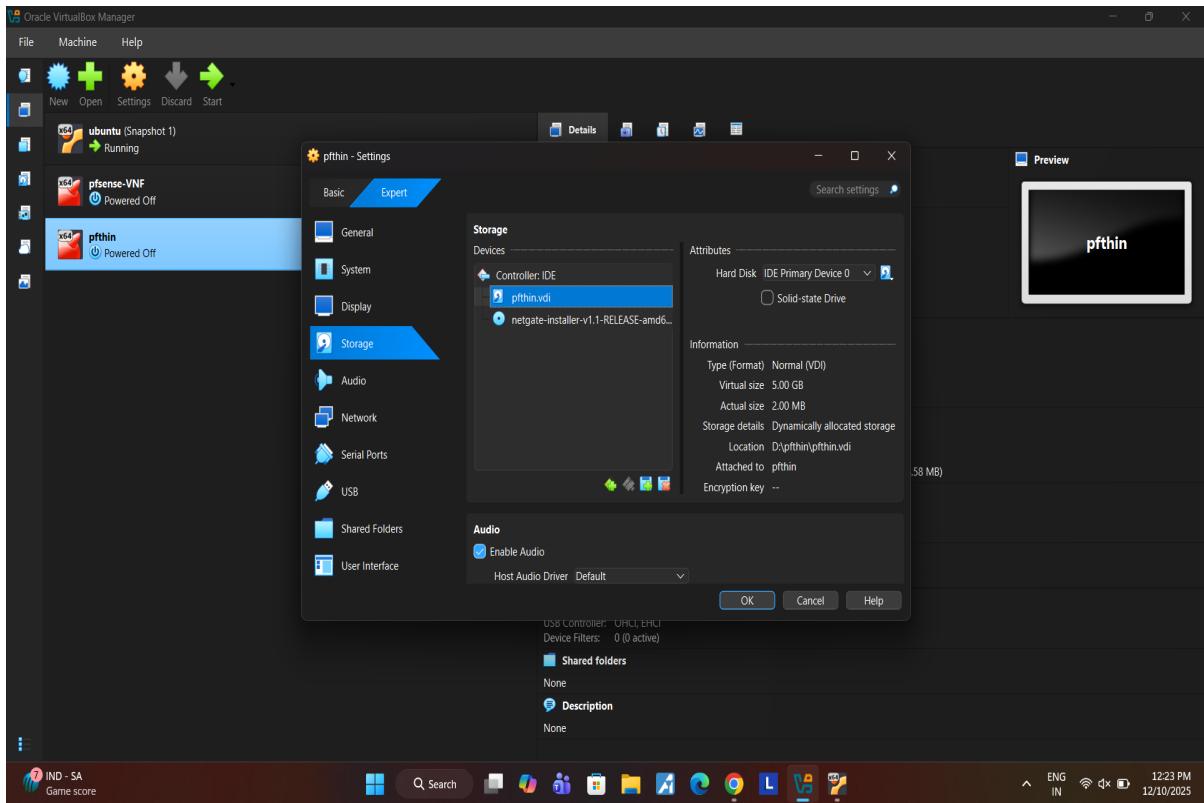
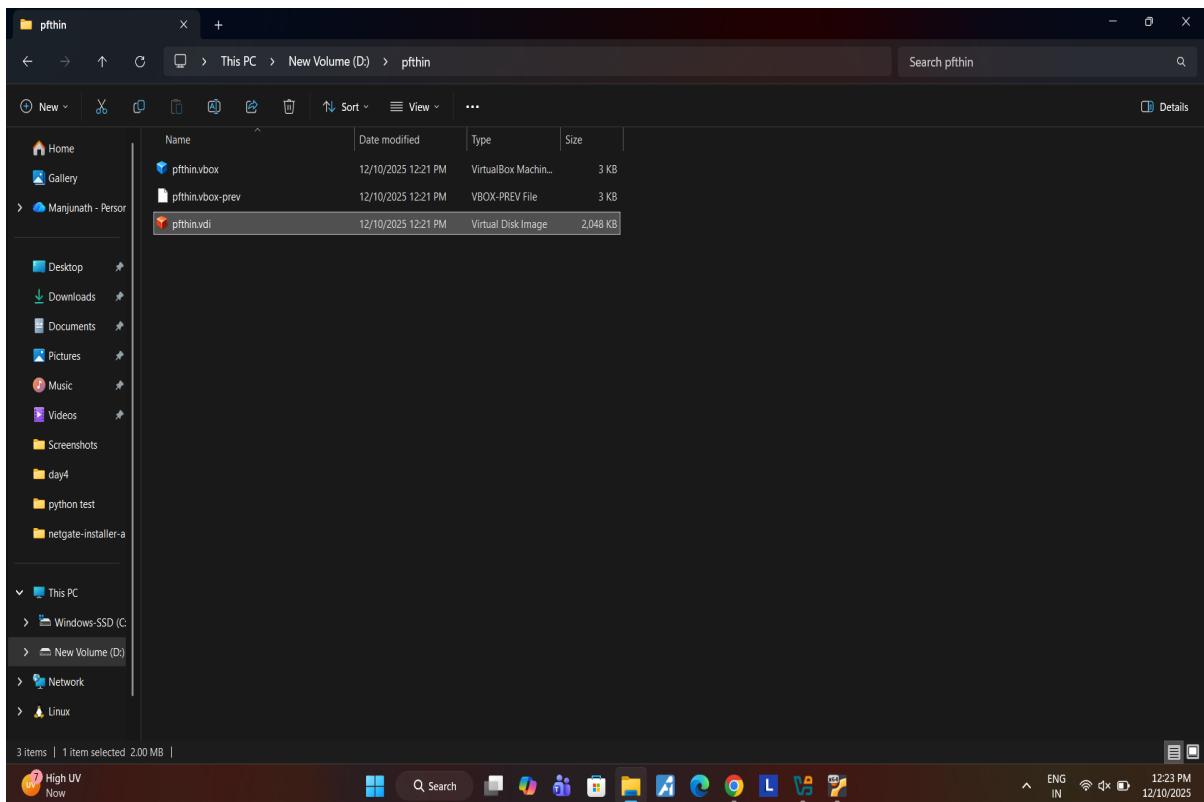


