

LAB SHEET 01

SE6103 - Parallel and Distributed Systems

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04.

```
root@6653eb7db899:/# hdfs datanode &
[2] 299
root@6653eb7db899:/# 2024-11-18 15:51:43 088 INFO datanode.DataNode: STARTUP_MSG:
/*****
STARTUP_MSG: Starting DataNode
STARTUP_MSG: host = 6653eb7db899/172.17.0.2
STARTUP_MSG: args = []
STARTUP_MSG: version = 3.2.1
STARTUP_MSG: classpath = /etc/hadoop:/opt/hadoop-3.2.1/share/hadoop/common/Lib/commons-compress-1.18.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/checker-qual-2.5.2.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/commons-math3-3.1.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/nimbus-jose-jwt-4.41.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/kerby-config-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/erro
r-prone-annotations-2.2.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/commons-net-3.6.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/log4j-1.2.17.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/slf4j-api-1.7.25
.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/kerby-pkix-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/jetty-xml-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/jaxb-impl-2.2.5-1.jar:/opt
/hadoop-3.2.1/share/hadoop/common/Lib/netty-3.10.5.Final.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/httpcore-4.4.10.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/j2objc-annotations-1.1.jar:/opt/hadoop-3.2.1
/share/hadoop/common/Lib/metrics-core-3.2.4.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/kerb-identity-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/snappy-java-1.0.5.jar:/opt/hadoop-3.2.1/share/hadoop/
common/Lib/guava-27.0-jre.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/kerb-core-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/commons-beanutils-1.0.3.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/json-
smart-2.3.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/hadoop-annotations-3.2.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/token-provider-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/jackson-core-as
1-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/accessors-smart-1.2.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/listenablefuture-9999.0-empty-to-avoid-conflict-with-guava.jar:/opt/hadoop-3.2.1/share/h
adoop/common/Lib/woodstox-core-5.0.3.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/jackson-xc-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/scip-annotations-1.0-1.jar:/opt/hadoop-3.2.1/share/hadoop/commo
n/Lib/jackson-mapper-asl-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/jetty-webapp-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/jersey-server-1.19.jar:/opt/hadoop-3.2.1/share/hadoop/
common/Lib/jsr311-api-1.1.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/kerby-util-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/jersey-servlet-1.19.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/hadoop
-auth-3.2.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/kerby-xdr-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/jsr305-3.0.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/paramater-2.3.jar:/opt/hadoop-
3.2.1/share/hadoop/common/Lib/stax2-api-3.1.4.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/kerb-util-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/jsp-api-2.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/L
ib/commons-logging-1.2.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/audience-annotations-0.5.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/commons-configuration2-2.11.1.jar:/opt/hadoop-3.2.1/share/hadoop/commo
n/Lib/rx2j-1.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/gson-2.4.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/protobuf-java-2.6.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/curator-framework-2.13.0.jar:/
opt/hadoop-3.2.1/share/hadoop/common/Lib/jul-to-slf4j-1.7.25.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/zookeeper-3.4.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/jettison-1.1.jar:/opt/hadoop-3.2.1/s
hare/hadoop/common/Lib/kerb-crypto-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/jackson-databind-2.9.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/vent-admin-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/co
mon/Lib/jersey-ion-1.19.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/commons-codec-1.11.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/jetty-util-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/common/Li
b/animal-sniffer-annotations-1.17.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/jaxb-api-2.2.11.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/dnsjava-2.1.7.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/jackson
-core-2.9.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/kerb-simpleldc-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/commons-logging-1.1.3.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/commons-io-2.5.j
ar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/jetty-io-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/curator-recipes-2.13.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/commons-lang3-3.7.jar:/
opt/hadoop-3.2.1/share/hadoop/common/Lib/jetty-server-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/jetty-http-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/httrac-core-4.1.0
-incubating.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/kerb-common-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/jetty-servlet-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/httpclient
-4.5.6.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/jersey-core-1.19.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/jsch-0.1.54.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/commons-collections-3.2.2.jar:/opt/h
adoop-3.2.1/share/hadoop/common/Lib/curator-client-2.13.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/commons-io-2.10.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/failureaccess-1.0.jar:/opt/hadoop-3.2.1/share/had
oop/common/Lib/kerb-server-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/kerb-client-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/jackson-annotations-2.9.0.jar:/opt/hadoop-3.2.1/share/hadoop/commo
n/Lib/avro-1.7.7.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/slf4j-log4j12-1.7.25.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/kerby-asn1-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/Lib/javaw-servlet-a
pi-3.1.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/hadoop-common-3.2.1-tests.jar:/opt/hadoop-3.2.1/share/hadoop/common/hadoop-nfs-3.2.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/hadoop-kms-3.2.1.jar:/opt/hadoo
p-3.2.1/share/hadoop/common/hadoop-common-3.2.1.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Lib/commons-compress-1.18.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Lib/checker-qual-2.
5.2.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Lib/commons-math3-3.1.1.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Lib/nimbus-jose-jwt-4.41.1.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Lib/okhttp-2.7.5.jar:/opt/hadoop-3.
2.1/share/hadoop/hdfs/Lib/kerby-config-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Lib/error-prone-annotations-2.2.0.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Lib/commons-net-3.6.jar:/opt/hadoop-3.2.1/share/h
adoop/hdfs/Lib/log4j-1.2.17.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Lib/kerby-pkix-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Lib/jetty-xml-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Lib/jaxb-impl-2.2.5-1.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Lib/token-provider-9999.0-empty-to-avoid-conflict-with-guava.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Lib/woodstox-core-5.0.3.jar:/opt/hadoop-3.2.1/share/hadoop/hd
fs/Lib/jackson-xc-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Lib/scip-annotations-1.0-1.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Lib/jackson-mapper-asl-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Lib/jet
ty-webapp-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Lib/jersey-server-1.19.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Lib/jetty-util-ajax-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Li
b/okio-1.6.0.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Lib/jsr311-api-1.1.1.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Lib/kerby-util-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/Lib/commons-daemon-1.0.13.jar:/opt
```

