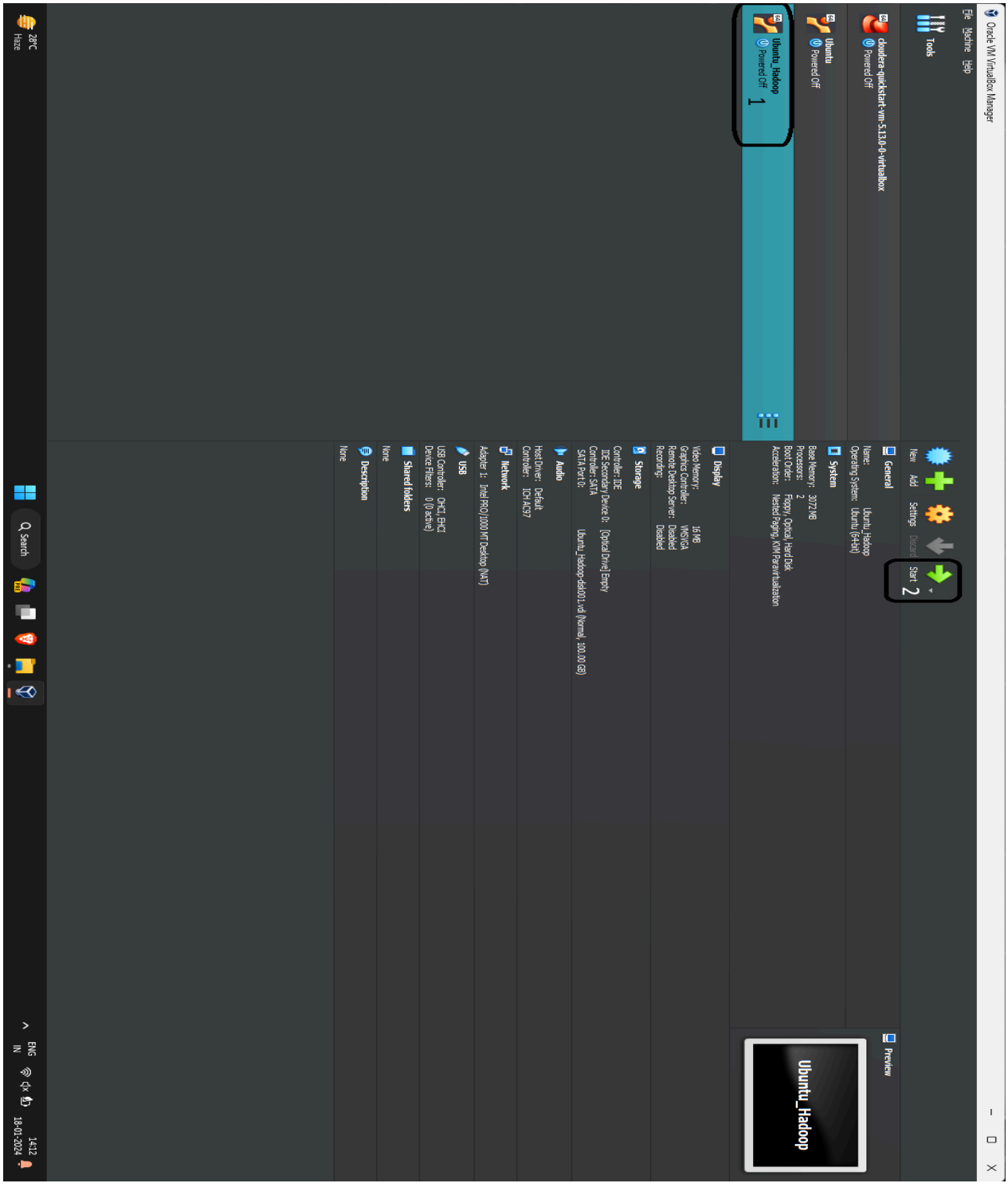
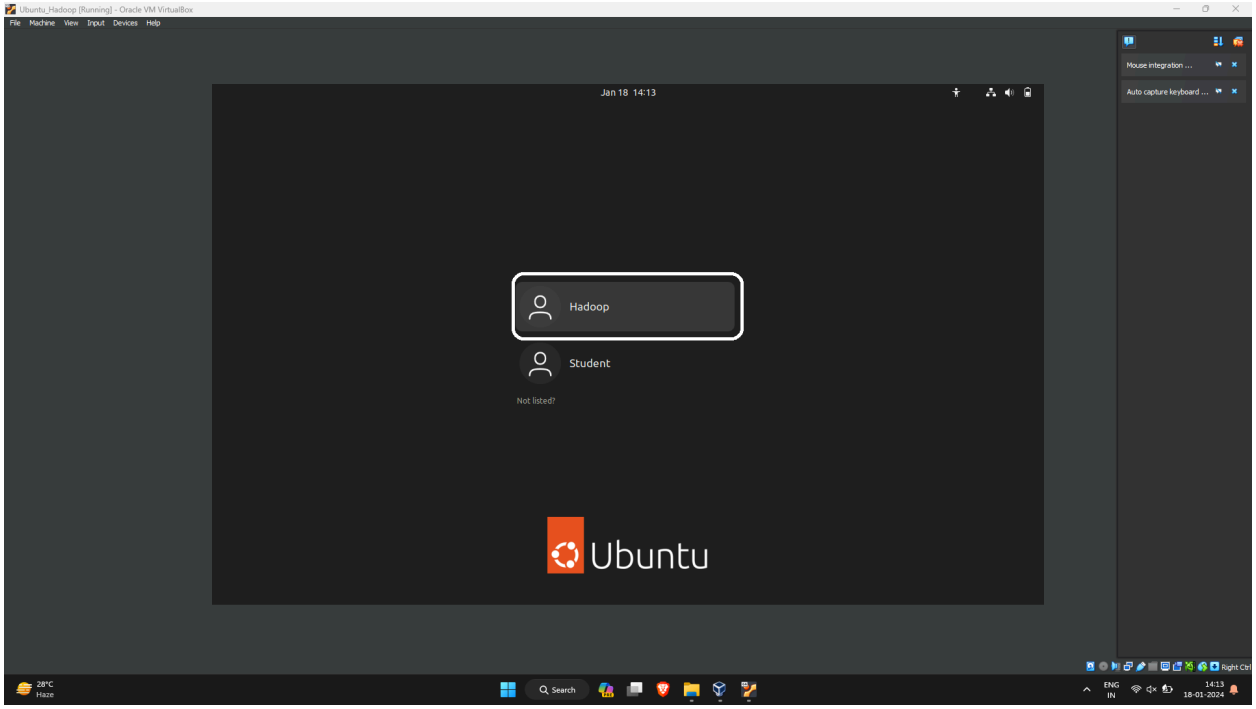
Follow the step to perform hadoop in ubuntu

