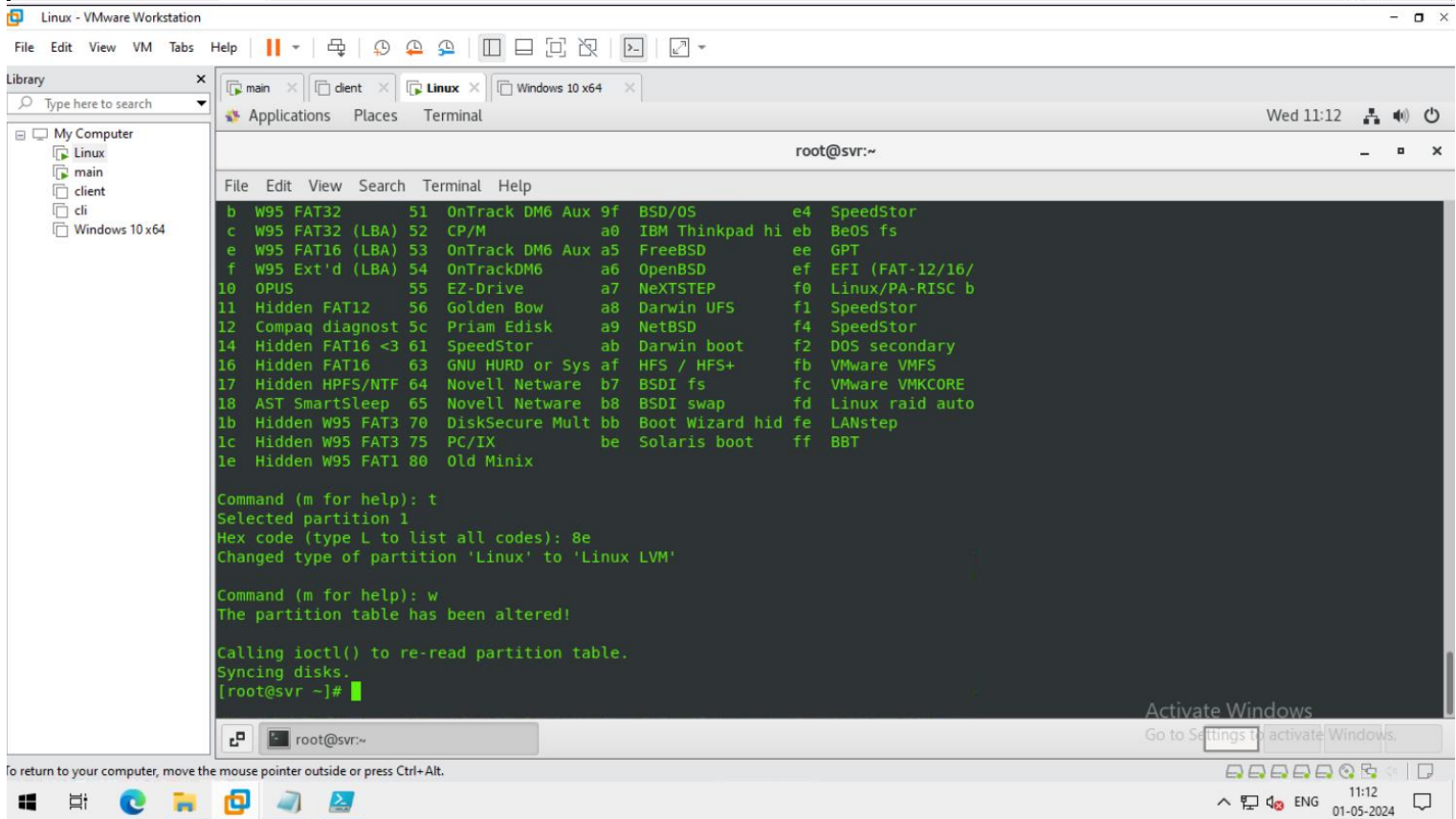
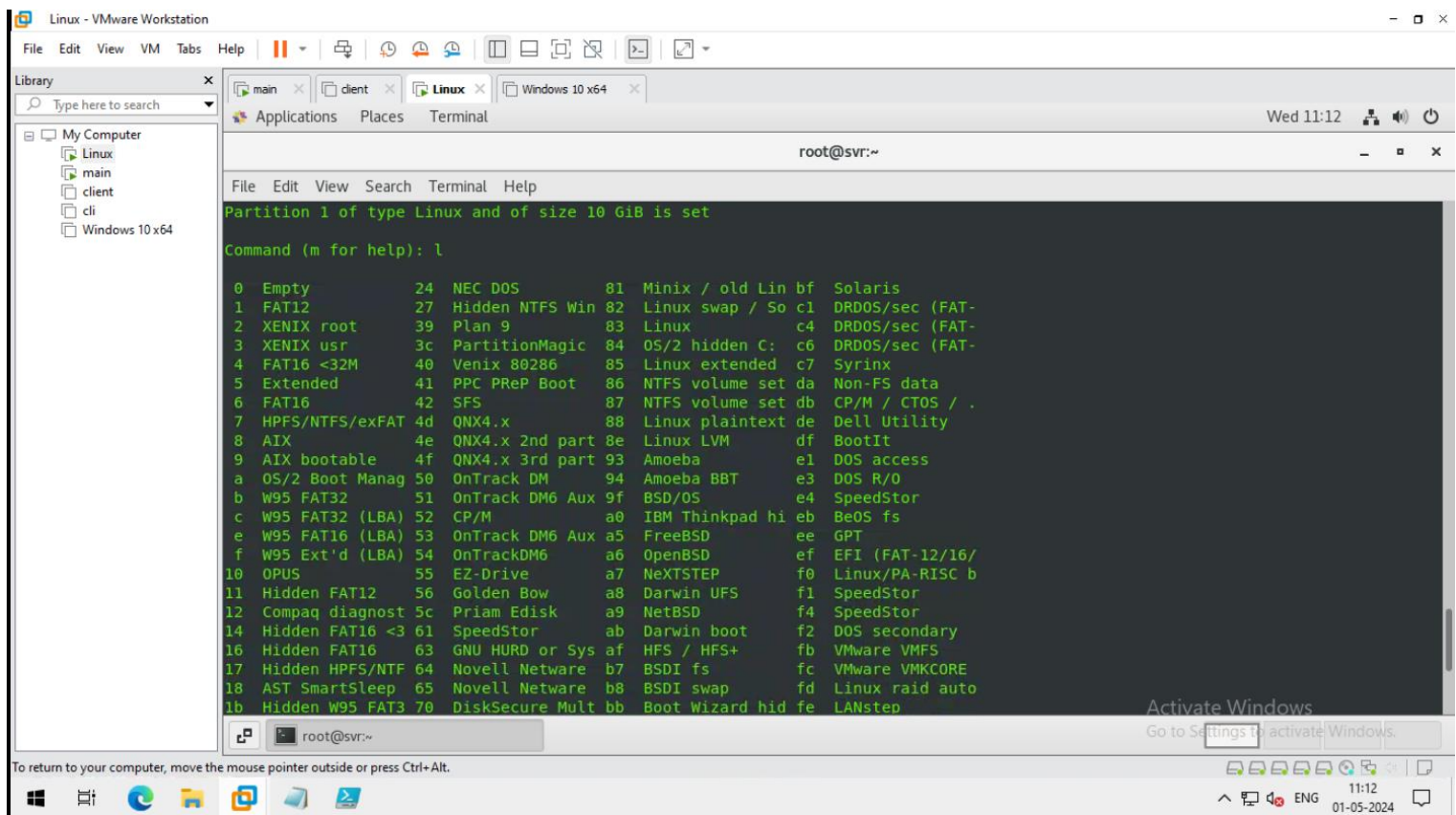


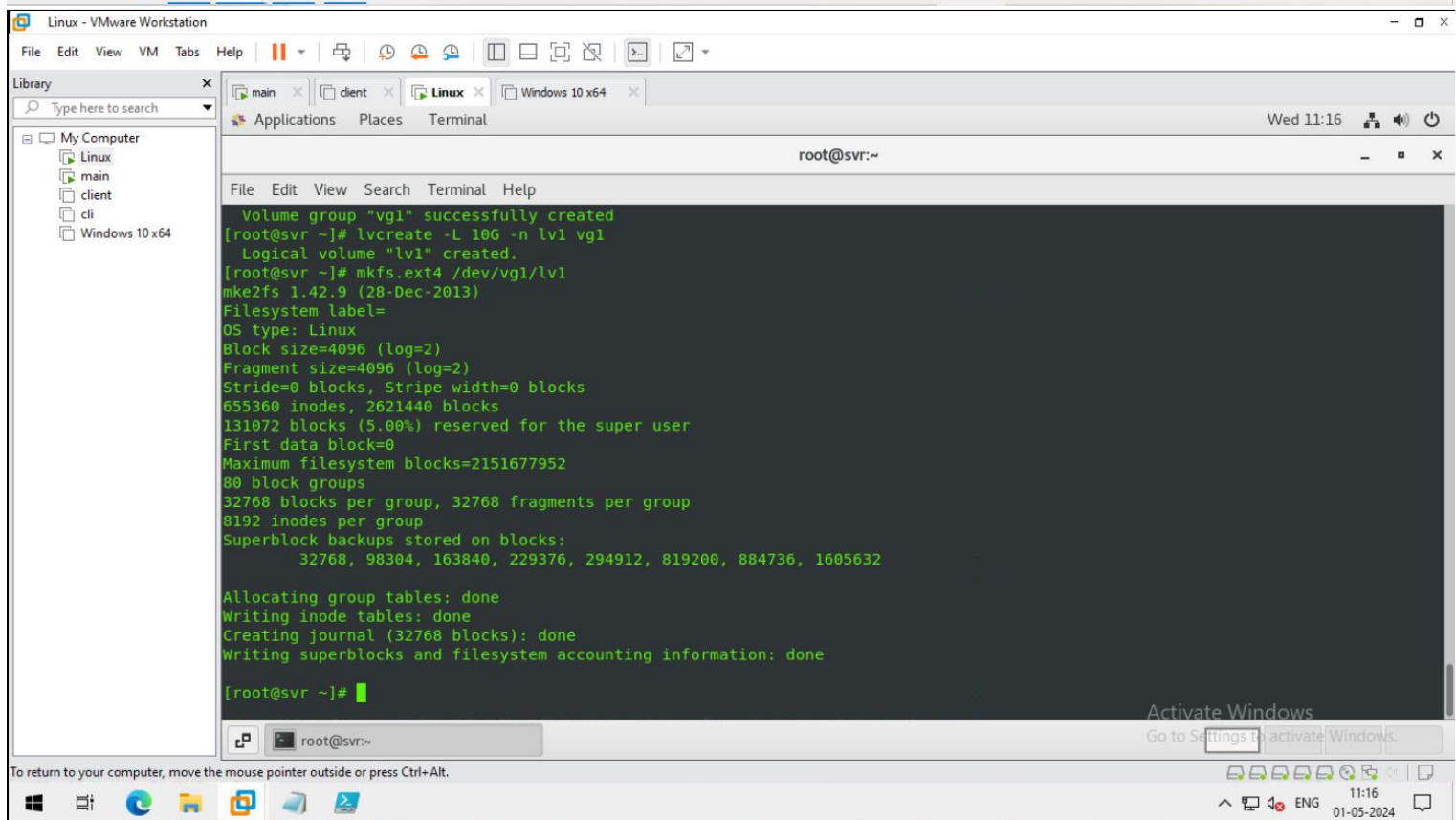
