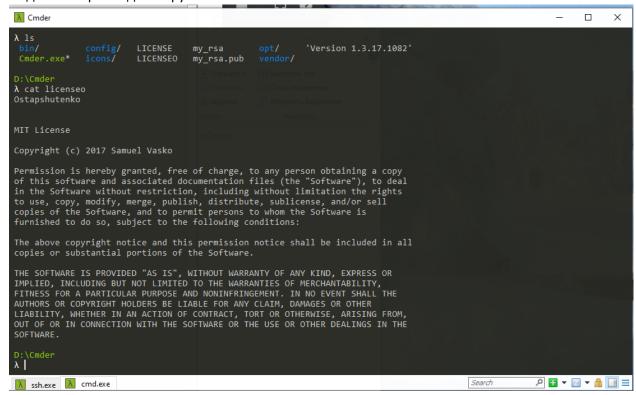
# Подготовка файла для загрузки



## На всякий случай проверил есть ли файл

```
D:\Cmder
λ scp -i my_rsa student1_15@manager.novalocal:LICENSEO lic2
LICENSEO 100% 1085 35.6KB/s 00:00
```

### Копировал файл в систему

```
[student1_15@bigdataanalytics-head-0 ~]$ hdfs dfs -ls
[student1_15@bigdataanalytics-head-0 ~]$ hdfs dfs -put LICENSEO .
[student1_15@bigdataanalytics-head-0 ~]$ hdfs dfs -ls
Found 1 items
-rw-r--r-- 2 student1_15 student1_15 1085 2021-02-09 13:19 LICENSEO
[student1_15@bigdataanalytics-head-0 ~]$
```

### Копировал файл

```
[student1_15@bigdataana]ytics-head-0 ~]$ hdfs dfs -cp ./LICENSEO ./LIC2

21/02/09 13:25:44 WARN hdfs.DataStreamer: Slow waitForAckedSeqno took 31159ms (threshold=30000ms). File being written: /
user/student1_15/LIC2._COPYING_, block: BP-2034205697-10.0.0.8-1605765014172:blk_1074455871_715787, Write pipeline datan
odes: [DatanodeInfoWithStorage[10.0.0.9:50010,DS-cfcfbd8e-df78-48b2-977a-cc9bb7aa9546,DISK], DatanodeInfoWithStorage[10.
0.0.18:50010,DS-267aa5cb-5f32-4dd0-98c5-7f2828ca9bda,DISK]].
[student1_15@bigdataanalytics-head-0 ~]$
[student1_15@bigdataanalytics-head-0 ~]$ hdfs dfs -ls
Found 2 items
-rw-r--r-- 2 student1_15 student1_15 1085 2021-02-09 13:25 LIC2
-rw-r--r-- 2 student1_15 student1_15 1085 2021-02-09 13:19 LICENSEO
```

## Удалил файл

# Создал папку

## Перенес файл в папку

```
[student1_15@bigdataanalytics-head-0 ~]$ hdfs dfs -mv LICENSEO ./midir/LICENSEO
[student1_15@bigdataanalytics-head-0 ~]$ hdfs dfs -ls
Found 2 items
drwx----- - student1_15 student1_15 0 2021-02-09 13:27 .Trash
drwxr-xr-x - student1_15 student1_15 0 2021-02-09 13:43 midir
```

```
[student1_15@bigdataanalytics-head-0 ~]$ hdfs dfs -ls -r ./midir
Found 1 items
-rw-r--r-- 2 student1_15 student1_15 1085 2021-02-09 13:19 midir/LICENSE0
```

#### Копирование папки

Происходит в несколько этапов так как нет одной команды для копирования

```
[student1_15@bigdataanalytics-head-0 ~]$ hdfs dfs -ls -r ./midir
Found 1 items
-rw-r--r-- 2 student1_15 student1_15 1085 2021-02-09 13:19 midir/LICENSEO
[student1_15@bigdataanalytics-head-0 ~]$ hdfs dfs -mkdir ./mydir
[student1_15@bigdataanalytics-head-0 ~]$ hdfs dfs -ls
Found 3 items
drwx----- - student1_15 student1_15 0 2021-02-09 13:27 .Trash
drwxr-xr-x - student1_15 student1_15 0 2021-02-09 13:43 midir
drwxr-xr-x - student1_15 student1_15 0 2021-02-09 14:02 mydir
[student1_15@bigdataanalytics-head-0 ~]$ hdfs dfs -cp ./midir/* ./mydir/
[student1_15@bigdataanalytics-head-0 ~]$ hdfs dfs -ls -r ./mydir
Found 1 items
-rw-r--r-- 2 student1_15 student1_15 1085 2021-02-09 14:05 mydir/LICENSEO
[student1_15@bigdataanalytics-head-0 ~]$
```

