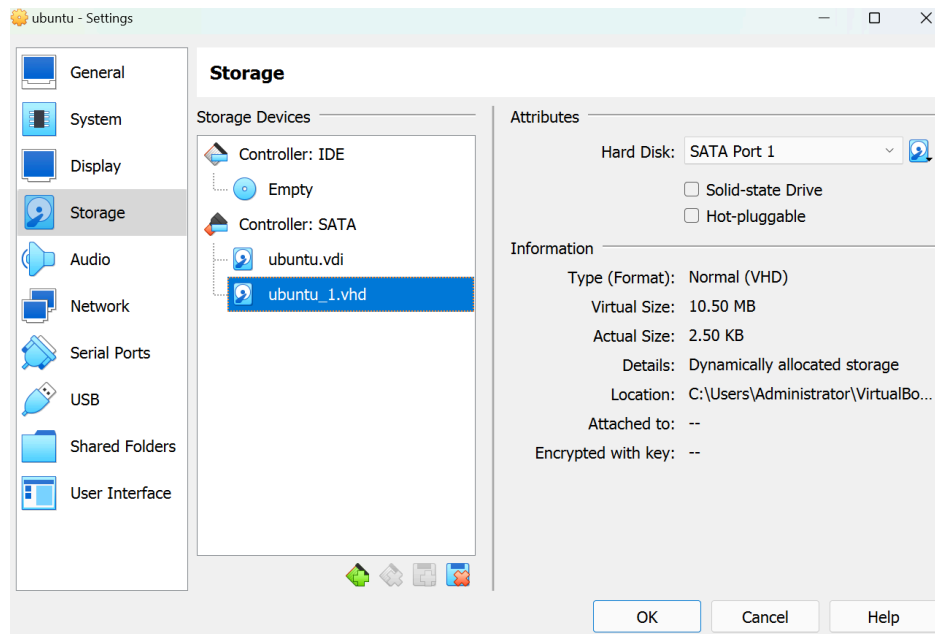


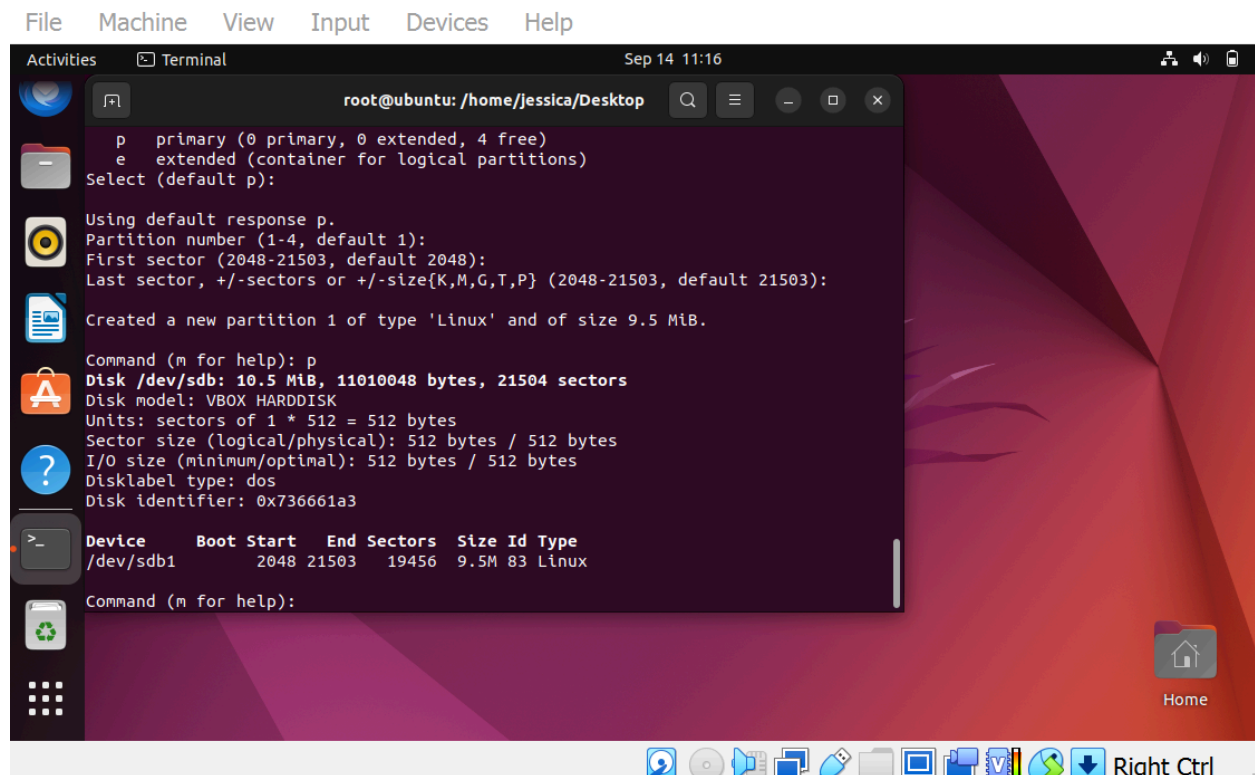
Task 1: Prepare Target Drive in Linux

Step 1: Create VHD

