Practical No. 01

Hadoop -version


```
Microsoft Windows [Version 10.0.22631.4037]
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C:\Windows\System32>hadoop -version
java version "1.8.0_411"
Java(TM) SE Runtime Environment (build 1.8.0_411-b09)
Java HotSpot(TM) 64-Bit Server VM (build 25.411-b09, mixed mode)

C:\Windows\System32>
```

Hdfs namenode -format


```
C:\Windows\System32>hdfs namenode -format
2024-08-25 22:09:53,806 INFO namenode.NameNode: STARTUP_MSG:
/************************************************************
STARTUP_MSG: Starting NameNode
STARTUP_MSG:   host = MSI/192.168.10.35
STARTUP_MSG:   args = [-format]
STARTUP_MSG:   version = 3.3.0
STARTUP_MSG:   classpath = G:\hadoop-3.3.0\etc\hadoop;G:\hadoop-3.3.0\share\hadoop\common;G:\hadoop-3.3.0\share\hadoop\c
ommon\lib\accessors-smart-1.2.jar;G:\hadoop-3.3.0\share\hadoop\common\lib\animal-sniffer-annotations-1.17.jar;G:\hadoop-
3.3.0\share\hadoop\common\lib\asm-5.0.4.jar;G:\hadoop-3.3.0\share\hadoop\common\lib\audience-annotations-0.5.0.jar;G:\ha
doop-3.3.0\share\hadoop\common\lib\avro-1.7.7.jar;G:\hadoop-3.3.0\share\hadoop\common\lib\checker-qual-2.5.2.jar;G:\hado
op-3.3.0\share\hadoop\common\lib\commons-beanutils-1.9.4.jar;G:\hadoop-3.3.0\share\hadoop\common\lib\commons-cli-1.2.jar
;G:\hadoop-3.3.0\share\hadoop\common\lib\commons-codec-1.11.jar;G:\hadoop-3.3.0\share\hadoop\common\lib\commons-collecti
ons-3.2.2.jar;G:\hadoop-3.3.0\share\hadoop\common\lib\commons-compress-1.19.jar;G:\hadoop-3.3.0\share\hadoop\common\lib\
commons-configuration2-2.1.1.jar;G:\hadoop-3.3.0\share\hadoop\common\lib\commons-daemon-1.0.13.jar;G:\hadoop-3.3.0\share
\hadoop\common\lib\commons-io-2.5.jar;G:\hadoop-3.3.0\share\hadoop\common\lib\commons-lang3-3.7.jar;G:\hadoop-3.3.0\shar
e\hadoop\common\lib\commons-logging-1.1.3.jar;G:\hadoop-3.3.0\share\hadoop\common\lib\commons-math3-3.1.1.jar;G:\hadoop-
3.3.0\share\hadoop\common\lib\commons-net-3.6.jar;G:\hadoop-3.3.0\share\hadoop\common\lib\commons-text-1.4.jar;G:\hadoop
```

start-all.cmd

Jps

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.22631.3958]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>start-all
This script is Deprecated. Instead use start-dfs.cmd and start-yarn.cmd
starting yarn daemons

C:\Windows\System32>jps
20704 Jps
21472 NodeManager
9328 DataNode
23592 NameNode
6300 ResourceManager

