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Roll no: 43

Division: BE3

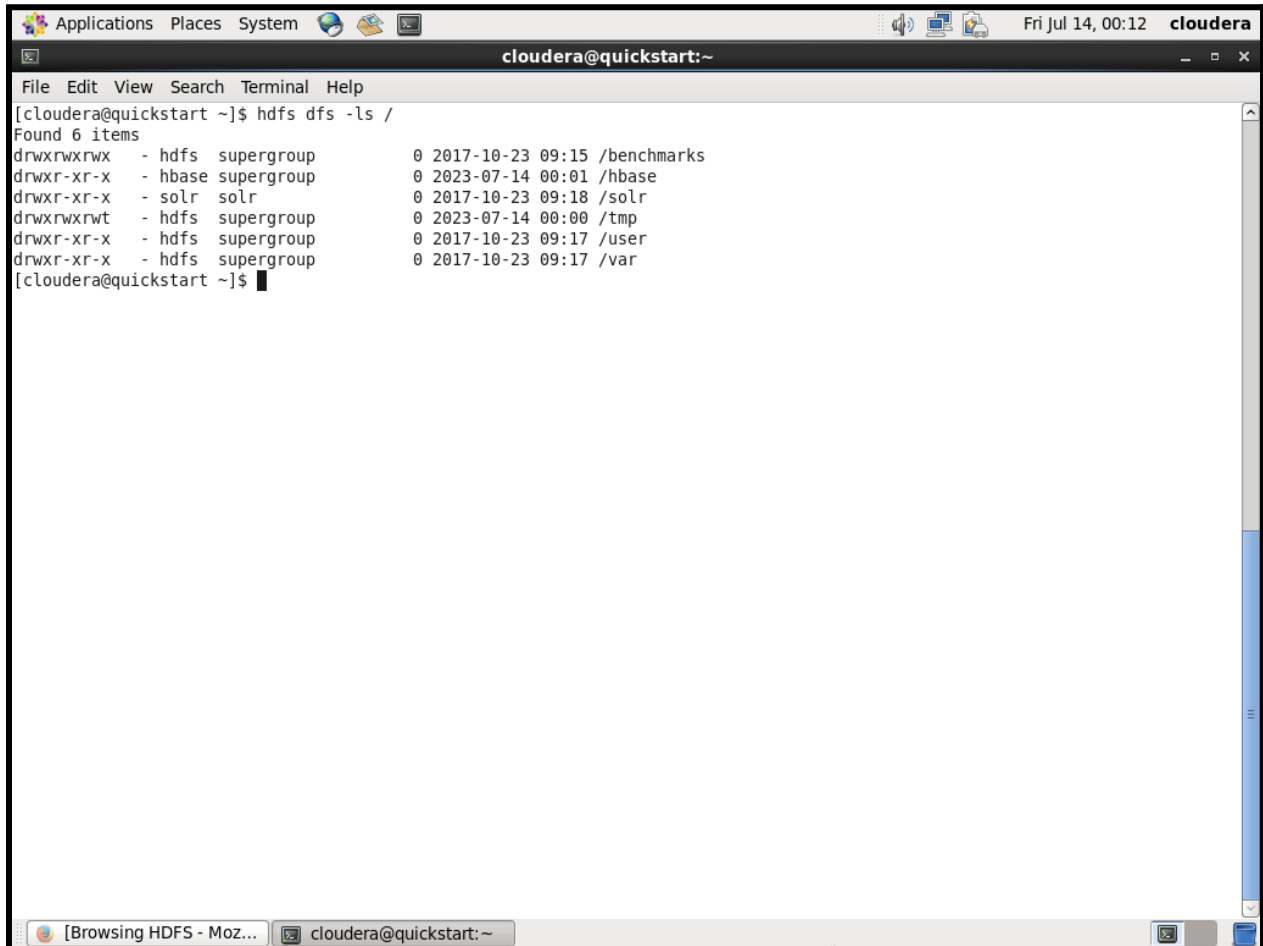
Batch: B

Subject: BDA

Expt-1:

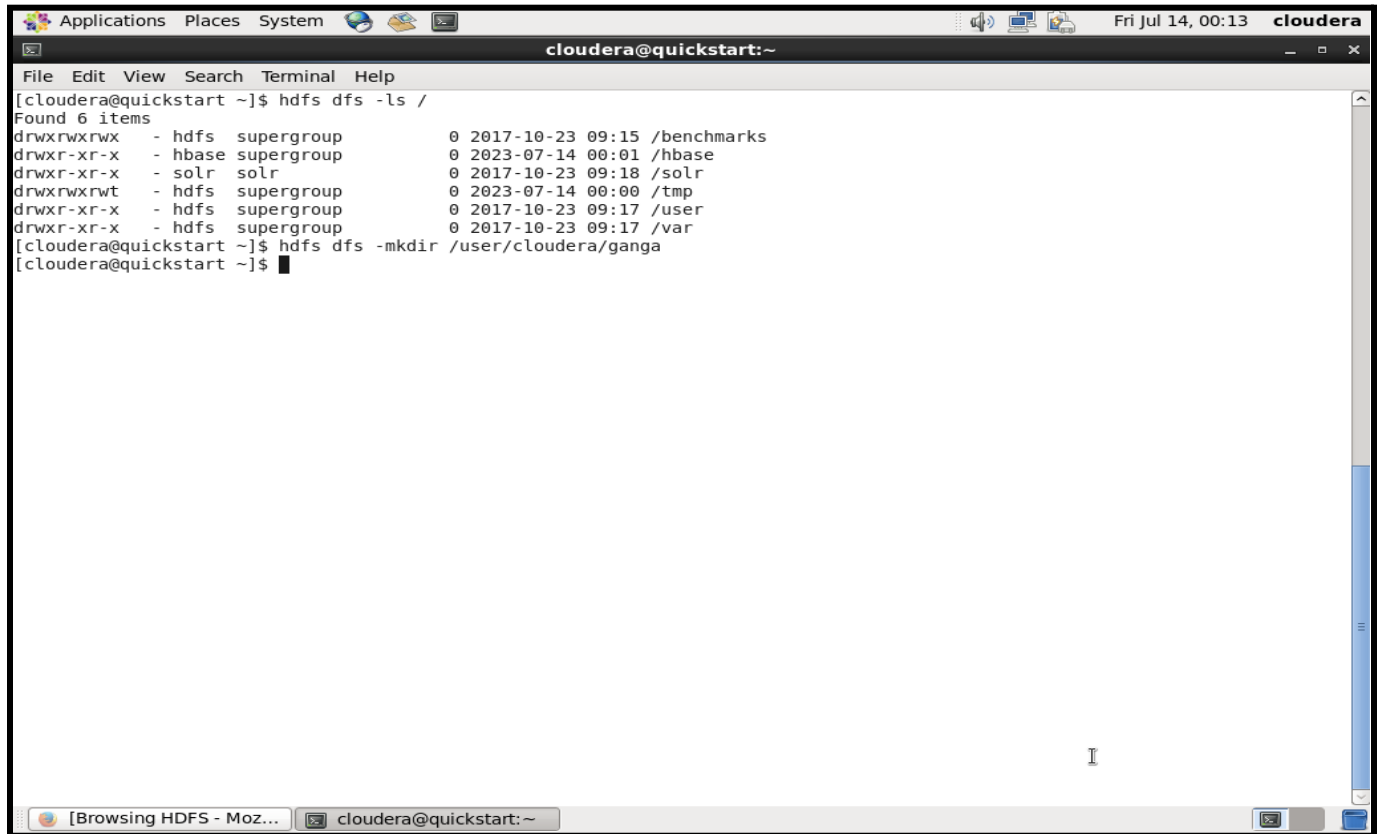
Hadoop Commands:

1) Hdfs dfs -ls



```
cloudera@quickstart:~$ hdfs dfs -ls /
Found 6 items
drwxrwxrwx - hdfs supergroup      0 2017-10-23 09:15 /benchmarks
drwxr-xr-x - hbase supergroup      0 2023-07-14 00:01 /hbase
drwxr-xr-x - solr solr             0 2017-10-23 09:18 /solr
drwxrwxrwt - hdfs supergroup      0 2023-07-14 00:00 /tmp
drwxr-xr-x - hdfs supergroup      0 2017-10-23 09:17 /user
drwxr-xr-x - hdfs supergroup      0 2017-10-23 09:17 /var
cloudera@quickstart ~]$
```