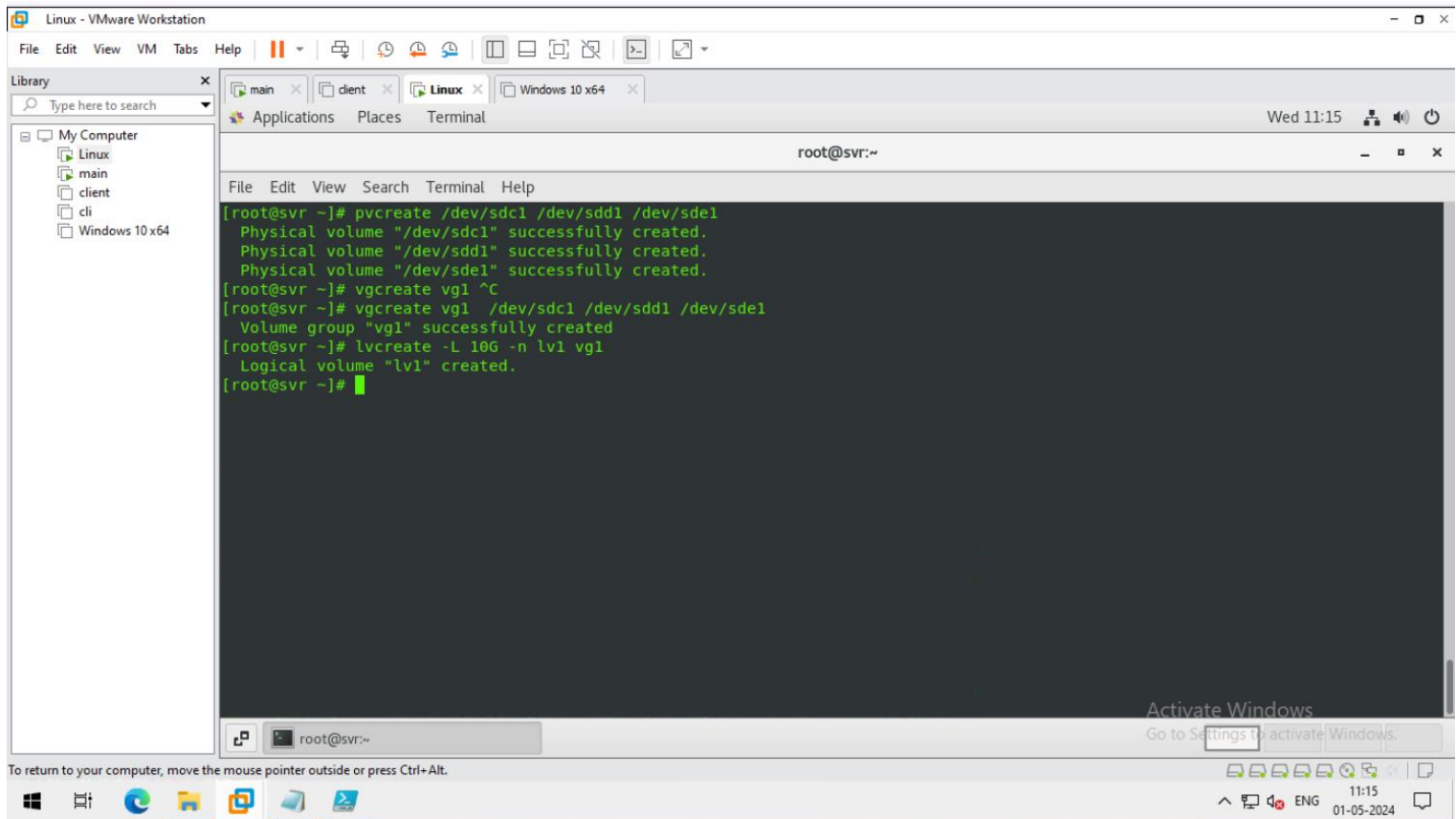
Task 1: Attach 2 disks of 5GB each. create an LVM of approx 10GB and mount it on /myLVM with EXT4 file systems and verify. Add another HDD of 7GB and mount it to the same /myLVM partition by adding it the same volume group.

