

Bu bölümde Hadoop HDFS sistemindeki komutlarını inceleyeceğiz. Örneklerimizi Cloudera üzerinde yapacağız

mkdir

Bu komut ile HDFS dosya sisteminde bir klasör oluşturulabilir

```
hdfs dfs -mkdir /kaynak
```

Browse Directory

/user/weather-set

Permission	Owner	Group	Size	Last Modified	Replication
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Hadoop, 2016.

hadoop-mkdir



copyFromLocal

Bu komut ile local makinedeki dosyalar HDFS dosya sistemine kopyalanabilir

```
hdfs dfs -copyFromLocal /kaynak /hdfs-hedef
```

/user/weather-set

Go!

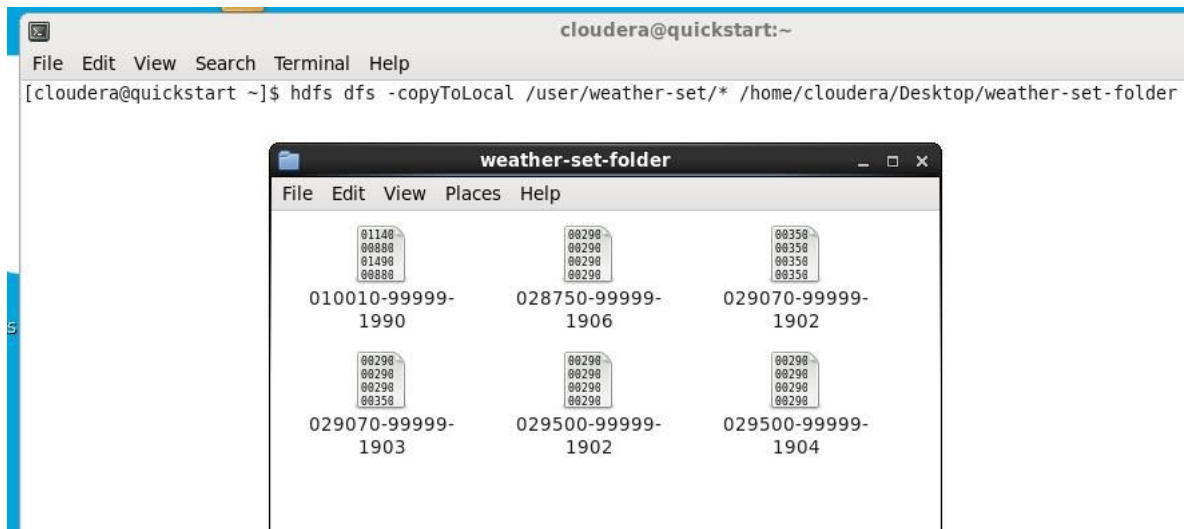
Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name
-rw-r--r--	cloudera	supergroup	551.24 KB	Mon Dec 12 14:52:49 -0800 2016	1	128 MB	010010-99999-1990
-rw-r--r--	cloudera	supergroup	145.05 KB	Mon Dec 12 14:52:49 -0800 2016	1	128 MB	028750-99999-1906
-rw-r--r--	cloudera	supergroup					029070-99999-1902
-rw-r--r--	cloudera	supergroup					029070-99999-1903
-rw-r--r--	cloudera	supergroup					029500-99999-1902
-rw-r--r--	cloudera	supergroup					029500-99999-1904

hadoop-copyfromlocal

copyToLocal

Bu komut ile HDFS sistemindeki dosyalar local ortama kopyalanabilir

```
hdfs dfs -copyToLocal /hdfs-kaynak /hedef
```



hadoop-copytolocal

count

Bu komut ile hdfs sistemindeki dosya sayısını yazdırabiliriz

```
hdfs dfs -count /klasör/*
```

```
cloudera@quickstart:~  
File Edit View Search Terminal Help  
[cloudera@quickstart ~]$ hdfs dfs -count /user/weather-set  
1 6 1746445 /user/weather-set  
[cloudera@quickstart ~]$
```

hadoop-count

cat

Bu komut ile HDFS sistemindeki bir dosyanın içeriğini gösterebiliriz

```
hdfs dfs -cat /klasör/dosya
```

```
cloudera@q  
File Edit View Search Terminal Help  
[cloudera@quickstart ~]$ hdfs dfs -cat /user/weather-set/010010-99999-1990
```