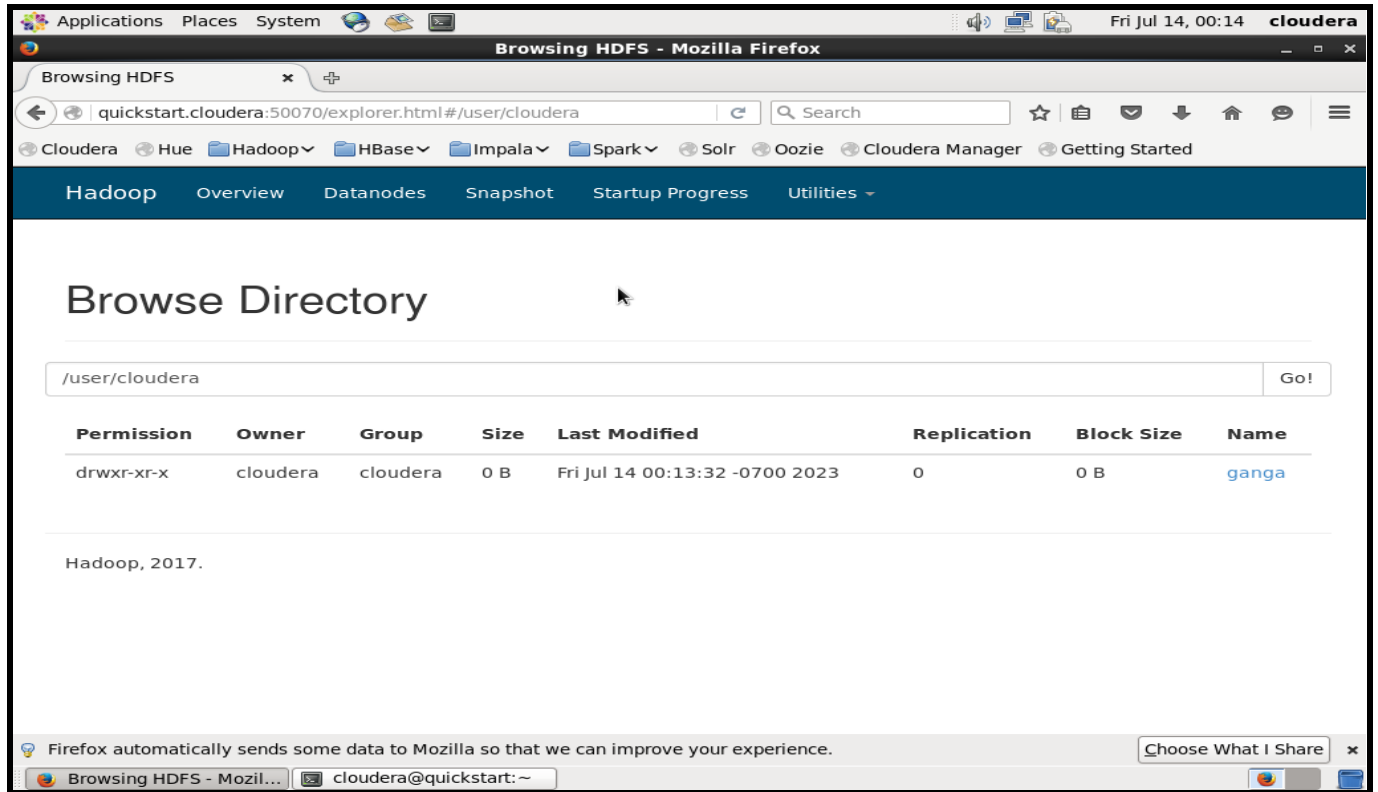
2) Hdfs dfs -mkdir



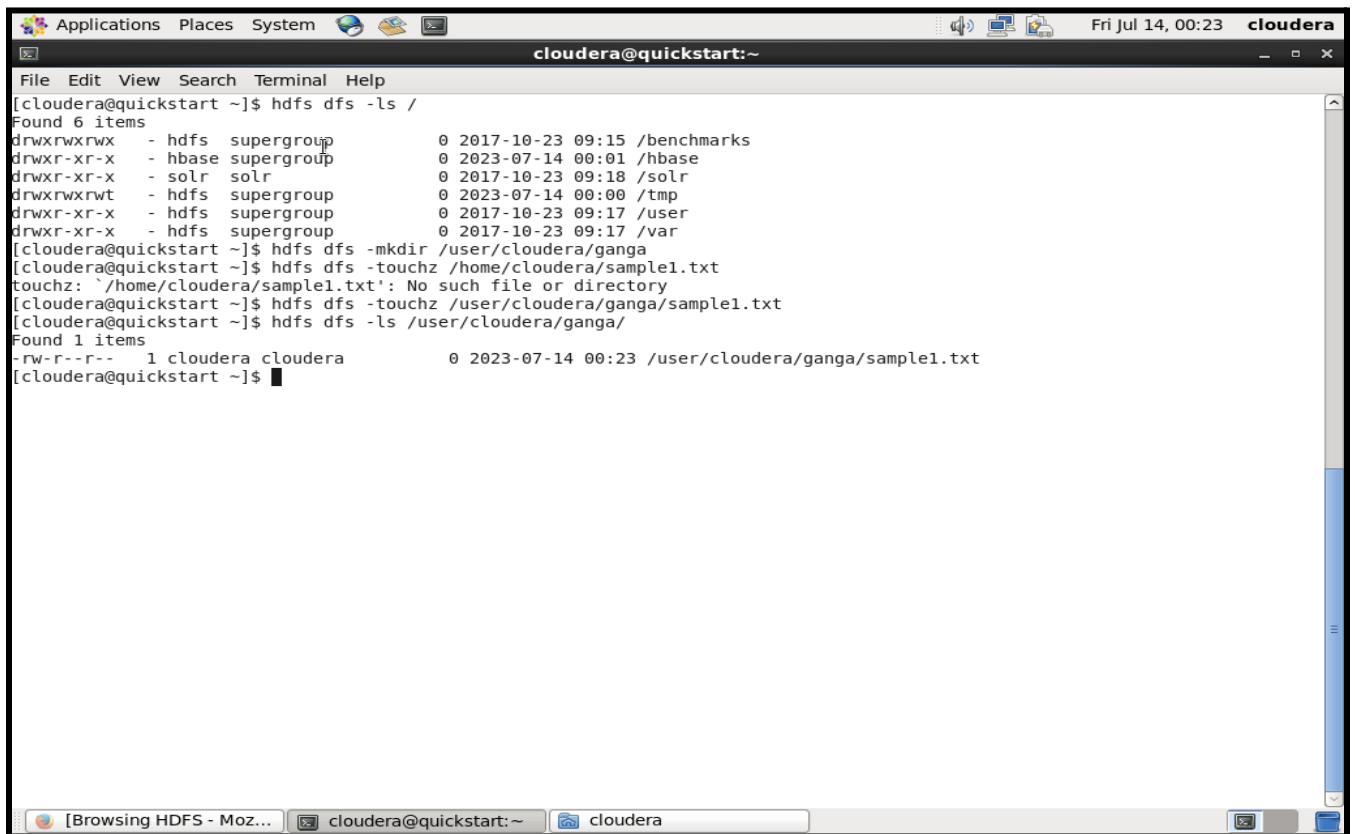
A terminal window titled "cloudera@quickstart:~" is shown. The window has a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The terminal output shows the command "hdfs dfs -ls /" being executed, which lists six items in the root directory. The output is as follows:

```
[cloudera@quickstart ~]$ hdfs dfs -ls /  
Found 6 items  
drwxrwxrwx - hdfs supergroup 0 2017-10-23 09:15 /benchmarks  
drwxr-xr-x - hbase supergroup 0 2023-07-14 00:01 /hbase  
drwxr-xr-x - solr solr 0 2017-10-23 09:18 /solr  
drwxrwxrwt - hdfs supergroup 0 2023-07-14 00:00 /tmp  
drwxr-xr-x - hdfs supergroup 0 2017-10-23 09:17 /user  
drwxr-xr-x - hdfs supergroup 0 2017-10-23 09:17 /var  
[cloudera@quickstart ~]$ hdfs dfs -mkdir /user/cloudera/ganga  
[cloudera@quickstart ~]$
```

