

Execute the following hdfs command and take a screen snapshot of the names of the files or directories that are listed (also indicating which is a file and which a directory):

```
hadoop fs -ls /
```

maria_dev@sandbox-hdp:~

```
mkdir: cannot change permissions of '/dev/shm': Permission denied
mkdir: cannot create directory '/dev/mqueue': File exists
'C:\WINDOWS\system32\drivers\etc\hosts' -> '/etc/hosts'
/usr/bin/cp: cannot create regular file '/etc/hosts': File exists
'C:\WINDOWS\system32\drivers\etc\protocols' -> '/etc/protocols'
'C:\WINDOWS\system32\drivers\etc\services' -> '/etc/services'
/usr/bin/cp: cannot create regular file '/etc/services': File exists
'C:\WINDOWS\system32\drivers\etc\networks' -> '/etc/networks'

Ruchi@DESKTOP-UTFB8FE MINGW64 ~
$ ssh -p 2222 maria_dev@localhost
The authenticity of host '[localhost]:2222 ([::1]:2222)' can't be established.
RSA key fingerprint is SHA256:oCHVvt8XBDItJbJH0XExlheP093VcXJQGHx5WdiMhLE.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '[localhost]:2222' (RSA) to the list of known hosts.
maria_dev@localhost's password:
Last login: Sun Jan 27 21:40:09 2019 from 172.17.0.1
[maria_dev@sandbox-hdp ~]$ hadoop fs -ls /
Found 13 items
drwxrwxrwx - yarn      hadoop      0 2018-09-03 02:58 /app-logs
drwxr-xr-x - hdfs      hdfs      0 2018-02-01 10:32 /apps
drwxr-xr-x - yarn      hadoop      0 2018-02-01 10:24 /ats
-rw-r--r-- 1 maria_dev hdfs      41 2019-01-27 01:11 /csp554doc.txt
drwxr-xr-x - hdfs      hdfs      0 2018-02-01 10:39 /demo
drwxr-xr-x - hdfs      hdfs      0 2018-02-01 10:24 /hdp
drwx----- - livy      hdfs      0 2018-02-01 10:27 /livy2-recovery
drwxr-xr-x - mapred    hdfs      0 2018-02-01 10:24 /mapred
drwxrwxrwx - mapred    hadoop      0 2018-02-01 10:25 /mr-history
drwxr-xr-x - hdfs      hdfs      0 2018-02-01 10:24 /ranger
drwxrwxrwx - spark     hadoop      0 2019-01-27 21:48 /spark2-history
drwxrwxrwx - hdfs      hdfs      0 2018-09-28 14:49 /tmp
drwxr-xr-x - hdfs      hdfs      0 2019-01-23 22:56 /user
[maria_dev@sandbox-hdp ~]$ |
```

```

maria_dev@sandbox-hdp:~
mkdir: cannot change permissions of '/dev/shm': Permission denied
mkdir: cannot create directory '/dev/mqueue': File exists
'C:\WINDOWS\system32\drivers\etc\hosts' -> '/etc/hosts'
/usr/bin/cp: cannot create regular file '/etc/hosts': File exists
'C:\WINDOWS\system32\drivers\etc\protocol' -> '/etc/protocols'
'C:\WINDOWS\system32\drivers\etc\services' -> '/etc/services'
/usr/bin/cp: cannot create regular file '/etc/services': File exists
'C:\WINDOWS\system32\drivers\etc\networks' -> '/etc/networks'

Ruchi@DESKTOP-UTFB8FE MINGW64 ~
$ ssh -p 2222 maria_dev@localhost
The authenticity of host '[localhost]:2222 ([::1]:2222)' can't be established.
RSA key fingerprint is SHA256:0CHVvt8XBDItJbjH0XExlHePO93VcxJQGHx5WdiMhLE.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '[localhost]:2222' (RSA) to the list of known hosts.
maria_dev@localhost's password:
Last login: Sun Jan 27 21:40:09 2019 from 172.17.0.1
[maria_dev@sandbox-hdp ~]$ hadoop fs -ls /
Found 13 items
drwxrwxrwx - yarn hadoop 0 2018-09-03 02:58 /app-logs
drwxr-xr-x - hdfs hdfs 0 2018-02-01 10:32 /apps
drwxr-xr-x - yarn hadoop 0 2018-02-01 10:24 /ats
-rw-r--r-- 1 maria_dev hdfs 41 2019-01-27 01:11 /csp554doc.txt — File
drwxr-xr-x - hdfs hdfs 0 2018-02-01 10:39 /demo
drwxr-xr-x - hdfs hdfs 0 2018-02-01 10:24 /hdp
drwx----- - livy hdfs 0 2018-02-01 10:27 /livy2-recovery
drwxr-xr-x - mapred hdfs 0 2018-02-01 10:24 /mapred
drwxrwxrwx - mapred hadoop 0 2018-02-01 10:25 /mr-history
drwxr-xr-x - hdfs hdfs 0 2018-02-01 10:24 /ranger
drwxrwxrwx - spark hadoop 0 2019-01-27 21:48 /spark2-history
drwxrwxrwx - hdfs hdfs 0 2018-09-28 14:49 /tmp
drwxr-xr-x - hdfs hdfs 0 2019-01-23 22:56 /user
[maria_dev@sandbox-hdp ~]$ |