hadoop-cat-komut

```
0050010010999991990123015004+70933-008667FM-12+0009ENJA V0201501N00671024001CN0400001N9+00051-00021098191ADDAG12000GF106991021081008001041'  
0111010010999991990123018004+70933-008667FM-12+0009ENJA V0209991C00001024001CN0200001N9-00071-00071098461ADDAA199000191AG10000GF1079910110:  
210271+99990A149901181REMSYN017333 10008 91123  
0050010010999991990123021004+70933-008667FM-12+0009ENJA V0201201N00621024001CN0200001N9+00071+00071098721ADDAG12000GF107991011081004501071'  
0092010010999991990123100004+70933-008667FM-12+0009ENJA V0200901N00261024001CN0300001N9+00061+00061098961ADDAA106000091AG14000GF1079910110:  
149900721REMSYN011333 91114  
0050010010999991990123103004+70933-008667FM-12+0009ENJA V0201001N00621024001CN0250001N9+00111+00111099081ADDAG12000GF107991011081008001011'  
0111010010999991990123106004+70933-008667FM-12+0009ENJA V0201001N00461024001CN0150001N9+00131+00131099171ADDAA106000091AG14000GF1079910110:  
210091+99990A149900881REMSYN017333 21008 91117  
0050010010999991990123109004+70933-008667FM-12+0009ENJA V0201001N00511024001CN0250001N9+00121+00121099291ADDAG12000GF107991041081008001071'  
0134010010999991990123112004+70933-008667FM-12+0009ENJA V0201301N00461002101CN0150001N9+00121+00121099421ADDAA106000391AG10001AY171061AY22  
MD1110131+9999MW16810A149901181SA1+0059REMSYN023222// 00005 333 91123  
0072010010999991990123115004+70933-008667FM-12+0009ENJA V0201301N00821004201CN0200001N9+00151+00151099431ADDAG12001AY171031AY261031GF10799  
999MW1611  
0133010010999991990123118004+70933-008667FM-12+0009ENJA V0201201N00671002101CN0200001N9+00151+00151099501ADDAA199001091AG10001AY171061AY26  
KA1120M+00181MD1210071+9999MW16110A149901391REMSYN017333 10018 91127  
[cloudera@quickstart ~]$
```

hadoop-cat-sonuc

cp

Bu komut ile HDFS sistemindeki bir dosyayı , HDFS içerisinde başka bir klasör altına kopyalayabiliriz

```
hdfs dfs -cp /kaynak/dosya /hedef
```

/user/weather-set-temp								Go
Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name	
-rw-r--r--	cloudera	supergroup	551.24 KB	Mon Dec 12 15:08:13 -0800 2016	1	128 MB	010010-99999-1990	
-rw-r--r--	cloudera	supergroup	145.05 KB	Mon Dec 12 15:08:13 -0800 2016	1	128 MB	028750-99999-1906	
-rw-r--r--	cloudera	supergroup	144.64 KB	Mon Dec 12 15:08:13 -0800 2016	1	128 MB	029070-99999-1902	
-rw-r--r--	cloudera	supergroup					029070-99999-1903	
-rw-r--r--	cloudera	supergroup					029500-99999-1902	
-rw-r--r--	cloudera	supergroup					029500-99999-1904	

cloudera@quickstart:~

File Edit View Search Terminal Help

[cloudera@quickstart ~]\$ hdfs dfs -cp /user/weather-set/* /user/weather-set-temp

[cloudera@quickstart ~]\$

hadoop-cp

rmr

Bu komut ile HDFS sisteminden dosyaları silebiliriz

```
hdfs dfs -rmr /kaynak/*
```

```
[cloudera@quickstart ~]$ hdfs dfs -rmr /user/weather-set-temp/*  
rmr: DEPRECATED: Please use 'rm -r' instead.  
Deleted /user/weather-set-temp/010010-99999-1990  
Deleted /user/weather-set-temp/028750-99999-1906  
Deleted /user/weather-set-temp/029070-99999-1902  
Deleted /user/weather-set-temp/029070-99999-1903  
Deleted /user/weather-set-temp/029500-99999-1902  
Deleted /user/weather-set-temp/029500-99999-1904  
[cloudera@quickstart ~]$ █
```

hadoop-rmr

mv

Bu komut ile HDFS sistemindeki bir dosyayı , HDFS sistemindeki başka bir klasör altına taşıyabiliriz

```
hdfs dfs -mv /kaynak/dosya /hedef
```