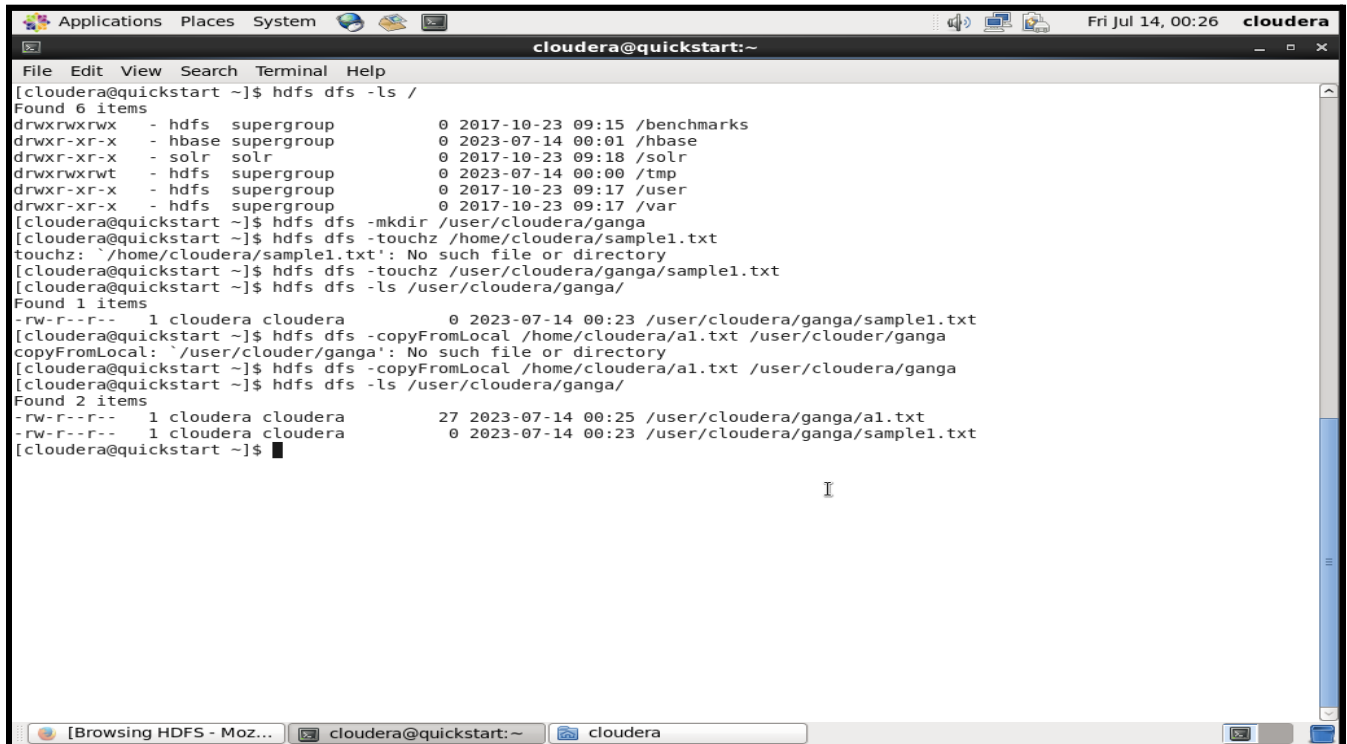
The terminal window also shows a taskbar at the bottom with a browser window titled "[Browsing HDFS - Moz...]" and the terminal window itself.



3) Hdfs dfs -touchz



4) Hdfs dfs -copyFromLocal

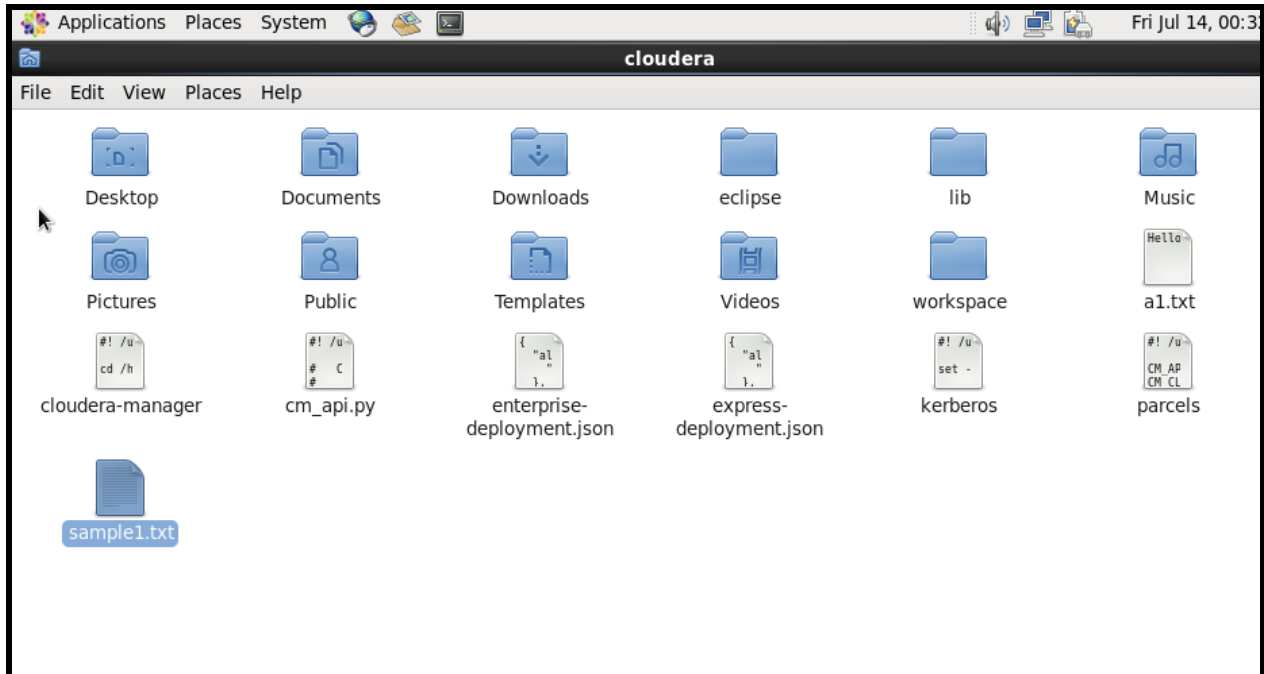


```
Applications Places System cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hdfs dfs -ls /
Found 6 items
drwxrwxrwx - hdfs supergroup 0 2017-10-23 09:15 /benchmarks
drwxr-xr-x - hbase supergroup 0 2023-07-14 00:01 /hbase
drwxr-xr-x - solr solr 0 2017-10-23 09:18 /solr
drwxrwxrwt - hdfs supergroup 0 2023-07-14 00:00 /tmp
drwxr-xr-x - hdfs supergroup 0 2017-10-23 09:17 /user
drwxr-xr-x - hdfs supergroup 0 2017-10-23 09:17 /var
[cloudera@quickstart ~]$ hdfs dfs -mkdir /user/cloudera/ganga
[cloudera@quickstart ~]$ hdfs dfs -touchz /home/cloudera/sample1.txt
touchz: '/home/cloudera/sample1.txt': No such file or directory
[cloudera@quickstart ~]$ hdfs dfs -touchz /user/cloudera/ganga/sample1.txt
[cloudera@quickstart ~]$ hdfs dfs -ls /user/cloudera/ganga/
Found 1 items
-rw-r--r-- 1 cloudera cloudera 0 2023-07-14 00:23 /user/cloudera/ganga/sample1.txt
[cloudera@quickstart ~]$ hdfs dfs -copyFromLocal /home/cloudera/a1.txt /user/clouder/ganga
copyFromLocal: '/user/clouder/ganga': No such file or directory
[cloudera@quickstart ~]$ hdfs dfs -copyFromLocal /home/cloudera/a1.txt /user/cloudera/ganga
[cloudera@quickstart ~]$ hdfs dfs -ls /user/cloudera/ganga/
Found 2 items
-rw-r--r-- 1 cloudera cloudera 27 2023-07-14 00:25 /user/cloudera/ganga/a1.txt
-rw-r--r-- 1 cloudera cloudera 0 2023-07-14 00:23 /user/cloudera/ganga/sample1.txt
[cloudera@quickstart ~]$
```

