2. Опробовать консольные утилиты для работы с кластером

3.Создаем копируем и удаляем папку

```
Ð
student4 10@manager:-
 Turning username "student4_10".

Authenticating with public key "imported-openssh-key" from agent Last login: Mon May 25 18:03:49 2020 from 2.92.115.137

[student4_10@manager ~]$

[student4_10@manager ~]$ whoami
 | student4_10

| [student4_10@manager ~]$

| [student4_10@manager ~]$ hdfs dfs -mkdir /studenet4_10

| [student4_10@manager ~]$ -1s
0 2020-05-23 09:32 /0000
0 2020-05-23 17:10 /1234
0 2020-05-14 18:35 /ALI_folder
0 2020-03-28 13:10 /BD
                                                                                                                                              0 2020-05-14 18:48 /NetCat
0 2019-11-25 15:33 /acldir
                                                                                                                                             0 2019-11-25 15:33 /acldir

0 2020-05-25 19:08 /andrey

0 2020-04-08 06:13 /border

0 2019-12-03 11:19 /data

0 2020-04-02 08:53 /example

0 2020-05-06 22:09 /flume

0 2020-05-23 14:19 /folder0

0 2020-05-23 09:44 /folder0hdfs

0 2020-03-24 17:34 /folder_for_new

0 2020-03-24 17:34 /folder_for_new

0 2020-05-23 10:16 /home

0 2020-05-23 10:16 /home

0 2020-04-01 22:14 /hw1_3_14

0 2020-05-25 19:26 /lipin_a_s

0 2020-05-23 15:33 /lipin_a_s

0 2020-05-25 19:25 /lipin_a_s2folder
                                - hdfs supergroup
- student3_9 supergroup
- hdfs supergroup
- student3_10 supergroup
                                                                                                                                            0 2020-02-04 18:12 /newfolder
0 2020-03-23 14:34 /olha
0 2020-05-14 21:30 /opt
0 2020-03-16 07:46 /rozhkov_test
                                                                                                                                                                                                                                                                                                                                                   ^ № (с. Ф)) ENG 22:31 25.05.2020
   ## ## 🔒 🧲 🧱 室 🕦 🐠 🐠 🤣
                                                                                                                                                                                                                                                                                                                                                                                                                  83
```

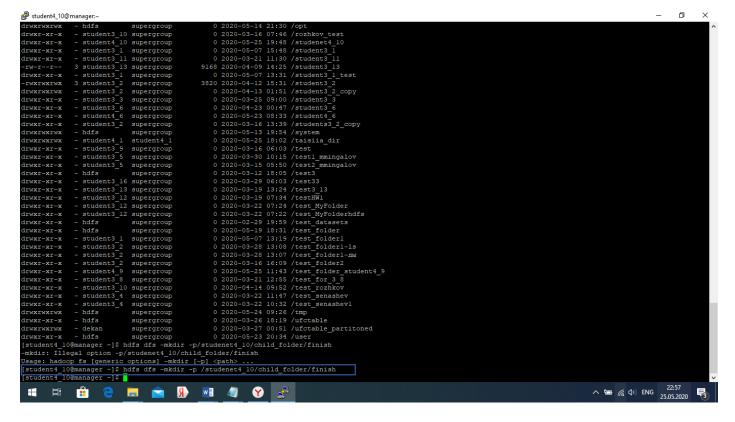
[student4\_10@manager ~]\$ hdfs dfs -mkdir /studenet4\_10

