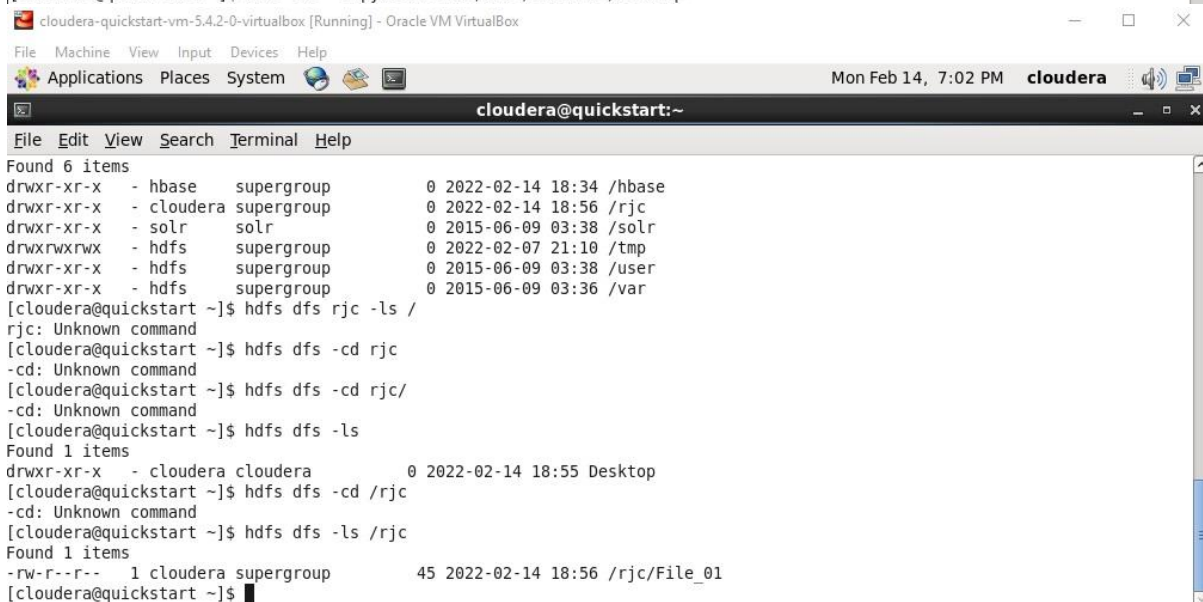
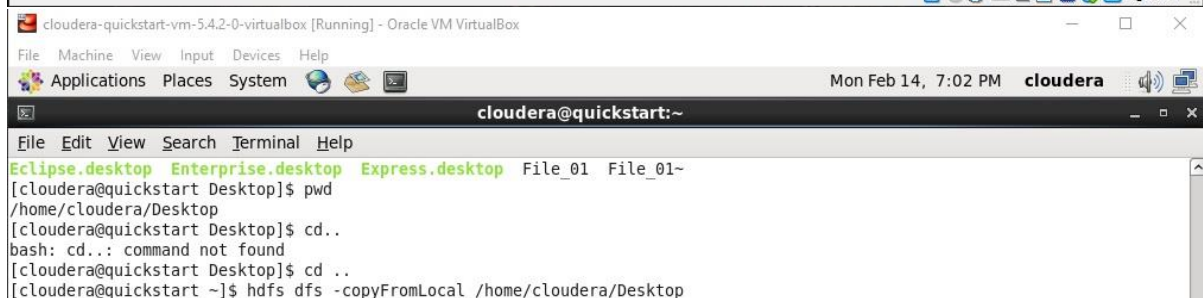
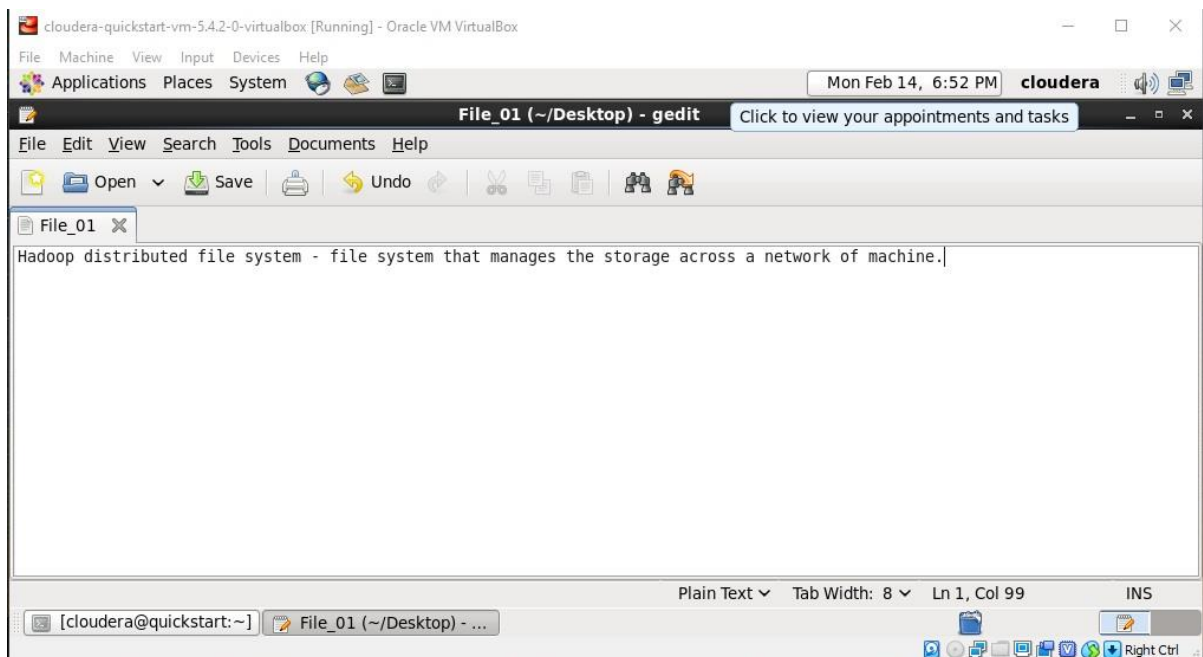


```
cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System Mon Feb 14, 6:42 PM cloudera
cloudera@quickstart:~
File Edit View Search Terminal Help
From source with checksum de74f1adb3744f8ee85d9a5b98f90d
This command was run using /usr/jars/hadoop-common-2.6.0-cdh5.4.2.jar
[cloudera@quickstart ~]$ hdfs dfs -ls
Error: Could not find or load main class dfs -ls
[cloudera@quickstart ~]$ hdfs dfs -ls
[cloudera@quickstart ~]$ hdfs dfs -ls /
-ls/: Unknown command
[cloudera@quickstart ~]$ hdfs dfs -ls
[cloudera@quickstart ~]$ hdfs dfs -ls
[cloudera@quickstart ~]$ hdfs dfs -ls /
Found 5 items
drwxr-xr-x - hbase supergroup          0 2022-02-14 18:34 /hbase
drwxr-xr-x - solr solr                  0 2015-06-09 03:38 /solr
drwxrwxrwx - hdfs supergroup           0 2022-02-07 21:10 /tmp
drwxr-xr-x - hdfs supergroup           0 2015-06-09 03:38 /user
drwxr-xr-x - hdfs supergroup           0 2015-06-09 03:36 /var
[cloudera@quickstart ~]$ hadoop fs -ls
[cloudera@quickstart ~]$ hadoop fs -ls /
Found 5 items
drwxr-xr-x - hbase supergroup          0 2022-02-14 18:34 /hbase
drwxr-xr-x - solr solr                  0 2015-06-09 03:38 /solr
drwxrwxrwx - hdfs supergroup           0 2022-02-07 21:10 /tmp
```

```
cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System Mon Feb 14, 9:07 PM cloudera
cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hdfs dfs -checksum /rjc
checksum: '/rjc': Is a directory
[cloudera@quickstart ~]$ hdfs dfs -checksum /rjc/File_01
/rjc/File_01 MD5-of-0MD5-of-512CRC32C 0000020000000000000000058a206233fc6c2acdf5d9460418ca81
[cloudera@quickstart ~]$
```

```
cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System Mon Feb 14, 9:08 PM cloudera
cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hdfs dfs -checksum /rjc
checksum: '/rjc': Is a directory
[cloudera@quickstart ~]$ hdfs dfs -checksum /rjc/File_01
/rjc/File_01 MD5-of-0MD5-of-512CRC32C 000002000000000000000000558a206233fc6c2acdf5d9460418ca81
[cloudera@quickstart ~]$ hdfs dfs -help mkdir
mkdir [-p] <path> ... :
    Create a directory in specified location.
    -p Do not fail if the directory already exists
[cloudera@quickstart ~]$
```

```
cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System Mon Feb 14, 6:44 PM cloudera
cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hdfs dfs -ls
[cloudera@quickstart ~]$ hdfs dfs -ls/
-ls/: Unknown command
[cloudera@quickstart ~]$ hdfs dfs -ls
[cloudera@quickstart ~]$ hdfs dfs -ls
[cloudera@quickstart ~]$ hdfs dfs -ls /
Found 5 items
drwxr-xr-x - hbase supergroup 0 2022-02-14 18:34 /hbase
drwxr-xr-x - solr solr 0 2015-06-09 03:38 /solr
drwxrwxrwx - hdfs supergroup 0 2022-02-07 21:10 /tmp