## Удаление паки происходит в два этапа сначала файлы внутри а потом директория

[student1\_15@bigdataanalytics-head-0 ~]\$ hdfs dfs -rm ./midir/\*
21/02/09 14:15:17 INFO fs.TrashPolicyDefault: Moved: 'hdfs://bigdataanalytics-head-0.novalocal:8020/user/student1\_15/mid
ir/LICENSEO' to trash at: hdfs://bigdataanalytics-head-0.novalocal:8020/user/student1\_15/.Trash/Current/user/student1\_15
/midir/LICENSEO

#### Основная мета информация

```
[student1_15@bigdataanalytics-head-0 ~]$ hdfs fsck . -files -blocks -locations
Connecting to namenode via http://bigdataanalytics-head-0.novalocal:50070/fsck?ugi=student1 15&files=1&blocks=1&locations=1&path=%2Fuser%2Fstudent1 15
FSCK started by student1_15 (auth:SIMPLE) from /10.0.0.8 for path /user/student1_15 at Tue Feb 09 14:38:55 UTC 2021 /user/student1_15 <dir>
/user/student1_15/.Trash <dir>
/user/student1 15/.Trash/Current <dir>
/user/student1_15/.Trash/Current/user <dir>
/user/student1_15/.Trash/Current/user/student1_15 <dir>
/user/student1_15/.Trash/Current/user/student1_15/LIC2 1085 bytes, replicated: replication=2, 1 block(s): OK
0. BP-2034205697-10.0.0.8-1605765014172:blk_1074455871_715787 len=1085 Live_repl=2 [DatamodeInfoWithStorage[10.0.0.18:50010,DS-267aa5cb-5f32-4dd0-98c5-7f282
8ca9bda,DISK], DatanodeInfoWithStorage[10.0.0.9:50010,DS-cfcfbd8e-df78-48b2-977a-cc9bb7aa9546,DISK]]
/user/student1_15/.Trash/Current/user/student1_15/midir <dir>
/user/student1_15/.Trash/Current/user/student1_15/midir/LICENSEO 1085 bytes, replicated: replication=2, 1 block(s): OK
0. BP-2034205697-10.0.0.8-1605765014172:blk 1074455870 715786 len=1085 Live repl=2 [DatanodeInfoWithStorage[10.0.0.18:50010,DS-267aa5cb-5f32-4dd0-98c5-7f282 8ca9bda,DISK], DatanodeInfoWithStorage[10.0.0.12:50010,DS-7d4579f0-3ef5-4676-823e-8e4d60d2e4b8,DISK]]
/user/student1_15/mydir <dir>
/user/student1_15/mydir/LICENSEO 1085 bytes, replicated: replication=2, 1 block(s): OK
0. BP-2034205697-10.0.0.8-1605765014172:blk_1074455903_715819 len=1085 Live_repl=2 [DatanodeInfoWithStorage[10.0.0.17:50010,DS-00ef9314-bb87-49c4-9cfa-8c8fb
6ff33cc,DISK], DatanodeInfoWithStorage[10.0.0.18:50010,DS-267aa5cb-5f32-4dd0-98c5-7f2828ca9bda,DISK]]
Status: HEALTHY
 Number of data-nodes: 4
 Number of racks:
 Total dirs:
 Total symlinks:
Replicated Blocks:
 Total size: 3255 B
Total files: 3
 Total blocks (validated):
                                  3 (avg. block size 1085 B)
 Minimally replicated blocks: 3 (100.0 %)
Over-replicated blocks: 0 (0.0 %)
 Under-replicated blocks:
                                  0 (0.0 %)
 Mis-replicated blocks:
                                  0 (0.0 %)
 Default replication factor:
 Average block replication:
                                  2 A
 Missing blocks:
 Corrupt blocks:
 Missing replicas:
                                  0 (0.0 %)
Erasure Coded Block Groups:
 Total files: 0
 Total block groups (validated):
 Minimally erasure-coded block groups: 0
 Over-erasure-coded block groups:
 Under-erasure-coded block groups: 0
Unsatisfactory placement block groups: 0
 Average block group size: 0.0
 Missing block groups:
 Corrupt block groups:
 Missing internal blocks:
FSCK ended at Tue Feb 09 14:38:55 UTC 2021 in 2 milliseconds
The filesystem under path '/user/student1_15' is HEALTHY
```