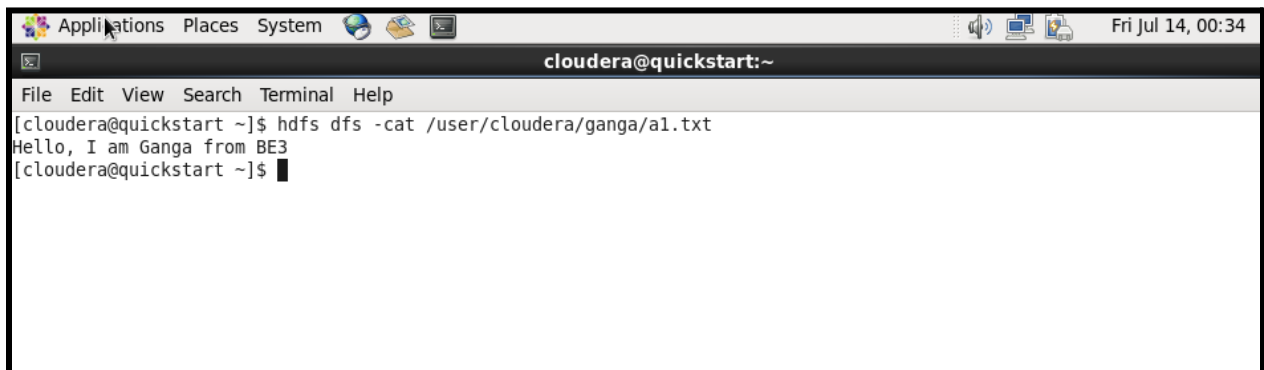
5) Hdfs dfs -copyToLocal



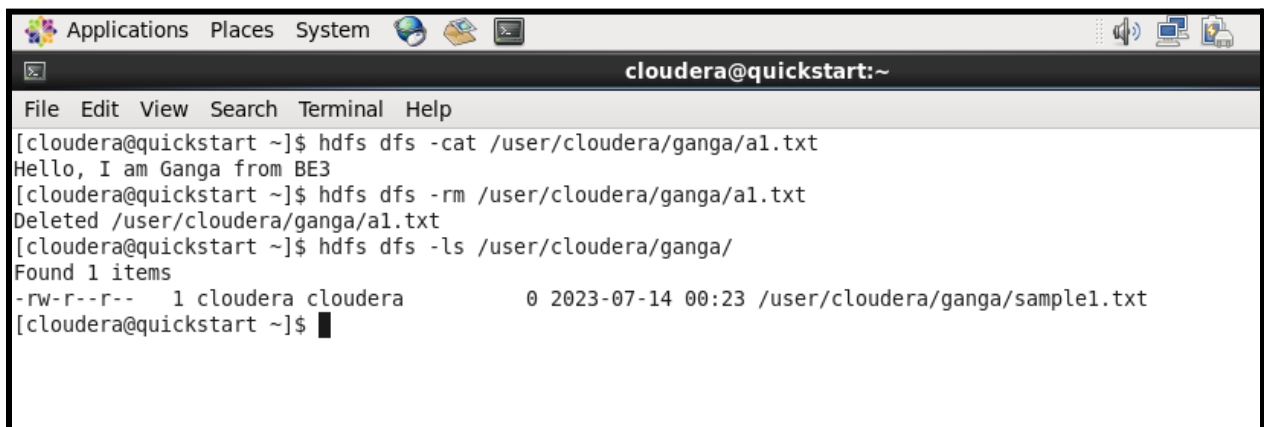
```
Applications Places System cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hdfs dfs -copyToLocal /user/cloudera/ganga/sample1.txt /home/cloudera
[cloudera@quickstart ~]$
```