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:38 /user
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:36 /var
[cloudera@quickstart ~]$ hadoop fs -ls
[cloudera@quickstart ~]$ hadoop fs -ls /
Found 5 items
drwxr-xr-x - hbase supergroup 0 2022-02-14 18:34 /hbase
drwxr-xr-x - solr solr 0 2015-06-09 03:38 /solr
drwxrwxrwx - hdfs supergroup 0 2022-02-07 21:10 /tmp
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:38 /user
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:36 /var
[cloudera@quickstart ~]$ hdfs dfs -mkdir /rjc
[cloudera@quickstart ~]$ hadoop fs -ls /
Found 6 items
drwxr-xr-x - hbase supergroup 0 2022-02-14 18:34 /hbase
drwxr-xr-x - cloudera supergroup 0 2022-02-14 18:44 /rjc
drwxr-xr-x - solr solr 0 2015-06-09 03:38 /solr
drwxrwxrwx - hdfs supergroup 0 2022-02-07 21:10 /tmp
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:38 /user
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:36 /var
[cloudera@quickstart ~]$ hdfs dfs -ls /
Found 6 items
drwxr-xr-x - hbase supergroup 0 2022-02-14 18:34 /hbase
drwxr-xr-x - cloudera supergroup 0 2022-02-14 18:44 /rjc
drwxr-xr-x - solr solr 0 2015-06-09 03:38 /solr
drwxrwxrwx - hdfs supergroup 0 2022-02-07 21:10 /tmp
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:38 /user
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:36 /var
[cloudera@quickstart ~]$
```



```
cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System Mon Feb 14, 7:09 PM cloudera
cloudera@quickstart:~
File Edit View Search Terminal Help
bin boot dev etc home lib lib64 lost+found media mnt opt proc root sbin selinux srv sys tmp usr var
[cloudera@quickstart ~]$ cd Desktop
bash: cd: Desktop: No such file or directory
[cloudera@quickstart ~]$ cd
[cloudera@quickstart ~]$ ls
bdw cat cloudera-manager cm_api.py Desktop Documents Downloads eclipse enterprise-deployment.json express-deployment
[cloudera@quickstart ~]$ cd Desktop
[cloudera@quickstart Desktop]$ pwd
/home/cloudera/Desktop
[cloudera@quickstart Desktop]$ cd ..
[cloudera@quickstart ~]$ hdfs dfs -put /home/cloudera/Desktop
put: 'Desktop/Eclipse.desktop': File exists
put: 'Desktop/Enterprise.desktop': File exists
put: 'Desktop/Express.desktop': File exists
put: 'Desktop/File_01': File exists
put: 'Desktop/File_01~': File exists
[cloudera@quickstart ~]$ hdfs dfs -put /home/cloudera/Desktop/File_02 /rjc
[cloudera@quickstart ~]$ hdfs dfs -ls /rjc
Found 2 items
-rw-r--r-- 1 cloudera supergroup 45 2022-02-14 18:56 /rjc/File_01
-rw-r--r-- 1 cloudera supergroup 38 2022-02-14 19:09 /rjc/File_02
[cloudera@quickstart ~]$
```

```
cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System Mon Feb 14, 7:13 PM cloudera
cloudera@quickstart:~
File Edit View Search Terminal Help
Preferred Mail Reader
