

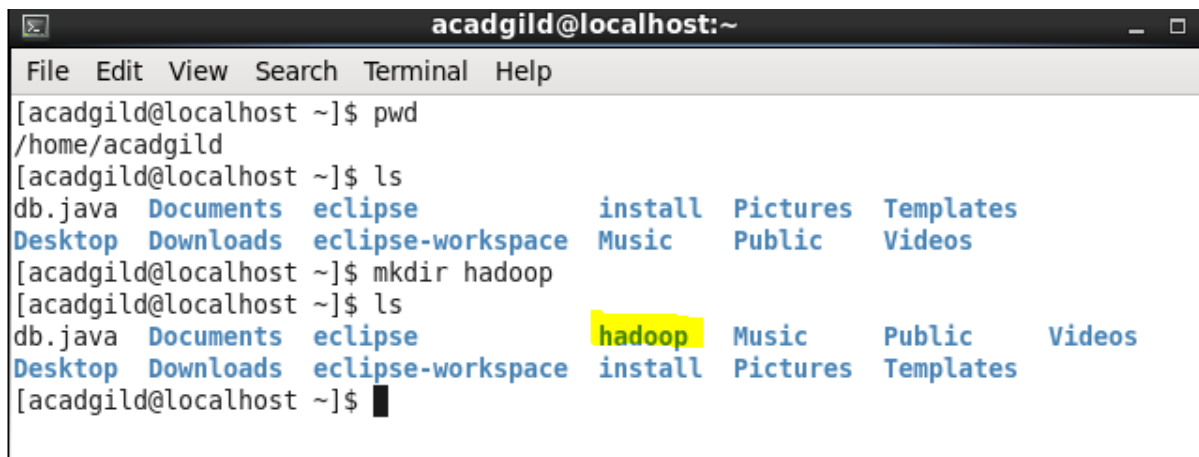
## Hadoop Session-2 Assignment

### Task 1:

Check whether /user/acadgild directory exists or not in the HDFS.

If it doesn't exist, then create this.

Create a directory /user/acadgild/hadoop.

A terminal window titled 'acadgild@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the following commands and output:

```
[acadgild@localhost ~]$ pwd
/home/acadgild
[acadgild@localhost ~]$ ls
db.java  Documents  eclipse      install  Pictures  Templates
Desktop  Downloads  eclipse-workspace Music    Public    Videos
[acadgild@localhost ~]$ mkdir hadoop
[acadgild@localhost ~]$ ls
db.java  Documents  eclipse      hadoop    Music    Public    Videos
Desktop  Downloads  eclipse-workspace install  Pictures  Templates
[acadgild@localhost ~]$
```

Mkdir → command is used to create directory

### Task 2:

Create a file in HDFS under directory /user/acadgild/hadoop, with name word-count.txt.

Whatever we type on screen should get appended to the file.

Try to type (on screen) few lines from any online article or textbook.

```
acadgild@localhost:/
File Edit View Search Terminal Help
/home/acadgild/hadoop
[acadgild@localhost hadoop]$ ls -l
total 4
-rw-rw-r--. 1 acadgild acadgild 120 Jan 27 15:11 word-count.txt
[acadgild@localhost hadoop]$ cd /
[acadgild@localhost /]$ ls
bin  copyright  etc  lib  lost+found  misc  net  proc  sbin  srv  tmp  var
boot dev      home lib64 media  mnt  opt  root  selinux sys  usr
[acadgild@localhost /]$ pwd
/
[acadgild@localhost /]$ ls -l
total 102
dr-xr-xr-x.  2 root root  4096 Dec 27 18:30 bin
dr-xr-xr-x.  5 root root 1024 Jan  8 15:25 boot
-rw-r--r--.  1 root root   297 Nov 10 2016 copyright
drwxr-xr-x. 20 root root 3560 Jan 27 2018 dev
drwxr-xr-x. 119 root root 12288 Jan 27 14:24 etc
drwxr-xr-x.  3 root root  4096 Dec 27 17:01 home
dr-xr-xr-x. 11 root root  4096 Dec 27 16:54 lib
dr-xr-xr-x.  9 root root 12288 Jan  4 16:09 lib64
drwx-----.  2 root root 16384 Dec 27 16:50 lost+found
drwxr-xr-x.  2 root root  4096 Sep 23 2011 media
drwxr-xr-x.  2 root root    0 Jan 27 2018 misc
drwxr-xr-x.  2 root root  4096 Sep 23 2011 mnt

[acadgild@localhost ~]$ cd hadoop/
[acadgild@localhost hadoop]$ pwd
/home/acadgild/hadoop
[acadgild@localhost hadoop]$ nano word-count.txt
[acadgild@localhost hadoop]$ cat word-count.txt
a b c d E
E a b c d
b b a d d
a a c E E
b c c c d
d d d a a
d b b b c
c d d b a
a a c E E
a a c E E
c d d b a
c d d b a
[acadgild@localhost hadoop]$
```

