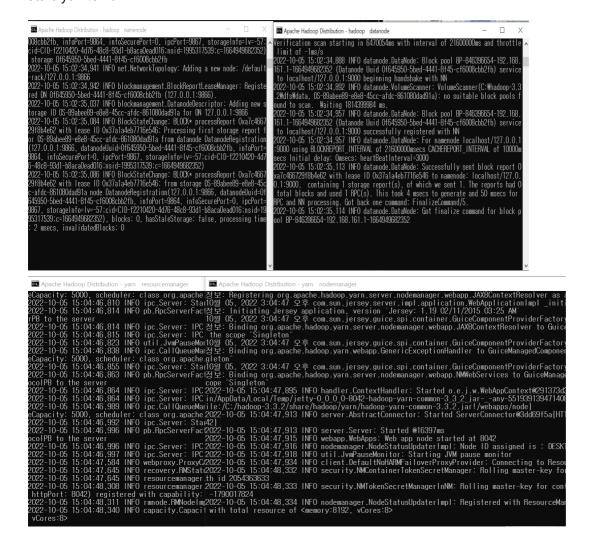
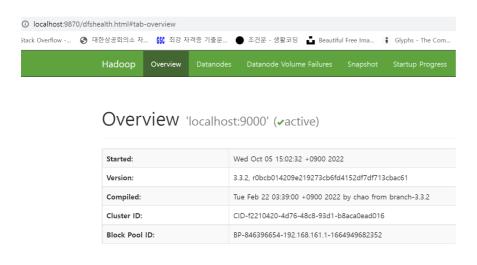
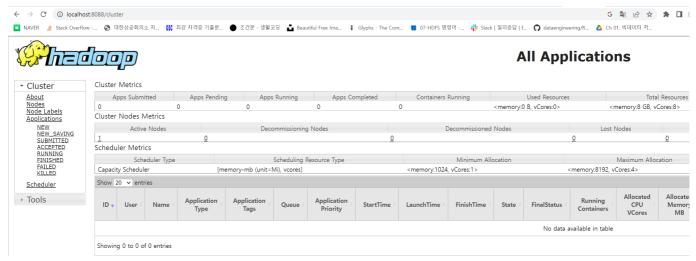
HDFS 클러스터 구동

hdfs namenode -format cd sbin start-dfs.cmd start-yarn.cmd







CLI (Command Line Interface) 실습

HDFS CLI를 실행하는 방법(명령어)

- 1. hadoop fs : local, hdfs 등과 같은 파일 시스템을 가리킬 수 있는 일반 파일 시스템과 관련있다.
- 2. hdfs dfs: HDFS에만 해당하는 명령어이다.
- ** FS쉘에는 HDFS와 직접 상호작용하여 다양한 명령과 Local FS, WebHDFS, S3 FS 등과 같은 hadoop이 지원하는 다른 파일 시스템이 포함되어 있다.

hadoop fs 실습시작

- 1. hadoop fs상에 디렉토리 생성
- : C:\hadoop-3.3.2>hadoop fs -mkdir /user // 유저생성

HDFS 내에 사용자이 호 디렌터리는 "/uspr/사용자이를" 으로 생성

- : C:\hadoop-3.3.2>hadoop fs -mkdir /user/fastcampus
- : C:\hadoop-3.3.2>hadoop fs -mkdir /user/fastcampus/input
- : C:\hadoop-3.3.2>hadoop fs -ls /user/fastcampus // 정상적으로 생성된 것을 확인

2. 로컬에 있는 파일이나 디렉토리를 hdfs에 업로드 하기

- 1. hadoop fs -put LICENSE.txt /user/fastcampus/input
- 2. C:\hadoop-3.3.2>hadoop fs -ls /user/fastcampus/input // 업로드되었는지 확인

3. hdfs상에 존재하는 데이터를 로컬파일시스템으로 옮겨오기

• hadoop fs -copyToLocal /user/fastcampus/input/LICENSE.txt ./ //./현재 디렉토리에 가져오기

```
::\hadoop fs -copyToLocal /user/fastcampus/input/LICENSE.txt ./
 :#기s
C 드라이브의 볼륨에는 이름이 없습니다.
볼륨 일련 번호: 767F-BAOB
C:₩ 디렉터리
                    오후 02:36
오후 05:53
오후 06:08
오후 03:15
오후 05:22
오후 06:07
오후 06:07
오후 04:40
오후 04:40
오후 04:40
오후 04:40
2022-10-02
2022-10-02
2022-10-03
                                            <DIR>
                                                                       apache-maven-3.8.6
                                             2022-10-03
2022-09-30
2022-10-02
 2022-10-03
2022-10-03
2022-09-30
2022-09-30
2022-10-03
2022-10-03
2022-09-30
2022-10-01
2022-10-03
                                                                       PerfLogs
Program Files
Program Files (x86)
                                             <DIR>
                                            <DIR><DIR><DIR><DIR>
                                                                        Temp
                                             <DIR>
                                                                        tmp
                                                                       Users
                                                 IR> Windows
638,675,780 바이트
234,757,455,872 바이트 남음
                                             <DIR>
                                파일
디렉터리
```

4. hdfs상에 업로드되어있는 파일을 볼 수 있는 역할

hadoop fs -cat /user/fastcampus/input/LICENSE.txt

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5. hdfs상에 있는 파일을 이동시키기

hdfs fs -mv /user/fastcampus/input/LICENSE.txt /user/fastcampus

6. 파일 내용 뒷부분 보기

hadoop fs -tail /C:/LICENSE.txt

7 파익 내용 앞부부 보기

hadoop fs -head /C:/LICENSE.txt

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명령어 확인 : hadoop fs -help

- 로컬에 있는 파일이나 디렉토리를 hdfs에 업로드 하는 역할 : hadoop fs -help put (= put을 어떻게 사용하는지 확인가능) : hadoop fs -copyFromLocal
- hdfs상에 존재하는 데이터를 로컬파일시스템으로 옮겨오는 역할
 - : hadoop fs -get
 - : hadoop fs -copyToLocal
- hdfs상에 업로드되어있는 파일을 볼 수 있는 역할
 - : hadoop fs -cat
- hdfs상에 있는 파일을 이동하는 역할
 - : hdfs fs -mv