Send email
[cloudera@quickstart ~]$ ls
bdw cat cloudera-manager cm_api.py Desktop Documents Downloads eclipse enterprise-deployment.json express-deployment
[cloudera@quickstart ~]$ cd Desktop
[cloudera@quickstart Desktop]$ pwd
/home/cloudera/Desktop
[cloudera@quickstart Desktop]$ cd ..
[cloudera@quickstart ~]$ hdfs dfs -put /home/cloudera/Desktop
put: 'Desktop/Eclipse.desktop': File exists
put: 'Desktop/Enterprise.desktop': File exists
put: 'Desktop/Express.desktop': File exists
put: 'Desktop/File_01': File exists
put: 'Desktop/File_01~': File exists
[cloudera@quickstart ~]$ hdfs dfs -put /home/cloudera/Desktop/File_02 /rjc
[cloudera@quickstart ~]$ hdfs dfs -ls /rjc
Found 2 items
-rw-r--r-- 1 cloudera supergroup 45 2022-02-14 18:56 /rjc/File_01
-rw-r--r-- 1 cloudera supergroup 38 2022-02-14 19:09 /rjc/File_02
[cloudera@quickstart ~]$ pwd
/home/cloudera
[cloudera@quickstart ~]$ hdfs dfs -copyToLocal /rjc/File_01 /home/cloudera
[cloudera@quickstart ~]$ hdfs dfs -copyToLocal /rjc/File_01 /home/cloudera/Desktop/Rjc_Local
[cloudera@quickstart ~]$
```



```
cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System Mon Feb 14, 7:30 PM cloudera

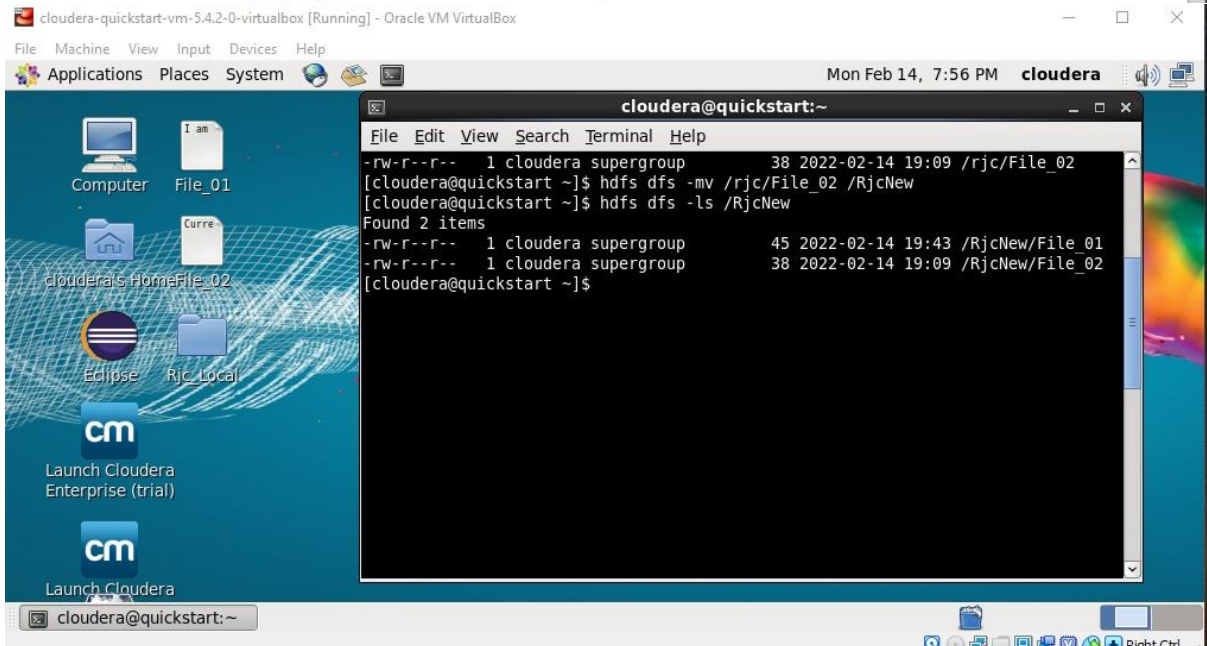
cloudera@quickstart:~
File Edit View Search Terminal Help
Found 2 items
-rw-r--r-- 1 cloudera supergroup 45 2022-02-14 18:56 /rjc/File_01
-rw-r--r-- 1 cloudera supergroup 38 2022-02-14 19:09 /rjc/File_02
[cloudera@quickstart ~]$ pwd
/home/cloudera
[cloudera@quickstart ~]$ hdfs dfs -copyToLocal /rjc/File_01 /home/cloudera
[cloudera@quickstart ~]$ hdfs dfs -copyToLocal /rjc/File_01 /home/cloudera/Desktop/Rjc_Local
[cloudera@quickstart ~]$ ls Desktop
Eclipse.desktop Enterprise.desktop Express.desktop File_01 File_01~ File_02 File_02~ Rjc_Local
[cloudera@quickstart ~]$ ls Desktop/Rjc_Local
File_01
[cloudera@quickstart ~]$ hdfs dfs -ls /
Found 6 items
drwxr-xr-x - hbase supergroup 0 2022-02-14 18:34 /hbase
drwxr-xr-x - cloudera supergroup 0 2022-02-14 19:09 /rjc
drwxr-xr-x - solr solr 0 2015-06-09 03:38 /solr
drwxrwxrwx - hdfs supergroup 0 2022-02-07 21:10 /tmp
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:38 /user
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:36 /var
[cloudera@quickstart ~]$ hdfs dfs -cat /rjc/File_01
I am a student of MSCDSAI Batch of 2021-2022
[cloudera@quickstart ~]$
```

```
cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System Mon Feb 14, 7:42 PM cloudera

cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hdfs dfs -mkdir /RjcNew
[cloudera@quickstart ~]$ hdfs dfs -ls /
Found 7 items
drwxr-xr-x - cloudera supergroup 0 2022-02-14 19:36 /RjcNew
drwxr-xr-x - hbase supergroup 0 2022-02-14 18:34 /hbase
drwxr-xr-x - cloudera supergroup 0 2022-02-14 19:09 /rjc
drwxr-xr-x - solr solr 0 2015-06-09 03:38 /solr