1. Open the **oracle VM VirtualBox**

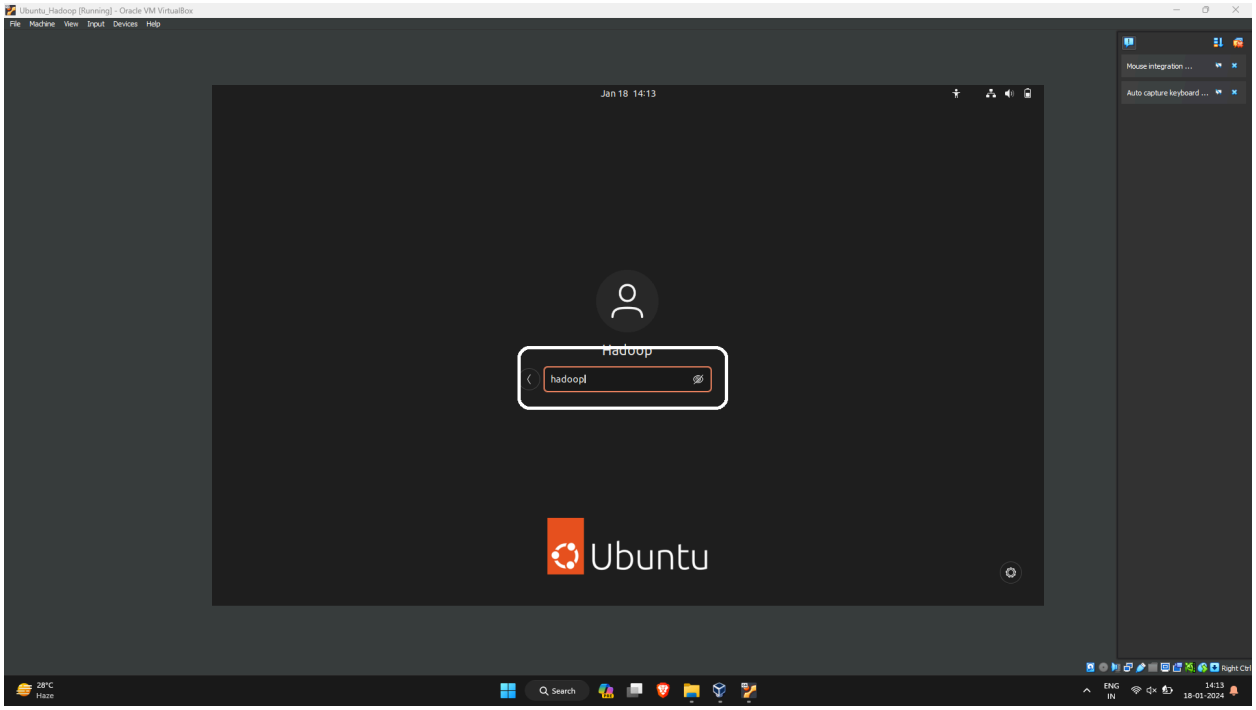
2. When **oracle VM Virtual Box** is opened the
    1. Click on **“Ubuntu_Hadoop”**
    2. Click on **“Arrow -> ” button”**