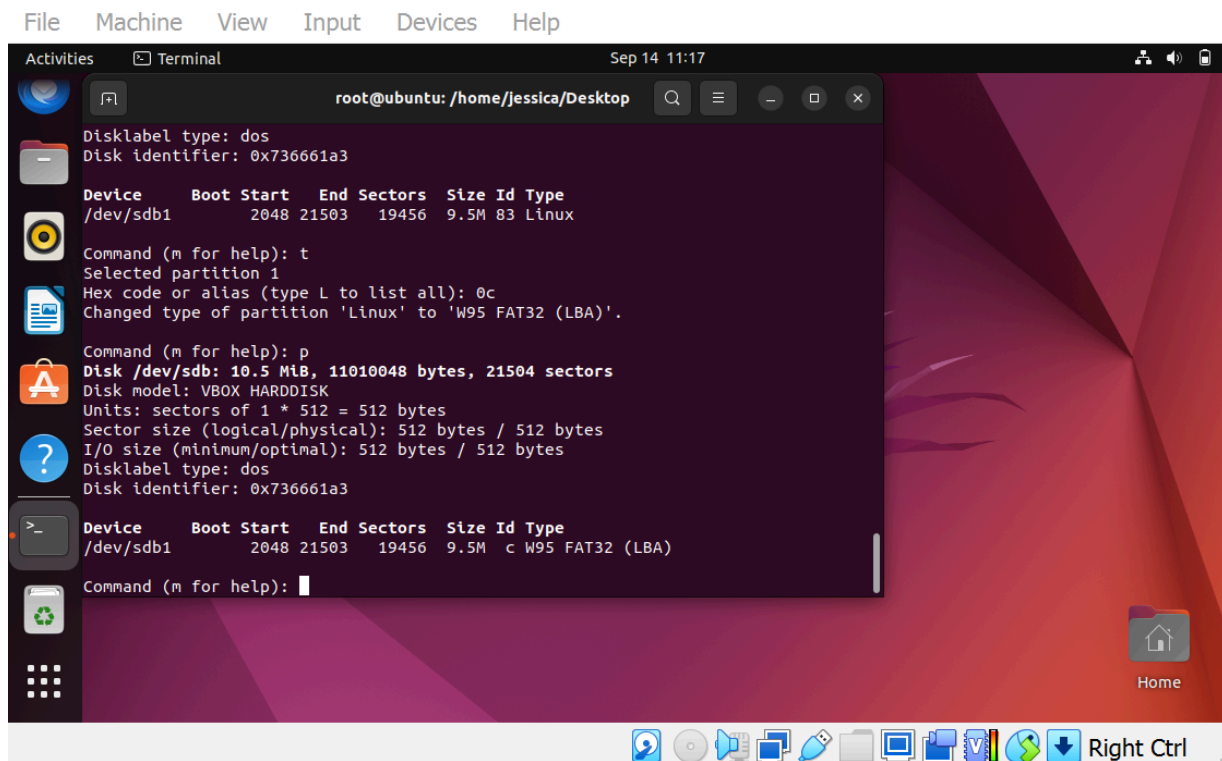


In this step, I successfully create a new VHD in my ubuntu virtual machine settings.