drwxrwxrwx - hdfs supergroup 0 2022-02-07 21:10 /tmp
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:38 /user
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:36 /var
```

```
cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System Mon Feb 14, 7:56 PM cloudera

cloudera@quickstart:~
File Edit View Search Terminal Help
-rw-r--r-- 1 cloudera supergroup 38 2022-02-14 19:09 /rjc/File_02
[cloudera@quickstart ~]$ hdfs dfs -mv /rjc/File_02 /RjcNew
[cloudera@quickstart ~]$ hdfs dfs -ls /RjcNew
Found 2 items
-rw-r--r-- 1 cloudera supergroup 45 2022-02-14 19:43 /RjcNew/File_01
-rw-r--r-- 1 cloudera supergroup 38 2022-02-14 19:09 /RjcNew/File_02
[cloudera@quickstart ~]$
```



```
cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System Mon Feb 14, 7:58 PM cloudera
cloudera@quickstart:~
File Edit View Search Terminal Help

[cloudera@quickstart ~]$ hdfs dfs -ls /RjcNew
Found 2 items
-rw-r--r-- 1 cloudera supergroup 45 2022-02-14 19:43 /RjcNew/File_01
-rw-r--r-- 1 cloudera supergroup 38 2022-02-14 19:09 /RjcNew/File_02
[cloudera@quickstart ~]$ hdfs dfs -rm /RjcNew/File_02
22/02/14 19:58:12 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 0 minutes, Emptier interval
Deleted /RjcNew/File_02
[cloudera@quickstart ~]$
```

```
cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System Mon Feb 14, 8:01 PM cloudera
cloudera@quickstart:~
File Edit View Search Terminal Help

[cloudera@quickstart ~]$ hdfs dfs -ls /RjcNew
Found 1 items
-rw-r--r-- 1 cloudera supergroup 45 2022-02-14 19:43 /RjcNew/File_01
[cloudera@quickstart ~]$ hdfs dfs -rm /RjcNew/File_02
rm: '/RjcNew/File_02': No such file or directory
[cloudera@quickstart ~]$ hdfs dfs -rm /RjcNew/File_01
22/02/14 20:00:16 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 0 minutes, Emptier interval = 0 minutes.
Deleted /RjcNew/File_01
[cloudera@quickstart ~]$ hdfs dfs -ls /
Found 7 items
drwxr-xr-x - cloudera supergroup 0 2022-02-14 20:00 /RjcNew
drwxr-xr-x - hbase supergroup 0 2022-02-14 18:34 /hbase
drwxr-xr-x - cloudera supergroup 0 2022-02-14 19:55 /rjc
drwxr-xr-x - solr solr 0 2015-06-09 03:38 /solr
drwxrwxrwx - hdfs supergroup 0 2022-02-07 21:10 /tmp
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:38 /user
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:36 /var
[cloudera@quickstart ~]$ hdfs dfs -rmdir /RjcNew
[cloudera@quickstart ~]$ hdfs dfs -ls /
Found 6 items
drwxr-xr-x - hbase supergroup 0 2022-02-14 18:34 /hbase
drwxr-xr-x - cloudera supergroup 0 2022-02-14 19:55 /rjc
drwxr-xr-x - solr solr 0 2015-06-09 03:38 /solr
drwxrwxrwx - hdfs supergroup 0 2022-02-07 21:10 /tmp
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:38 /user
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:36 /var
[cloudera@quickstart ~]$
```