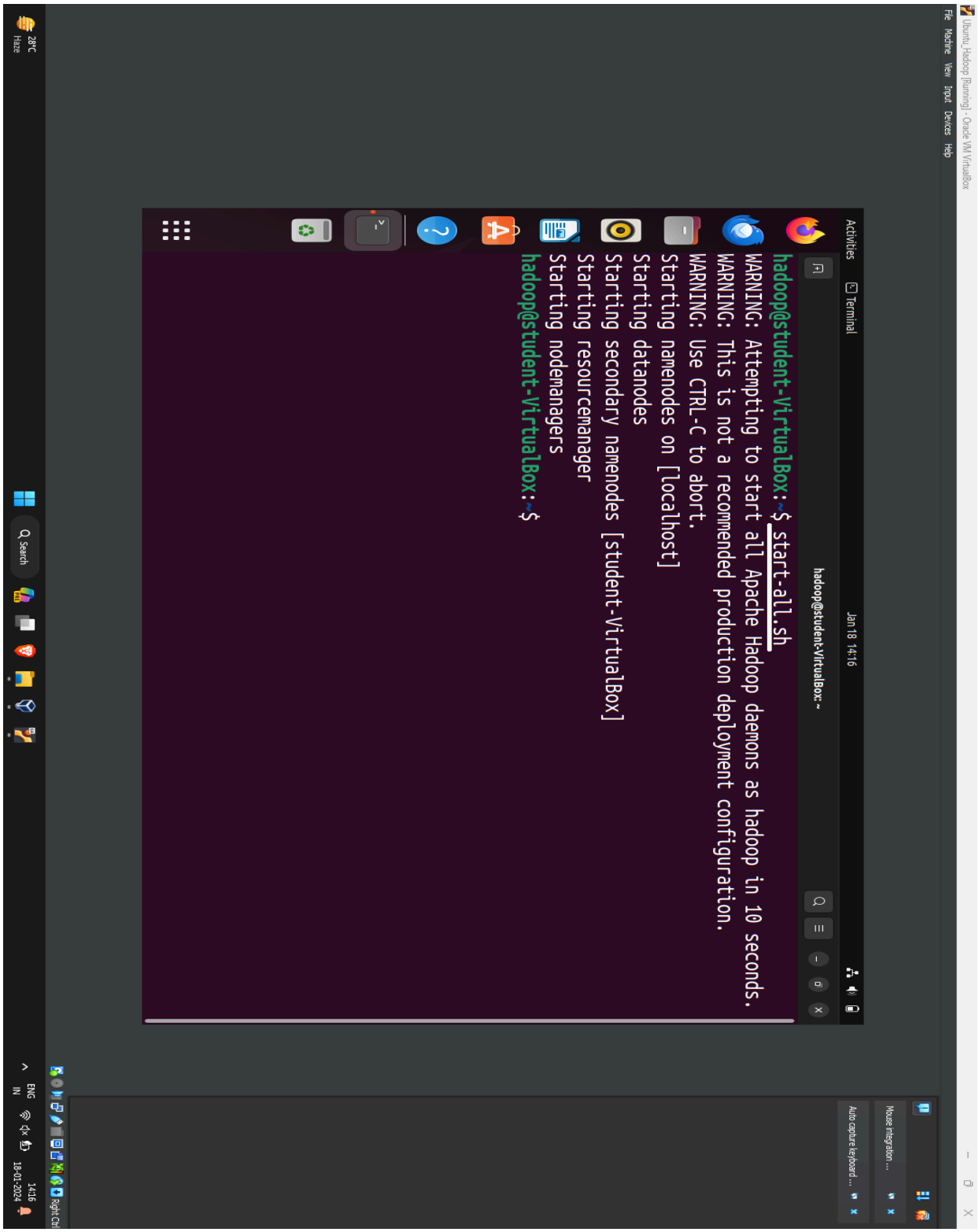
3. After opening the Ubuntu then Click on **“hadoop”** account