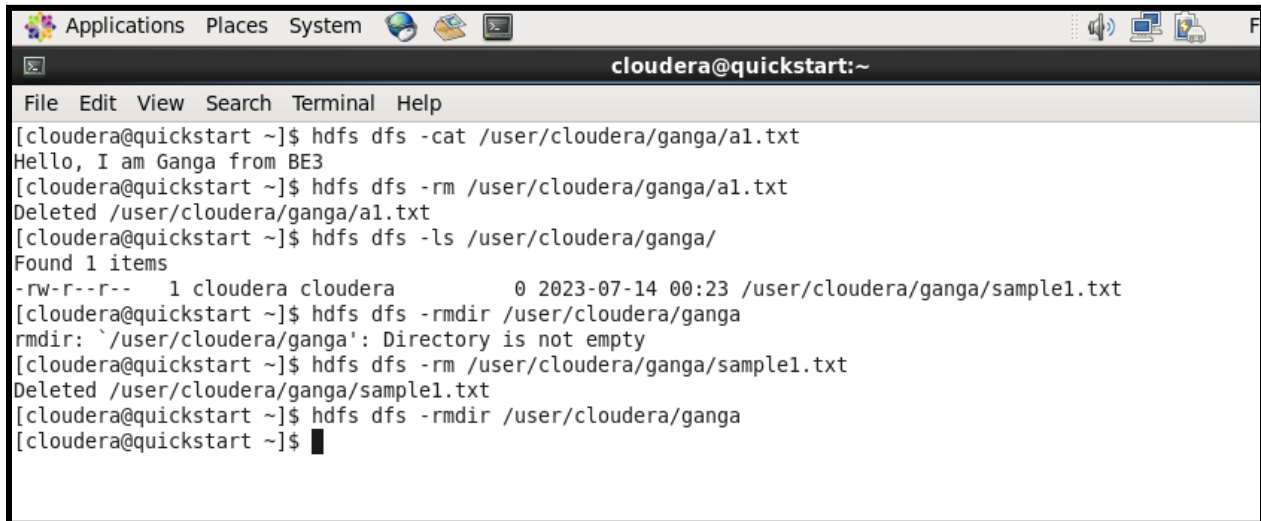
6) Hdfs dfs -cat



7) Hdfs dfs -rm

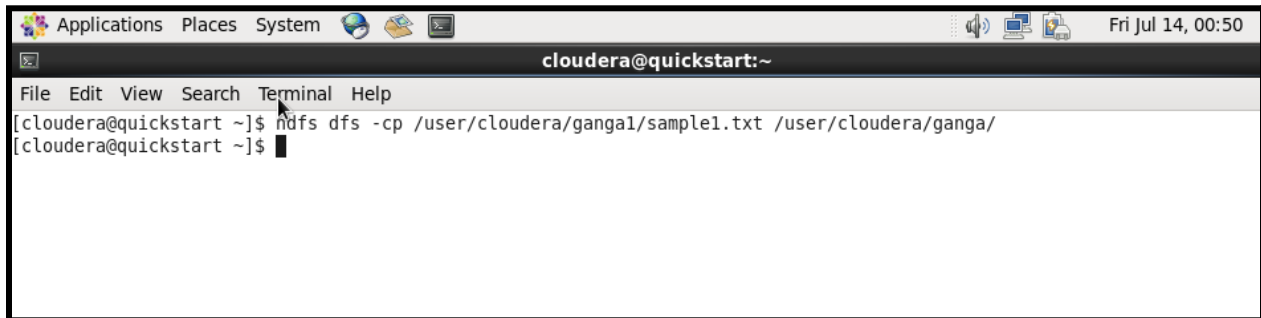


8) Hdfs dfs -rmdir



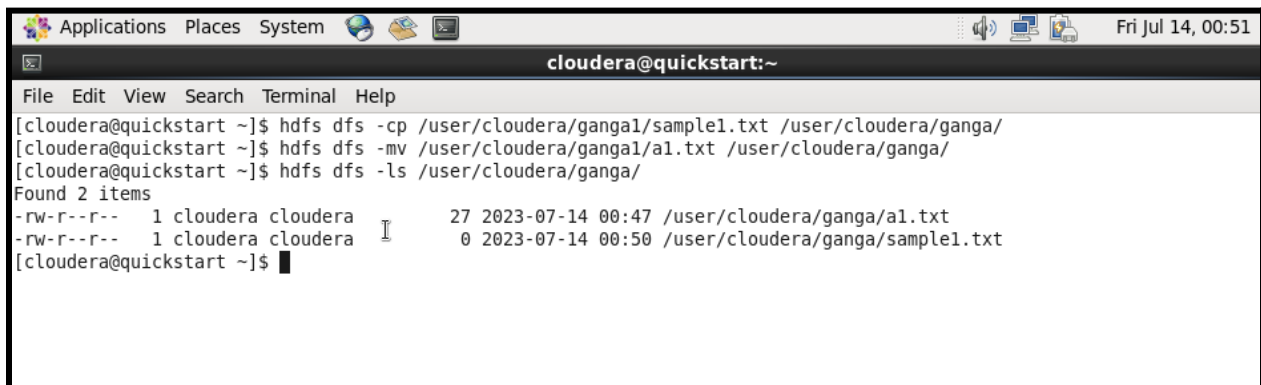
```
Applications Places System cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hdfs dfs -cat /user/cloudera/ganga/a1.txt
Hello, I am Ganga from BE3
[cloudera@quickstart ~]$ hdfs dfs -rm /user/cloudera/ganga/a1.txt
Deleted /user/cloudera/ganga/a1.txt
[cloudera@quickstart ~]$ hdfs dfs -ls /user/cloudera/ganga/
Found 1 items
-rw-r--r-- 1 cloudera cloudera 0 2023-07-14 00:23 /user/cloudera/ganga/sample1.txt
[cloudera@quickstart ~]$ hdfs dfs -rmdir /user/cloudera/ganga
rmdir: `/user/cloudera/ganga': Directory is not empty
[cloudera@quickstart ~]$ hdfs dfs -rm /user/cloudera/ganga/sample1.txt
Deleted /user/cloudera/ganga/sample1.txt
[cloudera@quickstart ~]$ hdfs dfs -rmdir /user/cloudera/ganga
[cloudera@quickstart ~]$
```

9) Hdfs dfs -cp



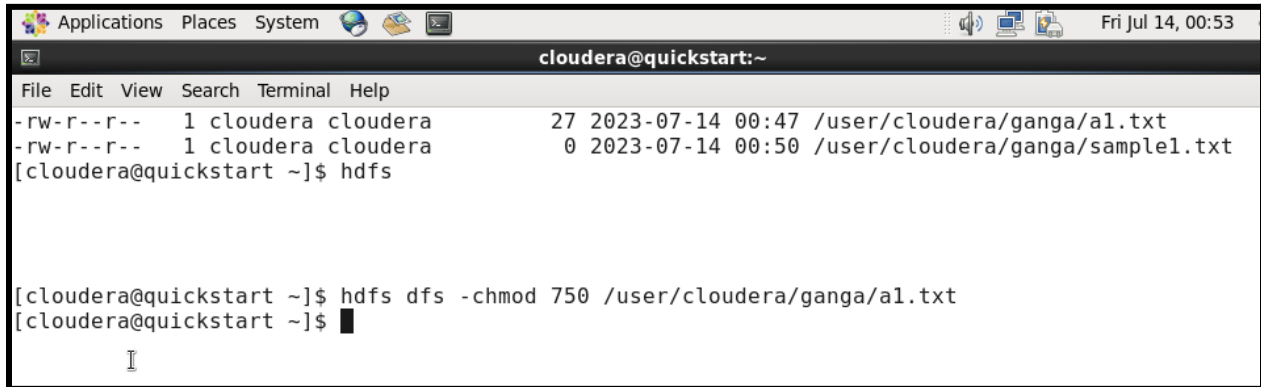
```
Applications Places System cloudera@quickstart:~ Fri Jul 14, 00:50
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hdfs dfs -cp /user/cloudera/gangal/sample1.txt /user/cloudera/ganga/
[cloudera@quickstart ~]$
```

10) Hdfs dfs -mv



```
Applications Places System cloudera@quickstart:~ Fri Jul 14, 00:51
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hdfs dfs -cp /user/cloudera/gangal/sample1.txt /user/cloudera/ganga/
[cloudera@quickstart ~]$ hdfs dfs -mv /user/cloudera/gangal/a1.txt /user/cloudera/ganga/
[cloudera@quickstart ~]$ hdfs dfs -ls /user/cloudera/ganga/
Found 2 items
-rw-r--r-- 1 cloudera cloudera 27 2023-07-14 00:47 /user/cloudera/ganga/a1.txt
-rw-r--r-- 1 cloudera cloudera 0 2023-07-14 00:50 /user/cloudera/ganga/sample1.txt
[cloudera@quickstart ~]$
```

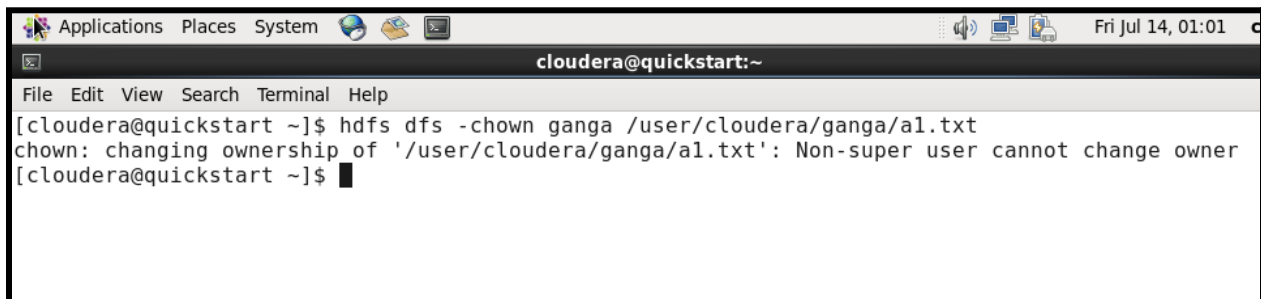
11) Hdfs dfs -chmod



A terminal window titled "cloudera@quickstart:~" with a menu bar (File, Edit, View, Search, Terminal, Help) and a system bar (Applications, Places, System, Fri Jul 14, 00:53). The terminal displays the output of the 'ls' command, showing two files: a1.txt and sample1.txt, both owned by cloudera and having permissions -rw-r--r--. Below this, the command 'hdfs dfs -chmod 750 /user/cloudera/ganga/a1.txt' is entered and executed, resulting in a blank line.

```
cloudera@quickstart:~  
File Edit View Search Terminal Help  
-rw-r--r-- 1 cloudera cloudera 27 2023-07-14 00:47 /user/cloudera/ganga/a1.txt  
-rw-r--r-- 1 cloudera cloudera 0 2023-07-14 00:50 /user/cloudera/ganga/sample1.txt  
[cloudera@quickstart ~]$ hdfs  
  
[cloudera@quickstart ~]$ hdfs dfs -chmod 750 /user/cloudera/ganga/a1.txt  
[cloudera@quickstart ~]$
```