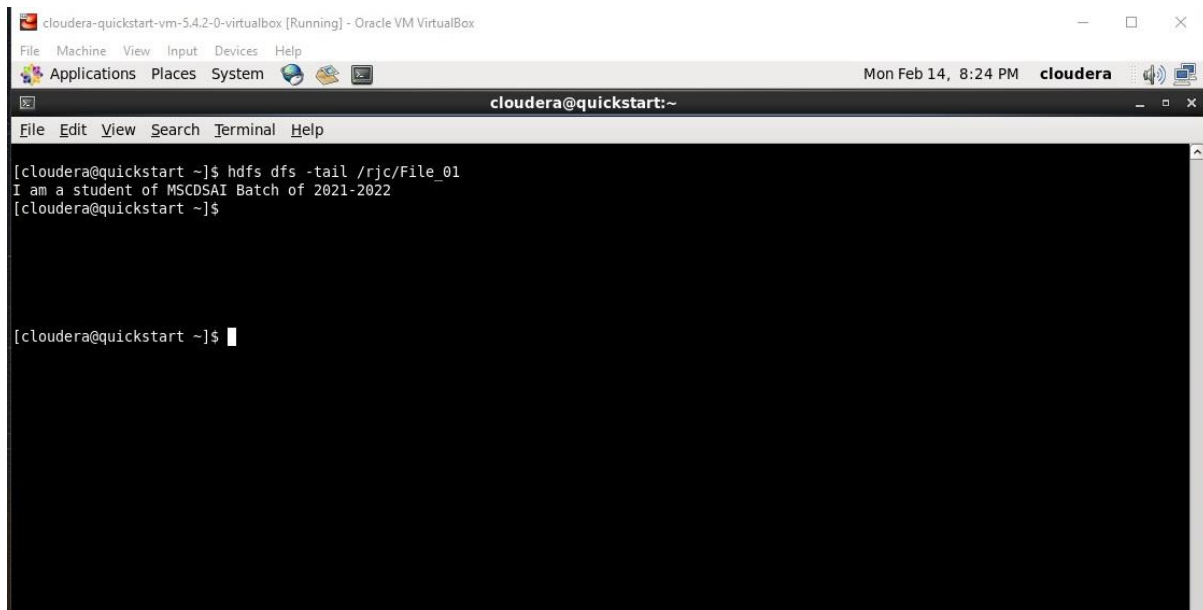
```
cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System Mon Feb 14, 8:08 PM cloudera
cloudera@quickstart:~
File Edit View Search Terminal Help

[cloudera@quickstart ~]$ ls Desktop/Rjc_Local
File_01 File_03 File_03~
[cloudera@quickstart ~]$ hdfs dfs -moveFromLocal /home/cloudera/Desktop/Rjc_Local/File_03 /rjc
[cloudera@quickstart ~]$ hdfs dfs -ls /
Found 6 items
drwxr-xr-x - hbase supergroup 0 2022-02-14 18:34 /hbase
drwxr-xr-x - cloudera supergroup 0 2022-02-14 20:07 /rjc
drwxr-xr-x - solr solr 0 2015-06-09 03:38 /solr
drwxrwxrwx - hdfs supergroup 0 2022-02-07 21:10 /tmp
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:38 /user
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:36 /var
[cloudera@quickstart ~]$ hdfs dfs -ls /rjc
Found 2 items
-rw-r--r-- 1 cloudera supergroup 45 2022-02-14 18:56 /rjc/File_01
-rw-r--r-- 1 cloudera supergroup 43 2022-02-14 20:07 /rjc/File_03
[cloudera@quickstart ~]$
```

```
cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System Mon Feb 14, 8:17 PM cloudera
cloudera@quickstart:~
File Edit View Search Terminal Help

[cloudera@quickstart ~]$ hdfs dfs -ls /
Found 6 items
drwxr-xr-x - hbase supergroup 0 2022-02-14 18:34 /hbase
drwxr-xr-x - cloudera supergroup 0 2022-02-14 20:07 /rjc
drwxr-xr-x - solr solr 0 2015-06-09 03:38 /solr
drwxrwxrwx - hdfs supergroup 0 2022-02-07 21:10 /tmp
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:38 /user
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:36 /var
[cloudera@quickstart ~]$ hdfs dfs -tail /rjc
tail: '/rjc': Is a directory
[cloudera@quickstart ~]$ hdfs dfs -tail /rjc/File_01
I am a student of MSCDSAI Batch of 2021-2022
[cloudera@quickstart ~]$
```