4. Select hadoop account and password is **“hadoop”**

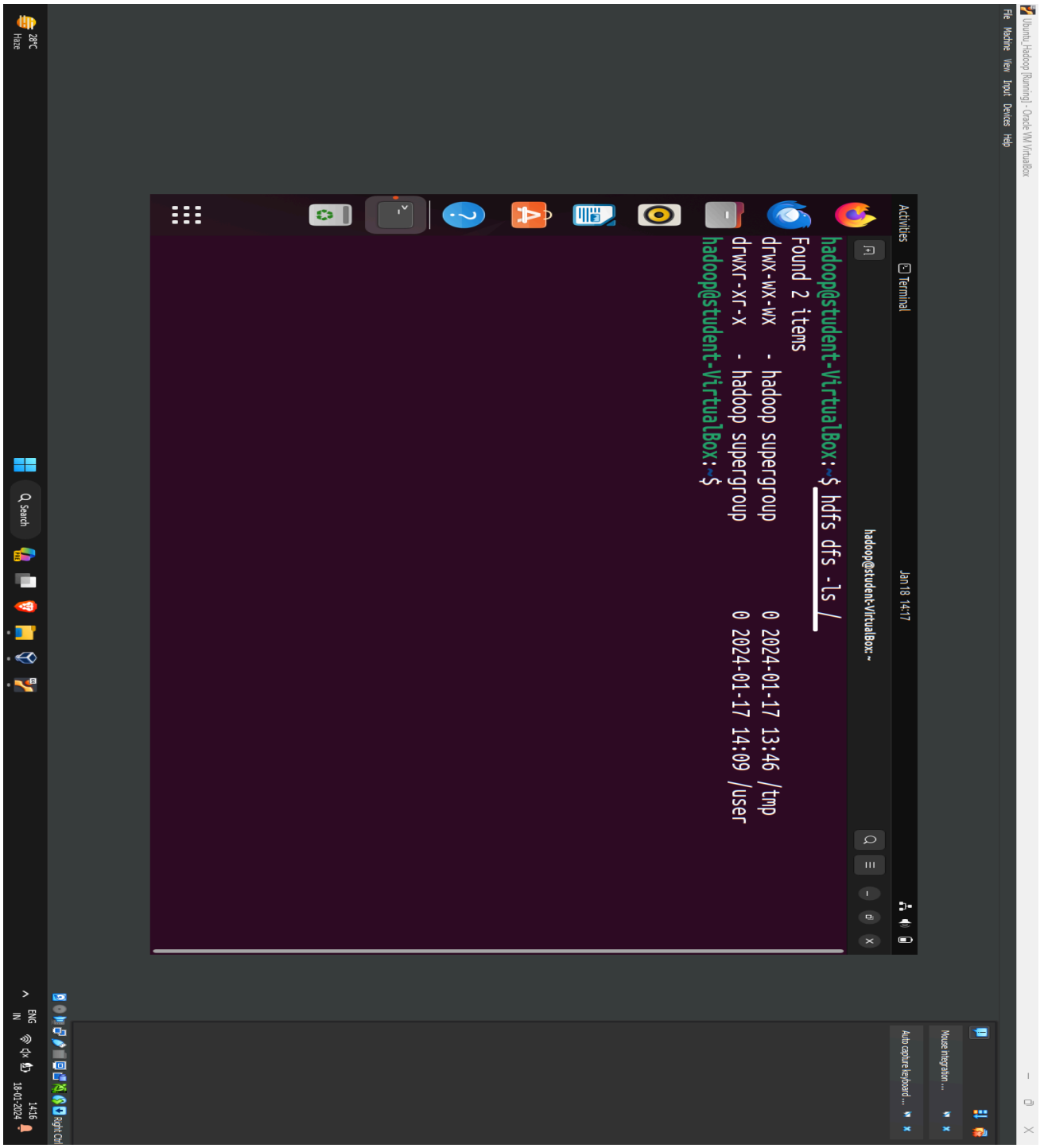


5. Open **Terminal** and type **start-all.sh** to start all the hadoop related services



6. To see what files are present in the hadoop type this command

hadoop@student-VirtualBox $ hdfs dfs -ls /

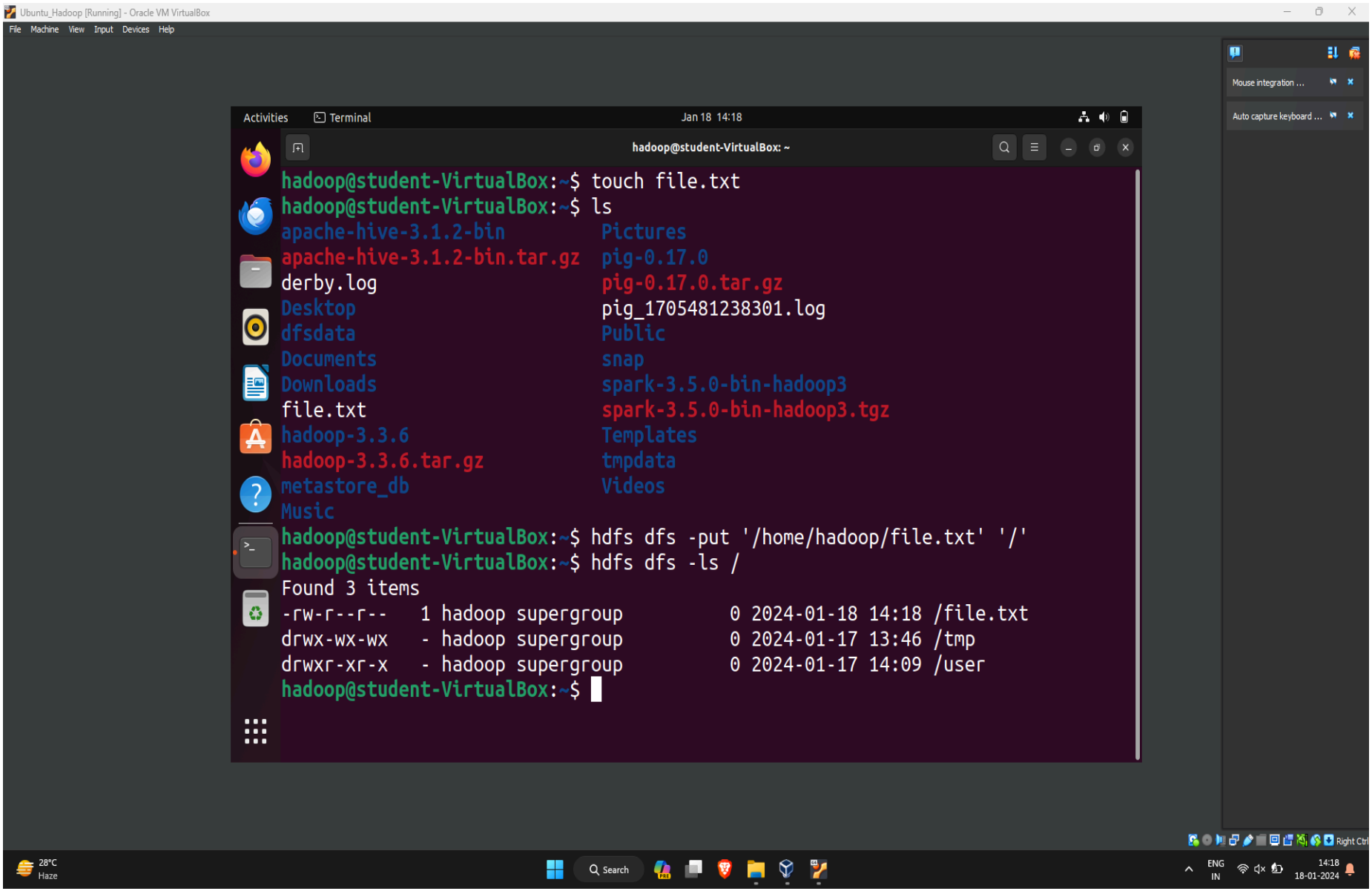


7. **Task :** Create file on local and upload to hadoop file system
    1. Creating file on local ubuntu machine for command is
       hadoop@student-VirtualBox $ touch file.txt

    2. Check file is created locally or not for command is
       hadoop@student-VirtualBox $ ls

    3. Upload file to hadoop file system from local ubuntu machine for command is
       hadoop@student-VirtualBox $ hdfs dfs -put ‘/home/hadoop/file.txt’ ‘/’

    4. Check file is uploaded to hadoop file system or not for command is
       hadoop@student-VirtualBox $ hdfs dfs -ls /