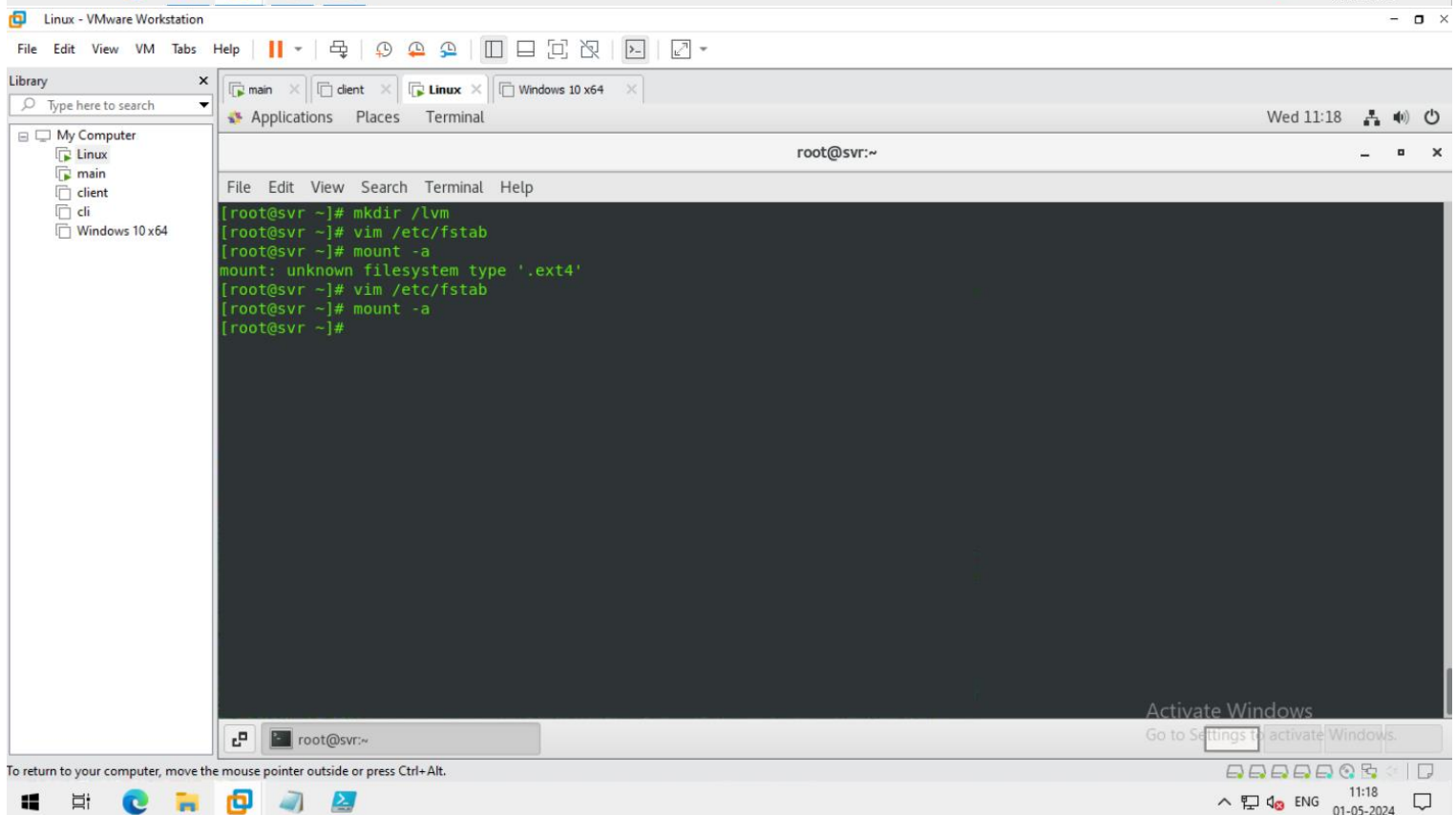
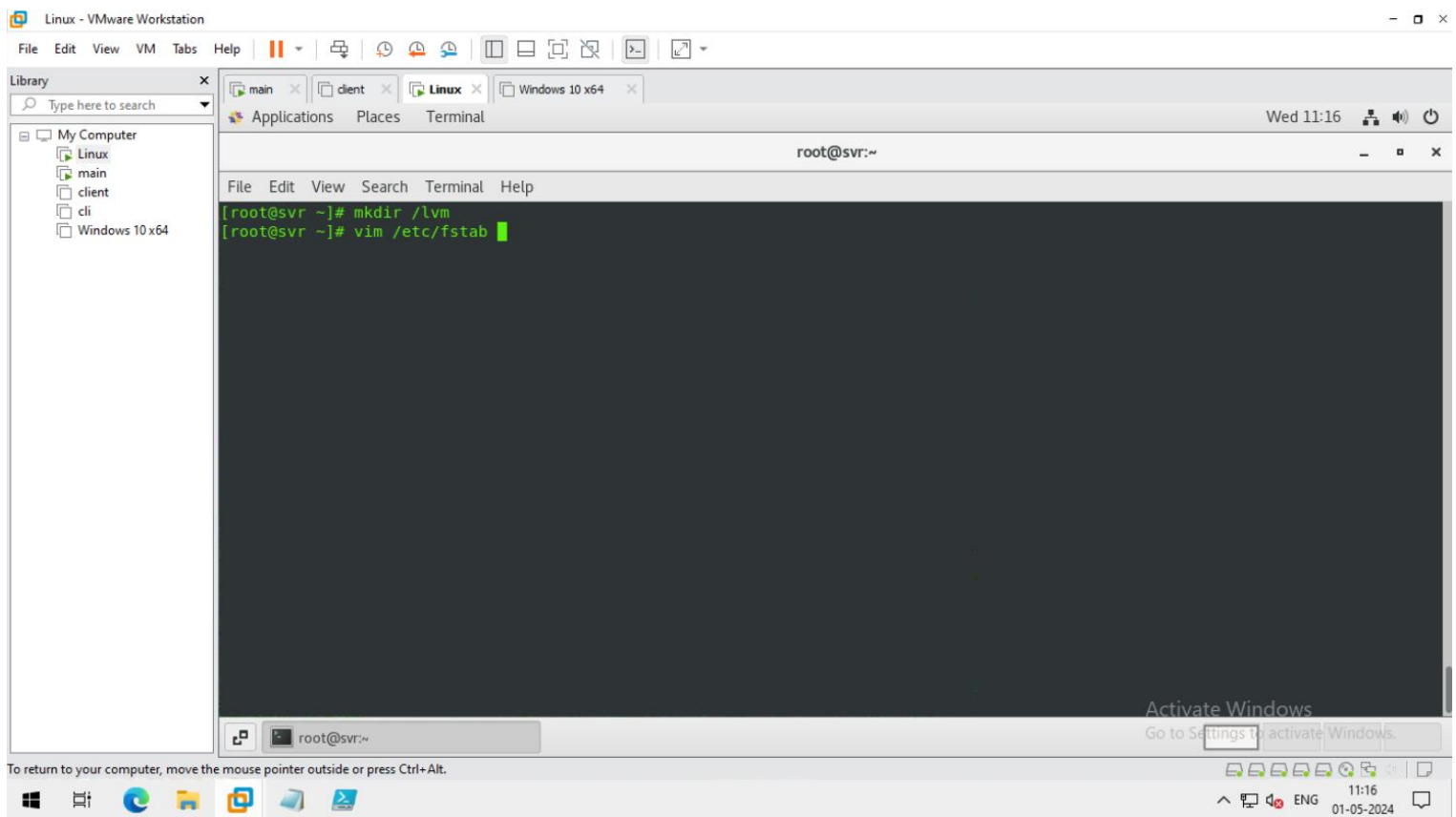












Linux - VMware Workstation

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Applications Places Terminal

Wed 11:19

root@svr:~

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```
[root@svr ~]# mkdir /lvm
[root@svr ~]# vim /etc/fstab
[root@svr ~]# mount -a
mount: unknown filesystem type '.ext4'
[root@svr ~]# vim /etc/fstab
[root@svr ~]# mount -a
[root@svr ~]# mount |grep /lvm
/dev/mapper/vg1-lv1 on /lvm type ext4 (rw,relatime,data=ordered)
[root@svr ~]# df -h
```

| Filesystem | Size | Used | Avail | Use% | Mounted on |
|-------------------------|-------|------|-------|------|---------------------------------|
| devtmpfs | 1.9G | 0 | 1.9G | 0% | /dev |
| tmpfs | 1.9G | 0 | 1.9G | 0% | /dev/shm |
| tmpfs | 1.9G | 13M | 1.9G | 1% | /run |
| tmpfs | 1.9G | 0 | 1.9G | 0% | /sys/fs/cgroup |
| /dev/mapper/centos-root | 31G | 7.3G | 24G | 24% | / |
| /dev/sda1 | 1014M | 187M | 828M | 19% | /boot |
| tmpfs | 378M | 4.0K | 378M | 1% | /run/user/42 |
| tmpfs | 378M | 28K | 378M | 1% | /run/user/0 |
| /dev/sr0 | 4.4G | 4.4G | 0 | 100% | /run/media/root/CentOS 7 x86_64 |
| /dev/mapper/vg1-lv1 | 9.8G | 37M | 9.2G | 1% | /lvm |

[root@svr ~]#

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Applications Places Terminal

Wed 11:20

root@svr:~

File Edit View Search Terminal Help

```
[root@svr ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        1.9G     0  1.9G   0% /dev
tmpfs           1.9G     0  1.9G   0% /dev/shm
tmpfs           1.9G   13M  1.9G   1% /run
tmpfs           1.9G     0  1.9G   0% /sys/fs/cgroup
/dev/mapper/centos-root 31G   7.3G   24G  24% /
/dev/sda1       1014M  187M  828M  19% /boot
tmpfs           378M   4.0K  378M   1% /run/user/42
tmpfs           378M   28K  378M   1% /run/user/0
/dev/sr0        4.4G   4.4G     0 100% /run/media/root/CentOS 7 x86_64
/dev/mapper/vg1-lv1 9.8G   37M   9.2G   1% /lvm
```

[root@svr ~]#

Virtual Machine Settings

Hardware Options

Device Summary

| Device | Summary |
|--------------------|-----------------------------------|
| Memory | 4 GB |
| Processors | 2 |
| Hard Disk (SCSI) | 35 GB |
| Hard Disk 2 (SCSI) | 5 GB |