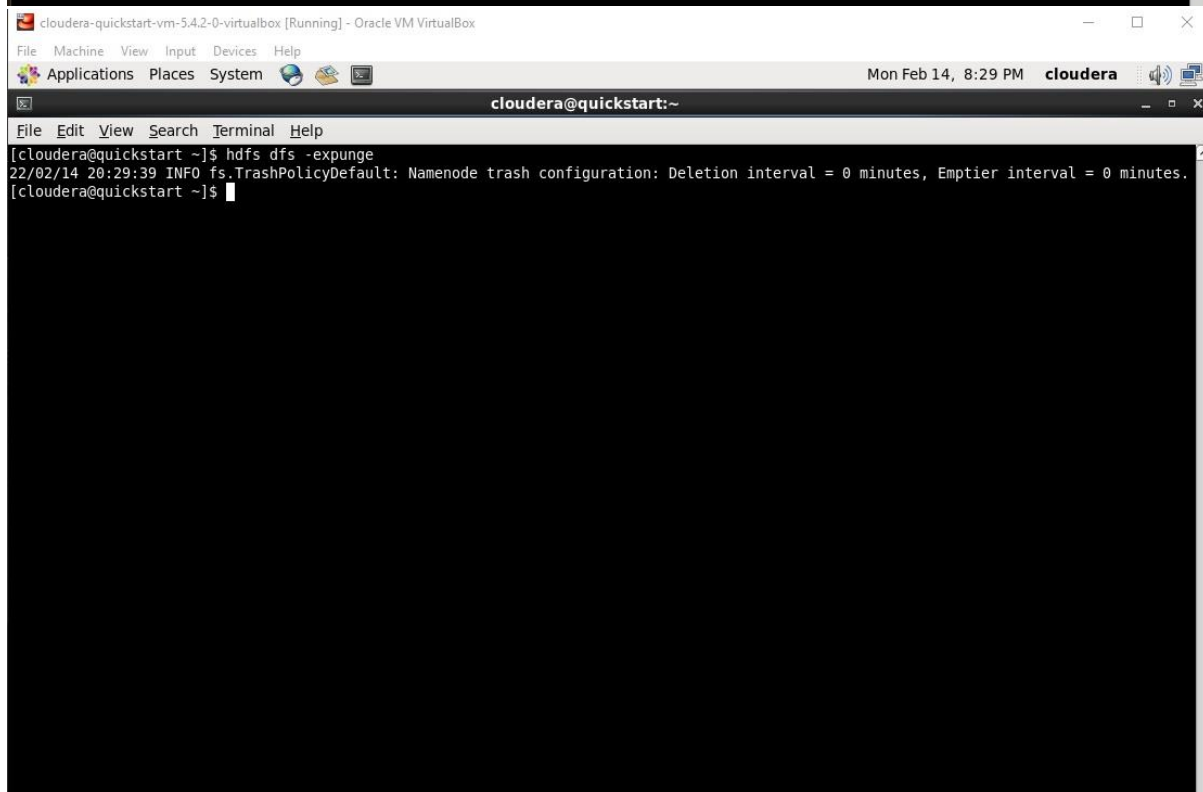




The screenshot shows a terminal window titled "cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox". The window has a menu bar with "File", "Machine", "View", "Input", "Devices", and "Help". Below the menu bar is a toolbar with icons for Applications, Places, and System. The status bar at the bottom of the window shows "Mon Feb 14, 8:24 PM" and "cloudera". The terminal itself has a title bar "cloudera@quickstart:~" and a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The terminal content shows the command `hdfs dfs -tail /rjc/File_01` being executed, which outputs `I am a student of MSCDSAI Batch of 2021-2022`. The prompt `[cloudera@quickstart ~]$` is shown twice.

```
cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System
Mon Feb 14, 8:24 PM cloudera
cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hdfs dfs -tail /rjc/File_01
I am a student of MSCDSAI Batch of 2021-2022
[cloudera@quickstart ~]$

[cloudera@quickstart ~]$
```



The screenshot shows a terminal window titled "cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox". The window has a menu bar with "File", "Machine", "View", "Input", "Devices", and "Help". Below the menu bar is a toolbar with icons for Applications, Places, and System. The status bar at the bottom of the window shows "Mon Feb 14, 8:29 PM" and "cloudera". The terminal itself has a title bar "cloudera@quickstart:~" and a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The terminal content shows the command `hdfs dfs -expunge` being executed, which outputs `22/02/14 20:29:39 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 0 minutes, Emptier interval = 0 minutes.`. The prompt `[cloudera@quickstart ~]$` is shown twice.

```
cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System
Mon Feb 14, 8:29 PM cloudera
cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hdfs dfs -expunge
22/02/14 20:29:39 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 0 minutes, Emptier interval = 0 minutes.
[cloudera@quickstart ~]$

[cloudera@quickstart ~]$
```

Browsing HDFS

localhost:50070/explorer.html#/

Search

Cloudera Hue Hadoop HBase Impala Spark Solr Oozie Cludera Manager Getting Started

Hadoop Overview Datanodes Snapshot Startup Progress Utilities

Browse Directory

/

Go!

Permission	Owner	Group	Size	Replication	Block Size	Name
drwxr-xr-x	hbase	supergroup	0 B	0	0 B	<a href="#">hbase</a>
drwxr-xr-x	cludera	supergroup	0 B	0	0 B	<a href="#">rjc</a>
drwxr-xr-x	solr	solr	0 B	0	0 B	<a href="#">solr</a>
drwxrwxrwx	hdfs	supergroup	0 B	0	0 B	<a href="#">tmp</a>
drwxr-xr-x	hdfs	supergroup	0 B	0	0 B	<a href="#">user</a>
drwxr-xr-x	hdfs	supergroup	0 B	0	0 B	<a href="#">var</a>

Hadoop, 2014.

Firefox automatically sends some data to Mozilla so that we can improve your experience.

Choose What I Share

cludera@quickstart:~

Browsing HDFS - Mozil...

Right Ctrl

cludera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Applications Places System