Nano → command is used to create/open file

Task 3:

Create a file max-temp.txt in local FS.

Put some 10-15 records of date and temperature example:

dd-mm-yyyy,temperature

Example:

10-01-1990,10

10-02-1991,20

```
acadgild@localhost:~/hadoop
File Edit View Search Terminal Help
[acadgild@localhost ~]$ ls -l
total 108
-rw-rw-r--. 1 acadgild acadgild 55813 Dec 29 22:24 db.java
drwxr-xr-x. 3 acadgild acadgild 4096 Dec 29 15:58 Desktop
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Documents
drwxr-xr-x. 2 acadgild acadgild 4096 Jan 16 13:46 Downloads
drwxrwxr-x. 3 acadgild acadgild 4096 Dec 29 16:59 eclipse
drwxrwxr-x. 3 acadgild acadgild 4096 Jan 16 14:02 eclipse-workspace
drwxrwxrwx. 2 acadgild acadgild 4096 Jan 27 15:11 hadoop
drwxrwxr-x. 11 acadgild acadgild 4096 Jan 12 15:21 install
-rw-rw-r--. 1 acadgild acadgild 355 Jan 27 15:28 max-temp.txt
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Music
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Pictures
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Templates
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Videos
[acadgild@localhost ~]$ mv max-temp.txt hadoop
[acadgild@localhost ~]$ ls
db.java Documents eclipse hadoop Music Public Videos
Desktop Downloads eclipse-workspace install Pictures Templates
[acadgild@localhost ~]$ cd hadoop/
[acadgild@localhost hadoop]$ ls
max-temp.txt word-count.txt
[acadgild@localhost hadoop]$
```

Nano → command is used to create new file.

Task 4:

Change the permission of the file /user/acadgild/hadoop/max-temp.txt, such that only the owner and

the group members have full control over the file.

Others do not have any control over it.

```
acadgild@localhost:~/hadoop
File Edit View Search Terminal Help
lrwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Templates
lrwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Videos
[acadgild@localhost ~]$ mv max-temp.txt hadoop
[acadgild@localhost ~]$ ls
fb.java Documents eclipse hadoop Music Public Videos
Desktop Downloads eclipse-workspace install Pictures Templates
[acadgild@localhost ~]$ cd hadoop/
[acadgild@localhost hadoop]$ ls
max-temp.txt word-count.txt
[acadgild@localhost hadoop]$ ls -l
total 8
-rw-rw-r--. 1 acadgild acadgild 355 Jan 27 15:28 max-temp.txt
-rwxrwxrwx. 1 acadgild acadgild 120 Jan 27 15:11 word-count.txt
[acadgild@localhost hadoop]$ chmod 770 max-temp.txt
[acadgild@localhost hadoop]$ ls -l
total 8
-rwxrwx---. 1 acadgild acadgild 355 Jan 27 15:28 max-temp.txt
-rwxrwxrwx. 1 acadgild acadgild 120 Jan 27 15:11 word-count.txt
[acadgild@localhost hadoop]$ chmod u=rwx,g=rwx max-temp.txt
[acadgild@localhost hadoop]$ ls -l
total 8
-rwxrwx---. 1 acadgild acadgild 355 Jan 27 15:28 max-temp.txt
-rwxrwxrwx. 1 acadgild acadgild 120 Jan 27 15:11 word-count.txt
[acadgild@localhost hadoop]$
```

Chmod → command is used to change the permission for file / directory.

Permissions: RWX – is read, write and Exectute .

Options : -u – is user, -g- is group and -o- is others.