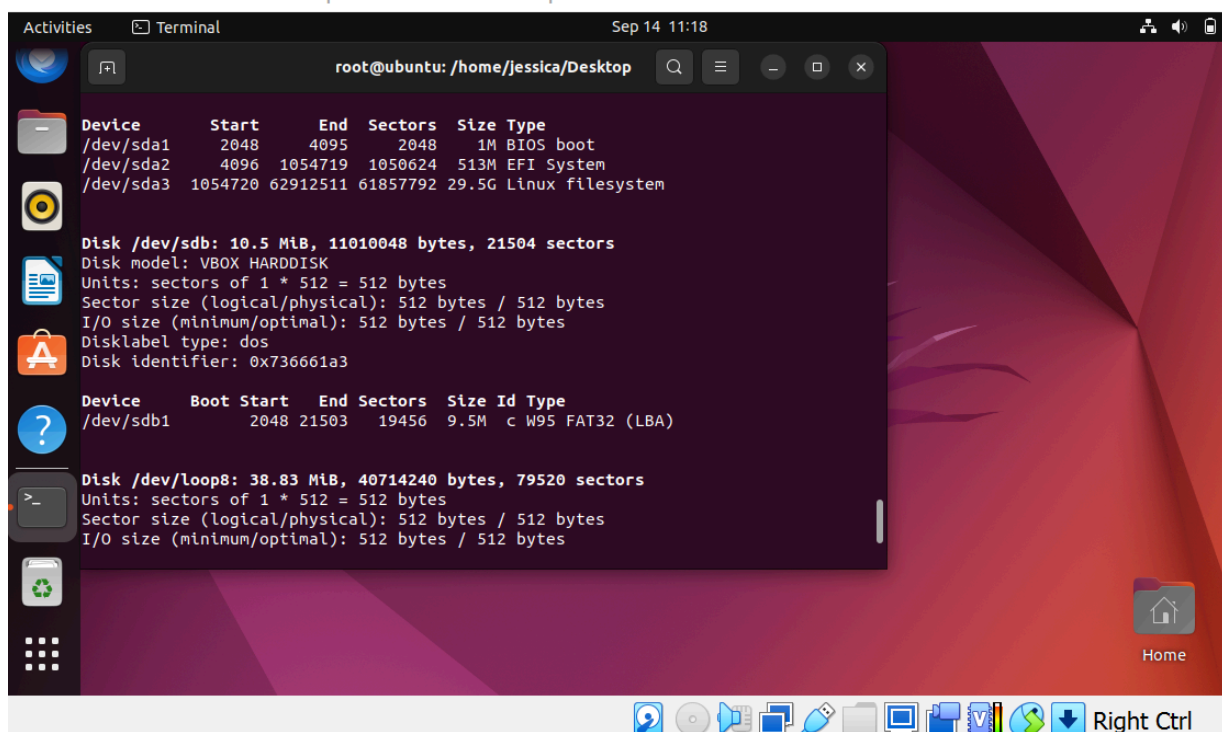
Step 2: Prepare the Drive



Here, I've create the primary partition in the VHD and verified that it worked.