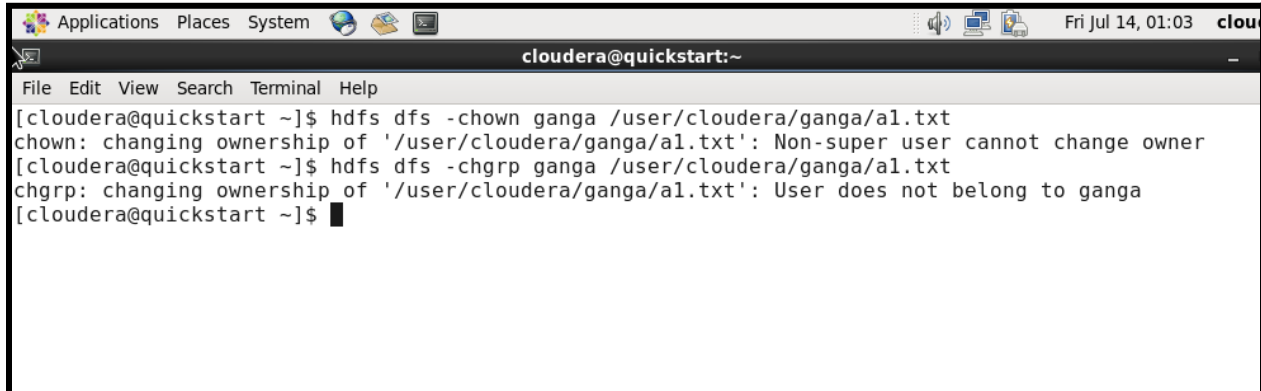
12) Hdfs dfs -chown



A terminal window titled "cloudera@quickstart:~" with a menu bar (File, Edit, View, Search, Terminal, Help) and a system bar (Applications, Places, System, Fri Jul 14, 01:01). The terminal shows the command 'hdfs dfs -chown ganga /user/cloudera/ganga/a1.txt' being entered. The output is an error message: "chown: changing ownership of '/user/cloudera/ganga/a1.txt': Non-super user cannot change owner".

```
cloudera@quickstart:~  
File Edit View Search Terminal Help  
[cloudera@quickstart ~]$ hdfs dfs -chown ganga /user/cloudera/ganga/a1.txt  
chown: changing ownership of '/user/cloudera/ganga/a1.txt': Non-super user cannot change owner  
[cloudera@quickstart ~]$
```

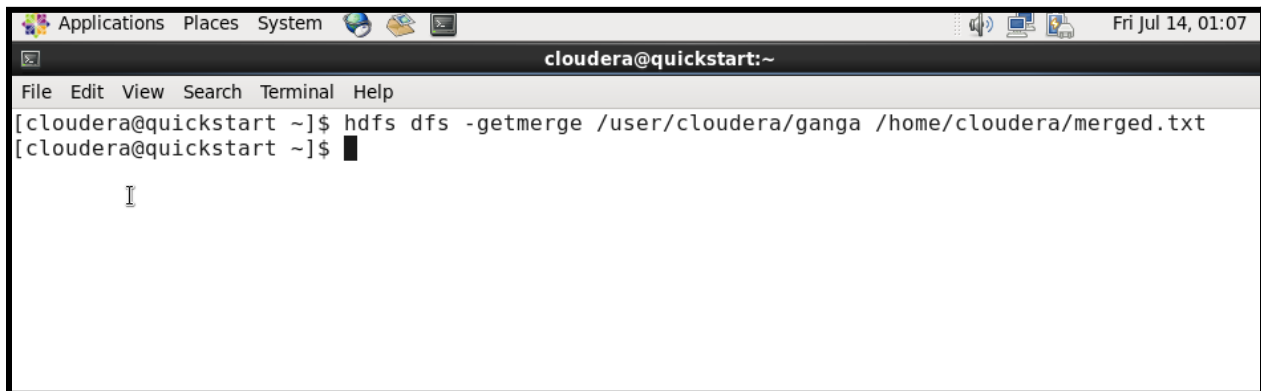
13) Hdfs dfs -chgrp



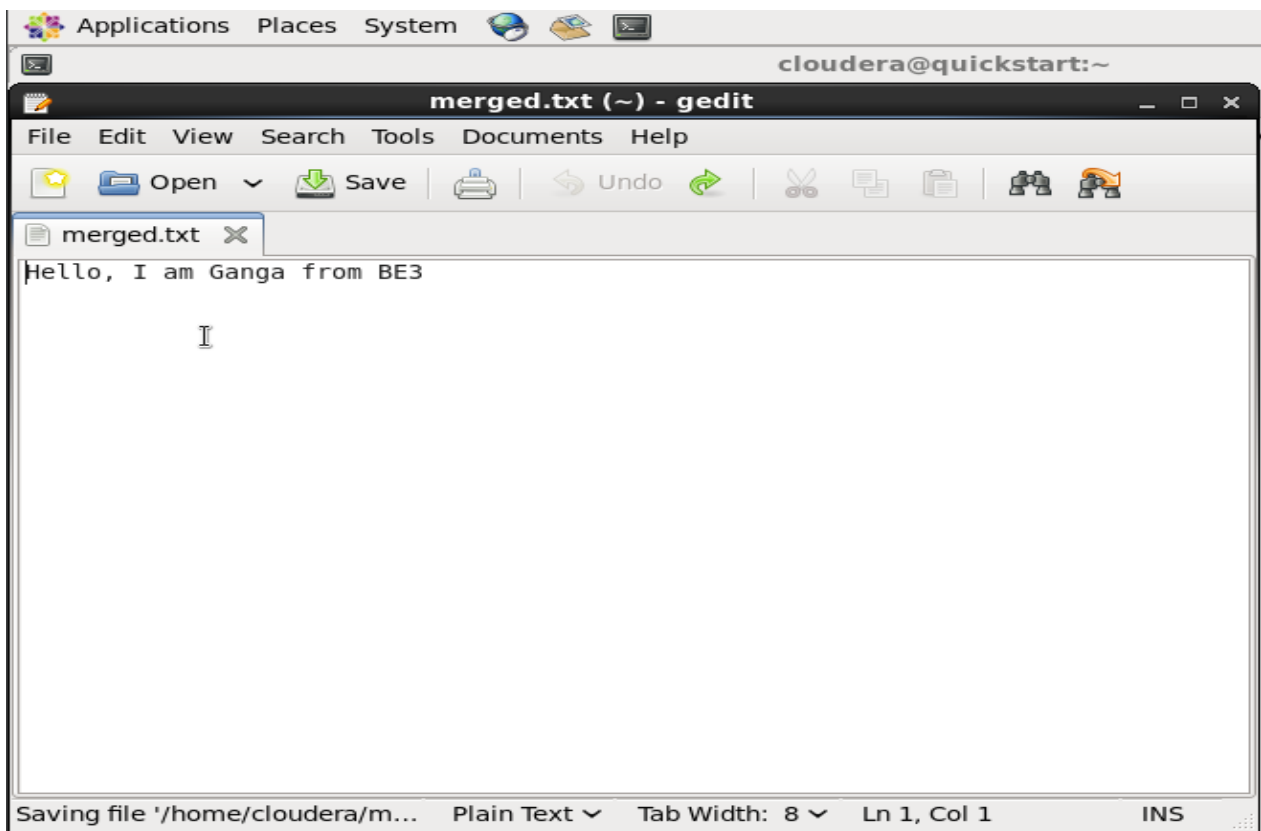
A terminal window titled "cloudera@quickstart:~" with a menu bar (File, Edit, View, Search, Terminal, Help) and a system bar (Applications, Places, System, Fri Jul 14, 01:03). The terminal shows two commands: 'hdfs dfs -chown ganga /user/cloudera/ganga/a1.txt' and 'hdfs dfs -chgrp ganga /user/cloudera/ganga/a1.txt'. Both result in error messages: "chown: changing ownership of '/user/cloudera/ganga/a1.txt': Non-super user cannot change owner" and "chgrp: changing ownership of '/user/cloudera/ganga/a1.txt': User does not belong to ganga".

```
cloudera@quickstart:~  
File Edit View Search Terminal Help  
[cloudera@quickstart ~]$ hdfs dfs -chown ganga /user/cloudera/ganga/a1.txt  
chown: changing ownership of '/user/cloudera/ganga/a1.txt': Non-super user cannot change owner  
[cloudera@quickstart ~]$ hdfs dfs -chgrp ganga /user/cloudera/ganga/a1.txt  
chgrp: changing ownership of '/user/cloudera/ganga/a1.txt': User does not belong to ganga  
[cloudera@quickstart ~]$
```