05.

← ↻ ↺ ⓘ localhost:9870/dfshealth.html#tab-overview 🔍 🏠 ⚙️ 🌐

Hadoop

Overview

Datanodes

Datanode Volume Failures

Snapshot

Startup Progress

Utilities ▾

Overview '6653eb7db899:8020' (active)

Started:	Mon Nov 18 21:20:13 +0530 2024
Version:	3.2.1, rb3cbb467e22ea829b3808f467b01d07e0bf3842
Compiled:	Tue Sep 10 21:26:00 +0530 2019 by rohitsharmaks from branch-3.2.1
Cluster ID:	CID-7a63bccd-f9cd-48ff-a035-7b5e9cdfd034f
Block Pool ID:	BP-1100918260-172.17.0.2-1731944984911

Summary

Security is off.

Safemode is off.

1 files and directories, 0 blocks (0 replicated blocks, 0 erasure coded block groups) = 1 total filesystem object(s).

Heap Memory used 117.18 MB of 225.5 MB Heap Memory. Max Heap Memory is 1.71 GB.

Non Heap Memory used 44.79 MB of 46.31 MB Committed Non Heap Memory. Max Non Heap Memory is <unbounded>.

Configured Capacity:	1006.85 GB
Configured Remote Capacity:	0 B
DFS Used:	24 KB (0%)
Non DFS Used:	2.43 GB
DFS Remaining:	953.21 GB (94.67%)
Block Pool Used:	24 KB (0%)

```


[00] 6653eb7dbd899:/ yarn nodeanager &
[01] S661
root@6653eb7dbd899:/# 2024-11-18 16:01:15,966 INFO nodeanager.NodeManager: STARTUP_MSG:
#
#
#
STARTUP_MSG: Starting NodeManager
STARTUP_MSG: host = 6653eb7dbd899/172.17.0.2
STARTUP_MSG: args =
#
#
#
version: 3.2.1
STARTUP_MSG: classpath = /etc/hadoop/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-compress-1.18.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/checker-qual-2.5.2.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-math3-1.1.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/nimbus-jose-jwt-4.1.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerby-config-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/erf4j-prime-annotations-2.2.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-net-3.6.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/etcd4j-1.2.17.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/slf4j-api-1.7.25.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jetty-http-9.3.24.v20180805.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jetty-io-9.3.24.v20180805.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-core-2.13.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/netty-3.10.5.Final.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/htrace-core4-4.10.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/j2objc-annotations-1.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/metrics-core-3.2.4.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-identity-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/snappy-java-1.0.5.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/guava-27.0-jre.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-core-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-beanutils-1.9.3.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jion-smart-2.3.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-collections-4.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-lang3-3.12.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/accessors-smart-1.2.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/listenablefuture-9999-0-empty-to-avoid-conflict-with-guava.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/woodstox-core-5.0.3.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-xc-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/cip-annotations-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/hadoop-watcher-mapper-asl-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jetty-http-9.3.24.v20180805.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jersey-server-1.19.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-jaxrs-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerby-xdr-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jax-rs-3.0.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/parameters-2.5.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/stax2-api-1.3.4.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-util-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jsp-api-1.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-logging-1.2.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/audience-annotations-0.5.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-configuration-2.11.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-jaxrs-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/groovy-all-2.4.12.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jetty-util-9.3.24.v20180805.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jul-to-slf4j-1.7.25.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/zipkeeper-3.4.15.