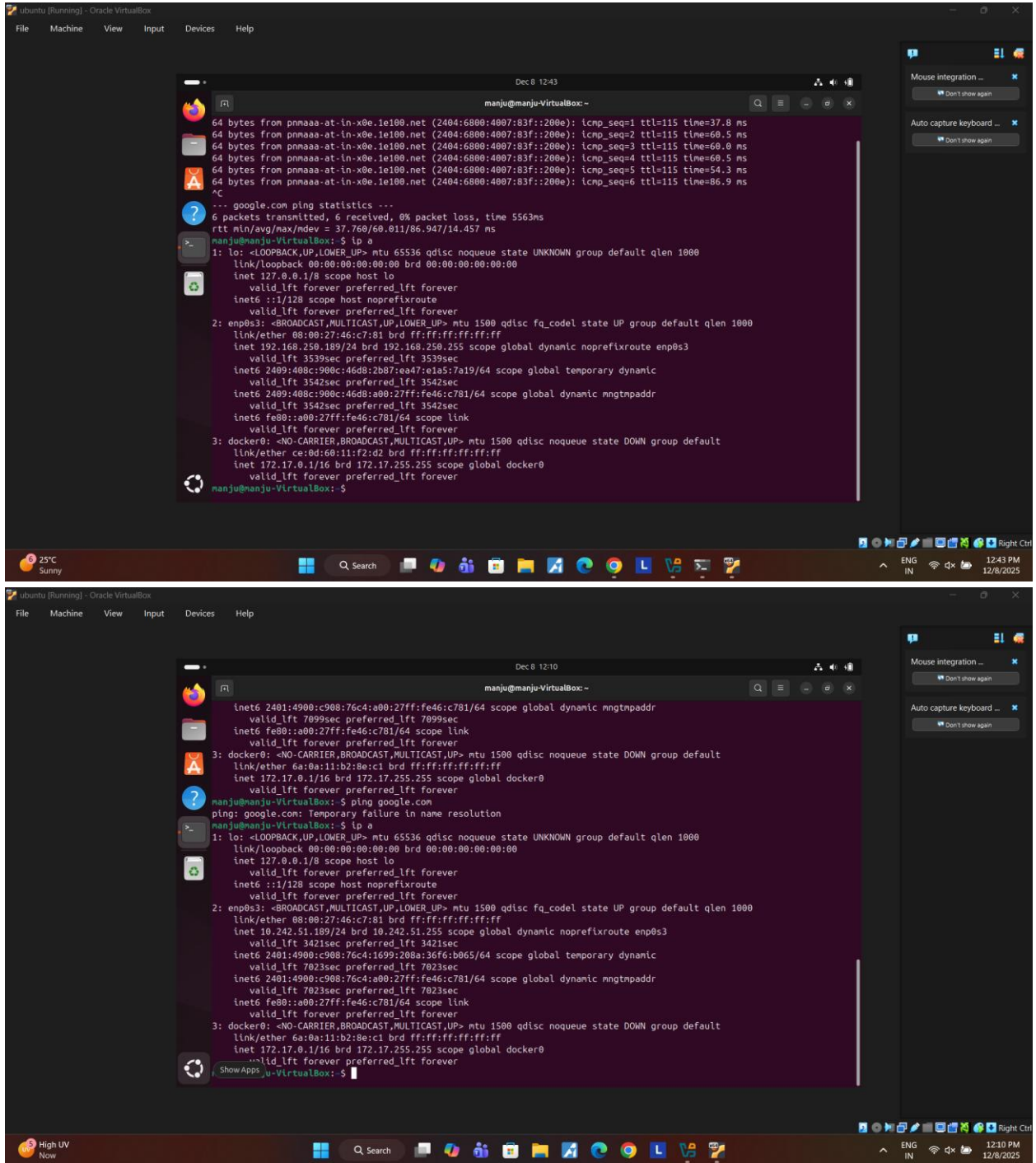
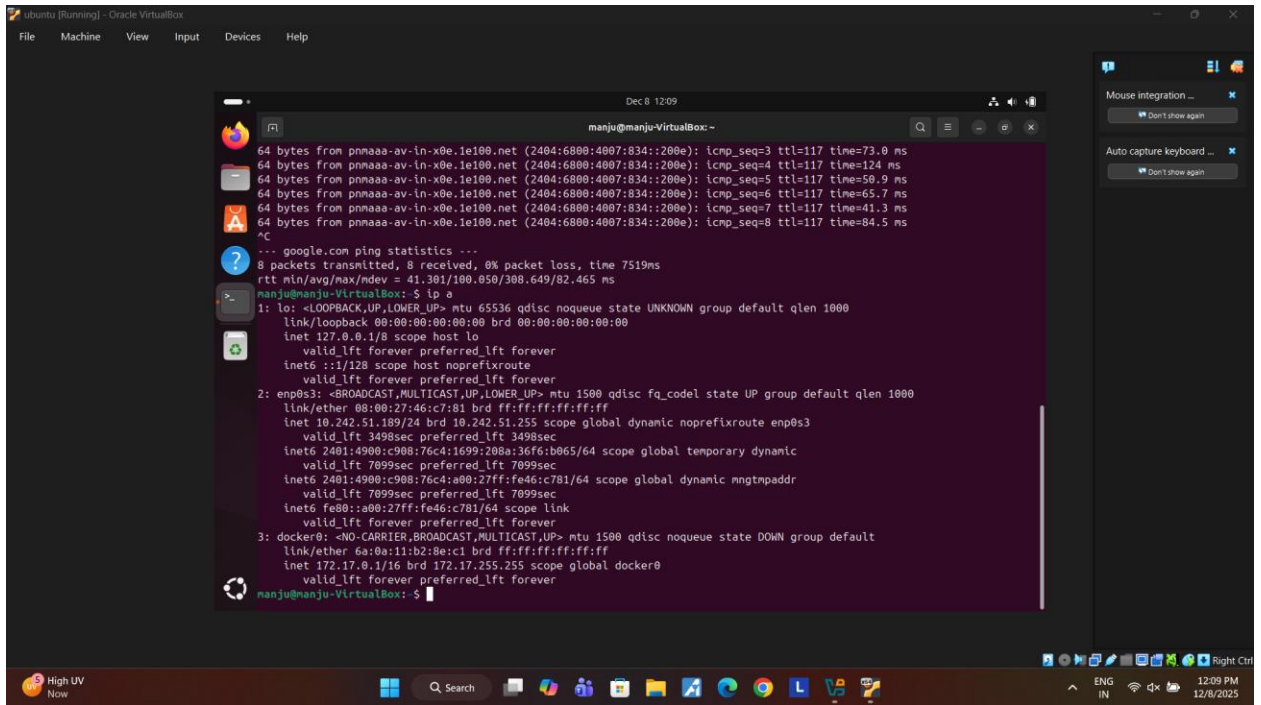
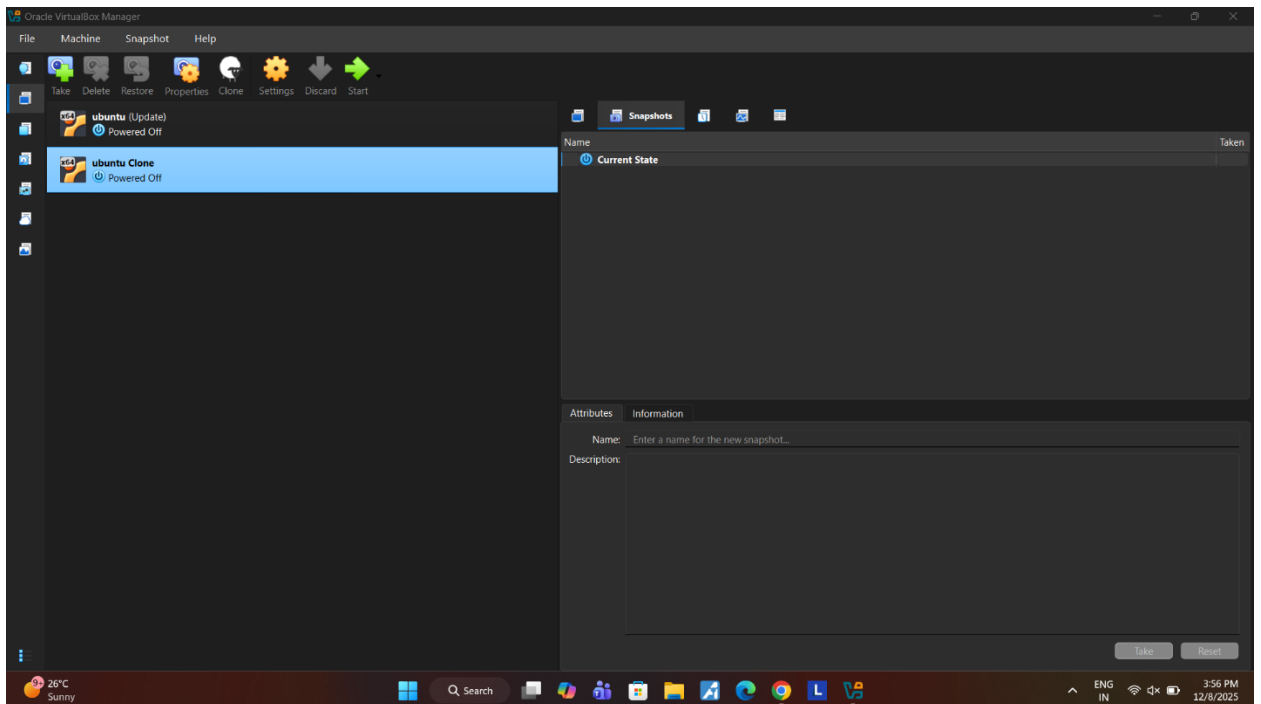


1) Networks: NAT, Bridged Connection, HOST Only



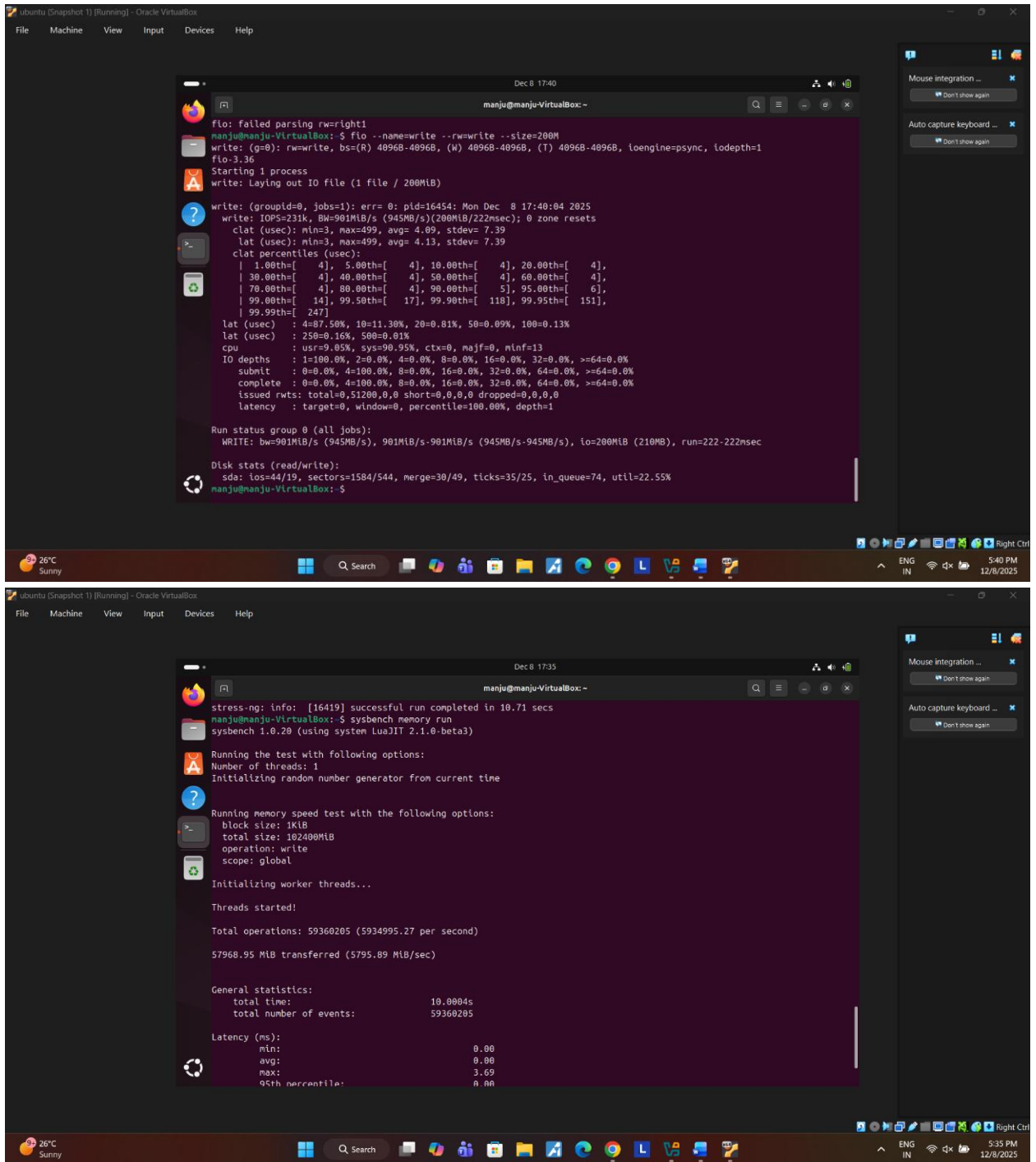


2) Clone VMs



3)

Benchmarking



```
fio: failed parsing rw=right1
manju@manju-VirtualBox:~$ fio --name=write --rw=write --size=200M
writes (g=0): rw=write, bs=(R) 4096B-4096B, (W) 4096B-4096B, (T) 4096B-4096B, ioengine=psync, iodepth=1
fio-3.36
Starting 1 process
write: Laying out IO file (1 file / 200MiB)
write: (groupid=0, jobs=1): err= 0: pid=16454: Mon Dec 8 17:40:04 2025
write: IOPS=231k, BW=901MiB/s (945MB/s)(200MiB/222msec); 0 zone resets