Ubuntu_Hadoop [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Terminal
Jan 18 14:18
hadoop@student-VirtualBox: ~
hadoop@student-VirtualBox:~$ touch file.txt
hadoop@student-VirtualBox:~$ ls
apache-hive-3.1.2-bin
apache-hive-3.1.2-bin.tar.gz
derby.log
Desktop
dfsdata
Documents
Downloads
file.txt
hadoop-3.3.6
hadoop-3.3.6.tar.gz
metastore_db
Music
Pictures
pig-0.17.0
pig-0.17.0.tar.gz
pig_1705481238301.log
Public
snap
spark-3.5.0-bin-hadoop3
spark-3.5.0-bin-hadoop3.tgz
Templates
tmpdata
Videos
hadoop@student-VirtualBox:~$ hdfs dfs -put '/home/hadoop/file.txt' '/'
hadoop@student-VirtualBox:~$ hdfs dfs -ls /
Found 3 items
-rw-r--r-- 1 hadoop supergroup 0 2024-01-18 14:18 /file.txt
drwx-wx-wx - hadoop supergroup 0 2024-01-17 13:46 /tmp
drwxr-xr-x - hadoop supergroup 0 2024-01-17 14:09 /user
hadoop@student-VirtualBox:~$
Mouse integration ...
Auto capture keyboard ...
28°C
Haze
Search
ENG
IN
14:18
18-01-2024
Right Ctrl