```

Remaining are Directories

Command : hadoop fs -ls /

Execute a command (you needed to figure out which one) to list the files and directories under the hdfs directory listed below:

/user

Write down the command you executed and also take a screen snapshot of names of the files or directories that are listed.

```

[maria_dev@sandbox-hdp ~]$ hadoop fs -ls /user
Found 15 items
drwxr-xr-x - admin hdfs 0 2018-02-01 10:47 /user/admin
drwxrwx--- - ambari-qa hdfs 0 2018-02-01 10:24 /user/ambari-qa
drwxr-xr-x - amy_ds hdfs 0 2018-02-01 10:41 /user/amy_ds
drwxr-xr-x - maria_dev hdfs 0 2018-09-13 15:35 /user/cs595
drwxr-xr-x - maria_dev hdfs 0 2019-01-27 21:51 /user/csp554
drwxr-xr-x - hbase hdfs 0 2018-02-01 10:24 /user/hbase
drwxr-xr-x - hcat hdfs 0 2018-02-01 10:28 /user/hcat
drwxr-xr-x - hive hdfs 0 2018-02-01 10:46 /user/hive
drwxr-xr-x - holger_gov hdfs 0 2018-02-01 10:42 /user/holger_gov
drwxrwxr-x - livy hdfs 0 2018-02-01 10:27 /user/livy
drwxr-xr-x - maria_dev hdfs 0 2018-09-13 01:42 /user/maria_dev
drwxrwxr-x - oozie hdfs 0 2018-02-01 10:29 /user/oozie
drwxr-xr-x - raj_ops hdfs 0 2018-02-01 10:43 /user/raj_ops
drwxrwxr-x - spark hdfs 0 2018-02-01 10:25 /user/spark
drwxr-xr-x - zeppelin hdfs 0 2018-02-01 10:26 /user/zeppelin
[maria_dev@sandbox-hdp ~]$ |

```

Command: `hadoop fs -ls /user`

Execute a command to create the following directory:

`/user/csp554/<yournamenospaces>`

Note: I created the hdfs directory `/user/csp554` for you already.