## Проверим

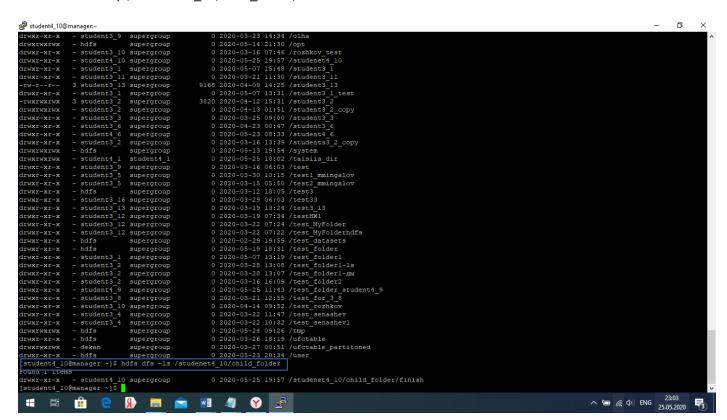
```
0 2020-05-23 15:33 /lipin_a_s2
0 2020-05-25 19:25 /lipin_a_s2folder_1
0 2020-02-04 18:12 /newfolder
0 2020-03-23 14:34 /olha
0 2020-05-14 21:30 /opt
0 2020-05-12 19:48 /studente1 10
0 2020-05-25 19:48 /studente1 11
0 2020-05-27 19:48 /studente1 11
0 2020-05-07 15:48 /studente1 13
0 2020-04-09 14:25 /studente1 13
0 2020-04-09 14:25 /studente1 13
0 2020-04-09 14:25 /studente1 12
0 2020-04-13 01:51 /studente1 2 copy
0 2020-04-13 01:51 /studente1 2 copy
0 2020-04-13 01:51 /studente1 3 2 copy
0 2020-04-13 01:51 /studente1 3 2 copy
0 2020-03-25 09:00 /studente 3 2 copy
0 2020-05-23 08:33 /studente 6 0 2020-05-23 19:54 /system
0 2020-05-25 18:02 /taisiia dir
0 2020-05-13 19:54 /system
0 2020-03-16 13:39 /studente 6 0 2020-03-16 10:15 /test1 mmingalov
0 2020-03-15 05:50 /test2
0 2020-03-10 10:15 /test2 mmingalov
0 2020-03-12 19:05 /test3
0 2020-03-19 13:24 /test3 13
0 2020-03-19 13:24 /test3 13
0 2020-03-29 06:03 /test3
0 2020-03-29 07:22 /test_MyFolder
0 2020-03-20 7:22 /test_MyFolder
0 2020-03-20 7:22 /test_MyFolder
0 2020-03-20 7:24 /test MyFolder
0 2020-03-28 13:07 /test_folder1
0 2020-03-21 12:55 /test_folder1
0 2020-03-22 11:47 /test_senashev
0 2020-03-22 11:47 /test_senashev
0 2020-03-22 10:05 /test for 3 8
0 2020-03-22 11:47 /test_senashev
0 2020-03-22 10:05 /test_folder1
0 2020-03-22 11:47 /test_senashev
0 2020-03-22 10:05 /test_genashev
0 2020-03-22 10:05 /test_genashev
0 2020-03-23 20:34 /user
   # Student4_10@manager-
inwxr-xr-x - student3_5 supergroup
inwxr-xr-x - student3_5 supergroup
inwxr-xr-x - student3_5 supergroup
inwxr-xr-x - student3_9 supergroup
inwxr-xr-x - student3_10 supergroup
inwxr-xr-x - student3_11 supergroup
inwxr-xr-x - student3_11 supergroup
inwxr-xr-x - student3_11 supergroup
inwxr-xr-x - student3_11 supergroup
inwxr-xr-x - student3_12 supergroup
inwxr-xr-x - student3_12 supergroup
inwxr-xr-x - student3_2 supergroup
inwxr-xr-x - student3_1 supergroup
inwxr-xr-x - student3_5 supergroup
inwxr-xr-x - student3_5 supergroup
inwxr-xr-x - student3_5 supergroup
inwxr-xr-x - student3_5 supergroup
inwxr-xr-x - student3_1 supergroup
inwxr-xr-x - student3_1 supergroup
inwxr-xr-x - student3_12 supergroup
inwxr-xr-x - student3_2 supergroup
inwxr-xr-x - student3_2 s
🗬 student4 10@manager
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ð
                   student4_10@manager ~]$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ^ □ (€ □) ENG 22:54
25.05,2020
                                                                           i ii 🔒 🧲 🥫 🙀 📝 🖟
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3
```

