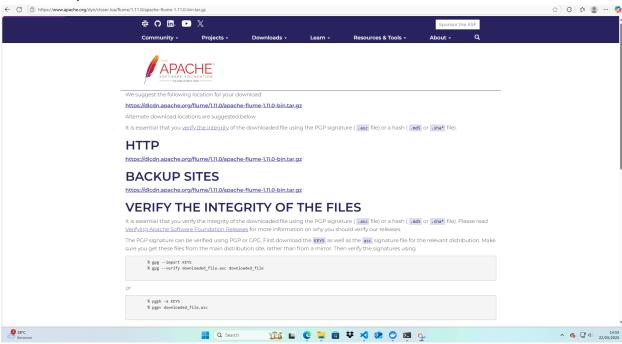
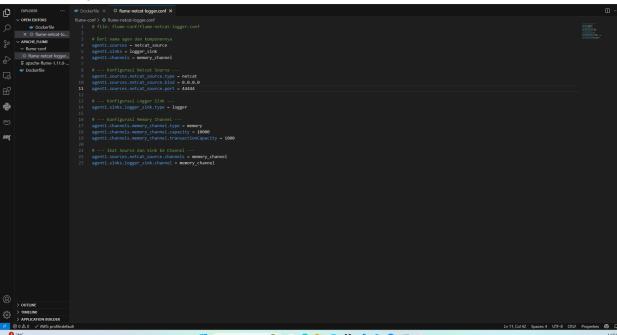
Instalasi dan konfigurasi apache flume

1. Download apache flume.tar



- 2. Buat file konfigurasi untuk apache flume untuk dijalankan di docker
 - a. Buat file Dockerfile

b. Buat file konfigurasi flume



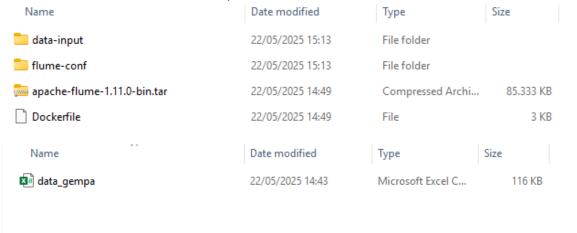
3. Build docker image untuk apache flume

```
C:\Users\sains\Documents\tubes-s\apache_flume>docker build -t apache-flume-standalone .
[+] Building 145.9s (9/9) FINISHED
=> [internal] load build definition from Dockerfile
                                                                                                                         docker:desktop-linux
                                                                                                                                             0.05
 => => transferring dockerfile: 2.23kB
=> [internal] load metadata for docker.io/library/openjdk:8-jre-slim
                                                                                                                                             0.0s
                                                                                                                                             4.2s
 => [auth] library/openjdk:pull token for registry-1.docker.io
=> [internal] load .dockerignore
                                                                                                                                             0.0s
                                                                                                                                             0.05
 => => transferring context: 2B
                                                                                                                                             0.0s
 => [1/4] FROM docker.io/library/openjdk:8-jre-slim@sha256:53186129237fbb8bc0a12dd36da6761f4c7a2a20233c20d4eb0d49
                                                                                                                                            4.8s
 => resolve docker.io/library/openjdk:8-jre-slim@sha256:53186129237fbb8bc0a12dd36da6761f4c7a2a20233c20d4eb0d49
 => => sha256:53186129237fbb8bc0a12dd36da6761f4c7a2a20233c20d4eb0d497e4045a4f5 549B / 549B
                                                                                                                                             0.0s
 => sha256:285c6la1e5e6b7b3709729b69558670148c5fdc6eb7104fae7dd370042c51430 1.16kB / 1.16kB => sha256:85b121affeddcffc7bc6618140bb0285ad1257bd318676ddc67816863c0686c0 7.47kB / 7.47kB
                                                                                                                                             0.0s
 => sha256:1efc276f4ff952c055dea726cfc96ec6a4fdb8b62d9eed816bd2b788f2860ad7 31.37MB / 31.37MB => sha256:a2f2f93da48276873890ac821b3c991d53a7e864791aaf82c39b7863c908b93b 1.58MB / 1.58MB
                                                                                                                                             3.0s
 => => sha256:la2de4cc94315f2ba5015e6781672aa8e0b1456a4d488694bb5f016d8f59fa70 210B / 210B
 => => sha256:d2421c7a4bbfc037d7fb487893cc5fe145e329dfb39b5ee6557016bf6c34072d 41.70MB / 41.70MB
 => => extracting sha256:1efc276f4ff952c055dea726cfc96ec6a4fdb8b62d9eed816bd2b788f2860ad7
                                                                                                                                             1.0s
 => extracting sha256:a2f2f93da48276873890ac821b3c991d53a7e864791aaf82c39b7863c908b93b
 => extracting sha256:la2de4cc94315f2ba5015e6781672aa8e0b1456a4d488694bb5f016d8f59fa70
                                                                                                                                             0.0s
 => extracting sha256:d2421c7a4bbfc037d7fb487893cc5fe145e329dfb39b5ee6557016bf6c34072d
                                                                                                                                             0.3s
 => [2/4] RUN apt-get update && apt-get install -y wget tar && rm -rf /var/lib/apt/lists/* # Bersihk => [3/4] RUN mkdir -p /opt/flume && wget -q https://dlcdn.apache.org/flume/1.11.0/apache-flume-1.11.0-bin.
                                                                                     && rm -rf /var/lib/apt/lists/* # Bersihk
                                                                                                                                            22.8s
 => [3/4] RUN mkdir -p /opt/flume
=> [4/4] RUN mkdir -p /opt/flume/conf
                                                                                                                                          114.4s
                                                                                                                                             0.3s
 => exporting to image
                                                                                                                                             0.3s
 => => exporting layers
                                                                                                                                             0.3s
 => => writing image sha256:8202c30f0e5d53bc8282d6a2e5276deed59a13a20f424e5e21583b2a44832b6b
                                                                                                                                             0.05
```