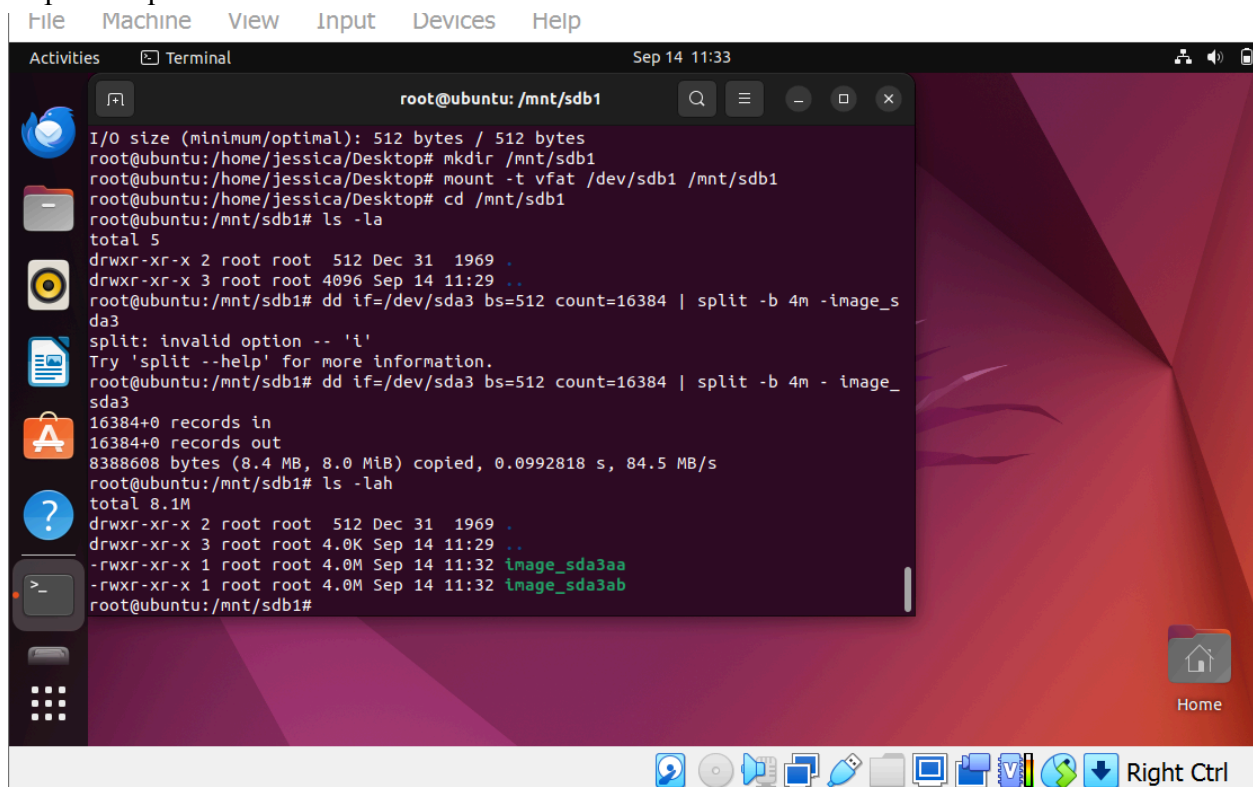
In this screenshot, I've changed the target drive's partition to the Windows 95 FAT32 file system and verified the changes using the command "p".



Finally, I successfully prepared the VHD for mounting and data acquisition.