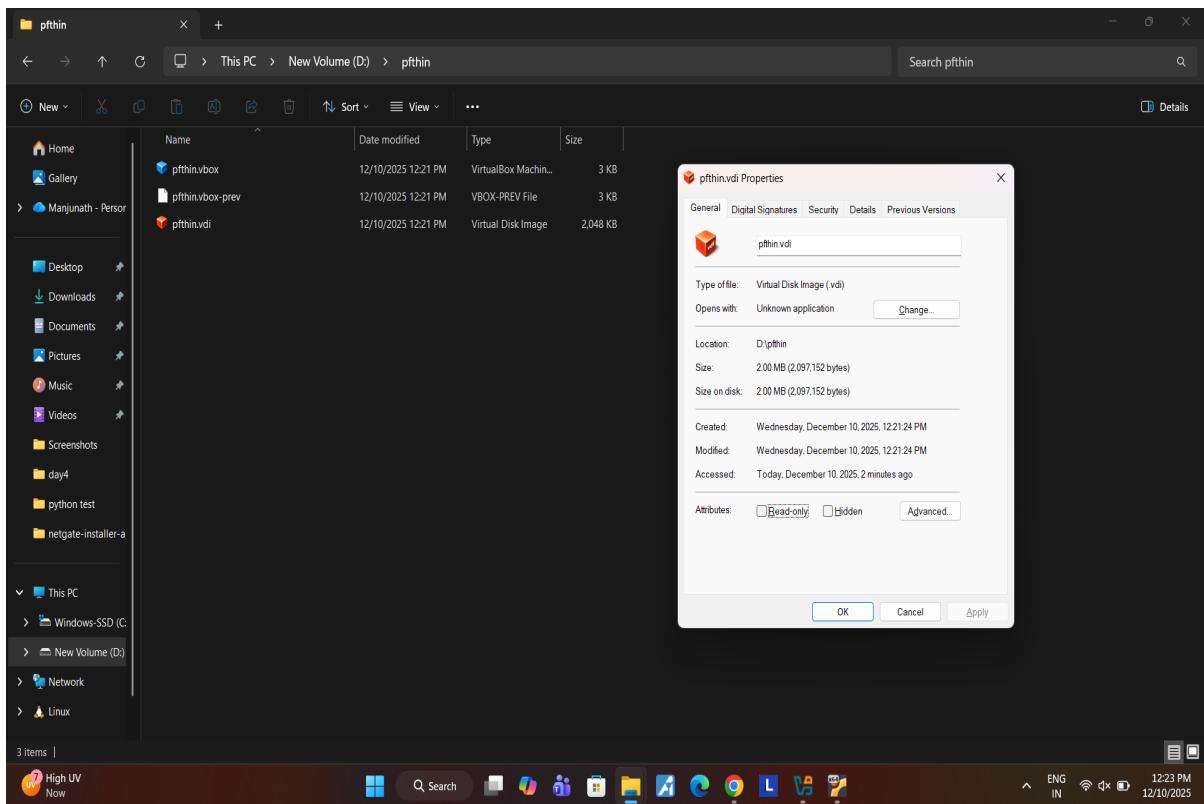
VirtualBox thick disk configuration screen.