Browse Directory

/user/weather-set-temp

Permission	Owner	Group
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hadoop-mv

```
[cloudera@quickstart ~]$ hdfs dfs -mv /user/weather-set-temp/* /user/weather-set  
[cloudera@quickstart ~]$ █
```

ls

Bu komut ile HDFS sistemindeki dosyaları listeleyebiliriz

```
hdfs dfs -ls /klasör
```

```
cloudera@quickstart:~  
File Edit View Search Terminal Help  
[cloudera@quickstart ~]$ hdfs dfs -ls /user/weather-set  
Found 6 items  
-rw-r--r-- 1 cloudera supergroup 564473 2016-12-12 14:52 /user/weather-set  
/010010-99999-1990  
-rw-r--r-- 1 cloudera supergroup 148535 2016-12-12 14:52 /user/weather-set  
/028750-99999-1906  
-rw-r--r-- 1 cloudera supergroup 148113 2016-12-12 14:52 /user/weather-set  
/029070-99999-1902  
-rw-r--r-- 1 cloudera supergroup 146745 2016-12-12 14:52 /user/weather-set  
/029070-99999-1903  
-rw-r--r-- 1 cloudera supergroup 147593 2016-12-12 14:52 /user/weather-set  
/029500-99999-1902  
-rw-r--r-- 1 cloudera supergroup 590986 2016-12-12 14:52 /user/weather-set  
/029500-99999-1904  
[cloudera@quickstart ~]$
```

hadoop-ls

tail

Bu komut ile HDFS sistemindeki bir dosyanın son satırlarını listeleyebiliriz

```
hdfs dfs -tail /klasör/dosya
```

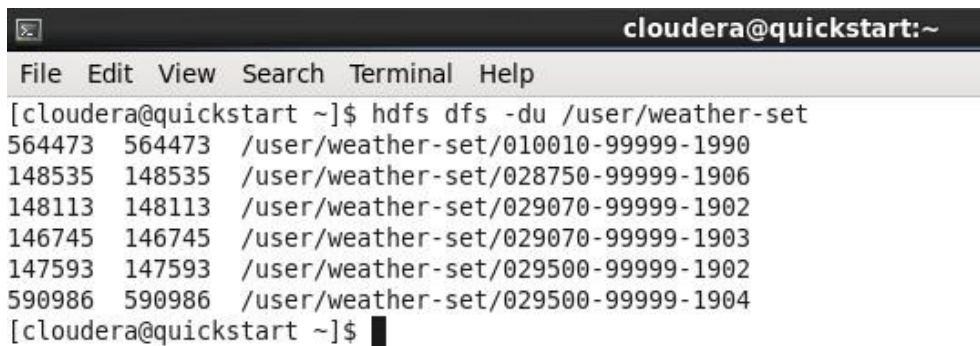
```
[cloudera@quickstart ~]$ hdfs dfs -tail /user/weather-set/010010-99999-1990  
0010999991990123106004+70933-008667FM-12+0009ENJA V0201001N00461024001CN0150001N9+00131+001310991  
71ADDAA106000091AG14000GF107991011061004501011999KA1120N-00081MD1210091+99990A149900881REMSYN0173  
33 21008 91117  
0050010010999991990123109004+70933-008667FM-12+0009ENJA V0201001N00511024001CN0250001N9+00121+001  
21099291ADDAG12000GF107991041081008001071999MD1210121+9999  
0134010010999991990123112004+70933-008667FM-12+0009ENJA V0201301N00461002101CN0150001N9+00121+001  
21099421ADDAA106000391AG10001AY171061AY221061GF10899108106100250199999MD1110131+9999MW16810A1499  
01181SA1+0059REMSYN023222// 00005 333 91123  
0072010010999991990123115004+70933-008667FM-12+0009ENJA V0201301N00821004201CN0200001N9+00151+001  
51099431ADDAG12001AY171031AY261031GF107991061051004501071999MD1210011+9999MW1611  
0133010010999991990123118004+70933-008667FM-12+0009ENJA V0201201N00671002101CN0200001N9+00151+001  
51099501ADDAA199001091AG10001AY171061AY261061GF10899107105100250199999KA1120M+00181MD1210071+999  
9MW16110A149901391REMSYN017333 10018 91127  
[cloudera@quickstart ~]$
```

hadoop-tail

du

Bu komut ile HDFS sistemindeki dosyaların boyutlarını listeleyebiliriz

```
hdfs dfs -du /klasör/*
```



```
cloudera@quickstart:~  
File Edit View Search Terminal Help  
[cloudera@quickstart ~]$ hdfs dfs -du /user/weather-set  
564473 564473 /user/weather-set/010010-99999-1990  
148535 148535 /user/weather-set/028750-99999-1906  
148113 148113 /user/weather-set/029070-99999-1902  
146745 146745 /user/weather-set/029070-99999-1903  
147593 147593 /user/weather-set/029500-99999-1902  
590986 590986 /user/weather-set/029500-99999-1904  
[cloudera@quickstart ~]$
```

hadoop-du

chown

Bu komut ile HDFS sistemindeki dosyaların kullanıcı yetkilerini ayarlayabiliriz

```
hdfs dfs -chown -R owner:group /klasör/*
```