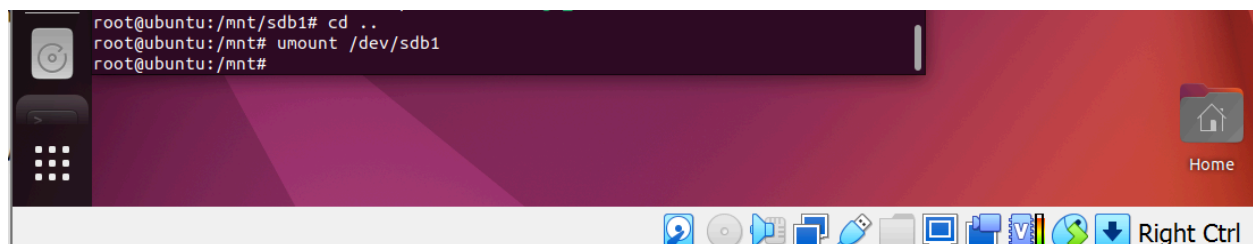
Task 2: Acquiring Data with DD

Step 1: Acquire Data



```
File Machine View Input Devices Help
Activities Terminal Sep 14 11:33
root@ubuntu: /mnt/sdb1
I/O size (minimum/optimal): 512 bytes / 512 bytes
root@ubuntu:/home/jessica/Desktop# mkdir /mnt/sdb1
root@ubuntu:/home/jessica/Desktop# mount -t vfat /dev/sdb1 /mnt/sdb1
root@ubuntu:/home/jessica/Desktop# cd /mnt/sdb1
root@ubuntu:/mnt/sdb1# ls -la
total 5
drwxr-xr-x 2 root root 512 Dec 31 1969 .
drwxr-xr-x 3 root root 4096 Sep 14 11:29 ..
root@ubuntu:/mnt/sdb1# dd if=/dev/sda3 bs=512 count=16384 | split -b 4m -image_s
da3
split: invalid option -- 'i'
Try 'split --help' for more information.
root@ubuntu:/mnt/sdb1# dd if=/dev/sda3 bs=512 count=16384 | split -b 4m - image_
sda3
16384+0 records in
16384+0 records out
8388608 bytes (8.4 MB, 8.0 MiB) copied, 0.0992818 s, 84.5 MB/s
root@ubuntu:/mnt/sdb1# ls -lah
total 8.1M
drwxr-xr-x 2 root root 512 Dec 31 1969 .
drwxr-xr-x 3 root root 4.0K Sep 14 11:29 ..
-rwxr-xr-x 1 root root 4.0M Sep 14 11:32 image_sda3aa
-rwxr-xr-x 1 root root 4.0M Sep 14 11:32 image_sda3ab
root@ubuntu:/mnt/sdb1#
```

Here, I've mounted the external drive and used “dd” to make a forensic copy of the target data into the VHD. I then verified its completion and success.

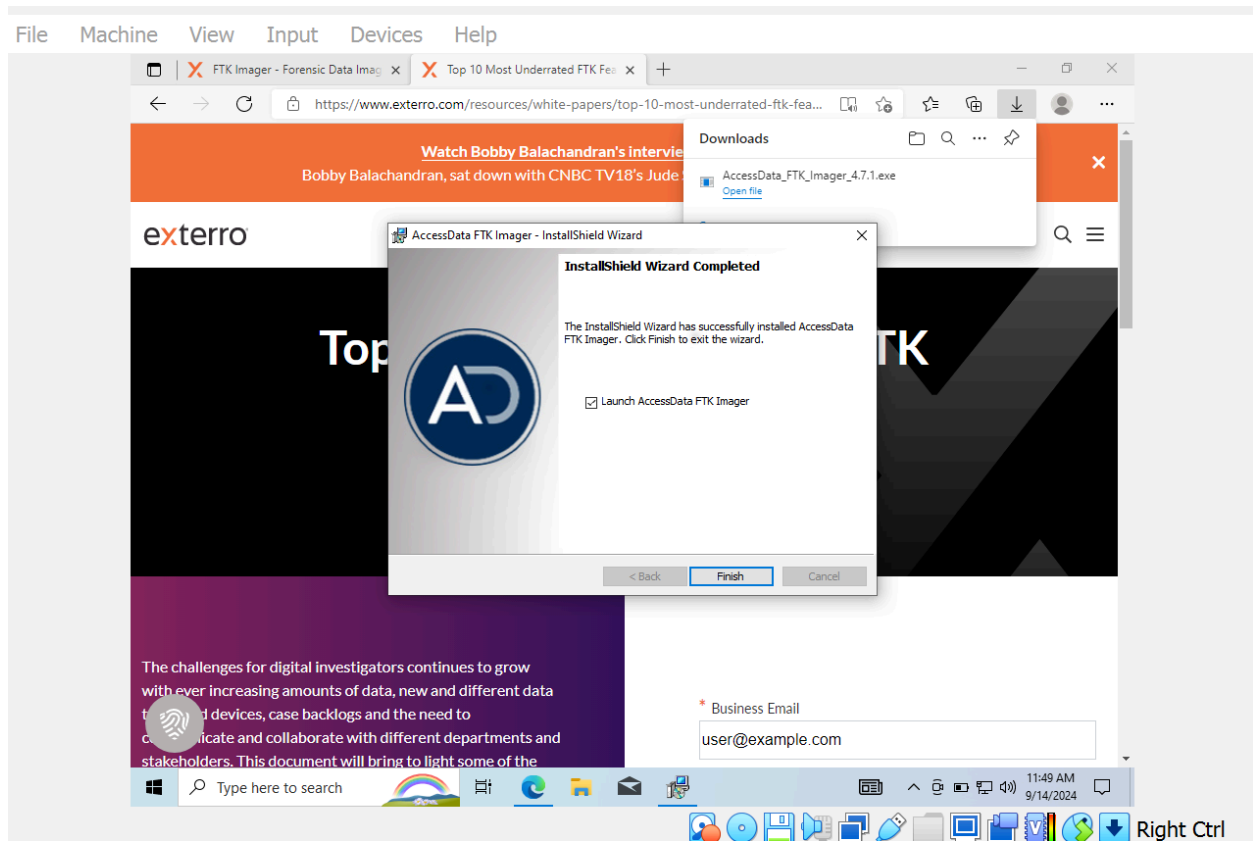


```
root@ubuntu:/mnt/sdb1# cd ..
root@ubuntu:/mnt# umount /dev/sdb1
root@ubuntu:/mnt#
```

Finally, I unmounted the external drive.