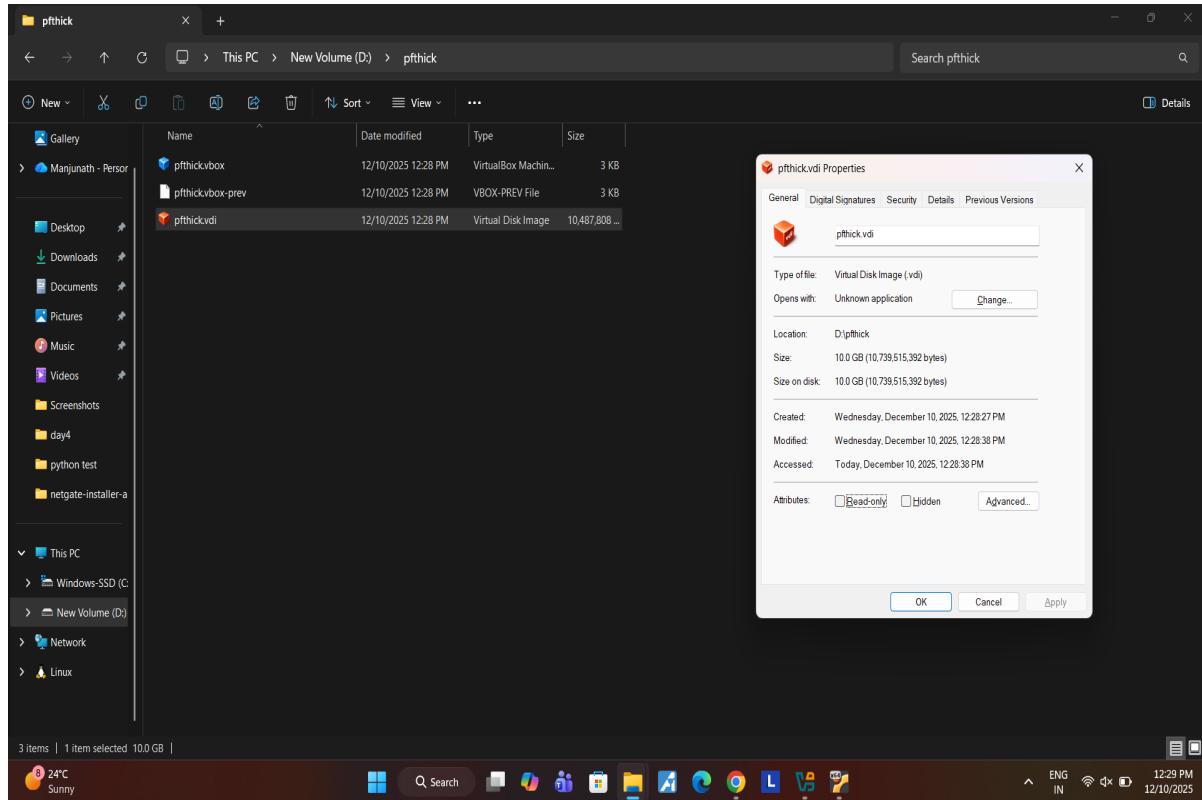
VirtualBox thin disk configuration screen.