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jettison-1.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-jaxrs-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-text-1.4.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jetty-security-9.3.24.v20180805.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-crypto-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-databind-2.9.8.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-admin-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-core-2.11.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-codec-1.11.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jetty-http-9.3.24.v20180805.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/htx-secure-4.1.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/b/animal-sniffer-annotations-1.17.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jack-ab-1.2.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/dnsjava-2.1.7.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-core-2.9.8.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-simpleldif-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-logging-1.1.3.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-io-2.5.jar:/opt/hadoop-3.2.1/share/hadoop-common/lib/jetty-io-9.3.24.v20180805.jar:/opt/hadoop-3.2.1/share/hadoop-common/lib/curator-recipes-2.13.0.jar:/opt/hadoop-3.2.1/share/hadoop-common/lib/commons-lang3-3.7.jar:/opt/hadoop-3.2.1/share/hadoop-common/lib/curator-framework-2.13.0.jar:/opt/hadoop-3.2.1/share/hadoop-common/lib/kerb-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop-common/lib/jetty-servlet-9.3.24.v20180805.jar:/opt/hadoop-3.2.1/share/hadoop-common/lib/httpclient-4.5.6.jar:/opt/hadoop-3.2.1/share/hadoop-common/lib/jersey-core-1.19.jar:/opt/hadoop-3.2.1/share/hadoop-common/lib/jsch-0.1.54.jar:/opt/hadoop-3.2.1/share/hadoop-common/lib/commons-collections-3.2.2.jar:/opt/hadoop-3.2.1/share/hadoop-common/lib/curator-client-2.13.0.jar:/opt/hadoop-3.2.1/share/hadoop-common/lib/asm-0.4.jar:/opt/hadoop-3.2.1/share/hadoop-common/lib/failureaccess-1.0.jar:/opt/hadoop-3.2.1/share/hadoop-common/lib/avro-1.7.7.jar:/opt/hadoop-3.2.1/share/hadoop-common/lib/slf4j-log4j12-1.7.25.jar:/opt/hadoop-3.2.1/share/hadoop-common/lib/kerby-asn1-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop-common/lib/javax.servlet-api-3.1.0.jar:/opt/hadoop-3.2.1/share/hadoop-common/hadoop-common-3.2.1-tests.jar:/opt/hadoop-3.2.1/share/hadoop-common/hadoop-nfs-3.2.1.jar:/opt/hadoop-3.2.1/share/hadoop-common/hadoop-lms-3.2.1.jar:/opt/hadoop-3.2.1/share/hadoop-common/hadoop-mapreduce-3.2.1.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/commons-compress-1.18.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/checker-qual-2.5.2.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/kerby-config-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/error-prime-annotations-2.2.0.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/commons-net-3.6.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/log4j-2.12.17.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/kerby-pkix-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/jetty-xml-9.3.24.v20180805.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/javax-impl-2.2-3.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/netty-3.10.5.Final.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/httplibcore-4.10.0.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/j2objc-annotations-1.1.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/jion-smart-2.3.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/commons-collections-4.1.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/commons-lang3-3.12.0.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/accessors-smart-1.2.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/listenablefuture-9999-0-empty-to-avoid-conflict-with-guava.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/woodstox-core-5.0.3.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/jackson-jaxrs-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/groovy-all-2.4.12.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/jetty-http-9.3.24.v20180805.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/jetty-util-ajax-9.3.24.v20180805.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/b/okio-1.6.6.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/jsr311-asl-1.1.1.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/kerby-util-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop-hdfs/lib/commons-daemon-1.0.13.jar:/opt