/user/weather-set						
Permission	Owner	Group	Size	Last Modified	Replication	Block S
-rw-r--r--	cloudera	supergroup	551.24 KB	Mon Dec 12 14:52:49 -0800 2016	1	128 MB
-rw-r--r--	cloudera	supergroup	145.05 KB	Mon Dec 12 14:52:49 -0800 2016	1	128 MB
-rw-r--r--	cloudera	supergroup	145.05 KB	Mon Dec 12 14:52:49 -0800 2016	1	128 MB
-rw-r--r--	cloudera	supergroup	145.05 KB	Mon Dec 12 14:52:49 -0800 2016	1	128 MB
-rw-r--r--	cloudera	supergroup	145.05 KB	Mon Dec 12 14:52:49 -0800 2016	1	128 MB
-rw-r--r--	cloudera	supergroup	145.05 KB	Mon Dec 12 14:52:49 -0800 2016	1	128 MB
-rw-r--r--	cloudera	supergroup	145.05 KB	Mon Dec 12 14:52:49 -0800 2016	1	128 MB

```
cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hdfs dfs -chown -R cloudera:supergroup /user/weather-set
[cloudera@quickstart ~]$
```

hadoop-chown

chmod

Bu komut ile HDFS sistemindeki dosyaların okuma,yazma,çalıştırma yetkilerini değiştirebiliriz

```
hdfs dfs -chmod +x /klasör/*
```

```
cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hdfs dfs -chmod +x /user/weather-set/010010-99999-1990
hadoop-chmod
```

setrep

Bu komut ile HDFS sistemindeki dosyaların replication factor değeri değiştirilerbilir.

```
hdfs dfs -setrep 3 -R /klasör/*
```


/user/weather-set

Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name
-rw-r--r--	cloudera	supergroup	551.24 KB	Mon Dec 12 14:52:49 -0800 2016	2	128 MB	010010-99999-1990
-rw-r--r--	cloudera	supergroup	145.05 KB	Mon Dec 12 14:52:49 -0800 2016	1	128 MB	028750-99999-1990
-rw-r--r--	cloudera	supergroup	144.64 KB	Mon Dec 12 14:52:49 -0800 2016	1	128 MB	029070-99999-1990
-rw-r--r--	cloudera	supergroup	144.64 KB	Mon Dec 12 14:52:49 -0800 2016	1	128 MB	029070-99999-1902
-rw-r--r--	cloudera	supergroup	143.31 KB	Mon Dec 12 14:52:49 -0800 2016	1	128 MB	029070-99999-1903
-rw-r--r--	cloudera	supergroup	144.13 KB	Mon Dec 12 14:52:49 -0800 2016	1	128 MB	029500-99999-1902
-rw-r--r--	cloudera	supergroup	577.13 KB	Mon Dec 12 14:52:49 -0800 2016	1	128 MB	029500-99999-1904
-rw-r--r--	cloudera	supergroup	0 B	Mon Dec 12 15:31:58 -0800 2016	1	128 MB	test

hadoop-setrep

touchz

Bu komut ile HDFS sisteminde boş bir dosya oluşturabiliriz

```
hdfs dfs -touchz /klasör/dosya
```

-rw-r--r--	cloudera	supergroup	144.64 KB	Mon Dec 12 14:52:49 -0800 2016	1	128 MB	029070-99999-1902
-rw-r--r--	cloudera	supergroup	143.31 KB	Mon Dec 12 14:52:49 -0800 2016	1	128 MB	029070-99999-1903
-rw-r--r--	cloudera	supergroup	144.13 KB	Mon Dec 12 14:52:49 -0800 2016	1	128 MB	029500-99999-1902
-rw-r--r--	cloudera	supergroup	577.13 KB	Mon Dec 12 14:52:49 -0800 2016	1	128 MB	029500-99999-1904
-rw-r--r--	cloudera	supergroup	0 B	Mon Dec 12 15:31:58 -0800 2016	1	128 MB	test

Hadoop, 2016.

hadoop-touchz

Bu bölümde HDFS üzerinde sıkça kullanılan dosya komutlarını inceledik. Diğer big data yazıları için sitemizi takip edebilirsiniz