8.**Task :** Create file on hadoop file system and upload to local

1. Creating file on hadoop file system machine for command is

hadoop@student-VirtualBox $ hdfs dfs -touchz /file1.txt

2.Check file is created on hadoop file system or not for command is

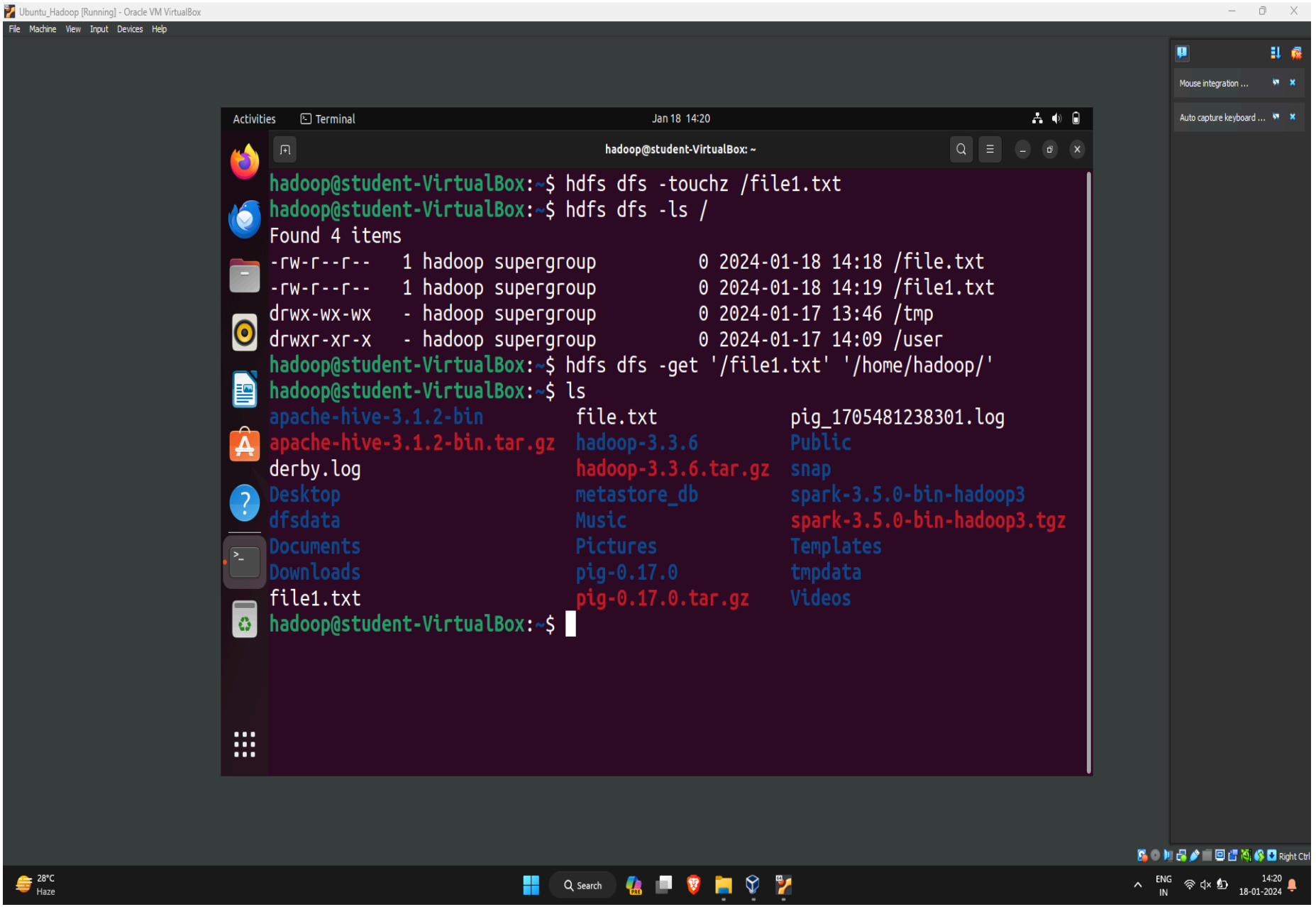
hadoop@student-VirtualBox $ hdfs dfs -ls /