```

```

[0] 7621
root@6653eb7bd899:/ # yarn resourceManager &
root@6653eb7bd899:/ # 2024-11-18 16:02:56,723 INFO ResourceManager.ResourceManager: STARTUP_MSG:
ResourceManager:
STARTUP_MSG: Starting ResourceManager
STARTUP_MSG: host = 6653eb7bd899/172.17.0.2
STARTUP_MSG: args = []
STARTUP_MSG: version = 3.2.1
STARTUP_MSG: classpath = /etc/hadoop:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-compress-1.18.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/libchecker-qual-2.5.2.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-math3-3.1.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/nimbus-jose-jwt-4.1.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerby-config-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/error_prone_annotations-2.0.8.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-net-3.6.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/log4j-1.2.17.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/slf4j-api-1.7.25.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/annotations-2.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/protobuf-java-3.19.5.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-core-2.13.4.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/netty-3.10.5.Final.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/htrace-core4-4.10.6.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/zipkin-annotations-1.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/metrics-core-3.2.4.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerby-identity-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/snappy-java-1.0.5.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/guava-27.0-jre.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-core-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-beanutils-1.9.3.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/json-schema-validator-2.0.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/woodstox-core-5.0.3.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-xc-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/cip-annotations-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/hadoop-wapper-ast-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/libty-behapp-9.3.24.v20180695.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jersey-server-1.19.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/curator-recipes-2.12.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerby-xdr-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jsr305-3.0.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/paranamer-2.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/stax2-api-3.1.4.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerby-util-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jsp-api-2.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-logging-1.1.3.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/audience-annotations-0.6.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-configuration2-2.11.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jetty-http-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jetty-security-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jetty-util-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerby-asn1-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jaxb-api-2.1.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/dnsjava-2.1.7.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/htrace-core4-4.10.6.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-collections-3.2.2.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/curator-client-2.13.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/asm-5.0.4.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/failureaccess-1.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/curator-recipes-2.12.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/slf4j-log4j12-1.7.25.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerby-ans1-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/javax-servlet-api-3.1.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/hadoop-common-3.2.1-tests.jar:/opt/hadoop-3.2.1/share/hadoop/common/hadoop-nfs-3.2.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/hadoop-hms-3.2.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/hadoop-hdfs-3.2.1.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/hadoop-hdfs-3.2.1/share/hadoop/hdfs/lib/commons-compress-1.18.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/libchecker-qual-2.5.2.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/kerby-config-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/error_prone_annotations-2.0.8.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/commons-net-3.6.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/log4j-1.2.17.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/kerby-pkix-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/jetty-xml-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/javax-impl-2.3-1.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/netty-3.10.5.Final.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/htrace-core4-4.10.6.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/zipkin-annotations-1.1.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/metrics-core-3.2.4.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/kerb-core-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/commons-beanutils-1.9.3.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/json-schema-validator-2.0.0.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/token-provider-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/jackson-core-ast-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/accessors-smart-1.2.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/listenablefuture-9999-0-empty-to-avoid-conflict-with-guava.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/woodstox-core-5.0.3.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/protobuf-java-3.19.5.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/ty-behapp-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/jersey-server-1.19.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/jetty-util-ajax-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/commons-daemon-1.0.13.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/jsr311-api-1.1.1.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/kerby-util-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/commons-daemon-1.0.13.jar:/opt

```



All Applications

Cluster Metrics

Apps Submitted	Apps Pending	Apps Running	Apps Completed	Containers Running	Memory Used	Memory Total	Memory Reserved	Vcores Used	Vcores Total	Vcores Reserved
0	0	0	0	0	0 B	8 GB	0 B	0	8	0

Cluster Nodes Metrics

Active Nodes	Decommissioning Nodes	Decommissioned Nodes	Lost Nodes	Unhealthy Nodes	Rebooted Nodes	Shutdown Nodes
1	0	0	0	0	0	0

Scheduler Metrics

Scheduler Type	Scheduling Resource Type	Minimum Allocation	Maximum Allocation	Maximum Cluster Application Priority
Capacity Scheduler	[memory-mb (unit-MB), vcores]	<memory 1024, vCores 1>	<memory 8192, vCores 4>	0