Mon Feb 14, 8:41 PM cludera

cludera@quickstart:~

File Edit View Search Terminal Help

[cludera@quickstart ~]\$ hdfs dfs -setrep 3 /rjc

Replication 3 set: /rjc/File\_01

[cludera@quickstart ~]\$ hdfs dfs -ls /

Found 6 items

drwxr-xr-x - hbase supergroup 0 2022-02-14 18:34 /hbase

drwxr-xr-x - cludera supergroup 0 2022-02-14 20:22 /rjc

drwxr-xr-x - solr solr 0 2015-06-09 03:38 /solr

drwxrwxrwx - hdfs supergroup 0 2022-02-07 21:10 /tmp

drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:38 /user

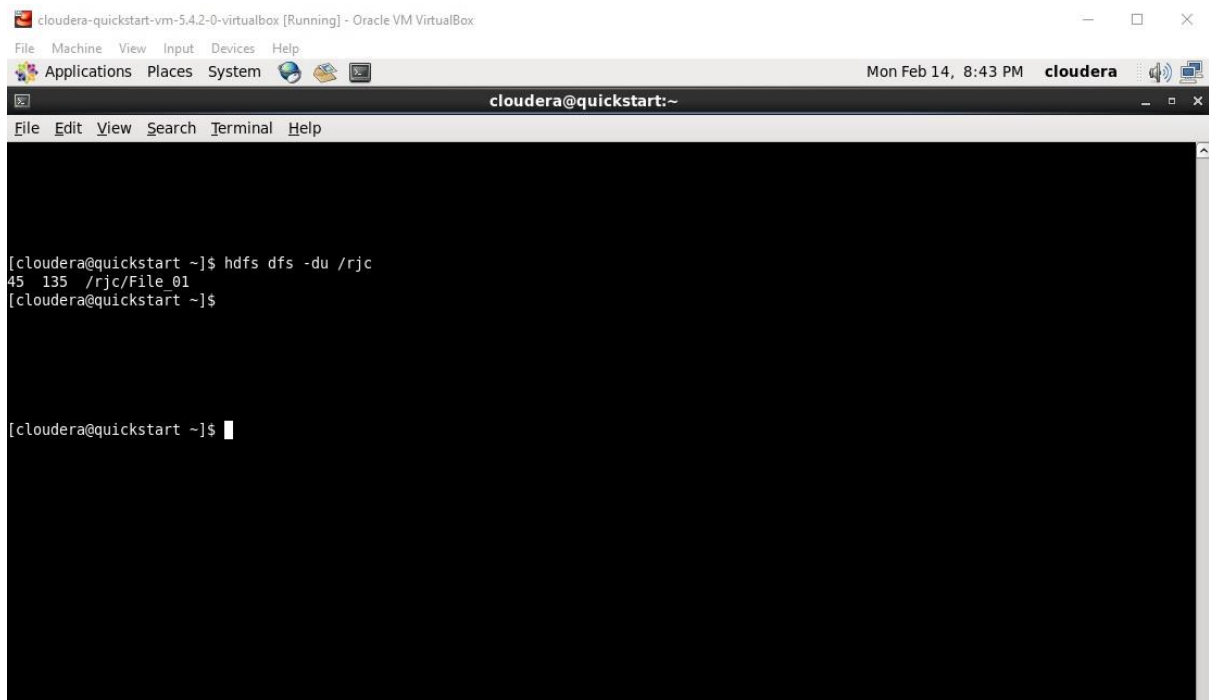
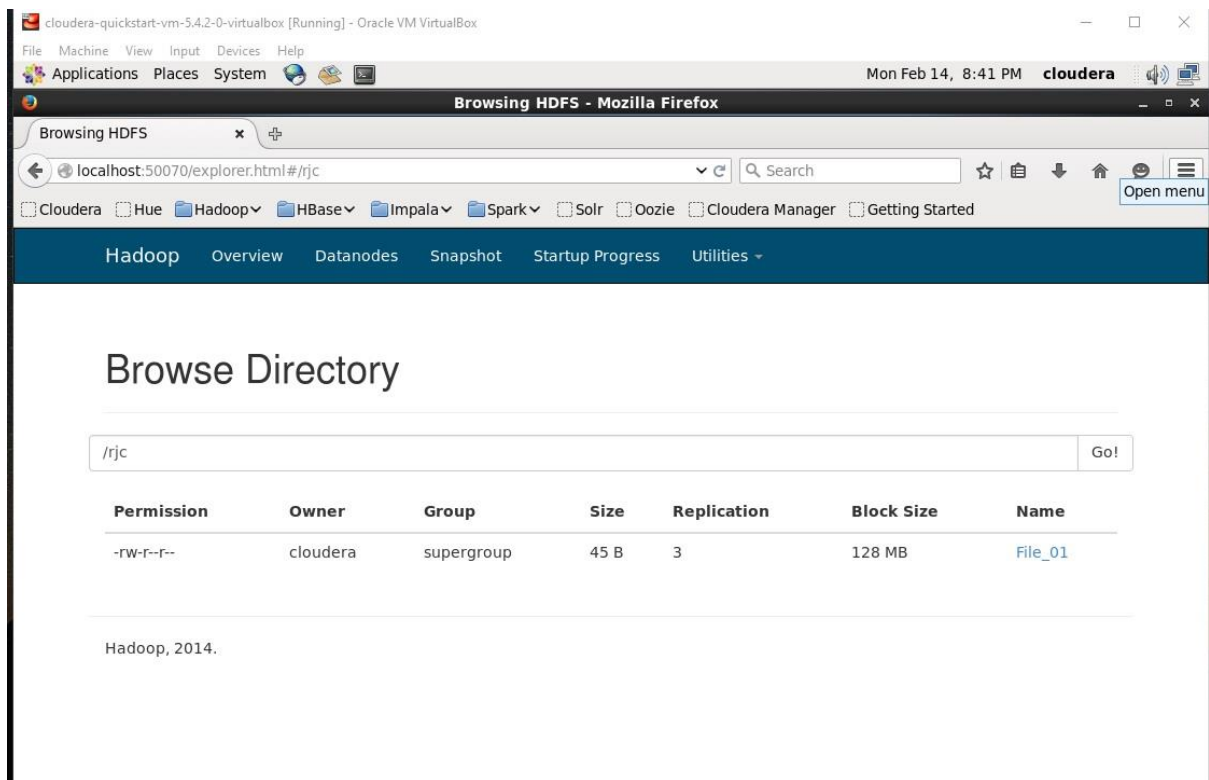
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:36 /var