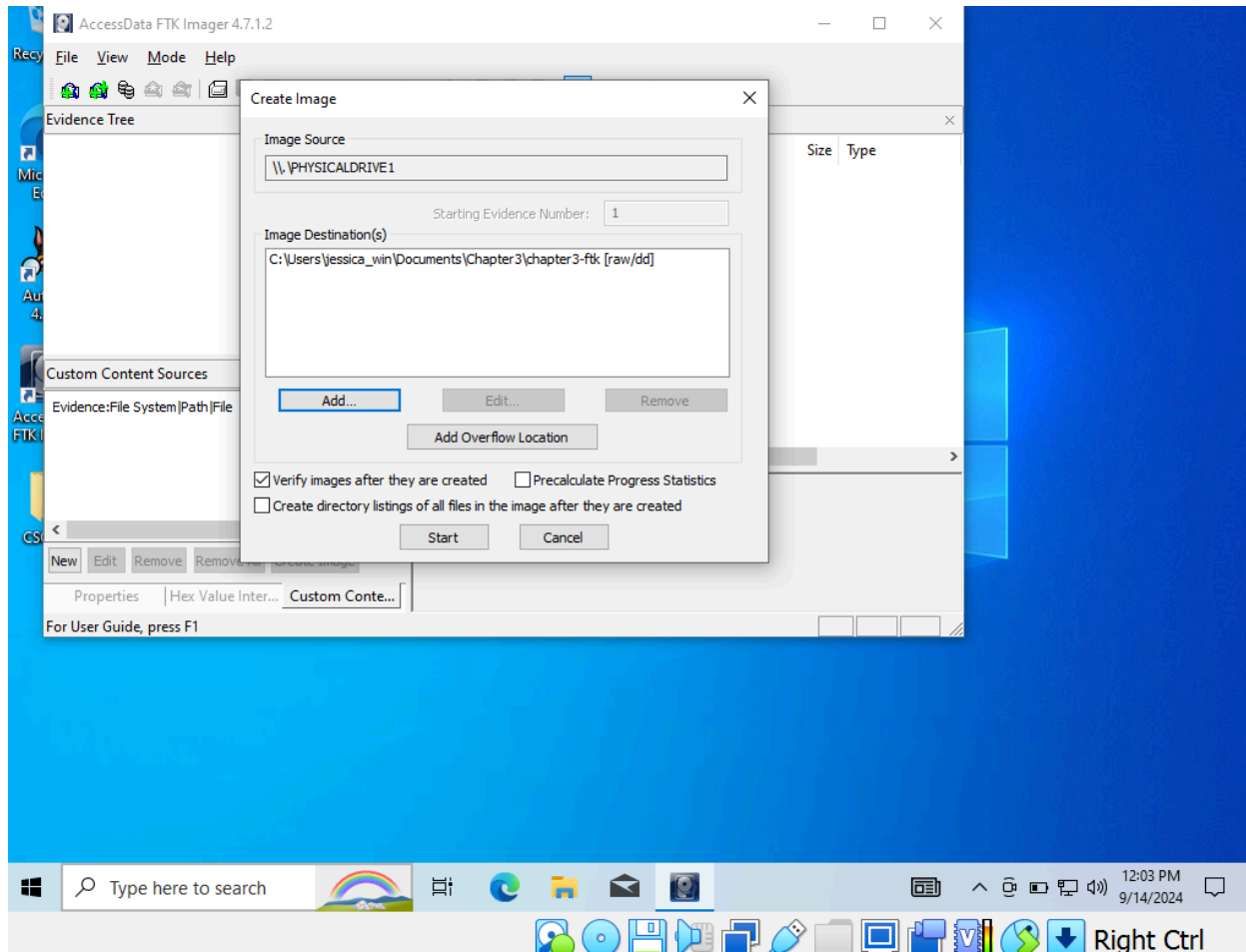
Task 3: FTK Imager

Step 1: Install FTK