Show 20 entries

ID	User	Name	Application Type	Queue	Application Priority	StartTime	LaunchTime	FinishTime	State	FinalStatus	Running Containers	Allocated CPU Vcores	Allocated Memory MB	Reserved CPU Vcores	Reserved Memory MB	% of Queue	% of Cluster	Progress	Tracking UI	Blacklisted Nodes
No data available in table																				

Showing 0 to 0 of 0 entries

First Previous Next Last

09.

```
root@6653eb7db899:/# hdfs dfs -mkdir -p /user/hadoop/input
2024-11-18 16:06:59,007 INFO namenode.FSEditLog: Number of transactions: 4 Total time for transactions(ms): 12 Number of transactions batched in Syncs: 0 Number of syncs: 2 SyncTimes(ms): 11
```

10.

```
root@6653eb7db899:/# hdfs dfs -put SHADOOP_HOME/etc/hadoop/*.xml /user/hadoop/input
2024-11-18 16:09:10,323 INFO namenode.FSEditLog: Number of transactions(ms): 13 Number of transactions batched in Syncs: 2 Number of syncs: 3 SyncTimes(ms): 12
2024-11-18 16:09:10,365 INFO hdfs.StateChange: BLOCK* allocate blk_1073741825_1001, replicas=172.17.0.2:9866 for /user/hadoop/input/capacity-scheduler.xml._COPYING_
2024-11-18 16:09:10,386 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
2024-11-18 16:09:19,454 INFO datanode.DataNode: Receiving BP-1108918268-172.17.0.2-1731944984911:blk_1073741825_1001 src: /172.17.0.2:41114 dest: /172.17.0.2:9866
2024-11-18 16:09:19,505 INFO datanode.DataNode: clienttrace: src: /172.17.0.2:41114, dest: /172.17.0.2:9866, bytes: 8609, op: HDFS_WRITE, cliID: DFSClient_NONMAPREDUCE_1155509012_1, offset: 0, srvID: 2b22eafb-0010-4983-8e2b-8aeb5a35adea, blockID: BP-1108918268-172.17.0.2-1731944984911:blk_1073741825_1001, duration(ns): 25925420
2024-11-18 16:09:19,505 INFO datanode.DataNode: PacketResponder: BP-1108918268-172.17.0.2-1731944984911:blk_1073741825_1001, type=LAST_IN_PIPELINE terminating
2024-11-18 16:09:19,514 INFO namenode.FSNamesystem: BLOCK* blk_1073741825_1001 is COMMITTED but not COMPLETE(numNodes= 0 < minimum = 1) in file /user/hadoop/input/capacity-scheduler.xml._COPYING_
2024-11-18 16:09:19,919 INFO hdfs.StateChange: DIR* completeFile: /user/hadoop/input/capacity-scheduler.xml._COPYING_ is closed by DFSClient_NONMAPREDUCE_1155509012_1
2024-11-18 16:09:19,940 INFO hdfs.StateChange: BLOCK* allocate blk_1073741826_1002, replicas=172.17.0.2:9866 for /user/hadoop/input/core-site.xml._COPYING_
2024-11-18 16:09:19,943 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
2024-11-18 16:09:19,944 INFO datanode.DataNode: Receiving BP-1108918268-172.17.0.2-1731944984911:blk_1073741826_1002 src: /172.17.0.2:41130 dest: /172.17.0.2:9866
2024-11-18 16:09:19,947 INFO datanode.DataNode: clienttrace: src: /172.17.0.2:41130, dest: /172.17.0.2:9866, bytes: 860, op: HDFS_WRITE, cliID: DFSClient_NONMAPREDUCE_1155509012_1, offset: 0, srvID: 2b22eafb-0010-4983-8e2b-8aeb5a35adea, blockID: BP-1108918268-172.17.0.2-1731944984911:blk_1073741826_1002, duration(ns): 14950531
2024-11-18 16:09:19,948 INFO datanode.DataNode: PacketResponder: BP-1108918268-172.17.0.2-1731944984911:blk_1073741826_1002, type=LAST_IN_PIPELINE terminating
2024-11-18 16:09:19,950 INFO hdfs.StateChange: DIR* completeFile: /user/hadoop/input/core-site.xml._COPYING_ is closed by DFSClient_NONMAPREDUCE_1155509012_1
2024-11-18 16:09:19,985 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
2024-11-18 16:09:19,968 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
2024-11-18 16:09:19,968 INFO datanode.DataNode: Receiving BP-1108918268-172.17.0.2-1731944984911:blk_1073741827_1003 src: /172.17.0.2:41134 dest: /172.17.0.2:9866
2024-11-18 16:09:19,971 INFO datanode.DataNode: clienttrace: src: /172.17.0.2:41134, dest: /172.17.0.2:9866, bytes: 11392, op: HDFS_WRITE, cliID: DFSClient_NONMAPREDUCE_1155509012_1, offset: 0, srvID: 2b22eafb-0010-4983-8e2b-8aeb5a35adea, blockID: BP-1108918268-172.17.0.2-1731944984911:blk_1073741827_1003, duration(ns): 1487250