3.Upload file local ubuntu machine to from hadoop file system for command is

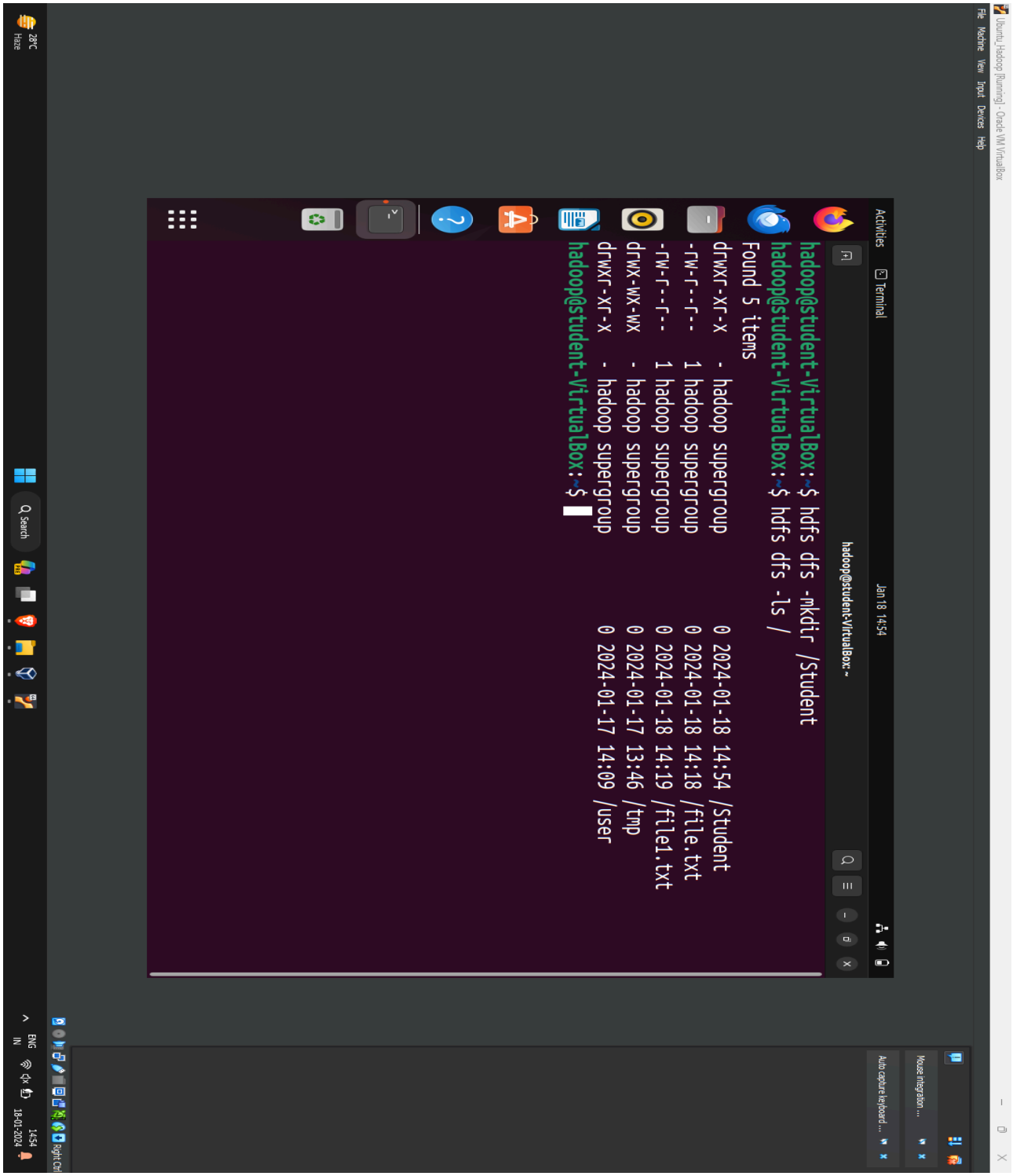
hadoop@student-VirtualBox $ hdfs dfs -get ‘/file1.txt’ ‘/home/hadoop/’

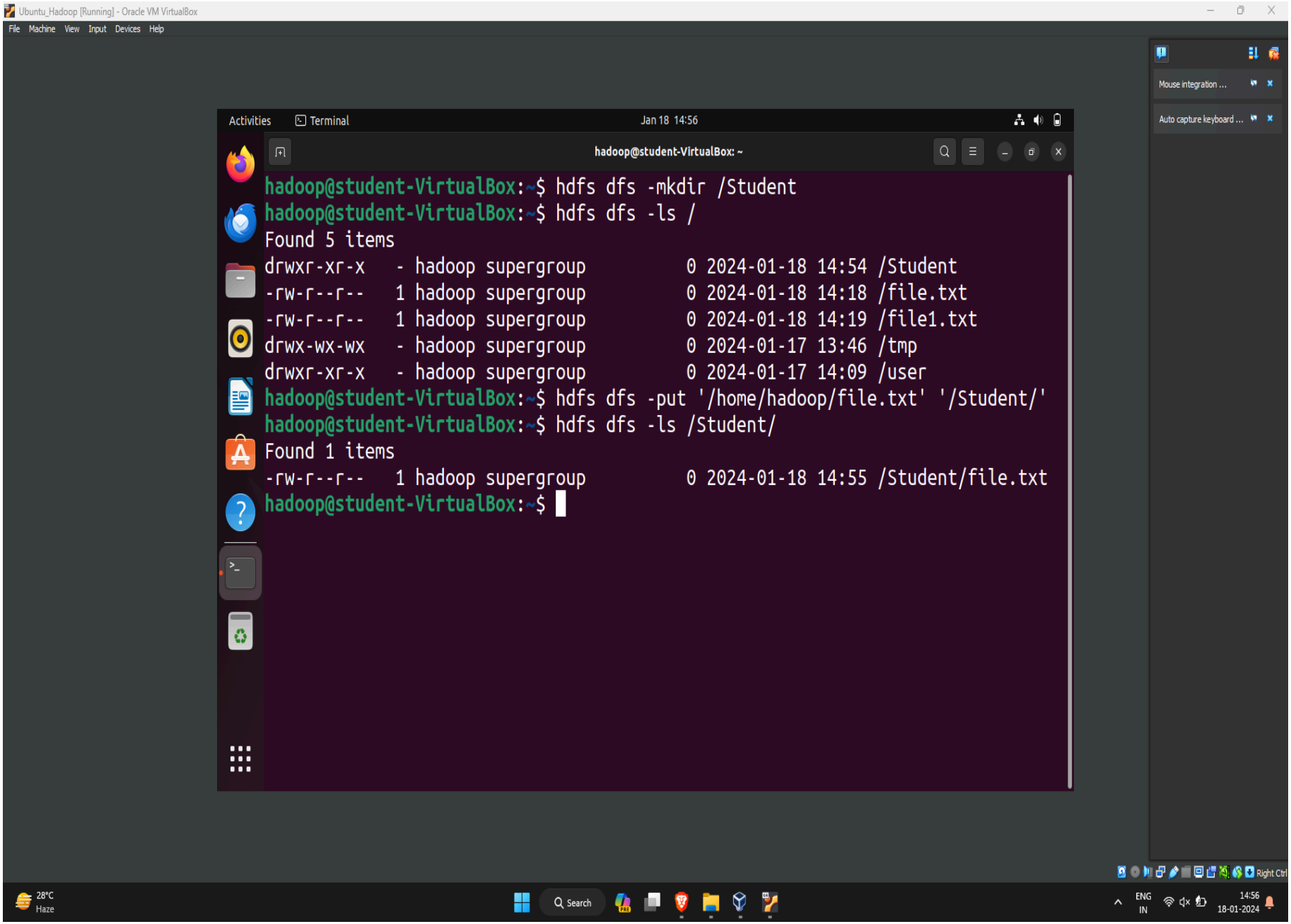
4.Check file is uploaded to local ubuntu machine or not for command is