14) Hdfs dfs -getmerge

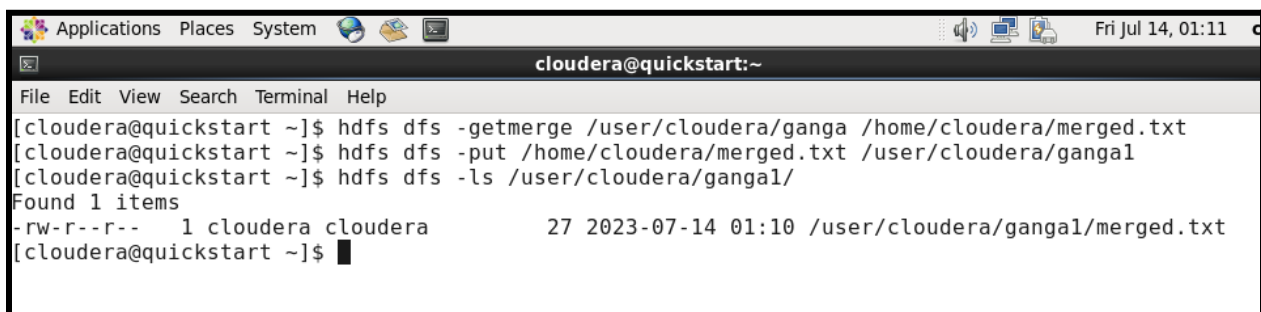


A terminal window titled "cloudera@quickstart:~" with a menu bar (File, Edit, View, Search, Terminal, Help). The command `hdfs dfs -getmerge /user/cloudera/ganga /home/cloudera/merged.txt` has been executed, and the prompt is now `[cloudera@quickstart ~]$`.



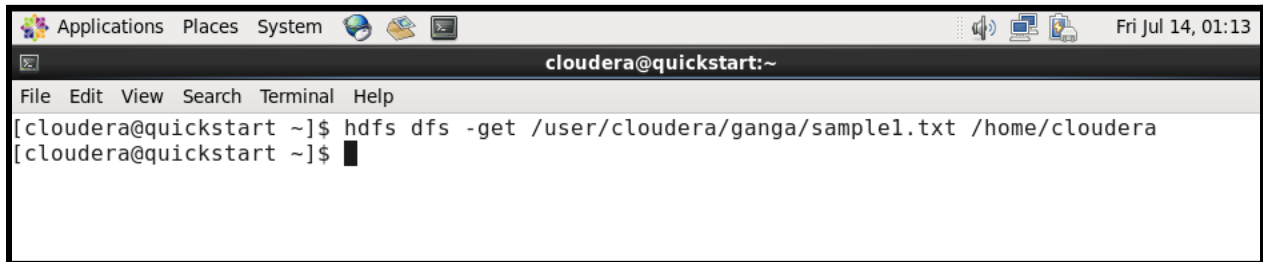
A Gedit editor window titled "merged.txt (~) - gedit" with a menu bar (File, Edit, View, Search, Tools, Documents, Help) and a toolbar. The file "merged.txt" is open, showing the text "Hello, I am Ganga from BE3". The status bar at the bottom indicates "Saving file '/home/cloudera/m...' Plain Text Tab Width: 8 Ln 1, Col 1 INS".

15) Hdfs dfs -put

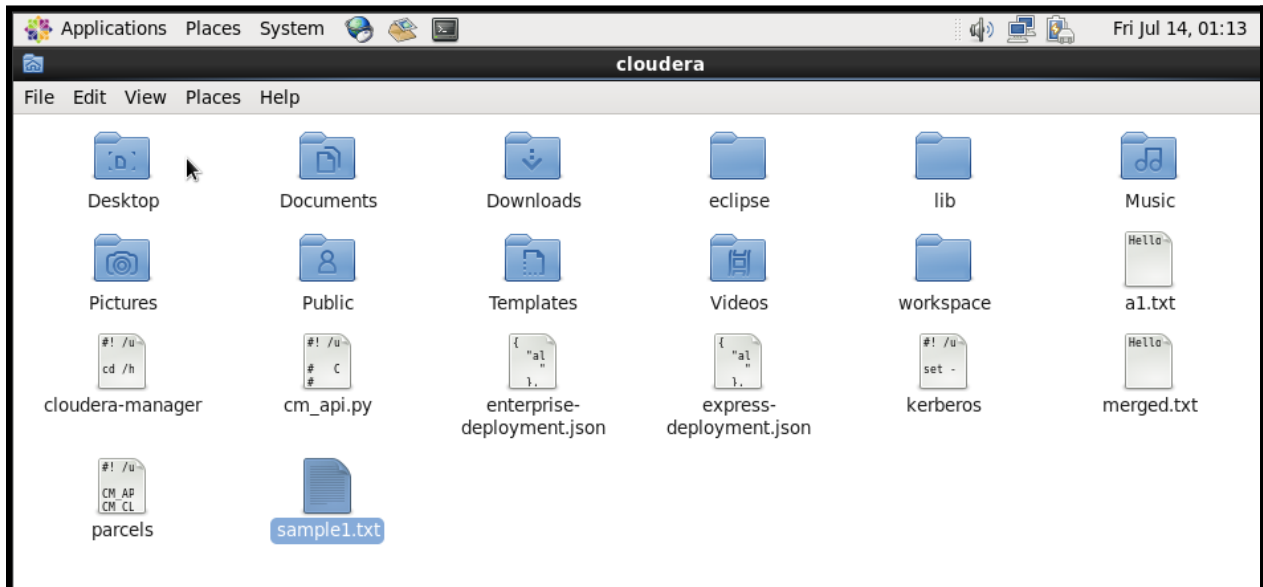


A terminal window titled "cloudera@quickstart:~" with a menu bar (File, Edit, View, Search, Terminal, Help). The following commands have been executed:
`hdfs dfs -getmerge /user/cloudera/ganga /home/cloudera/merged.txt`
`hdfs dfs -put /home/cloudera/merged.txt /user/cloudera/gangal`
`hdfs dfs -ls /user/cloudera/gangal/`
The output shows "Found 1 items" and a file listing:
-rw-r--r-- 1 cloudera cloudera 27 2023-07-14 01:10 /user/cloudera/gangal/merged.txt
The prompt is now `[cloudera@quickstart ~]$`.

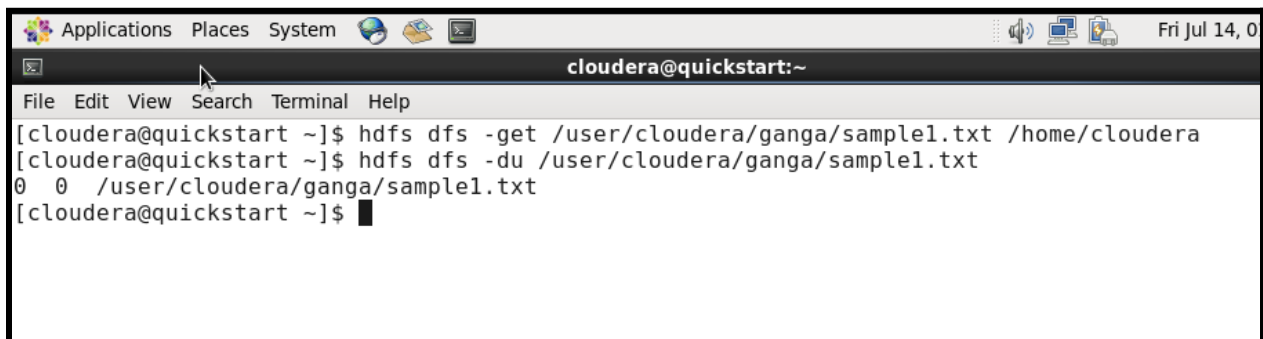
16) Hdfs dfs -get



A terminal window titled 'cloudera@quickstart:~' with a menu bar (File, Edit, View, Search, Terminal, Help). The command `hdfs dfs -get /user/cloudera/ganga/sample1.txt /home/cloudera` has been executed, and the prompt is now `[cloudera@quickstart ~]$`.