Record the command you executed and include it in your assignment submission.

```
[maria_dev@sandbox-hdp ~]$ hadoop fs -ls /user/csp554
Found 16 items
drwxr-xr-x - maria_dev hdfs 0 2019-01-26 20:35 /user/csp554/AbhishekVandadi
drwxr-xr-x - maria_dev hdfs 0 2019-01-26 20:02 /user/csp554/KarthikMahesh
drwxr-xr-x - maria_dev hdfs 0 2019-01-26 20:03 /user/csp554/Sara
drwxr-xr-x - maria_dev hdfs 0 2019-01-26 20:12 /user/csp554/amitdeb
-rw-r--r-- 1 maria_dev hdfs 9454 2019-01-21 22:14 /user/csp554/csp554doc2.txt
drwxr-xr-x - maria_dev hdfs 0 2019-01-25 03:49 /user/csp554/danielwojtowicz
drwxr-xr-x - maria_dev hdfs 0 2019-01-27 03:31 /user/csp554/deepakgovindmukundan
drwxr-xr-x - maria_dev hdfs 0 2019-01-27 03:37 /user/csp554/harshitha_rangaswamy
drwxr-xr-x - maria_dev hdfs 0 2019-01-27 22:02 /user/csp554/hiralvyas
drwxr-xr-x - maria_dev hdfs 0 2019-01-23 23:07 /user/csp554/jayrodge
drwxr-xr-x - maria_dev hdfs 0 2019-01-27 22:01 /user/csp554/krusha
drwxr-xr-x - maria_dev hdfs 0 2019-01-27 02:35 /user/csp554/rutvikmargeshbhaipathak
drwxr-xr-x - maria_dev hdfs 0 2019-01-27 01:57 /user/csp554/sabareeshsuresh
drwxr-xr-x - maria_dev hdfs 0 2019-01-26 19:00 /user/csp554/saurabhpatni
drwxr-xr-x - maria_dev hdfs 0 2019-01-27 02:48 /user/csp554/snehalprajapati
drwxr-xr-x - maria_dev hdfs 0 2019-01-27 01:06 /user/csp554/yaji
[maria_dev@sandbox-hdp ~]$ hadoop fs -mkdir /user/csp554/RuchiSharma
[maria_dev@sandbox-hdp ~]$ hadoop fs -ls /user/csp554
Found 17 items
drwxr-xr-x - maria_dev hdfs 0 2019-01-26 20:35 /user/csp554/AbhishekVandadi
drwxr-xr-x - maria_dev hdfs 0 2019-01-26 20:02 /user/csp554/KarthikMahesh
drwxr-xr-x - maria_dev hdfs 0 2019-01-27 22:07 /user/csp554/RuchiSharma
drwxr-xr-x - maria_dev hdfs 0 2019-01-26 20:03 /user/csp554/Sara
drwxr-xr-x - maria_dev hdfs 0 2019-01-26 20:12 /user/csp554/amitdeb
-rw-r--r-- 1 maria_dev hdfs 9454 2019-01-21 22:14 /user/csp554/csp554doc2.txt
drwxr-xr-x - maria_dev hdfs 0 2019-01-25 03:49 /user/csp554/danielwojtowicz
drwxr-xr-x - maria_dev hdfs 0 2019-01-27 03:31 /user/csp554/deepakgovindmukundan
drwxr-xr-x - maria_dev hdfs 0 2019-01-27 03:37 /user/csp554/harshitha_rangaswamy
drwxr-xr-x - maria_dev hdfs 0 2019-01-27 22:02 /user/csp554/hiralvyas
drwxr-xr-x - maria_dev hdfs 0 2019-01-23 23:07 /user/csp554/jayrodge
drwxr-xr-x - maria_dev hdfs 0 2019-01-27 22:01 /user/csp554/krusha
drwxr-xr-x - maria_dev hdfs 0 2019-01-27 02:35 /user/csp554/rutvikmargeshbhaipathak
drwxr-xr-x - maria_dev hdfs 0 2019-01-27 01:57 /user/csp554/sabareeshsuresh
drwxr-xr-x - maria_dev hdfs 0 2019-01-26 19:00 /user/csp554/saurabhpatni
drwxr-xr-x - maria_dev hdfs 0 2019-01-27 02:48 /user/csp554/snehalprajapati
drwxr-xr-x - maria_dev hdfs 0 2019-01-27 01:06 /user/csp554/yaji
[maria_dev@sandbox-hdp ~]$ |
```