2024-11-18 16:09:19,972 INFO datanode.DataNode: PacketResponder: BP-1108918268-172.17.0.2-1731944984911:blk_1073741827_1003, type=LAST_IN_PIPELINE terminating
2024-11-18 16:09:19,973 INFO hdfs.StateChange: DIR* completeFile: /user/hadoop/input/hadoop-policy.xml._COPYING_ is closed by DFSClient_NONMAPREDUCE_1155509012_1
2024-11-18 16:09:19,963 INFO hdfs.StateChange: BLOCK* allocate blk_1073741828_1004, replicas=172.17.0.2:9866 for /user/hadoop/input/hdfs-site.xml._COPYING_
2024-11-18 16:09:19,985 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
2024-11-18 16:09:19,968 INFO datanode.DataNode: Receiving BP-1108918268-172.17.0.2-1731944984911:blk_1073741828_1004 src: /172.17.0.2:41148 dest: /172.17.0.2:9866
2024-11-18 16:09:19,977 INFO datanode.DataNode: clienttrace: src: /172.17.0.2:41148, dest: /172.17.0.2:9866, bytes: 1385, op: HDFS_WRITE, cliID: DFSClient_NONMAPREDUCE_1155509012_1, offset: 0, srvID: 2b22eafb-0010-4983-8e2b-8aeb5a35adea, blockID: BP-1108918268-172.17.0.2-1731944984911:blk_1073741828_1004, duration(ns): 1654659
2024-11-18 16:09:19,989 INFO datanode.DataNode: PacketResponder: BP-1108918268-172.17.0.2-1731944984911:blk_1073741828_1004, type=LAST_IN_PIPELINE terminating
2024-11-18 16:09:19,991 INFO hdfs.StateChange: DIR* completeFile: /user/hadoop/input/hdfs-site.xml._COPYING_ is closed by DFSClient_NONMAPREDUCE_1155509012_1
2024-11-18 16:09:20,001 INFO hdfs.StateChange: BLOCK* allocate blk_1073741829_1005, replicas=172.17.0.2:9866 for /user/hadoop/input/https-site.xml._COPYING_
2024-11-18 16:09:20,005 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
2024-11-18 16:09:20,009 INFO datanode.DataNode: Receiving BP-1108918268-172.17.0.2-1731944984911:blk_1073741829_1005 src: /172.17.0.2:41156 dest: /172.17.0.2:9866
2024-11-18 16:09:20,009 INFO datanode.DataNode: clienttrace: src: /172.17.0.2:41156, dest: /172.17.0.2:9866, bytes: 620, op: HDFS_WRITE, cliID: DFSClient_NONMAPREDUCE_1155509012_1, offset: 0, srvID: 2b22eafb-0010-4983-8e2b-8aeb5a35adea, blockID: BP-1108918268-172.17.0.2-1731944984911:blk_1073741829_1005, duration(ns): 1489560
2024-11-18 16:09:20,009 INFO datanode.DataNode: PacketResponder: BP-1108918268-172.17.0.2-1731944984911:blk_1073741829_1005, type=LAST_IN_PIPELINE terminating
2024-11-18 16:09:20,012 INFO hdfs.StateChange: DIR* completeFile: /user/hadoop/input/https-site.xml._COPYING_ is closed by DFSClient_NONMAPREDUCE_1155509012_1
2024-11-18 16:09:20,423 INFO hdfs.StateChange: BLOCK* allocate blk_1073741830_1006, replicas=172.17.0.2:9866 for /user/hadoop/input/kms-acls.xml._COPYING_
2024-11-18 16:09:20,426 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
2024-11-18 16:09:20,427 INFO datanode.DataNode: Receiving BP-1108918268-172.17.0.2-1731944984911:blk_1073741830_1006 src: /172.17.0.2:41168 dest: /172.17.0.2:9866
2024-11-18 16:09:20,430 INFO datanode.DataNode: clienttrace: src: /172.17.0.2:41168, dest: /172.17.0.2:9866, bytes: 3518, op: HDFS_WRITE, cliID: DFSClient_NONMAPREDUCE_1155509012_1, offset: 0, srvID: 2b22eafb-0010-4983-8e2b-8aeb5a35adea, blockID: BP-1108918268-172.17.0.2-1731944984911:blk_1073741830_1006, duration(ns): 1869566
2024-11-18 16:09:20,430 INFO datanode.DataNode: PacketResponder: BP-1108918268-172.17.0.2-1731944984911:blk_1073741830_1006, type=LAST_IN_PIPELINE terminating
2024-11-18 16:09:20,431 INFO hdfs.StateChange: BLOCK* blk_1073741830_1006 is COMMITTED but not COMPLETE(numNodes= 0 < minimum = 1) in file /user/hadoop/input/kms-acls.xml._COPYING_
2024-11-18 16:09:20,833 INFO hdfs.StateChange: DIR* completeFile: /user/hadoop/input/kms-acls.xml._COPYING_ is closed by DFSClient_NONMAPREDUCE_1155509012_1
2024-11-18 16:09:20,845 INFO hdfs.StateChange: BLOCK* allocate blk_1073741831_1007, replicas=172.17.0.2:9866 for /user/hadoop/input/kms-site.xml._COPYING_
2024-11-18 16:09:20,848 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
```