hadoop@student-VirtualBox $ ls


Ubuntu_Hadoop [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Terminal
Jan 18 14:20
hadoop@student-VirtualBox: ~
hadoop@student-VirtualBox:~$ hdfs dfs -touchz /file1.txt
hadoop@student-VirtualBox:~$ hdfs dfs -ls /
Found 4 items
-rw-r--r--   1 hadoop supergroup   0 2024-01-18 14:18 /file.txt
-rw-r--r--   1 hadoop supergroup   0 2024-01-18 14:19 /file1.txt
drwx-wx-wx   - hadoop supergroup   0 2024-01-17 13:46 /tmp
drwxr-xr-x   - hadoop supergroup   0 2024-01-17 14:09 /user
hadoop@student-VirtualBox:~$ hdfs dfs -get '/file1.txt' '/home/hadoop/'
hadoop@student-VirtualBox:~$ ls
apache-hive-3.1.2-bin
apache-hive-3.1.2-bin.tar.gz
derby.log
Desktop
dfsdata
Documents
Downloads
file1.txt
file.txt
hadoop-3.3.6
hadoop-3.3.6.tar.gz
metastore_db
Music
pig-0.17.0
pig-0.17.0.tar.gz
pig_1705481238301.log
Public
snap
spark-3.5.0-bin-hadoop3
spark-3.5.0-bin-hadoop3.tgz
Templates
tmpdata
Videos
hadoop@student-VirtualBox:~$
Mouse integration ...
Auto capture keyboard ...
Right Ctrl
28°C
Haze
Search
ENG
IN
14:20
18-01-2024

9. Creating Directory on the hadoop file system named as **Student** and uploading **file.txt** from local ubuntu machine to Student folder which is created in hadoop file system.




Ubuntu_Hadoop [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Terminal
Jan 18 14:56
hadoop@student-VirtualBox: ~
hadoop@student-VirtualBox:~$ hdfs dfs -mkdir /Student
hadoop@student-VirtualBox:~$ hdfs dfs -ls /
Found 5 items
drwxr-xr-x - hadoop supergroup 0 2024-01-18 14:54 /Student
-rw-r--r-- 1 hadoop supergroup 0 2024-01-18 14:18 /file.txt
-rw-r--r-- 1 hadoop supergroup 0 2024-01-18 14:19 /file1.txt
drwx-wx-wx - hadoop supergroup 0 2024-01-17 13:46 /tmp
drwxr-xr-x - hadoop supergroup 0 2024-01-17 14:09 /user
hadoop@student-VirtualBox:~$ hdfs dfs -put '/home/hadoop/file.txt' '/Student/'
hadoop@student-VirtualBox:~$ hdfs dfs -ls /Student/
Found 1 items
-rw-r--r-- 1 hadoop supergroup 0 2024-01-18 14:55 /Student/file.txt
hadoop@student-VirtualBox:~$
Mouse integration ...
Auto capture keyboard ...
Right Ctrl
28°C
Haze
Search
ENG
IN
14:56
18-01-2024