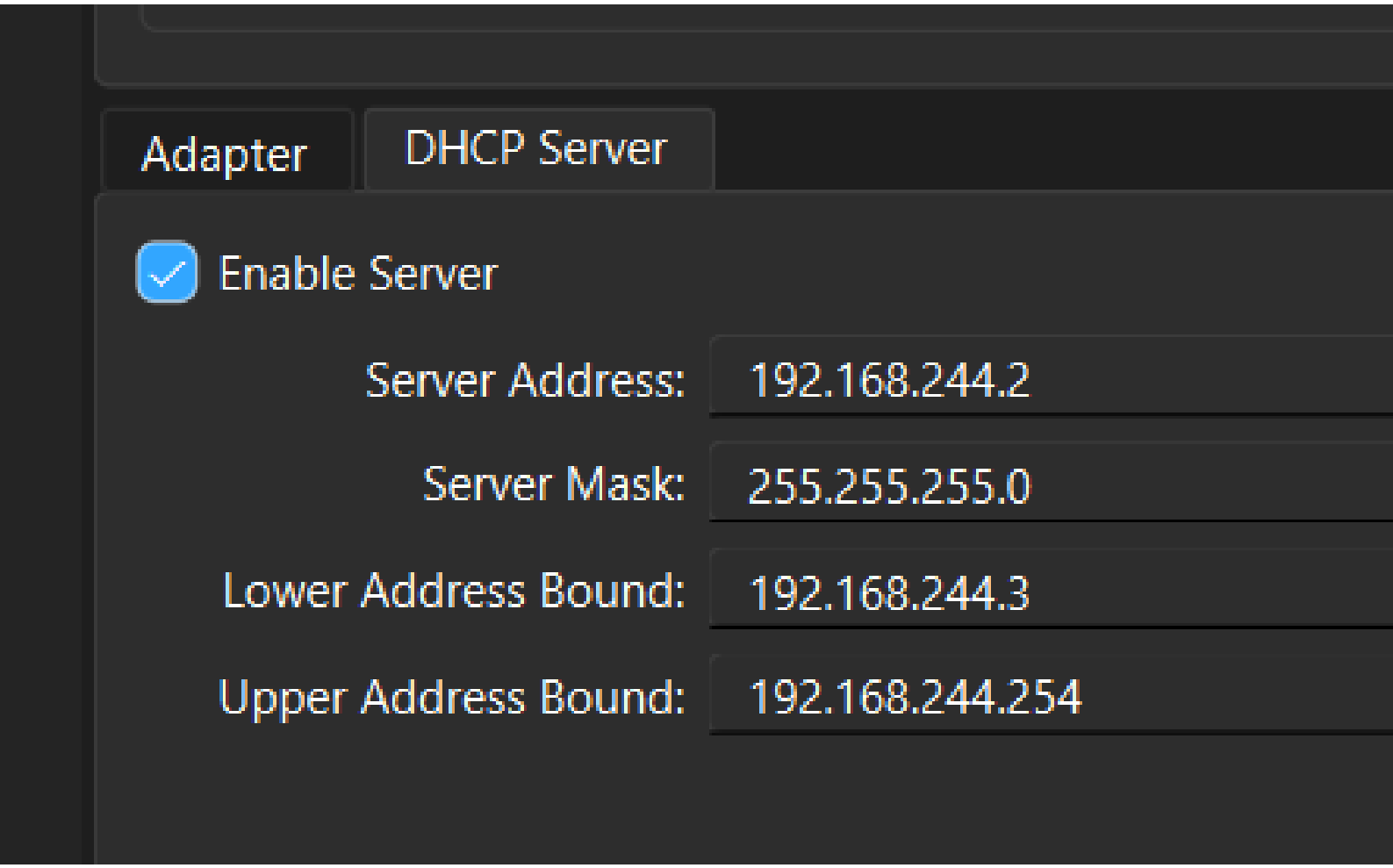
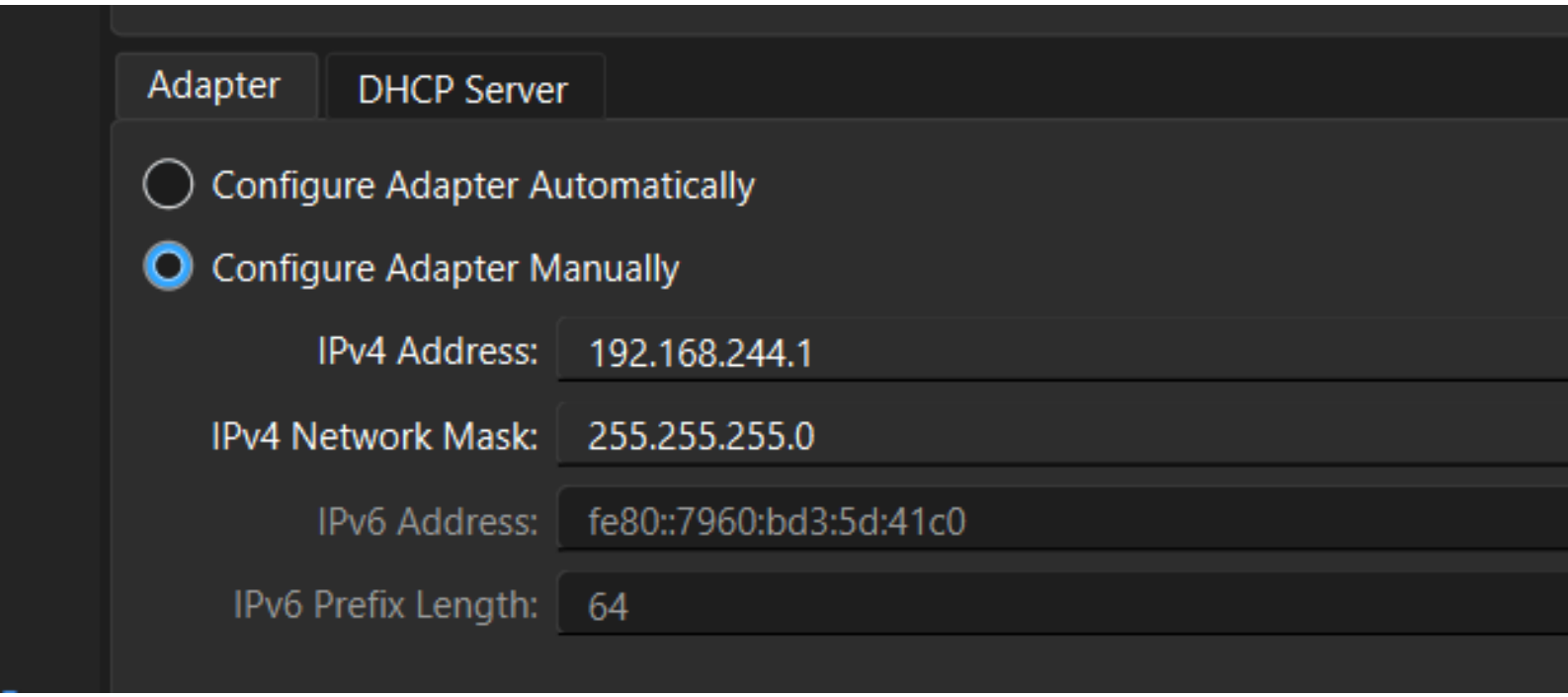
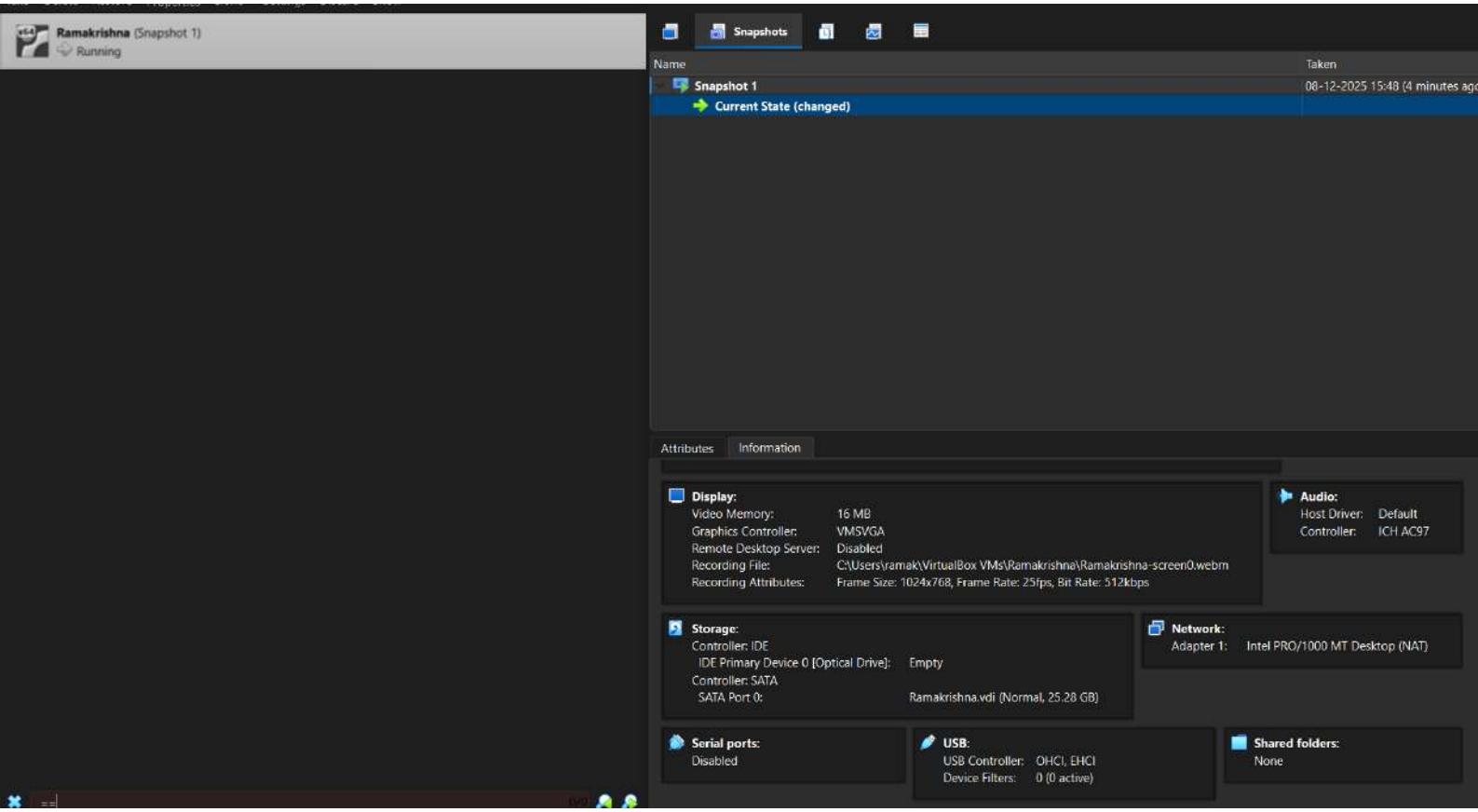
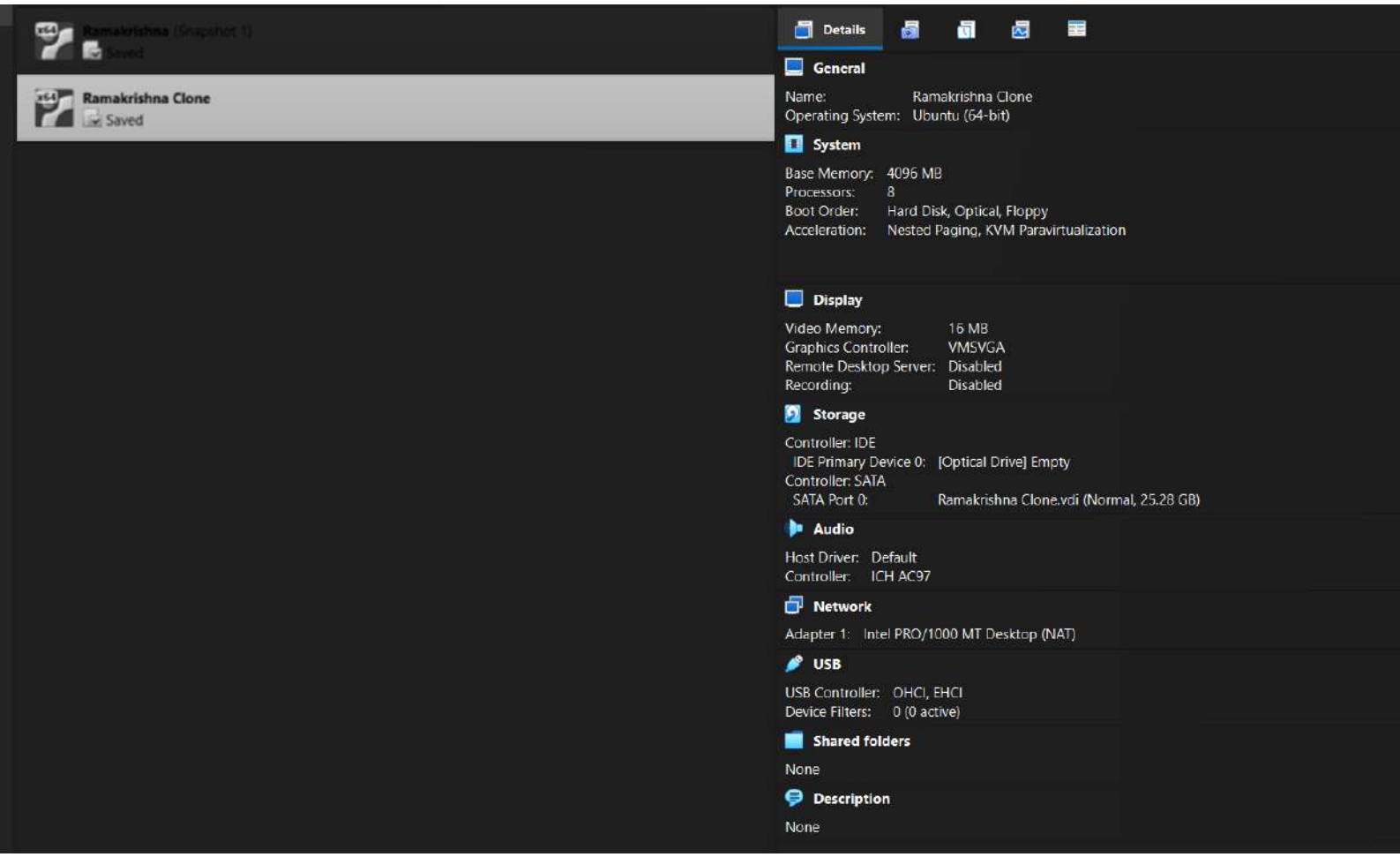
```
vboxuser@Ramakrishna:~$ ping google.com
PING google.com (216.239.38.120) 56(84) bytes of data.
64 bytes from any-in-2678.1e100.net (216.239.38.120): icmp_seq=1 ttl=255 tim
e=20.1 ms
64 bytes from any-in-2678.1e100.net (216.239.38.120): icmp_seq=2 ttl=255 tim
e=19.4 ms
64 bytes from any-in-2678.1e100.net (216.239.38.120): icmp_seq=3 ttl=255 tim
e=22.9 ms
^C
--- google.com ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2850ms
rtt min/avg/max/mdev = 19.358/20.767/22.857/1.507 ms