Command: `hadoop fs -mkdir /user/csp554/RuchiSharma`

Execute a command that copies a given local file (that I already created for you) to the given hdfs directory :

Local file: `/home/maria_dev/csp554doc.txt`

HDFS directory: `/user/csp554/<yournamenospaces>`

Record the command you executed and include it in your assignment submission.

```
[maria_dev@sandbox-hdp ~]$ hadoop fs -copyFromLocal /home/maria_dev/csp554doc.txt
t /user/csp554/RuchiSharma
[maria_dev@sandbox-hdp ~]$ hadoop fs -ls /user/csp554/RuchiSharma
Found 1 items
-rw-r--r-- 1 maria_dev hdfs 41 2019-01-27 22:26 /user/csp554/RuchiShar
ma/csp554doc.txt
[maria_dev@sandbox-hdp ~]$ |
```

Command : `hadoop fs -copyFromLocal /home/maria_dev/csp554doc.txt /user/csp554/RuchiSharma`

5. Copy the given file from one hdfs directory to another hdfs directory and write down the command

Source hdfs file: /user/csp554/csp554doc2.txt

Note, I created this file for you already

Destination HDFS directory: /user/csp554/<yournamenospaces>

Record the command you executed and include it in your assignment submission.

```
[maria_dev@sandbox-hdp ~]$ hadoop fs -cp /user/csp554/csp554doc2.txt /user/csp554/RuchiSharma
[maria_dev@sandbox-hdp ~]$ hadoop fs -ls /user/csp554/RuchiSharma
Found 2 items
-rw-r--r--  1 maria_dev hdfs      41 2019-01-27 22:26 /user/csp554/RuchiSharma/csp554doc.txt
-rw-r--r--  1 maria_dev hdfs  9454 2019-01-27 22:32 /user/csp554/RuchiSharma/csp554doc2.txt
[maria_dev@sandbox-hdp ~]$ |
```

Command :

`hadoop fs -cp /user/csp554/csp554doc2.txt /user/csp554/RuchiSharma`

6. Copy the local file firstname_lastname.txt to the maria_dev account

```
Ruchi@DESKTOP-UTFB8FE MINGW64 ~
$ scp -P 2222 ~/Desktop/BigData/Ruchi_Sharma.txt maria_dev@localhost:/home/maria_dev
maria_dev@localhost's password:
Permission denied, please try again.
maria_dev@localhost's password:
Ruchi_Sharma.txt                                     100% 12    0.2KB
Ruchi@DESKTOP-UTFB8FE MINGW64 ~
$ |
```

Command:

**`scp -P 2222 ~/Desktop/BigData/Ruchi_Sharma.txt
maria_dev@localhost:/home/maria_dev`**

from your hadoop maria_dev account, execute a command that copies the
firstname_lastname.txt file to the given hdfs directory :

Local file: /home/maria_dev/firstname_lastname.txt

HDFS directory: /user/csp554/<yournamenospaces>

Record the command you executed and take a screenshot of all files in the directory

“/user/csp554/<yournamenospaces>”

```
[maria_dev@sandbox-hdp ~]$ hadoop fs -copyFromLocal /home/maria_dev/Ruchi_Sharma.txt /user/csp554/RuchiSharma
[maria_dev@sandbox-hdp ~]$ hadoop fs -ls /user/csp554/RuchiSharma
Found 3 items
-rw-r--r-- 1 maria_dev hdfs      12 2019-01-27 23:03 /user/csp554/RuchiSharma/Ruchi_Sharma.txt
-rw-r--r-- 1 maria_dev hdfs      41 2019-01-27 22:26 /user/csp554/RuchiSharma/csp554doc.txt
-rw-r--r-- 1 maria_dev hdfs  9454 2019-01-27 22:32 /user/csp554/RuchiSharma/csp554doc2.txt
[maria_dev@sandbox-hdp ~]$ |
```

Command: `hadoop fs -copyFromLocal /home/maria_dev/Ruchi_Sharma.txt /user/csp554/RuchiSharma`