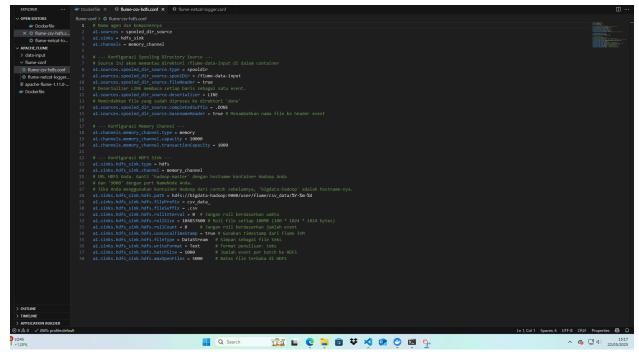
4. Jalankan container

```
C:\Users\sains\Documents\tubes-s\apache_flume>docker run -d ^
        -р 44444:44444 /
More?
        More?
More?
        apache-flume-standalone ^
/opt/flume/bin/flume-ng agent ^
--conf /opt/flume/conf ^
--conf-file /opt/flume/conf/flume.conf ^
More?
More?
More?
More?
More?
        --name agent1 ^
More? -Dflume.root.logger=INFO,console
9eab3fdbf8eb513edfa6671ca9f43fc97439f3cef812b49af86f509d6016d6d6
C:\Users\sains\Documents\tubes-s\apache_flume>docker ps
CONTAINER ID IMAGE COMMAND
                                                                        CREATED
                                                                                           STATUS
                                                                                                            PORTS
```