vboxuser@Ramakrishna:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group de
fault qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
       valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state U
P group default qlen 1000
    link/ether 08:00:27:23:19:45 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0
s3
       valid_lft 86239sec preferred_lft 86239sec
    inet6 fd17:625c:f037:2:1e34:5551:636a:115a/64 scope global temporary dyn
amic
       valid_lft 86240sec preferred_lft 14240sec
    inet6 fd17:625c:f037:2:a00:27ff:fe23:1945/64 scope global dynamic mngtmp
addr
       valid_lft 86240sec preferred_lft 14240sec
    inet6 fe80::a00:27ff:fe23:1945/64 scope link
       valid_lft forever preferred_lft forever
```

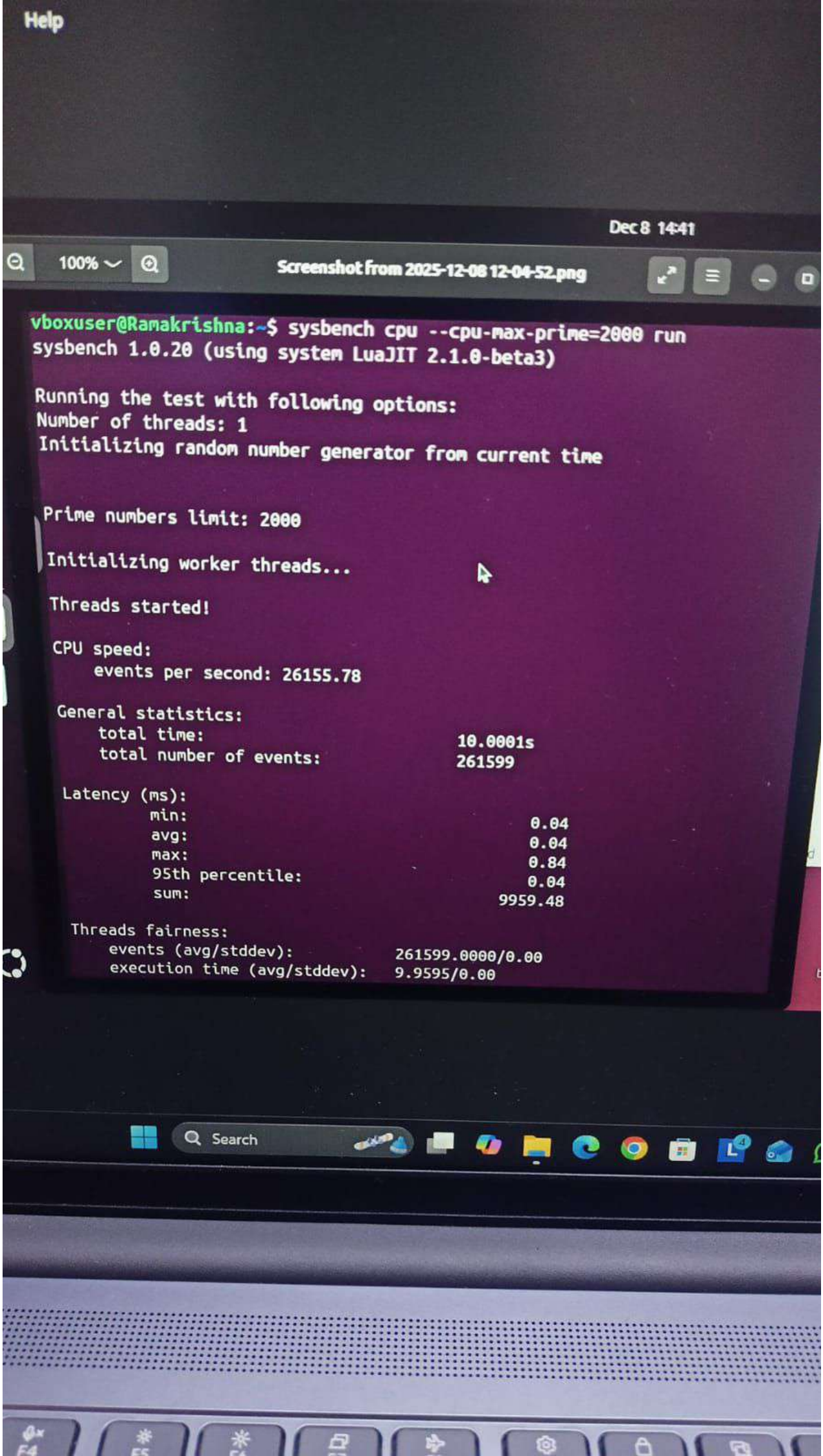
```
vboxuser@Ramakrishna:~$ ping google.com
ping: google.com: Temporary failure in name resolution
vboxuser@Ramakrishna:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
       valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:23:19:45 brd ff:ff:ff:ff:ff:ff
    inet 192.168.244.3/24 brd 192.168.244.255 scope global dynamic noprefixroute enp0s3
       valid_lft 560sec preferred_lft 560sec
    inet6 fe80::a00:27ff:fe23:1945/64 scope link
       valid_lft forever preferred_lft forever
vboxuser@Ramakrishna:~$
```

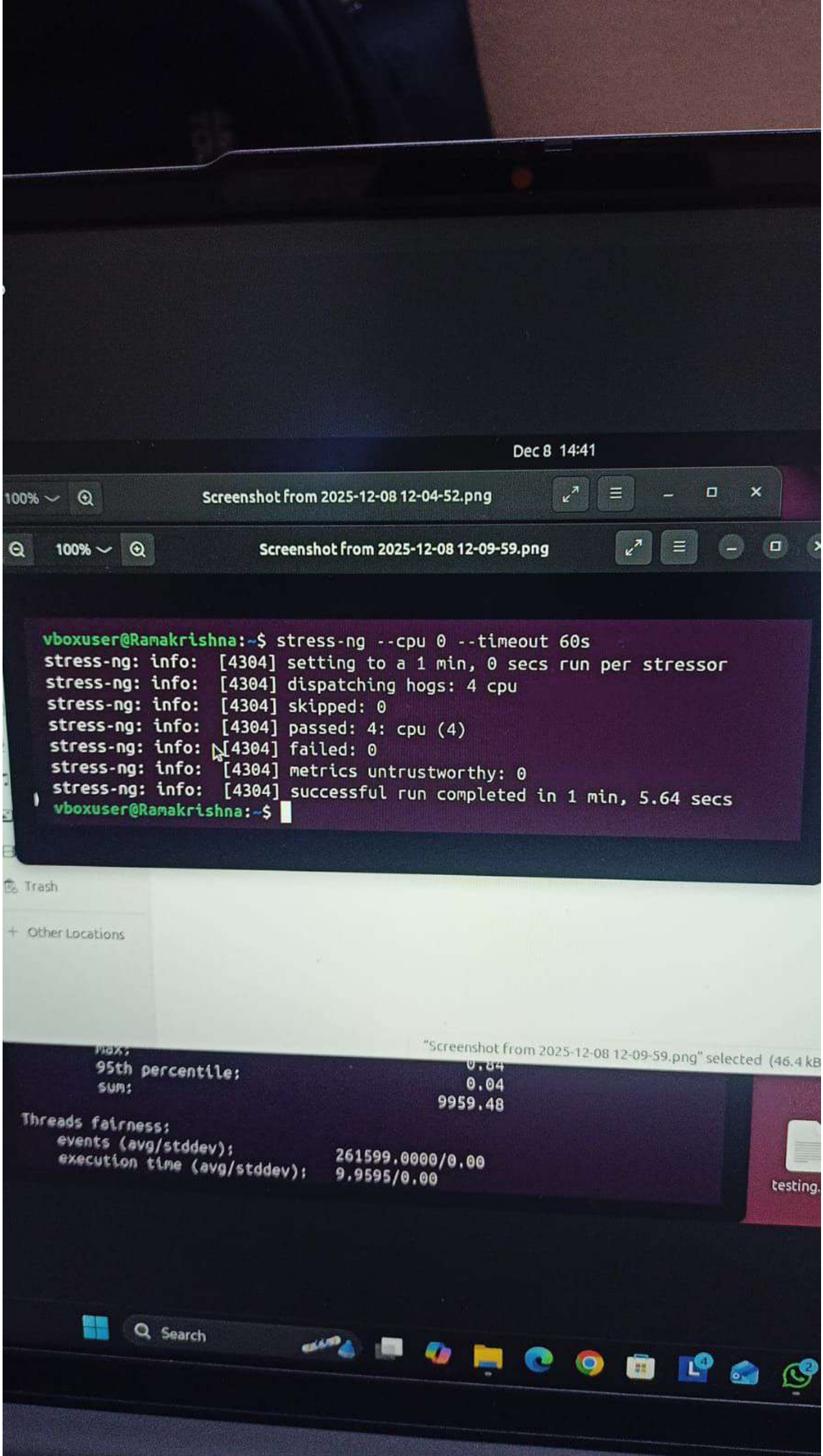

Adapter
DHCP Server
Enable Server
Server Address:
192.168.244.2