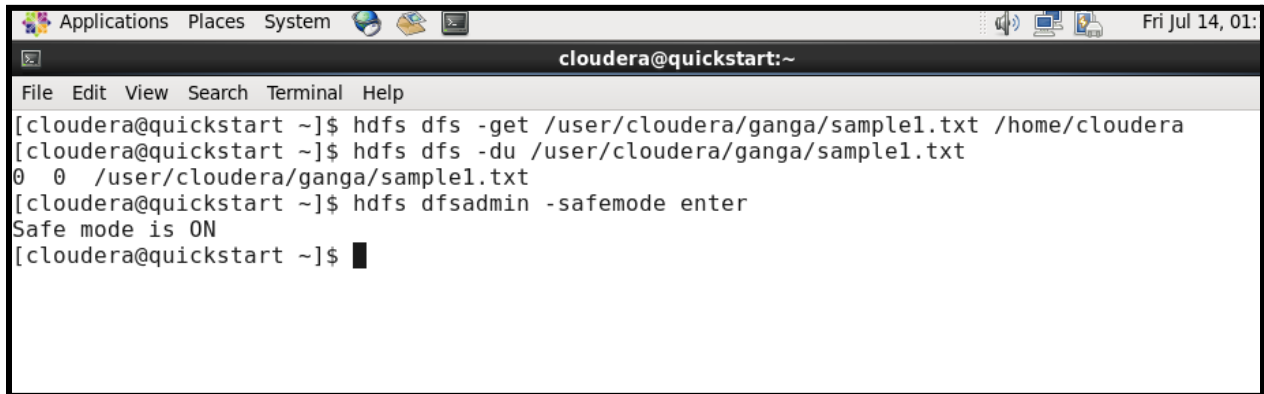


17) Hdfs dfs -du



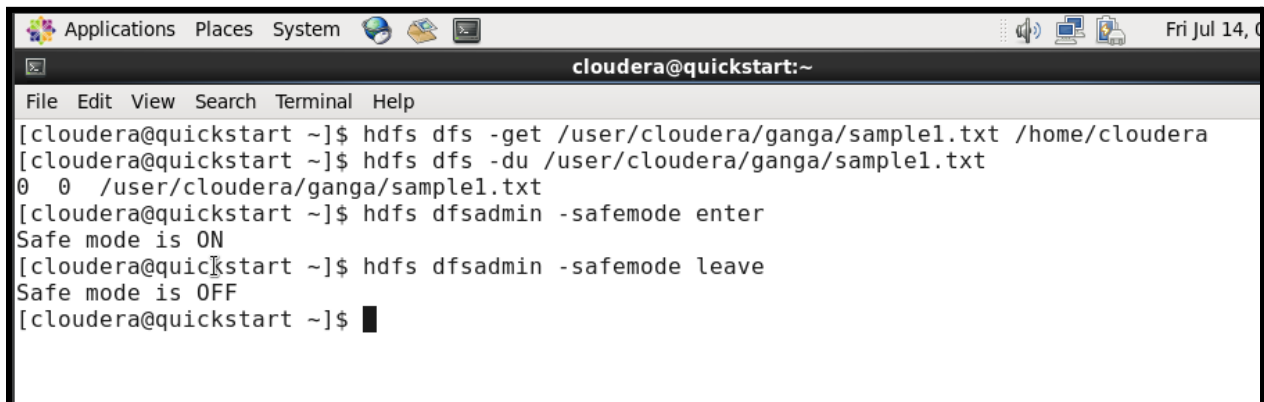
A terminal window titled 'cloudera@quickstart:~' with a menu bar (File, Edit, View, Search, Terminal, Help). The command `hdfs dfs -get /user/cloudera/ganga/sample1.txt /home/cloudera` has been executed. The next command `hdfs dfs -du /user/cloudera/ganga/sample1.txt` has been entered, and the output is `0 0 /user/cloudera/ganga/sample1.txt`. The prompt is now `[cloudera@quickstart ~]$`.

18) Hdfs dfs -safemode enter

A terminal window titled 'cloudera@quickstart:~' with a menu bar (File, Edit, View, Search, Terminal, Help) and a system bar (Applications, Places, System, icons, Fri Jul 14, 01:). The terminal shows the following commands and output:

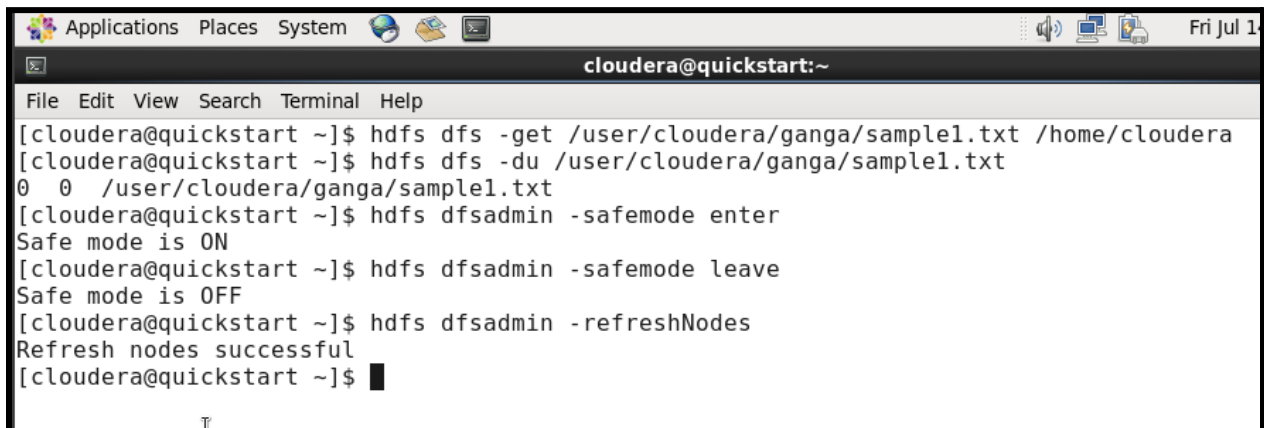
```
[cloudera@quickstart ~]$ hdfs dfs -get /user/cloudera/ganga/sample1.txt /home/cloudera
[cloudera@quickstart ~]$ hdfs dfs -du /user/cloudera/ganga/sample1.txt
0 0 /user/cloudera/ganga/sample1.txt
[cloudera@quickstart ~]$ hdfs dfsadmin -safemode enter
Safe mode is ON
[cloudera@quickstart ~]$
```

19) Hdfs dfs -safemode leave

A terminal window titled 'cloudera@quickstart:~' with a menu bar (File, Edit, View, Search, Terminal, Help) and a system bar (Applications, Places, System, icons, Fri Jul 14, 01:). The terminal shows the following commands and output:

```
[cloudera@quickstart ~]$ hdfs dfs -get /user/cloudera/ganga/sample1.txt /home/cloudera
[cloudera@quickstart ~]$ hdfs dfs -du /user/cloudera/ganga/sample1.txt
0 0 /user/cloudera/ganga/sample1.txt
[cloudera@quickstart ~]$ hdfs dfsadmin -safemode enter
Safe mode is ON
[cloudera@quickstart ~]$ hdfs dfsadmin -safemode leave
Safe mode is OFF
[cloudera@quickstart ~]$
```

20) Hdfs dfs -refreshNodes

A terminal window titled 'cloudera@quickstart:~' with a menu bar (File, Edit, View, Search, Terminal, Help) and a system bar (Applications, Places, System, icons, Fri Jul 14, 01:). The terminal shows the following commands and output:

```
[cloudera@quickstart ~]$ hdfs dfs -get /user/cloudera/ganga/sample1.txt /home/cloudera
[cloudera@quickstart ~]$ hdfs dfs -du /user/cloudera/ganga/sample1.txt
0 0 /user/cloudera/ganga/sample1.txt
[cloudera@quickstart ~]$ hdfs dfsadmin -safemode enter
Safe mode is ON
[cloudera@quickstart ~]$ hdfs dfsadmin -safemode leave
Safe mode is OFF
[cloudera@quickstart ~]$ hdfs dfsadmin -refreshNodes
Refresh nodes successful
[cloudera@quickstart ~]$
```