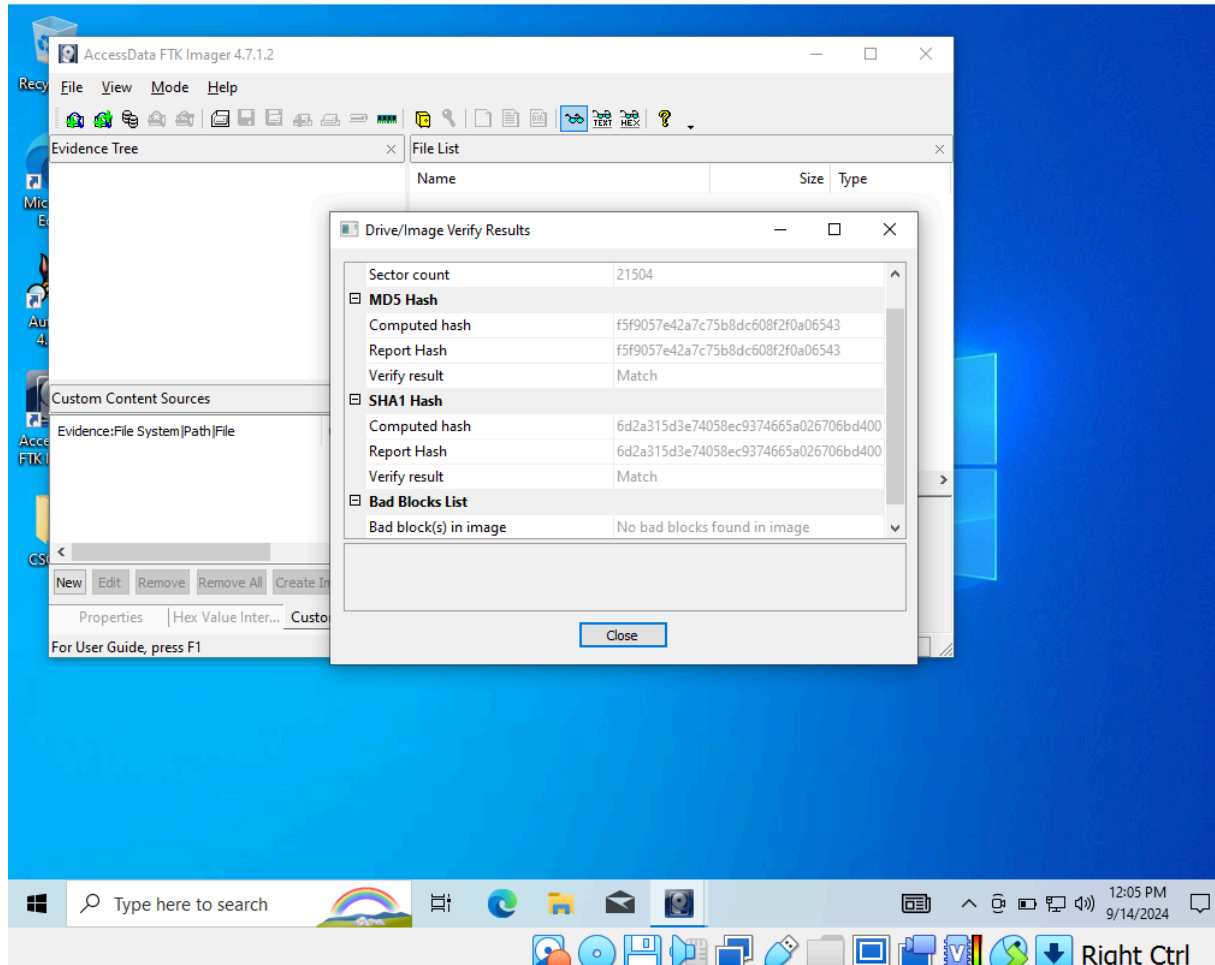


Successful installation of FTK Imager.