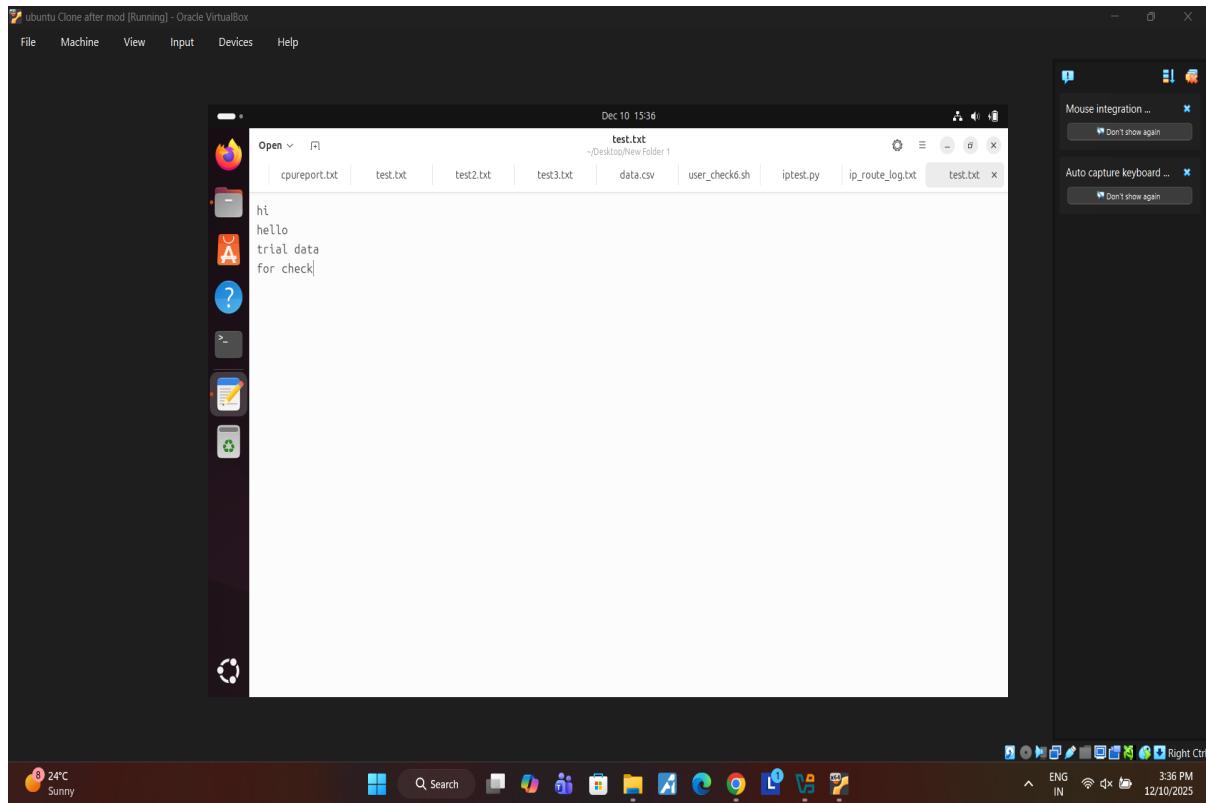
Thin disk actual size shown in file explorer.



Thin disk file properties window.



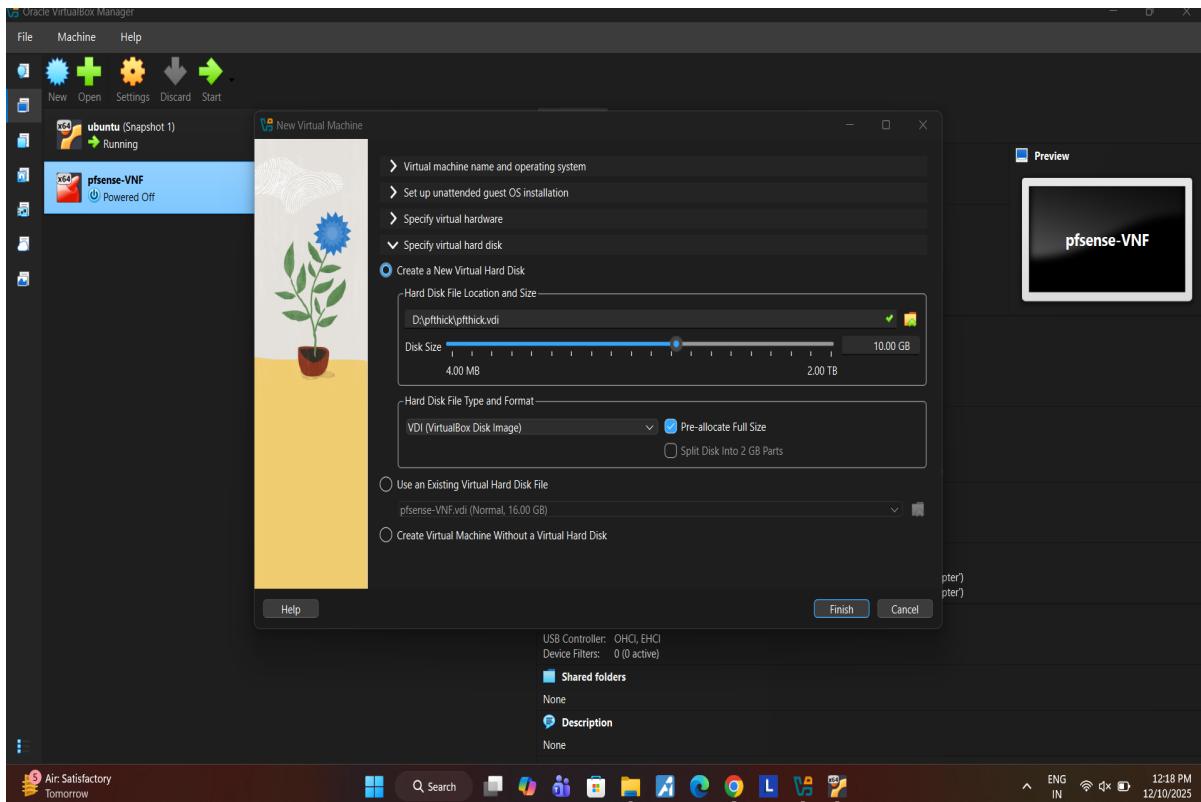
Thick disk file properties window.