11.

```
root@6653eb7db899:/# hadoop jar SHADOOP_HOME/share/hadoop/mapreduce/hadoop-mapreduce-examples-*.jar wordcount /user/hadoop/input /user/hadoop/output
2024-11-18 16:10:44,166 INFO impl.MetricsConfig: Loaded properties from hadoop-metrics2.properties
2024-11-18 16:10:44,239 INFO impl.MetricsSystemImpl: Scheduled Metric snapshot period at 10 second(s).
2024-11-18 16:10:44,239 INFO impl.MetricsSystemImpl: JobTracker metrics system started
2024-11-18 16:10:44,451 INFO input.FileInputFormat: Total input files to process : 9
2024-11-18 16:10:44,472 INFO mapreduce.JobSubmitter: number of splits: 9
2024-11-18 16:10:44,595 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_local1887271199_0001
2024-11-18 16:10:44,595 INFO mapreduce.JobSubmitter: Executing with tokens: []
2024-11-18 16:10:44,671 INFO mapreduce.Job: The url to track the job: http://localhost:8080/
2024-11-18 16:10:44,672 INFO mapreduce.Job: Running job: job_local1887271199_0001
2024-11-18 16:10:44,673 INFO mapred.LocalJobRunner: OutputCommitter set in config null
2024-11-18 16:10:44,681 INFO output.FileOutputCommitter: File Output Committer Algorithm version is 2
2024-11-18 16:10:44,682 INFO output.FileOutputCommitter: FileOutputCommitter skip cleanup_temporary folders under output directory:false, ignore cleanup failures: false
2024-11-18 16:10:44,682 INFO mapred.LocalJobRunner: OutputCommitter is org.apache.hadoop.mapreduce.lib.output.FileOutputCommitter
2024-11-18 16:10:44,688 INFO namenode.FSEditLog: Number of transactions: 61 Total time for transactions(ms): 14 Number of transactions batched in Syncs: 11 Number of syncs: 48 SyncTimes(ms): 70
2024-11-18 16:10:44,713 INFO mapred.LocalJobRunner: Waiting for map tasks
2024-11-18 16:10:44,713 INFO mapred.LocalJobRunner: Starting task: attempt_local1887271199_0001_m_0000000_0
2024-11-18 16:10:44,729 INFO output.FileOutputCommitter: File Output Committer Algorithm version is 2
2024-11-18 16:10:44,729 INFO output.FileOutputCommitter: FileOutputCommitter skip cleanup_temporary folders under output directory:false, ignore cleanup failures: false
2024-11-18 16:10:44,743 INFO mapred.Task: Using ResourceCalculatorProcessTree : [ ]
2024-11-18 16:10:44,745 INFO mapred.MapTask: Processing split: hdfs://6653eb7db899:8020/user/hadoop/input/hadoop-policy.xml:0+11392
2024-11-18 16:10:44,777 INFO mapred.MapTask: (EQUATOR) 0 kv: 26214396(104857504)
2024-11-18 16:10:44,777 INFO mapred.MapTask: mapreduce.task.io.sort.mb: 100
2024-11-18 16:10:44,777 INFO mapred.MapTask: soft limit at 83866080
2024-11-18 16:10:44,777 INFO mapred.MapTask: bufstart = 0; bufvoid = 104857600
2024-11-18 16:10:44,777 INFO mapred.MapTask: kstart = 16214396; length = 6553600
2024-11-18 16:10:44,781 INFO mapred.MapTask: Map output collector class = org.apache.hadoop.mapred.MapTask$MapOutputBuffer
2024-11-18 16:10:44,897 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
2024-11-18 16:10:44,894 INFO mapred.LocalJobRunner:
2024-11-18 16:10:44,897 INFO mapred.MapTask: Starting flush of map output
2024-11-18 16:10:44,897 INFO mapred.MapTask: Spilling map output
2024-11-18 16:10:44,897 INFO mapred.MapTask: bufstart = 0; bufend = 15783; bufvoid = 104857600
2024-11-18 16:10:44,897 INFO mapred.MapTask: bufstart = 26214396(104857504); kwend = 26209160(104836640); Length = 5237/6553600
2024-11-18 16:10:44,910 INFO mapred.MapTask: Finished spill 0
2024-11-18 16:10:44,922 INFO mapred.Task: Task:attempt_local1887271199_0001_m_0000000_0 is done. And is in the process of committing
2024-11-18 16:10:44,926 INFO mapred.LocalJobRunner: map
2024-11-18 16:10:44,926 INFO mapred.Task: Task:attempt_local1887271199_0001_m_0000000_0 done.
2024-11-18 16:10:44,932 INFO mapred.Task: Final Counters for attempt_local1887271199_0001_m_0000000_0: Counters: 24
```