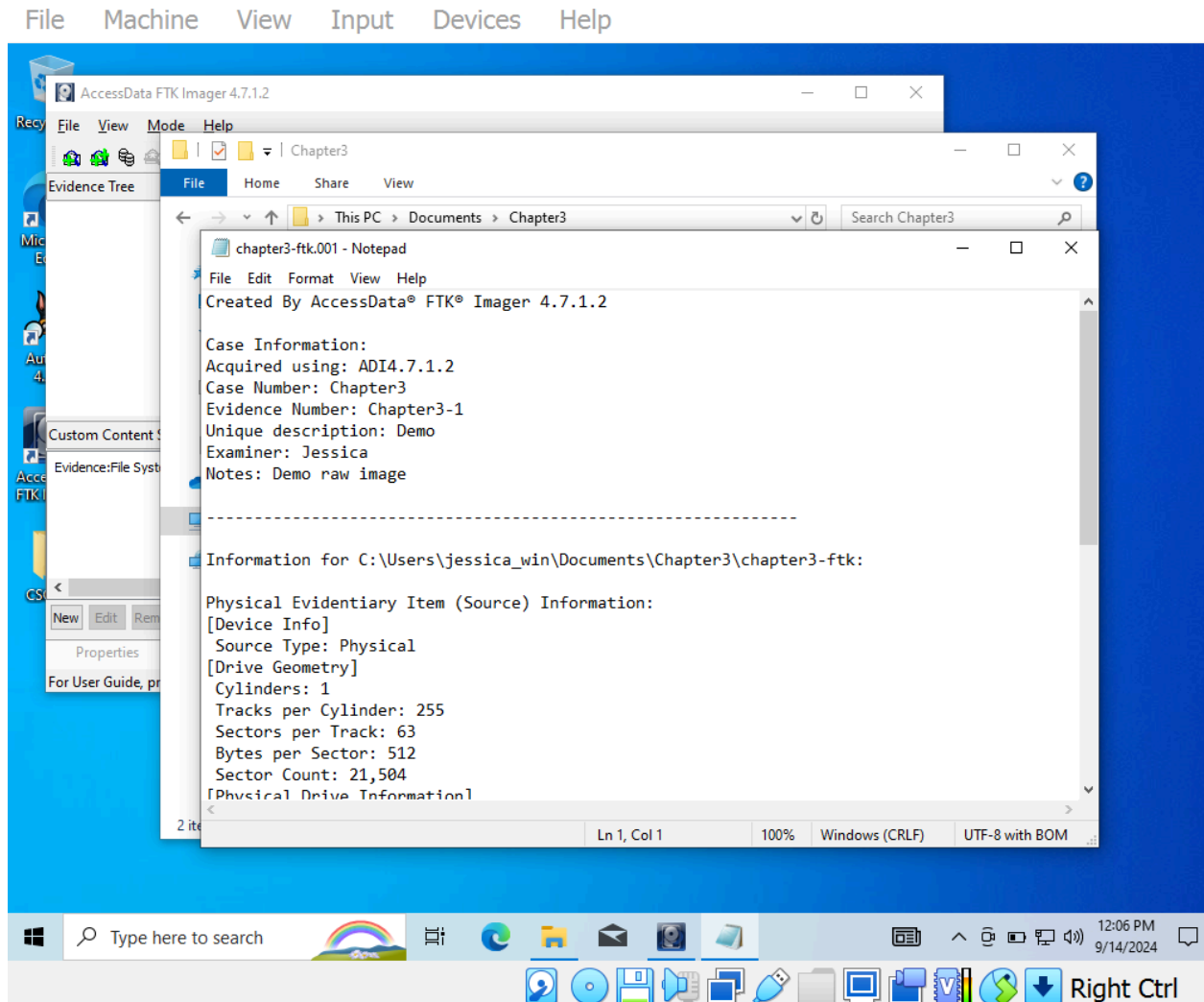
Step 2: Create Image



Here, I followed the given instructions to create a disk image.



After creating the image, I checked to make sure the hashes were the same and that no errors occurred.



Here, this is the file that appeared in my Chapter 3 folder after creating the image of the disk.