Ubuntu VM – text editor showing test data.

A screenshot of a terminal window on an Ubuntu VM. The window title is 'vboxuser@Ubuntu:~'. The user has run the command 'dd if=/dev/zero of=test.img bs=1G count=1'. The output shows the progress of copying 1GB of data: '1+0 records in', '1+0 records out', and '1073741824 bytes (1.1 GB, 1.0 GiB) copied, 29.867 s, 36.0 MB/s'. The terminal prompt ends with a '\$' sign.

Ubuntu VM – dd command writing 1GB test image.



VirtualBox – disk creation window.

Ubuntu [Running] - Oracle VirtualBox

File Machine View Input Devices Help

Dec 10 14:07

vboxuser@Ubuntu:~

```
| 99.00th=[ 118], 99.50th=[ 241], 99.90th=[ 1418], 99.95th=[ 6521],  
| 99.99th=[32375]  
bw ( Kib/s): min= 7363, max=192134, per=97.00%, avg=92112.72, stdev=56597.50, samples=18  
iops : min= 1840, max=48833, avg=23027.83, stdev=14149.39, samples=18  
lat (usec) : 4=0.69%, 10=1.73%, 20=48.93%, 50=46.13%, 100=1.43%  
lat (usec) : 250=0.60%, 500=0.25%, 750=0.06%, 1000=0.03%  
lat (msec) : 2=0.05%, 4=0.02%, 16=0.03%, 20=0.02%, 50=0.01%  
lat (msec) : 100=0.01%, 250=0.01%, 1000=0.01%  
cpu : usr=4.11%, sys=60.04%, ctx=626, majf=0, minf=16  
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 rwt: total=0,262144,0 short=0,0,0 dropped=0,0,0  
latency : target=0, window=0, percentile=100.00%, depth=1
```

Run status group 0 (all jobs):
WRITE: bw=92.7MiB/s (97.2MiB/s), 92.7MiB/s-92.7MiB/s (97.2MB/s-97.2MB/s), io=1024MiB (1074MB), run=11051-11051 msec

Disk stats (read/write):
sda: ios=131/707, sectors=1824/1005096, merge=0/306, ticks=500/137652, in_queue=140247, util=82.76%

```
vboxuser@Ubuntu:~$ df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
tmpfs	392M	1.5M	391M	1%	/run
/dev/sda2	20G	14G	4.9G	74%	/
tmpfs	2.0G	0	2.0G	0%	/dev/shm
tmpfs	5.0M	8.0K	5.0M	1%	/run/lock
tmpfs	392M	178K	392M	1%	/run/user/1000
/dev/sr0	51M	51M	0	100%	/media/vboxuser/VBox_GAs_7.2.4

```
vboxuser@Ubuntu:~$ rm write.0.0
vboxuser@Ubuntu:~$ df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
tmpfs	392M	1.5M	391M	1%	/run
/dev/sda2	20G	13G	5.9G	69%	/
tmpfs	2.0G	0	2.0G	0%	/dev/shm
tmpfs	5.0M	8.0K	5.0M	1%	/run/lock
tmpfs	392M	128K	392M	1%	/run/user/1000
/dev/sr0	51M	51M	0	100%	/media/vboxuser/VBox_GAs_7.2.4

```
vboxuser@Ubuntu:~$
```

6 25°C
Sunny

Search

ENG IN

1407 10-12-2025

Ubuntu VM – disk I/O benchmark output.