| Hard Disk 3 (SCSI) | 5 GB |
| Hard Disk 4 (SCSI) | 10 GB |
| Hard Disk 5 (SCSI) | 5 GB |
| CD/DVD (IDE) | Using file C:\Users\Administra... |
| Network Adapter | NAT |
| USB Controller | Present |
| Sound Card | Auto detect |
| Display | Auto detect |

Memory

Specify the amount of memory allocated to this virtual machine. The memory size must be a multiple of 4 MB.

Memory for this virtual machine: 4096 MB

64 GB -
32 GB -
16 GB -
8 GB -
4 GB -
2 GB -
1 GB -
512 MB -
256 MB -
128 MB -
64 MB -
32 MB -
16 MB -
8 MB -
4 MB -

Maximum recommended memory
(Memory swapping may occur beyond this size.)
14 GB

Recommended memory
1 GB

Guest OS recommended minimum
512 MB

The virtual machine must be powered off to reduce the amount of memory.

OK Cancel Help

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Linux - VMware Workstation

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Applications Places Terminal

Wed 11:22

root@svr:~

File Edit View Search Terminal Help

```
[root@svr ~]# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
sda           8:0    0   35G  0 disk
├─sda1        8:1    0    1G  0 part /boot
├─sda2        8:2    0   34G  0 part
│ └─centos-root 253:0    0 30.5G  0 lvm  /
│   └─centos-swap 253:1    0  3.5G  0 lvm  [SWAP]
sdb           8:16    0    5G  0 disk
├─sdb1        8:17    0    5G  0 part
sdc           8:32    0    5G  0 disk
├─sdc1        8:33    0    5G  0 part
│ └─vg1-lv1    253:2    0   10G  0 lvm  /lvm
sdd           8:48    0    5G  0 disk
├─sdd1        8:49    0    5G  0 part
sde           8:64    0   10G  0 disk
├─sde1        8:65    0   10G  0 part
│ └─vg1-lv1    253:2    0   10G  0 lvm  /lvm
sdf           8:80    0    7G  0 disk
sr0          11:0    1  4.4G  0 rom  /run/media/root/CentOS 7 x86_64
[root@svr ~]#
```

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Windows taskbar: 11:22 01-05-2024

Linux - VMware Workstation

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Applications Places Terminal

Wed 11:25

root@svr:~

File Edit View Search Terminal Help

```
sr0          11:0    1  4.4G  0 rom  /run/media/root/CentOS 7 x86_64
[root@svr ~]#
[root@svr ~]# fdisk /dev/sdf
Welcome to fdisk (util-linux 2.23.2).