[student4\_10@manager ~]\$ hdfs dfs -ls /

Ссоздадим еще одну папку в имеющейся

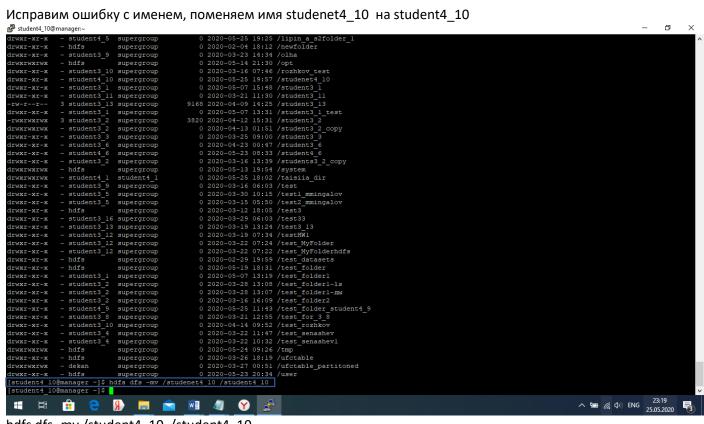


Hdfs dfs -mkdir -p /studenet4\_10/child\_folder/finish



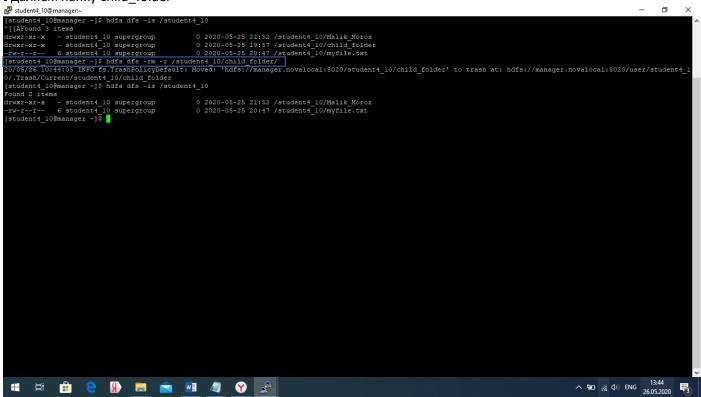
Hdfs dfs -ls /studenet4\_10/child\_folder