clat (usec): min=3, max=499, avg= 4.09, stdev= 7.39
lat (usec): min=3, max=499, avg= 4.13, stdev= 7.39
clat percentiles (usec):
| 1.00th=[  4], 5.00th=[  4], 10.00th=[  4], 20.00th=[  4],
| 30.00th=[  4], 40.00th=[  4], 50.00th=[  4], 60.00th=[  4],
| 70.00th=[  4], 80.00th=[  4], 90.00th=[  5], 95.00th=[  6],
| 99.00th=[ 14], 99.50th=[ 17], 99.90th=[ 118], 99.95th=[ 151],
| 99.99th=[ 247]
lat (usec)   : 4=87.50%, 10=11.30%, 20=0.81%, 50=0.09%, 100=0.13%
lat (usec)   : 250=0.16%, 500=0.01%
cpu          : usr=0.05%, sys=90.95%, ctx=0, majf=0, minf=13
IO depths    : 1=100.0%, 2=0.0%, 4=0.0%, 8=0.0%, 16=0.0%, 32=0.0%, >=64=0.0%
submit      : 0=0.0%, 4=100.0%, 8=0.0%, 16=0.0%, 32=0.0%, 64=0.0%, >=64=0.0%
complete    : 0=0.0%, 4=100.0%, 8=0.0%, 16=0.0%, 32=0.0%, 64=0.0%, >=64=0.0%
issued rwts: total=0,51200,0,0 short=0,0,0,0 dropped=0,0,0,0
latency      : target=0, window=0, percentile=100.00%, depth=1

Run status group 0 (all jobs):
WRITE: bw=901MiB/s (945MB/s), 901MiB/s-901MiB/s (945MB/s-945MB/s), io=200MiB (210MB), run=222-222msec

Disk stats (read/write):
sda: ios=44/19, sectors=1584/544, merge=30/49, ticks=35/25, ln_queue=74, util=22.55%
manju@manju-VirtualBox:~$
```

```
stress-ng: info: [16419] successful run completed in 10.71 secs
manju@manju-VirtualBox:~$ sysbench memory run
sysbench 1.0.20 (using system LuaJIT 2.1.0-beta3)

Running the test with following options:
Number of threads: 1
Initializing random number generator from current time

Running memory speed test with the following options:
block size: 1KiB
total size: 102400MiB
operation: write
scope: global

Initializing worker threads...

Threads started!

Total operations: 59360205 (5934995.27 per second)

57968.95 MiB transferred (5795.89 MiB/sec)

General statistics:
total time:          10.0004s
total number of events: 59360205

Latency (ms):
min:                0.00
avg:                 0.00
max:                 3.69
95th percentile:    0.00
```