5. Masukkan data ke folder direktori apache flume



6. Buat file yg berisi konfigurasi untuk memasukkan data csv ke apache flume yang akan diteruskan ke hdfs



7. Stop dan hapus container sebelumnya agar tidak ada konflik Selanjutnya jalankan lagi container yg baru yg sudah ada file datanya

```
C:\Users\sains\Documents\tubes-s\apache_flume>docker stop flume_agent_01
flume_agent_01
C:\Users\sains\Documents\tubes-s\apache_flume>docker rm flume_agent_01
flume_agent_01
C:\Users\sains\Documents\tubes-s\apache_flume>docker run -d ^
More?
          --name flume_csv_agent
         -v "C:/Users/sains/Documents/tubes-s/apache_flume/flume-conf/flume-csv-hdfs.conf":/opt/flume/conf/flume.conf ^
-v "C:/Users/sains/Documents/tubes-s/apache_flume/data-input":/flume-data-input ^
More?
More?
More?
          apache-flume-standalone
         /opt/flume/bin/flume-ng agent ^
More?
          --conf /opt/flume/conf ^
--conf-file /opt/flume/conf/flume.conf ^
More?
More?
          --name a1 ^
More?
More? -Dflume.root.logger=INFO,console
c3ce85943a59ba45a408a560c043a721ecbfd5059b8477804953d741c47c5c89
C:\Users\sains\Documents\tubes-s\apache_flume>
```

```
C:\Users\sains\Documents\tubes-s\apache_flume>docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS

NAMES

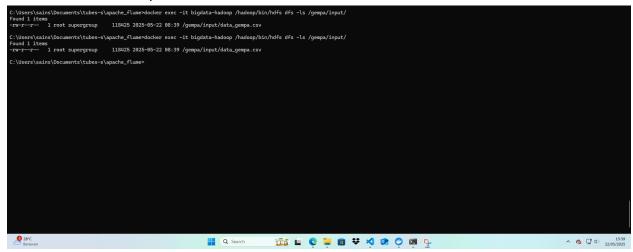
NAMES

c3ce85943a59 apache-flume-standalone "/opt/flume/bin/flum..." About a minute ago Up About a minute 44444/tcp

flume_csv_agent
e519c20be8f5 bigdata-hadoop "/bin/bash -c '/boot..." About an hour ago Up About an hour 0.0.0.0:3306->3306/tcp, 0.0.0.0:8000->8000/tcp, 0.0.0.0:8088->8088/tcp, 0.0.0.0:9000->9000/tcp, 0.0.0.0:9866->9866/tcp, 0.0.0.0:9870->9870/tcp, 0.0.0.0:10000-10002-100000-100002/tcp, 0.0.0.0:32773->8030/tcp, 0.0.0.0:32776-38031/tcp, 0.0.0.0:32776-38030/tcp, 0.0.0.0:32773->8032/tcp, 0.0.0.0:32773->8033/tcp, 0.0.0.0:32773->8033/tcp, 0.0.0.0:32773->8033/tcp, 0.0.0.0:32773->8041/tcp, 0.0.0.0:32778->8042/tcp, 0.0.0.0:32778->8044/tcp, 0.0.0.0:32778->8044/tcp, 0.0.0.0:32778->8054/tcp, 0.0.0.0:32778->9864/tcp, 0.0.0.0:327780->9867/tcp, 0.0.0.0:32778->8032/tcp, 0.0.0.0:32778->8032/tcp, 0.0.0.0:32778->50070/tcp, 0.0.0:32784->50070/tcp, 0.0.0:32784->50070/tcp, 0.0.0:32784->50070/tcp, 0.0.0:32783->50070/tcp, 0.0.0:32784->50070/tcp, 0.0.0:32784->50070/tcp, 0.0.0:32783->50070/tcp, 0.0.0:32784->50070/tcp, 0.0.0:32784->50070/tcp, 0.0.0:32783->50070/tcp, 0.0.0:32784->50070/tcp, 0.0.0:32784->50070/tcp,
```

8. Menjalankan perintah untuk meneruskan data dari flume ke hdfs

9. Melakukan verifikasi apakah file sudah masuk ke hdfs atau belum



10. Datanya sudah berhasil masuk ke hdfs dengan format CSV