#### Исправим ошибку с именем, поменяем имя studenet4\_10 на student4\_10



hdfs dfs -mv /student4\_10 /student4\_10

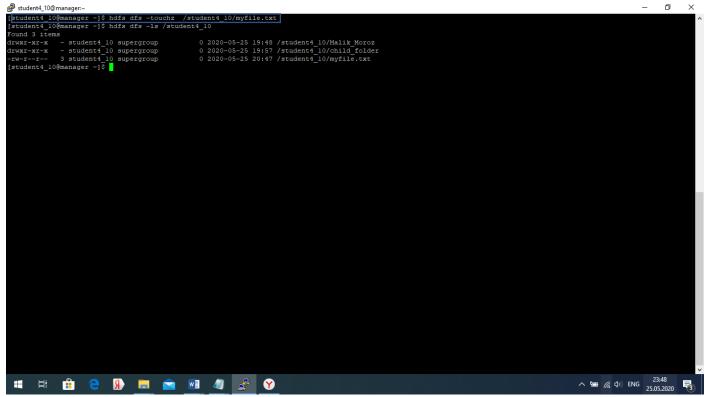
# Удаляем папку child\_folder



Hdfs dfs -rm -r /student4\_10/child\_folder/

## Положите в HDFS любой файл

Создам пустой файл



Hdfs dfs -touchz /student4 10/myfile.txt

## Переносим myfile.txt в ACLDIR/ETC

```
0 2019-11-25 15:40 /acldir/etc/libnl
2391 2019-11-25 15:40 /acldir/etc/libuser.conf
0 2019-11-25 15:40 /acldir/etc/llama
38 2019-11-25 15:40 /acldir/etc/lama
38 2019-11-25 15:40 /acldir/etc/locale.conf
118 2019-11-25 15:40 /acldir/etc/locale.conf
2028 2019-11-25 15:40 /acldir/etc/login.defs
662 2019-11-25 15:40 /acldir/etc/login.defs
662 2019-11-25 15:40 /acldir/etc/logrotate.d
0 2019-11-25 15:40 /acldir/etc/logrotate.d
0 2019-11-25 15:40 /acldir/etc/logrotate.d
111 2019-11-25 15:40 /acldir/etc/machine-id
111 2019-11-25 15:40 /acldir/etc/machine-id
111 2019-11-25 15:40 /acldir/etc/malouc
0 2019-11-25 15:40 /acldir/etc/malouc
1968 2019-11-25 15:41 /acldir/etc/malouc
1968 2019-11-25 15:41 /acldir/etc/malouc
1968 2019-11-25 15:41 /acldir/etc/malouc
5172 2019-11-25 15:41 /acldir/etc/malouc
5172 2019-11-25 15:41 /acldir/etc/malouc
5172 2019-11-25 15:41 /acldir/etc/malouc
0 2019-11-25 15:41 /acldir/etc/malouc
0 2019-11-25 15:41 /acldir/etc/modules-load.d
0 2019-11-25 15:41 /acldir/etc/modules-load.d
0 2019-11-25 15:41 /acldir/etc/my.cnf
0 2019-11-25 15:41 /acldir/etc/my.cnf
0 2019-11-25 15:41 /acldir/etc/my.cnf
0 2019-11-25 15:41 /acldir/etc/msound
570 2019-11-25 15:41 /acldir/etc/nfs.conf
3390 2019-11-25 15:41 /acldir/etc/nfs.conf
3390 2019-11-25 15:41 /acldir/etc/nfs.conf
1746 2019-11-25 15:41 /acldir/etc/nfs.switch.conf
1746 2019-11-25 15:41 /acldir/etc/nfsswitch.conf
1745 2019-11-25 15:41 /acldir/etc/nfsswitch.conf
1745 2019-11-25 15:41 /acldir/etc/nfsswitch.conf
1745 2019-11-25 15:41 /acldir/etc/nsswitch.conf
1745 2019-11-25 15:41 /acldir/etc/nsswitch.conf
1745 2019-11-25 15:41 /acldir/etc/nsswitch.conf
1745 2019-11-25 15:41 /acldir/etc/nsswitch.conf
1745 2019-11-25 15:41 /acldir/etc/nsswitch.conf.bak
1938 2019-11-25 15:41 /acldir/etc/nsswitch.conf.bak
1938
student4_10@manager:~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
           rwxr-xr-x - centos supergroup 0 2019-1:
student4 10@manager ~]$ hdfs dfs -ls /student4_10
    [Student4_10@manager ~]$ hdfs dfs -ls /student4_10
Found 3 items
frwxr-xr-x - student4_10 supergroup 0 2020-05-25 19:48 /student4_10/Malik_Moroz
frwxr-xr-x - student4_10 supergroup 0 2020-05-25 19:57 /student4_10/child_folder
-rw-rr-r- -3 student4_10 supergroup 0 2020-05-25 20:47 /student4_10/myfile.txt
[student4_10@manager ~]$ hdfs dfs -copyToLocal /student4_10/myfile.txt /acldir/etc/myfile.txt:
copyToLocal: '/acldir/etc/myfile.txt: No such file or directory
[student4_10@manager ~]$ hdfs dfs -copyToLocal /student4_10/myfile.txt /etc/myfile.txt
copyToLocal: /etc/myfile.txt._COPYING_ (Permission denied)
[student4_10@manager ~]$ dfs dfs -copyToLocal /student4_10/myfile.txt /etc/myfile.txt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ^ □ (€ Φ) ENG 0:02 26.05.2020
             # # 👚 🤚 😭 🐘 😭 🛂 🧬 😙
```

