

SUSHMITHA P.A

1NT19IS170

C2

HADOOP COMMANDS

Checking whether Hadoop is installed

>\$ `hadoop version`

>\$ `start-all.sh`

>\$ `jps`

```
hadoop admin1-HP-280-G4-MT-Business-PC ~$ hadoop version
Hadoop 3.2.1
Source code repository https://gitbox.apache.org/repos/asf/hadoop.git -r b3cbbb467e22ea829b3808f4b7b01d07e0bf3842
Compiled by rohitsharmaks on 2019-09-10T15:56Z
Compiled with protoc 2.5.0
From source with checksum 776eaf9eee9c0ffc370bcbc1888737
This command was run using /home/hadoop/hadoop-3.2.1/share/hadoop/common/hadoop-common-3.2.1.jar
```

```
hadoop admin1-HP-280-G4-MT-Business-PC ~$ start-all.sh
WARNING: Attempting to start all Apache Hadoop daemons as hadoop in 10 seconds.
WARNING: This is not a recommended production deployment configuration.
WARNING: Use CTRL-C to abort.
Starting namenodes on [localhost]
Starting datanodes
Starting secondary namenodes [admin1-HP-280-G4-MT-Business-PC]
Starting resourcemanager
Starting nodemanagers

hadoop admin1-HP-280-G4-MT-Business-PC ~$ jps
7264 NameNode
7987 NodeManager
7411 DataNode
7652 SecondaryNameNode
8330 Jps
7838 ResourceManager
```

Creating a directory named by my name

>\$ `hadoop fs -mkdir sushmitha`

```
hadoop admin1-HP-280-G4-MT-Business-PC ~$ hadoop fs -mkdir sushmitha
```

Listing all the files and directories present

>\$ `hadoop fs -ls`

```
hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -ls
Found 2 items
drwxr-xr-x - hadoop supergroup      0 2022-05-24 09:18 INT19IS005
drwxr-xr-x - hadoop supergroup      0 2022-05-26 15:27 sushmitha
```

Creating the empty file

>\$ `hadoop fs -touchz sush.txt`

```
hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -touchz sush.txt

hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -ls
Found 3 items
drwxr-xr-x - hadoop supergroup      0 2022-05-24 09:18 INT19IS005
-rw-r--r-- 1 hadoop supergroup      0 2022-05-26 15:28 sush.txt
drwxr-xr-x - hadoop supergroup      0 2022-05-26 15:27 sushmitha
```

Create a file in your local system to terminal and cat command

> \$ `hadoop fs -copyFromLocal sush.txt sp.txt`

```
hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -copyFromLocal sush.txt sp.txt
2022-05-26 15:34:10,055 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteHostTrusted = false
```

>\$ `hadoop fs -cat sp.txt`

```
hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -cat sp.txt
2022-05-26 15:34:24,453 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteHostTrusted = false
Hello sush
```

Copy to local

>\$ `hadoop fs -copyToLocal sush.txt sp.txt`

```
hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -copyFromLocal sush.txt sp.txt
2022-05-26 15:34:10,055 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -cat sp.txt
2022-05-26 15:34:24,453 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
Hello sush
```

Creating another directory by usn

>\$ `hadoop fs -mkdir 1nt19is170`

```
hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -mkdir 1nt19is170

hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -ls
Found 5 items
drwxr-xr-x - hadoop supergroup      0 2022-05-24 09:18 1nt19is005
drwxr-xr-x - hadoop supergroup      0 2022-05-26 15:36 1nt19is170
-rw-r--r-- 1 hadoop supergroup    14 2022-05-26 15:34 sp.txt
-rw-r--r-- 1 hadoop supergroup      0 2022-05-26 15:28 sush.txt
drwxr-xr-x - hadoop supergroup      0 2022-05-26 15:27 sushmitha
```

Moving usn directory inside name directory

>\$ `hadoop fs -mv 1nt19is170 sush`

```
hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -mv 1nt19is170 sush
```

Coping text from one file to another

>\$ `hadoop fs -cp sp.txt s5.txt`

```
hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -cp sp.txt s5.txt
2022-05-26 15:43:00,618 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
2022-05-26 15:43:00,707 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -cat s5.txt
2022-05-26 15:43:12,328 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
Hello sush
```

Size of the file and directory

>\$ `hadoop fs -du`

```
hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -du
0 0 INT19IS005
0 0 s3.txt
0 0 s4.txt
14 14 sp.txt
0 0 sush
0 0 sush.txt
0 0 sushmitha
```

Delete the files

>\$ `hadoop fs -rmr s3.txt`

```
hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -ls
Found 8 items
drwxr-xr-x - hadoop supergroup 0 2022-05-24 09:18 INT19IS005
-rw-r--r-- 1 hadoop supergroup 0 2022-05-26 15:40 s3.txt
-rw-r--r-- 1 hadoop supergroup 0 2022-05-26 15:42 s4.txt
-rw-r--r-- 1 hadoop supergroup 14 2022-05-26 15:43 s5.txt
-rw-r--r-- 1 hadoop supergroup 14 2022-05-26 15:34 sp.txt
drwxr-xr-x - hadoop supergroup 0 2022-05-26 15:36 sush
-rw-r--r-- 1 hadoop supergroup 0 2022-05-26 15:28 sush.txt
drwxr-xr-x - hadoop supergroup 0 2022-05-26 15:27 sushmitha

hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -rmr s3.txt
rmr: DEPRECATED: Please use '-rm -r' instead.
Deleted s3.txt

hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -ls
Found 7 items
drwxr-xr-x - hadoop supergroup 0 2022-05-24 09:18 INT19IS005
-rw-r--r-- 1 hadoop supergroup 0 2022-05-26 15:42 s4.txt
-rw-r--r-- 1 hadoop supergroup 14 2022-05-26 15:43 s5.txt
-rw-r--r-- 1 hadoop supergroup 14 2022-05-26 15:34 sp.txt
drwxr-xr-x - hadoop supergroup 0 2022-05-26 15:36 sush
-rw-r--r-- 1 hadoop supergroup 0 2022-05-26 15:28 sush.txt
drwxr-xr-x - hadoop supergroup 0 2022-05-26 15:27 sushmitha
```

Total size of all files and directory

>\$ `hadoop fs -dus`

```
hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -dus
dus: DEPRECATED: Please use 'du -s' instead.
28 28 .
```

Check time and date of particular file

>\$ `hadoop fs -stat sushmitha`

```
hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -stat sushmitha
2022-05-26 09:57:07
```

Moving files to directory

>\$ `hadoop fs -mv s4.txt sushmitha`

```
hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -mv s4.txt sushmitha
```

```
hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -ls sushmitha
Found 1 items
-rw-r--r-- 1 hadoop supergroup 0 2022-05-26 15:42 sushmitha/s4.txt
```

Checking files under particular directory

>\$ `hadoop fs -ls sushmitha`

```
hadoop admin1-HP-280-G4-MT-Business-PC ~ hadoop fs -ls sushmitha
Found 1 items
-rw-r--r-- 1 hadoop supergroup 0 2022-05-26 15:42 sushmitha/s4.txt
```