Server Mask:
255.255.255.0
Lower Address Bound:
192.168.244.3
Upper Address Bound:
192.168.244.254

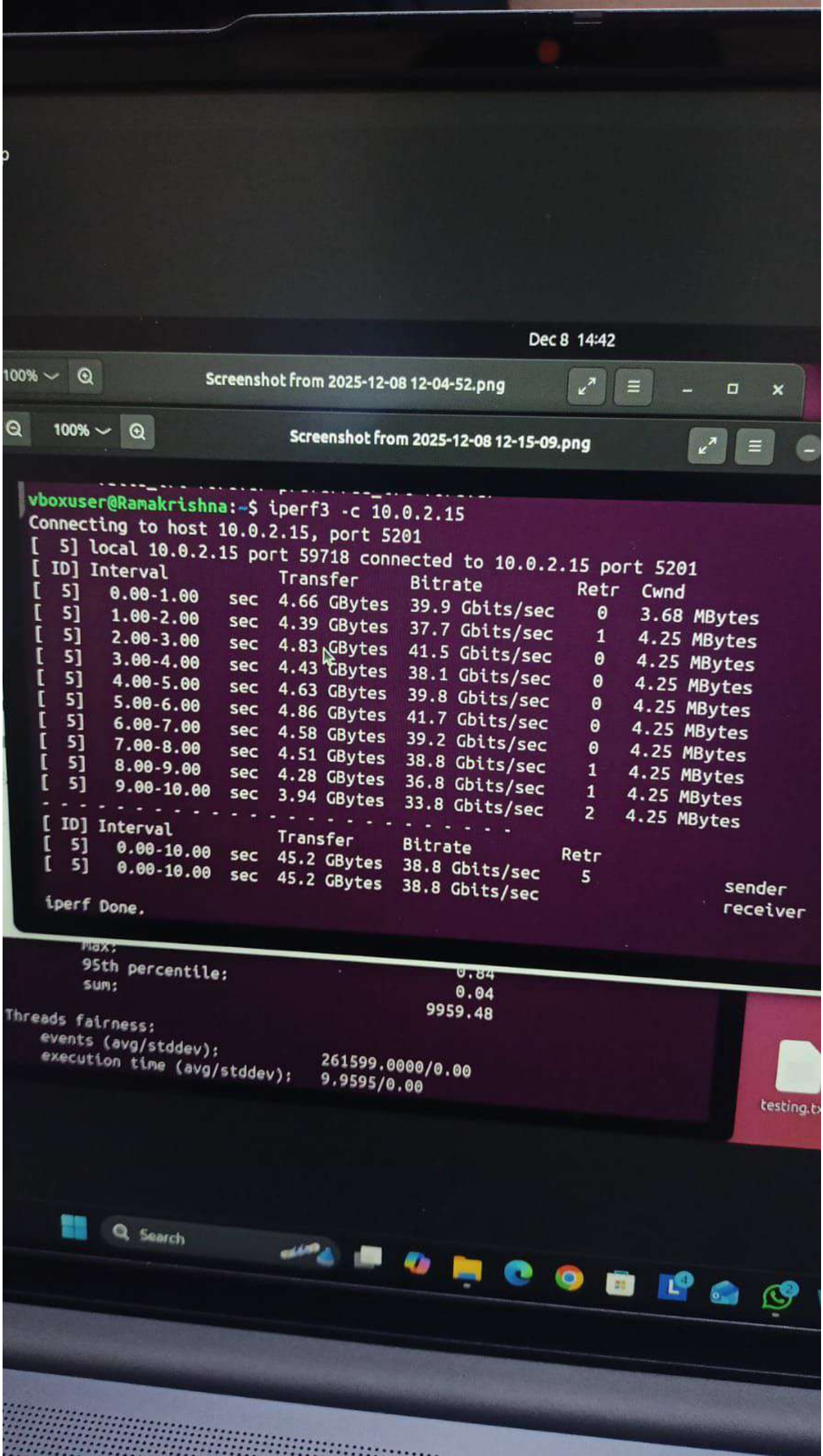

Adapter
DHCP Server
Configure Adapter Automatically
Configure Adapter Manually
IPv4 Address:
192.168.244.1
IPv4 Network Mask:
255.255.255.0
IPv6 Address:
fe80::7960:bd3:5d:41c0
IPv6 Prefix Length:
64

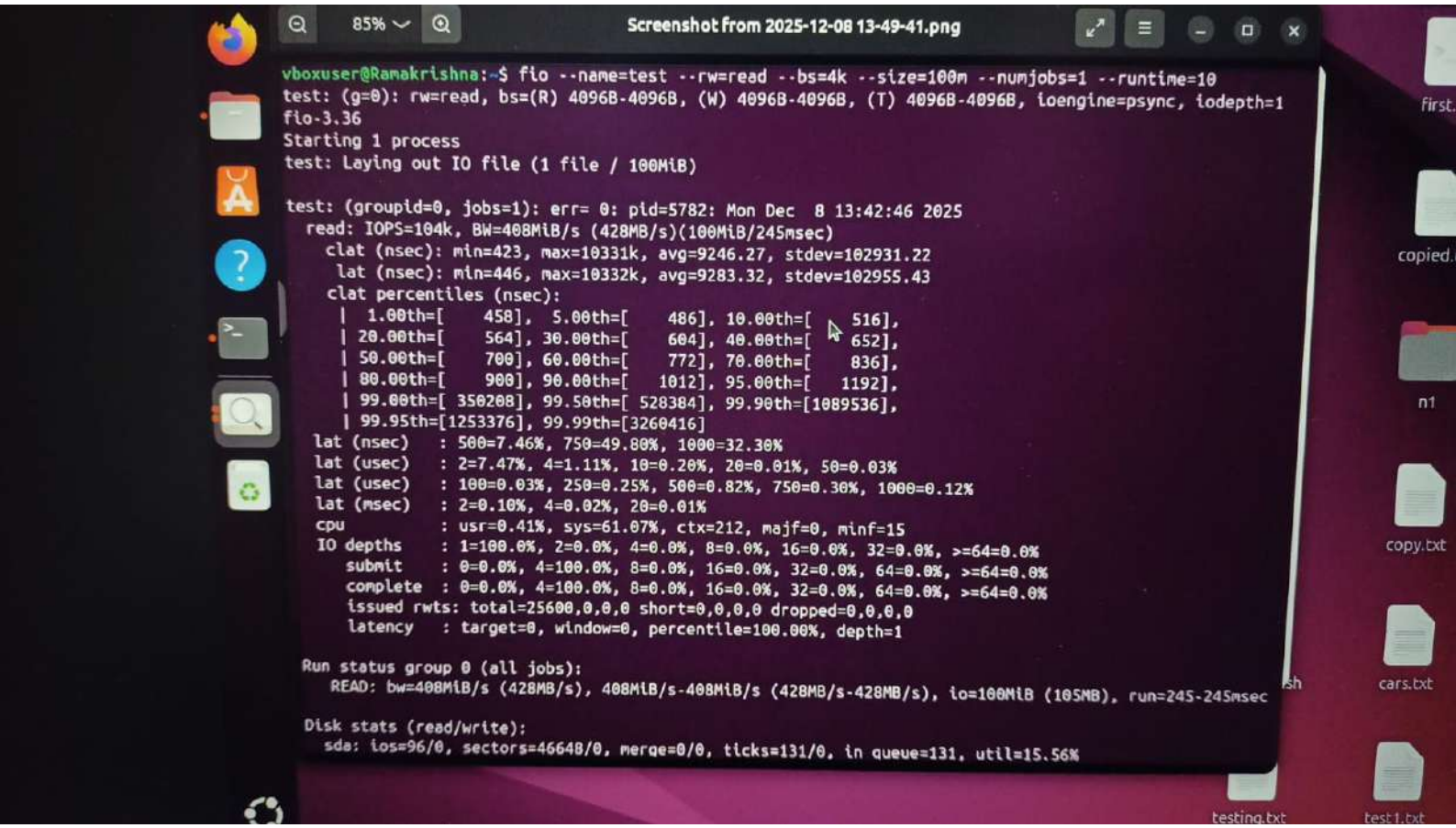

Ramakrishna (Snapshot 1)
Running
Snapshots
Name
Taken
Snapshot 1
08-12-2025 15:48 (4 minutes ago
Current State (changed)
Attributes
Information
Display:
Video Memory: 16 MB
Graphics Controller: VMSVGA
Remote Desktop Server: Disabled
Recording File: C:\Users\ramak\VirtualBox VMs\Ramakrishna\Ramakrishna-screen0.webm