Хотел скопировать но как я понял у меня нет на это прав

Hdfs dfs -copToLocal /student4\_10/myfile.txt /etc/myfile.txt

## 5.Скопировать/удалить файл

Скопировал готовый файл с etc а также проверил Hdfs dfs -copyFromLocal /etc/my.cnf /student4\_10/Malik\_Moroz

Question почему когда пишу полный путь с acldir не работает

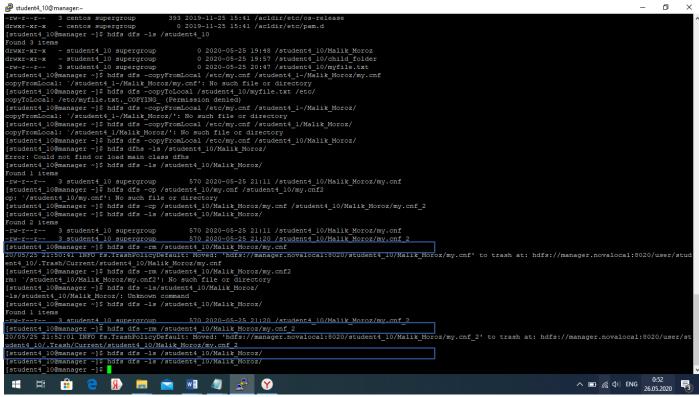
Hdfs dfs -copyFromLocal /acldir/etc/my.cnf /student4\_10/Malik\_Moroz

А вот без acldir работает

#### Скопировал файл

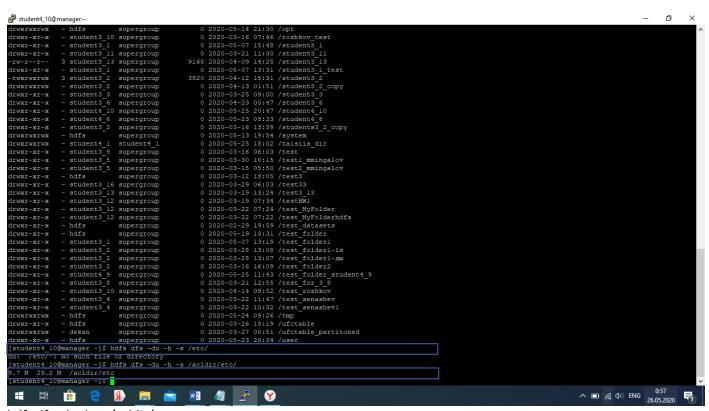
```
| Text==ren | Demois aspectroup | 394 2018-11-25 15:41 /acidit/ect/mbcqfs.comf | drva=ren | centos aspectroup | 0 2018-11-25 15:41 /acidit/ect/mbcqbeehed | drva=ren | centos aspectroup | 0 2018-11-25 15:41 /acidit/ect/mbcqbeehed | drva=ren | centos aspectroup | 0 2018-11-25 15:41 /acidit/ect/mbcqbeehed | drva=ren | centos aspectroup | 0 2018-11-25 15:41 /acidit/ect/mbcqbeehed | drva=ren | centos aspectroup | 0 2018-11-25 15:41 /acidit/ect/mbcqbeehed | drva=ren | centos aspectroup | 0 2018-11-25 15:41 /acidit/ect/mbcqbeehed | drva=ren | centos aspectroup | 0 2018-11-25 15:41 /acidit/ect/mbcqbeehed | drva=ren | centos aspectroup | 767 2018-11-25 15:41 /acidit/ect/mbcqbeehed | drva=ren | centos aspectroup | 355 2018-11-25 15:41 /acidit/ect/mbcqbeehed | centos aspectroup | 355 2018-11-25 15:41 /acidit/ect/mbcqbeehed | centos aspectroup | centos aspectroup | 378 2018-11-25 15:41 /acidit/ect/mbcqbeehed | centos aspectroup | centos aspectr
```