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Device does not contain a recognized partition table
Building a new DOS disklabel with disk identifier 0x04ea8008.

Command (m for help): n
Partition type:
   p   primary (0 primary, 0 extended, 4 free)
   e   extended
Select (default p):
Using default response p
Partition number (1-4, default 1):
First sector (2048-14680063, default 2048):
Using default value 2048
Last sector, +sectors or +size{K,M,G} (2048-14680063, default 14680063):
Using default value 14680063
Partition 1 of type Linux and of size 7 GiB is set

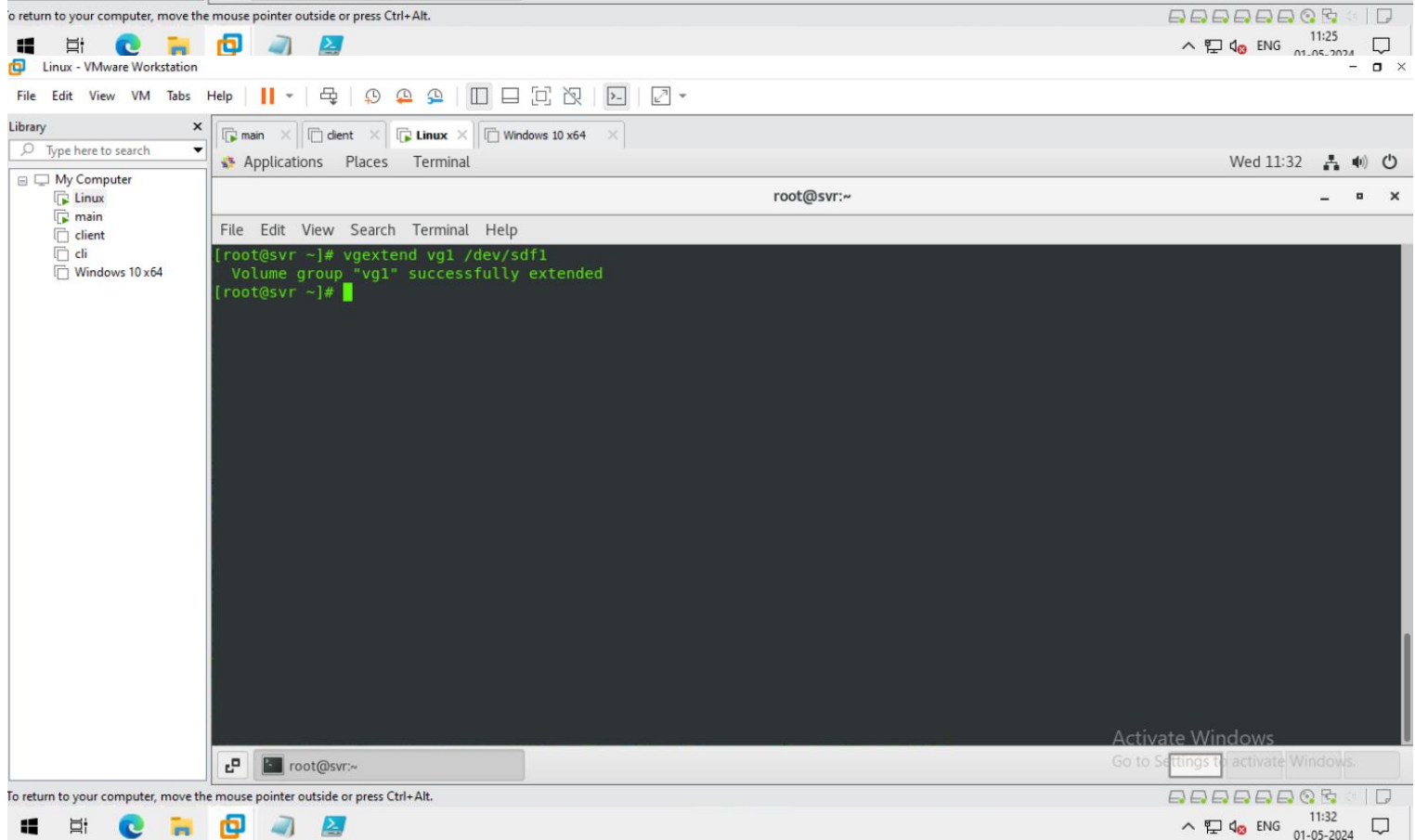
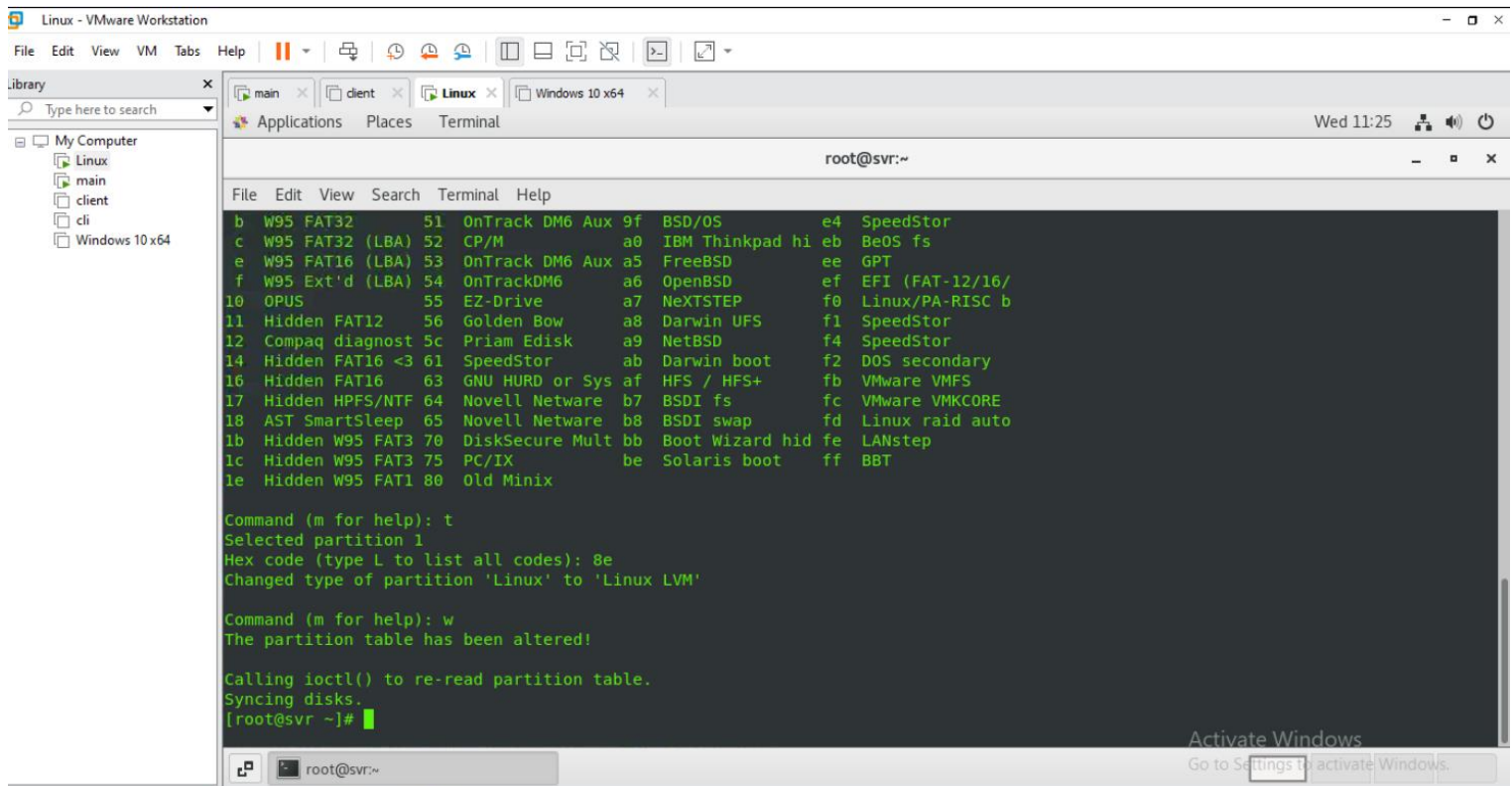
Command (m for help): l

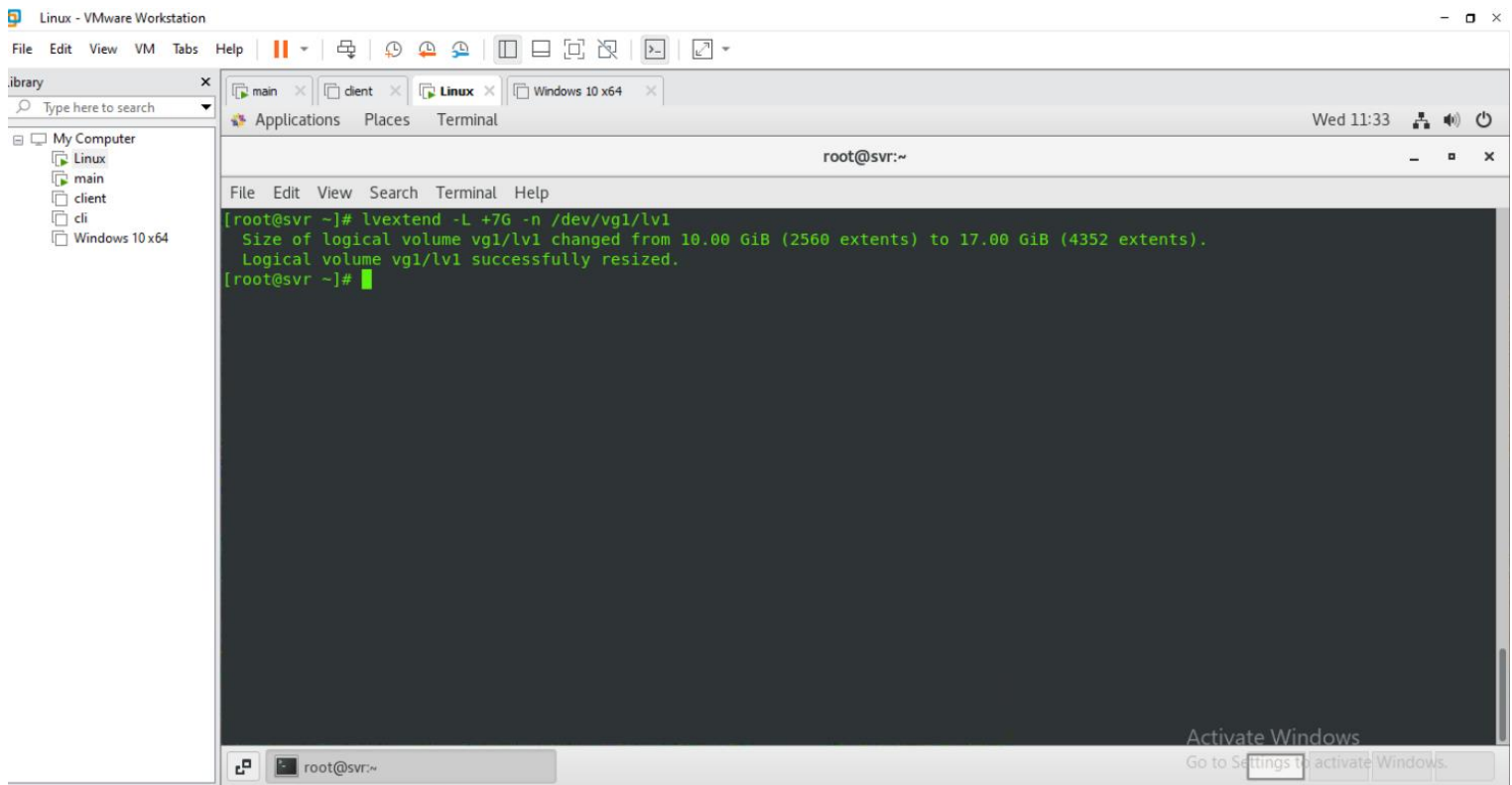
 0  Empty                24  NEC DOS               81  Minix / old Lin bf  Solaris
```

Activate Windows
Go to Settings to activate Windows.