[cludera@quickstart ~]\$ hdfs dfs -ls /rjc

Found 1 items

-rw-r--r-- 3 cludera supergroup 45 2022-02-14 18:56 /rjc/File\_01

[cludera@quickstart ~]\$



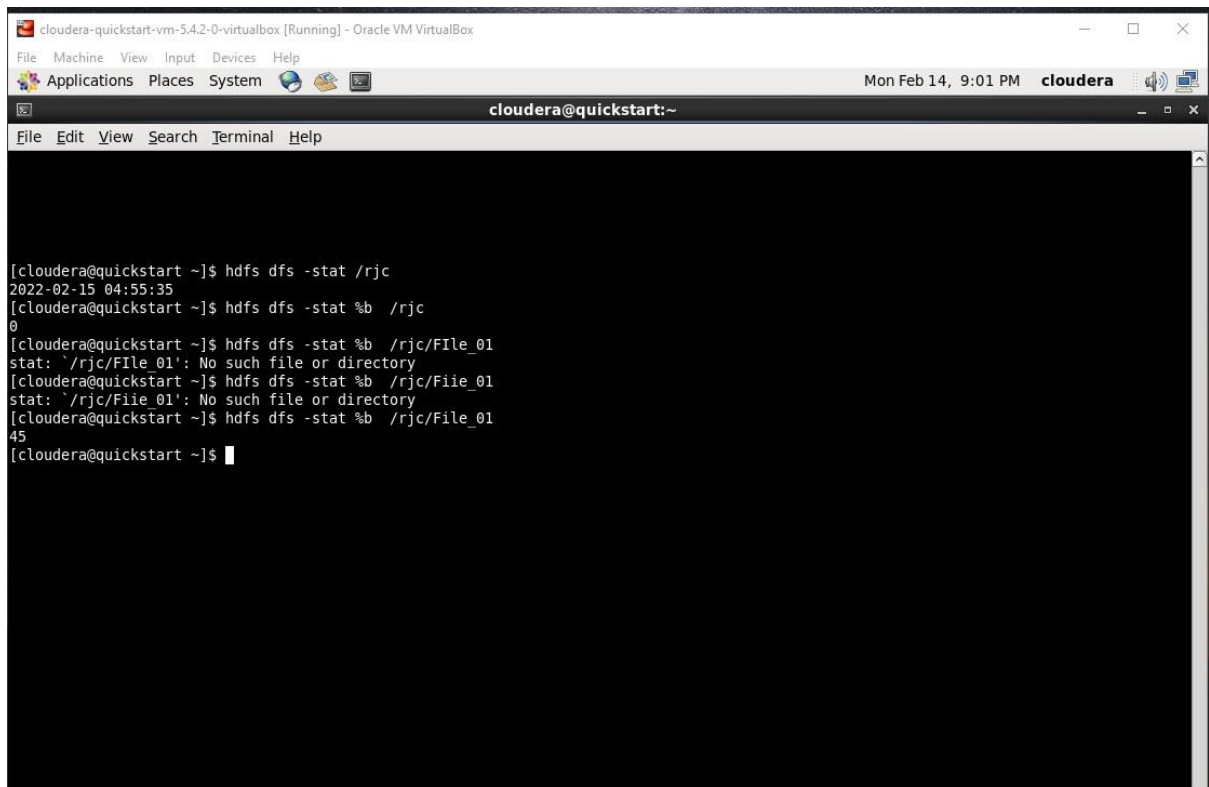
```
cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System Mon Feb 14, 8:51 PM cloudera
cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ ^C
[cloudera@quickstart ~]$ hdfs dfs -df -h
Filesystem              Size      Used Available Use%
hdfs://quickstart.cloudera:8020 54.6 G  376.5 M   44.8 G    1%
[cloudera@quickstart ~]$
```

```
cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System Mon Feb 14, 8:54 PM cloudera
cloudera@quickstart:~
File Edit View Search Terminal Help
Connecting to namenode via http://quickstart.cloudera:50070
PSCK started by cloudera (auth:SIMPLE) from /10.0.2.15 for path /rjc at Mon Feb 14 20:52:14 PST 2022
/rjc/File_01: Under replicated BP-989008105-127.0.0.1-1433846136903:blk_1073742232_1414. Target Replicas is 3 but found 1 replica(s).
Status: HEALTHY
Total size: 45 B
Total dirs: 1
Total files: 1
Total symlinks: 0
Total blocks (validated): 1 (avg. block size 45 B)
Minimally replicated blocks: 1 (100.0 %)
Over-replicated blocks: 0 (0.0 %)
Under-replicated blocks: 1 (100.0 %)
Mis-replicated blocks: 0 (0.0 %)
Default replication factor: 1
Average block replication: 1.0
Corrupt blocks: 0
Missing replicas: 2 (66.666664 %)
Number of data-nodes: 1
Number of racks: 1
PSCK ended at Mon Feb 14 20:52:14 PST 2022 in 3 milliseconds

The filesystem under path '/rjc' is HEALTHY
[cloudera@quickstart ~]$ hdfs fsck /rjc -files
Connecting to namenode via http://quickstart.cloudera:50070
PSCK started by cloudera (auth:SIMPLE) from /10.0.2.15 for path /rjc at Mon Feb 14 20:53:59 PST 2022
/rjc <dir>
/rjc/File_01 45 bytes, 1 block(s): Under replicated BP-989008105-127.0.0.1-1433846136903:blk_1073742232_1414. Target Replicas is 3 but found 1 replica(s).
Status: HEALTHY
Total size: 45 B
Total dirs: 1
Total files: 1
Total symlinks: 0
Total blocks (validated): 1 (avg. block size 45 B)
Minimally replicated blocks: 1 (100.0 %)
Over-replicated blocks: 0 (0.0 %)
Under-replicated blocks: 1 (100.0 %)
Mis-replicated blocks: 0 (0.0 %)
Default replication factor: 1
Average block replication: 1.0
Corrupt blocks: 0
Missing replicas: 2 (66.666664 %)
Number of data-nodes: 1
Number of racks: 1
PSCK ended at Mon Feb 14 20:53:59 PST 2022 in 1 milliseconds

The filesystem under path '/rjc' is HEALTHY
[cloudera@quickstart ~]$
```

```
cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System Mon Feb 14, 9:01 PM cloudera Change account settings and status
cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hdfs dfs -touchz/ rjc/File_03
-touchz/: Unknown command
[cloudera@quickstart ~]$ hdfs dfs -touchz /rjc/File_03
[cloudera@quickstart ~]$ hdfs dfs -ls /
Found 6 items
drwxr-xr-x - hbase supergroup 0 2022-02-14 18:34 /hbase
drwxr-xr-x - cloudera supergroup 0 2022-02-14 20:55 /rjc
drwxr-xr-x - solr solr 0 2015-06-09 03:38 /solr
drwxrwxrwx - hdfs supergroup 0 2022-02-07 21:10 /tmp
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:38 /user
drwxr-xr-x - hdfs supergroup 0 2015-06-09 03:36 /var
```



The image shows a terminal window titled "cloudera-quickstart-vm-5.4.2-0-virtualbox [Running] - Oracle VM VirtualBox". The window has a menu bar with "File", "Machine", "View", "Input", "Devices", and "Help". Below the menu bar is a toolbar with icons for Applications, Places, and System. The status bar at the top right shows "Mon Feb 14, 9:01 PM" and "cloudera". The terminal itself has a title bar "cloudera@quickstart: ~" and a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The terminal content shows the following commands and outputs:

```
[cloudera@quickstart ~]$ hdfs dfs -stat /rjc
2022-02-15 04:55:35
[cloudera@quickstart ~]$ hdfs dfs -stat %b /rjc
0
[cloudera@quickstart ~]$ hdfs dfs -stat %b /rjc/File_01
stat: `/rjc/File_01': No such file or directory
[cloudera@quickstart ~]$ hdfs dfs -stat %b /rjc/Fiie_01
stat: `/rjc/Fiie_01': No such file or directory
[cloudera@quickstart ~]$ hdfs dfs -stat %b /rjc/File_01
45
[cloudera@quickstart ~]$
```