Recording Attributes: Frame Size: 1024x768, Frame Rate: 25fps, Bit Rate: 512kbps
Audio:
Host Driver: Default
Controller: ICH AC97
Storage:
Controller: IDE
IDE Primary Device 0 [Optical Drive]: Empty
Controller: SATA
SATA Port 0: Ramakrishna.vdi (Normal, 25.28 GB)
Network:
Adapter 1: Intel PRO/1000 MT Desktop (NAT)
Serial ports:
Disabled
USB:
USB Controller: OHCI, EHCI
Device Filters: 0 (0 active)
Shared folders:
None


Ramakrishna (Snapshot 1)
Saved
Ramakrishna Clone
Saved
Details
General
Name: Ramakrishna Clone
Operating System: Ubuntu (64-bit)
System
Base Memory: 4096 MB
Processors: 8
Boot Order: Hard Disk, Optical, Floppy
Acceleration: Nested Paging, KVM Paravirtualization
Display
Video Memory: 16 MB
Graphics Controller: VMSVGA
Remote Desktop Server: Disabled
Recording: Disabled
Storage
Controller: IDE
IDE Primary Device 0: [Optical Drive] Empty
Controller: SATA
SATA Port 0: Ramakrishna Clone.vdi (Normal, 25.28 GB)
Audio
Host Driver: Default
Controller: ICH AC97
Network
Adapter 1: Intel PRO/1000 MT Desktop (NAT)
USB
USB Controller: OHCI, EHCI
Device Filters: 0 (0 active)
Shared folders
None
Description
None


Help
Dec 8 14:41
100%
Screenshot from 2025-12-08 12-04-52.png
vboxuser@Ramakrishna:~$ sysbench cpu --cpu-max-prime=2000 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
Prime numbers limit: 2000
Initializing worker threads...