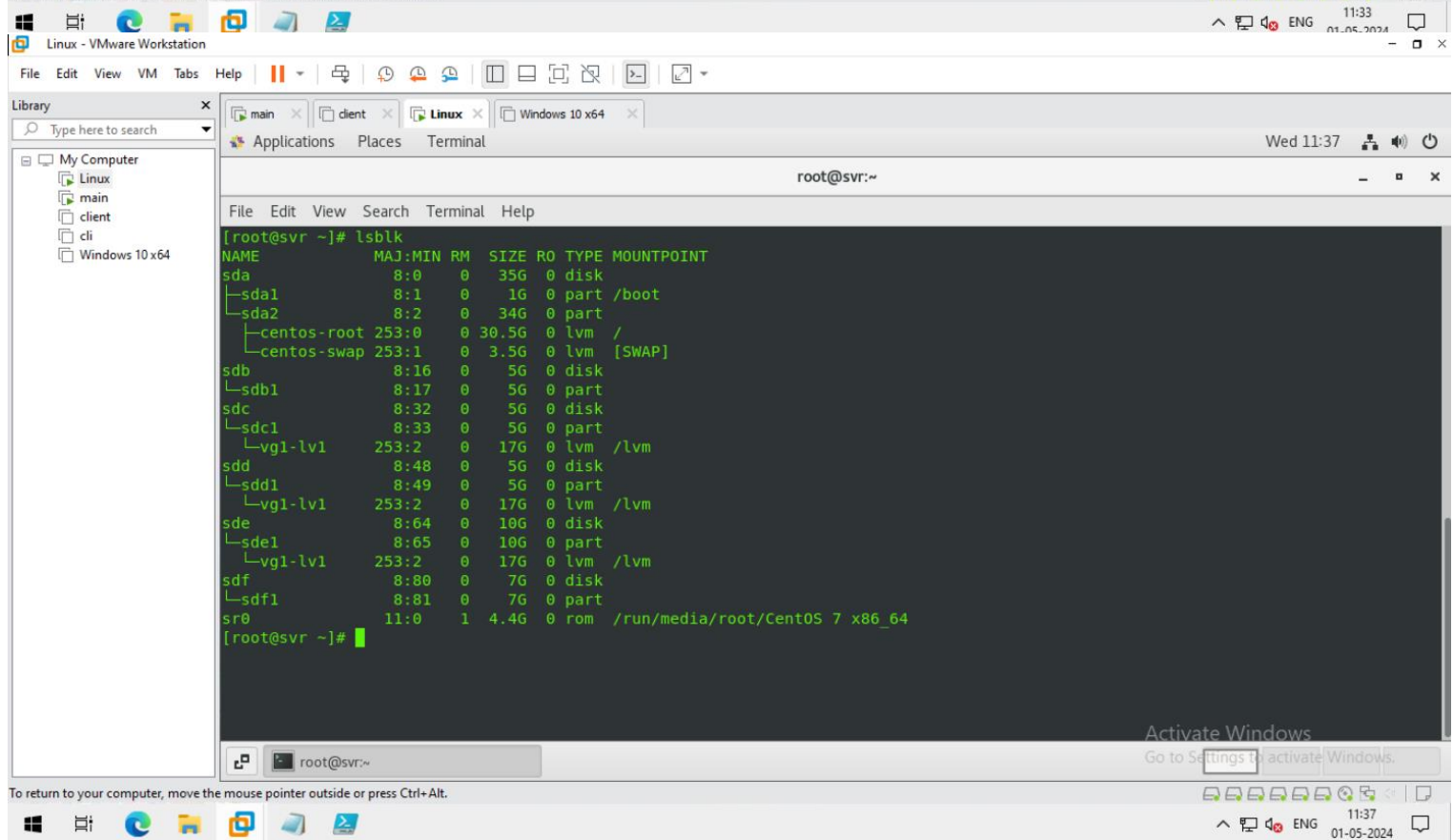
To return to your computer, move the mouse pointer outside or press Ctrl+Alt.

Windows taskbar: 11:25 01-05-2024





To return to your computer, move the mouse pointer outside or press Ctrl+Alt.



To return to your computer, move the mouse pointer outside or press Ctrl+Alt.