12.

```

root@6653eb7db899:/# hdfs dfs -cat /user/hadoop/output/part-r-00000
2024-11-18 16:16:05,467 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
**      21
"AS      9
"License");      9
"alice,bob      21
"clumping"      1
(ASF)      1
(root      1
(the      9
-->      18
-1      1
-1,      1
0.0      1
1-MAX_INT.      1
1.      1
1.0.      1
2.0      9
40      2
40+20=60      1
:      2
<!--      18
</configuration>      9
</description>      33
</name>      2
</property>      57
<?xml      8
<?xml-stylesheet      4
<configuration>      9
<description>      31
<description>ACL      25
<description>Default      1
<name>default.key.acl.DECRYPT_EEK</name>      1
<name>default.key.acl.GENERATE_EEK</name>      1
<name>default.key.acl.MANAGEMENT</name>      1
<name>default.key.acl.READ</name>      1
<name>hadoop.kms.acl.CREATE</name>      1
<name>hadoop.kms.acl.DECRYPT_EEK</name>      1
<name>hadoop.kms.acl.DELETE</name>      1
<name>hadoop.kms.acl.GENERATE_EEK</name>      1
<name>hadoop.kms.acl.GET</name>      1
<name>hadoop.kms.acl.GET_KEYS</name>      1
<name>hadoop.kms.acl.GET_METADATA</name>      1
<name>hadoop.kms.acl.ROLLOVER</name>      1
<name>hadoop.kms.acl.SET_KEY_MATERIAL</name>      1
<name>security.admin.operations.protocol.acl</name>      1
<name>security.applicationclient.protocol.acl</name>      1
<name>security.applicationhistory.protocol.acl</name>      1
<name>security.applicationmaster-nodemanager.applicationmaster.protocol.acl</name>      1
<name>security.applicationmaster.protocol.acl</name>      1

```