Threads started!
CPU speed:
events per second: 26155.78
General statistics:
total time: 10.0001s
total number of events: 261599
Latency (ms):
min: 0.04
avg: 0.04
max: 0.84
95th percentile: 0.04
sum: 9959.48
Threads fairness:
events (avg/stddev): 261599.0000/0.00
execution time (avg/stddev): 9.9595/0.00
Search


Dec 8 14:41
100%
Screenshot from 2025-12-08 12-04-52.png
100%
Screenshot from 2025-12-08 12-09-59.png
vboxuser@Ramakrishna:~$ stress-ng --cpu 0 --timeout 60s
stress-ng: info: [4304] setting to a 1 min, 0 secs run per stressor
stress-ng: info: [4304] dispatching hogs: 4 cpu
stress-ng: info: [4304] skipped: 0
stress-ng: info: [4304] passed: 4: cpu (4)
stress-ng: info: [4304] failed: 0
stress-ng: info: [4304] metrics untrustworthy: 0
stress-ng: info: [4304] successful run completed in 1 min, 5.64 secs
vboxuser@Ramakrishna:~$
Trash
Other Locations
"Screenshot from 2025-12-08 12-09-59.png" selected (46.4 kB
95th percentile: 0.04
sum: 9959.48
Threads fairness:
events (avg/stddev): 261599.0000/0.00
execution time (avg/stddev): 9.9595/0.00
testing.
Search


Dec 8 14:42
100%
Screenshot from 2025-12-08 12-04-52.png
100%
Screenshot from 2025-12-08 12-15-09.png
vboxuser@Ramakrishna:~$ iperf3 -c 10.0.2.15
Connecting to host 10.0.2.15, port 5201
[5] local 10.0.2.15 port 59718 connected to 10.0.2.15 port 5201
[ID] Interval Transfer Bitrate Retr Cwnd
[5] 0.00-1.00 sec 4.66 GBytes 39.9 Gbits/sec 0 3.68 MBytes
[5] 1.00-2.00 sec 4.39 GBytes 37.7 Gbits/sec 1 4.25 MBytes
[5] 2.00-3.00 sec 4.83 GBytes 41.5 Gbits/sec 0 4.25 MBytes
[5] 3.00-4.00 sec 4.43 GBytes 38.1 Gbits/sec 0 4.25 MBytes
[5] 4.00-5.00 sec 4.63 GBytes 39.8 Gbits/sec 0 4.25 MBytes
[5] 5.00-6.00 sec 4.86 GBytes 41.7 Gbits/sec 0 4.25 MBytes
[5] 6.00-7.00 sec 4.58 GBytes 39.2 Gbits/sec 0 4.25 MBytes
[5] 7.00-8.00 sec 4.51 GBytes 38.8 Gbits/sec 0 4.25 MBytes
[5] 8.00-9.00 sec 4.28 GBytes 36.8 Gbits/sec 1 4.25 MBytes
[5] 9.00-10.00 sec 3.94 GBytes 33.8 Gbits/sec 1 4.25 MBytes
[5] 10.00-10.00 sec 0.00 Bytes 0.00 bits/sec 2 4.25 MBytes
[ID] Interval Transfer Bitrate Retr
[5] 0.00-10.00 sec 45.2 GBytes 38.8 Gbits/sec 5 sender
[5] 0.00-10.00 sec 45.2 GBytes 38.8 Gbits/sec receiver
iperf Done.
95th percentile: 0.84
sum: 0.04
9959.48
Threads fairness:
events (avg/stddev): 261599.0000/0.00
execution time (avg/stddev): 9.9595/0.00
testing.tx
Search


85%
Screenshot from 2025-12-08 13-49-41.png
vboxuser@Ramakrishna:~$ fio --name=test --rw=read --bs=4k --size=100m --numjobs=1 --runtime=10
test: (g=0): rw=read, bs=(R) 4096B-4096B, (W) 4096B-4096B, (T) 4096B-4096B, ioengine=psync, iodepth=1
fio-3.36
Starting 1 process
test: Laying out IO file (1 file / 100MiB)
test: (groupid=0, jobs=1): err= 0: pid=5782: Mon Dec 8 13:42:46 2025
read: IOPS=104k, BW=408MiB/s (428MB/s)(100MiB/245msec)
clat (nsec): min=423, max=10331k, avg=9246.27, stdev=102931.22
lat (nsec): min=446, max=10332k, avg=9283.32, stdev=102955.43
clat percentiles (nsec):
| 1.00th=[458], 5.00th=[486], 10.00th=[516],
| 20.00th=[564], 30.00th=[604], 40.00th=[652],
| 50.00th=[700], 60.00th=[772], 70.00th=[836],
| 80.00th=[900], 90.00th=[1012], 95.00th=[1192],
| 99.00th=[350208], 99.50th=[528384], 99.90th=[1089536],
| 99.95th=[1253376], 99.99th=[3260416]
lat (nsec) : 500=7.46%, 750=49.80%, 1000=32.30%
lat (usec) : 2=7.47%, 4=1.11%, 10=0.20%, 20=0.01%, 50=0.03%
lat (usec) : 100=0.03%, 250=0.25%, 500=0.82%, 750=0.30%, 1000=0.12%
lat (msec) : 2=0.10%, 4=0.02%, 20=0.01%
cpu : usr=0.41%, sys=61.07%, ctx=212, majf=0, minf=15
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=25600,0,0,0 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):
READ: bw=408MiB/s (428MB/s), 408MiB/s-408MiB/s (428MB/s-428MB/s), io=100MiB (105MB), run=245-245msec
Disk stats (read/write):
sda: ios=96/0, sectors=46648/0, merge=0/0, ticks=131/0, in queue=131, util=15.56%
first
copied
n1
copy.txt
cars.txt
testing.txt
test1.txt

```
vboxuser@Ramakrishna:~$ sysbench cpu --cpu-max-prime=20000 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


Prime numbers limit: 20000

Initializing worker threads...