Hdfs dfs -cp /student4\_10/Malik\_Moroz/my.cnf /student4\_10/Malik\_Moroz/my.cnf\_2



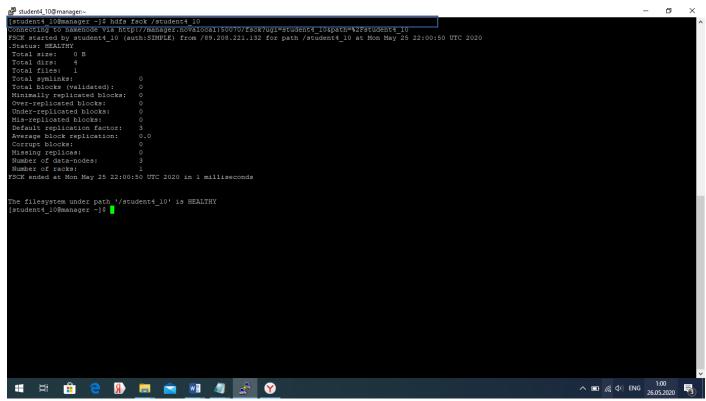
Hdf dfs -rm /student4\_10/Malik\_Moroz/my.cnf

#### 6. Посмотреть размер любой папки



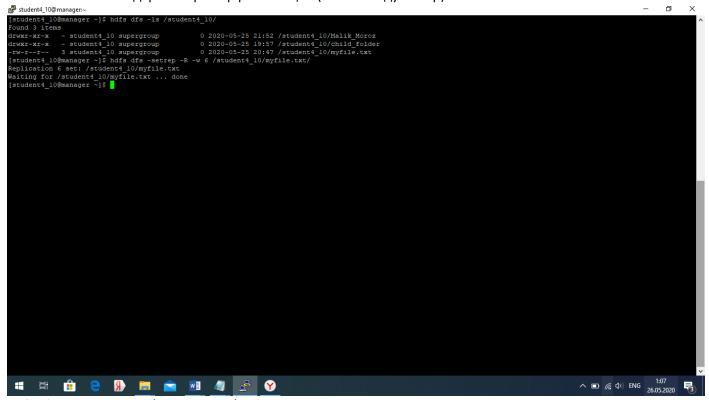
hdfs dfs -du -h -s /acldir/etc

## 7.Посмотреть как Файл хранится на файловой сисмеме (см. команду fsck)



Hdfs dfs fsck /student4\_10

## 8.Установить нестандартный фактор репликации (см. команду setrep)



Hdfs dfs -setrep -R -w 6 /student4\_10/myfile.txt

## 9. Опробовать rest-доступ для работы с кластером

10. Используя утилиты CURL

```
### Indianal Modernager | Curi - X OFT 'http://mode2.movalocalid000/webbdfs/vi/acldir]user.mame=raudencd_104cp=LiSTSTATUS'

("FileStatuses":("FileStatus":("Fige1":"Status":("Fige1":"DEFECTORY"-"Inngph*10, "comer*":"Center*, "group": "Bupergroup" "permassion":"755", "accessTime":0, "modificationTimes:157646648130.;"Display:("Display:10, ploatister*) | Curi - X OFT 'http://mode2.movalocalid000/webbdfs/vi/acldir]user.mame=studentd_104cp=LiSTSTATUS'

[studentd_10@manager |
```

11. Используя python3 и библиотеки request Возникли проблемы с библиотеками, если можно то я настрою библиотеки и потом еще раз вышлю