Threads started!

CPU speed:
    events per second:   988.49

General statistics:
    total time:                          10.0007s
    total number of events:              9887

Latency (ms):
         min:                                    0.94
         avg:                                    1.01
         max:                                    4.39
         95th percentile:                        1.27
         sum:                                 9992.72

Threads fairness:
    events (avg/stddev):           9887.0000/0.00
    execution time (avg/stddev):   9.9927/0.00
```

```
vboxuser@Ramakrishna:~$ stress-ng --cpu 0 --timeout 60s
stress-ng: info:  [4570] setting to a 1 min, 0 secs run per stressor
stress-ng: info:  [4570] dispatching hogs: 8 cpu
stress-ng: info:  [4570] skipped: 0
stress-ng: info:  [4570] passed: 8: cpu (8)
stress-ng: info:  [4570] failed: 0
stress-ng: info:  [4570] metrics untrustworthy: 0
stress-ng: info:  [4570] successful run completed in 4 mins, 17.99 secs
```

```
vboxuser@Ramakrishna:~$ iperf3 -c 10.0.2.15
Connecting to host 10.0.2.15, port 5201
[  5] local 10.0.2.15 port 56492 connected to 10.0.2.15 port 5201
[ ID] Interval           Transfer     Bitrate         Retr  Cwnd
[  5]   0.00-1.00   sec  5.57 GBytes  47.8 Gbits/sec    0   4.18 MBytes
[  5]   1.00-2.00   sec  4.79 GBytes  41.1 Gbits/sec    0   4.18 MBytes
[  5]   2.00-3.00   sec  4.96 GBytes  42.6 Gbits/sec    2   4.18 MBytes
[  5]   3.00-4.00   sec  4.77 GBytes  41.0 Gbits/sec    0   4.18 MBytes
[  5]   4.00-5.00   sec  4.78 GBytes  41.0 Gbits/sec    0   4.18 MBytes
[  5]   5.00-6.00   sec  4.75 GBytes  40.7 Gbits/sec    0   4.18 MBytes
[  5]   6.00-7.00   sec  4.94 GBytes  42.4 Gbits/sec    0   4.18 MBytes
[  5]   7.00-8.00   sec  4.70 GBytes  40.4 Gbits/sec    0   4.18 MBytes
[  5]   8.00-9.00   sec  4.91 GBytes  42.2 Gbits/sec    0   4.18 MBytes
[  5]   9.00-10.00  sec  4.84 GBytes  41.5 Gbits/sec    0   4.18 MBytes
- - - - - - - - - - - - - - - - - - - - - - - - -
[ ID] Interval           Transfer     Bitrate         Retr
[  5]   0.00-10.00  sec  49.2 GBytes  42.2 Gbits/sec    2             send
[  5]   0.00-10.00  sec  49.2 GBytes  42.2 Gbits/sec                  rece

iperf Done.
```

```
vboxuser@Ramakrishna:~$ fio --name=test --rw=read --bs=4k --size=100m --numjobs=1 --runtime=10
test: (g=0): rw=read, bs=(R) 4096B-4096B, (W) 4096B-4096B, (T) 4096B-4096B, ioengine=psync, iodepth=1
fio-3.36
Starting 1 process
test: Laying out IO file (1 file / 100MiB)

test: (groupid=0, jobs=1): err= 0: pid=6288: Mon Dec  8 13:41:26 2025
  read: IOPS=101k, BW=394MiB/s (413MB/s)(100MiB/254msec)
    clat (nsec): min=426, max=7248.2k, avg=9587.76, stdev=97232.23
     lat (nsec): min=449, max=7249.0k, avg=9626.52, stdev=97234.92
    clat percentiles (nsec):
     |  1.00th=[    454],  5.00th=[    466], 10.00th=[    478],
     | 20.00th=[    516], 30.00th=[    564], 40.00th=[    620],
     | 50.00th=[    684], 60.00th=[    732], 70.00th=[    788],
     | 80.00th=[    852], 90.00th=[    956], 95.00th=[   1112],
     | 99.00th=[ 337920], 99.50th=[ 593920], 99.90th=[1171456],
     | 99.95th=[1597440], 99.99th=[3424256]
  lat (nsec)   : 500=15.99%, 750=46.84%, 1000=29.43%
  lat (usec)   : 2=5.14%, 4=0.78%, 10=0.07%, 20=0.04%, 50=0.12%
  lat (usec)   : 100=0.01%, 250=0.27%, 500=0.65%, 750=0.34%, 1000=0.17%
  lat (msec)   : 2=0.13%, 4=0.03%, 10=0.01%
  cpu          : usr=49.01%, sys=0.00%, ctx=242, majf=0, minf=15
  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=25600,0,0,0 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):
   READ: bw=394MiB/s (413MB/s), 394MiB/s-394MiB/s (413MB/s-413MB/s), io=100MiB (105MB), run=254-254mse

Disk stats (read/write):
  sda: ios=0/0, sectors=0/0, merge=0/0, ticks=0/0, in_queue=0, util=0.00%
```