C:\Windows\System32>hadoop -version
java version "1.8.0_411"
Java(TM) SE Runtime Environment (build 1.8.0_411-b09)
Java HotSpot(TM) 64-Bit Server VM (build 25.411-b09, mixed mode)
```

Localhost:8088/cluster

hadoop

All Applications

localhost:8088/cluster

Cluster
- About
- Nodes
- Node Labels
- Applications
  - NEW
  - NEW_SAVING
  - SUBMITTED
  - ACCEPTED
  - RUNNING
  - FINISHED
  - FAILED
  - KILLED
- Scheduler
- Tools

Cluster Metrics

Apps Submitted	Apps Pending	Apps Running	Apps Completed	Containers Running	Memory Used
0	0	0	0	0	0 B

Cluster Nodes Metrics

Active Nodes	Decommissioning Nodes	Decommissioned Nodes	Lost Node
1	0	0	0
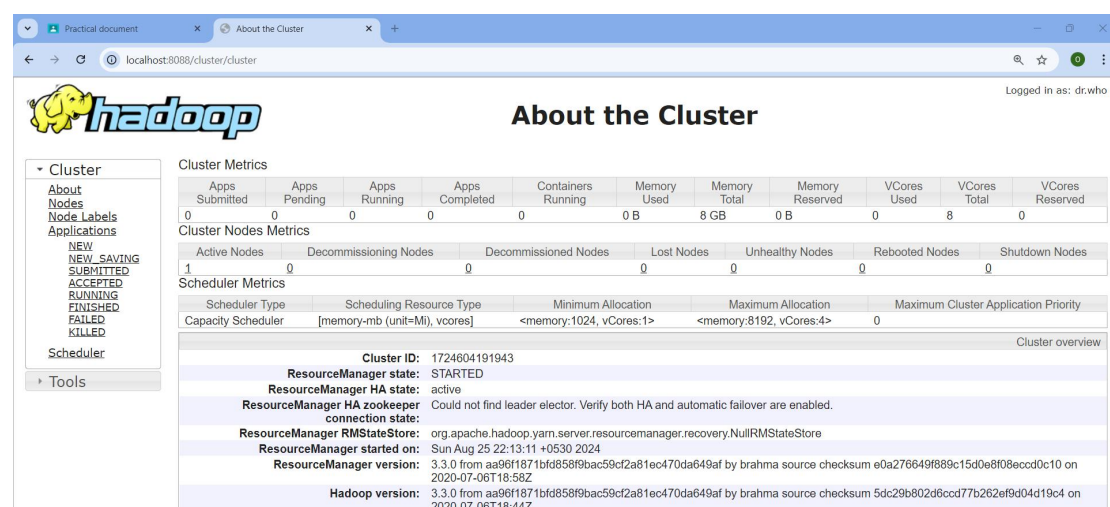
Scheduler Metrics

Scheduler Type	Scheduling Resource Type	Minimum Allocation
Capacity Scheduler	[memory-mb (unit=Mi), vcores]	<memory:1024, vCores:1>

Show 20 entries

ID	User	Name	Application Type	Application Tags	Queue	Application Priority	StartTime	LaunchTime	FinishTime	State	FinalStatus	
									No data available in table			

Showing 0 to 0 of 0 entries

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hadoop

Logged in as: dr.who

About the Cluster

localhost:8088/cluster/cluster

Cluster
- About
- Nodes
- Node Labels
- Applications
  - NEW
  - NEW_SAVING
  - SUBMITTED
  - ACCEPTED
  - RUNNING
  - FINISHED
  - FAILED
  - KILLED
- Scheduler
- Tools

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=Mi), vcores]	<memory:1024, vCores:1>	<memory:8192, vCores:4>	0

Cluster overview

Cluster ID:	1724604191943
ResourceManager state:	STARTED
ResourceManager HA state:	active
ResourceManager HA zookeeper connection state:	Could not find leader elector. Verify both HA and automatic failover are enabled.
ResourceManager RMStateStore:	org.apache.hadoop.yarn.server.resourcemanager.recovery.NullRMStateStore
ResourceManager started on:	Sun Aug 25 22:13:11 +0530 2024
ResourceManager version:	3.3.0 from aa96f1871bfd858f9bac59cf2a81ec470da649af by brahma source checksum e0a276649f889c15d0e8f08eccd0c10 on 2020-07-06T18:58Z
Hadoop version:	3.3.0 from aa96f1871bfd858f9bac59cf2a81ec470da649af by brahma source checksum 5dc29b802d6ccd77b262ef9d04d19c4 on 2020-07-06T18:44Z

```
C:\Windows\System32>start-all
This script is Deprecated. Instead use start-dfs.cmd and start-yarn.cmd
starting yarn daemons

C:\Windows\System32>jps
19520 Jps
21792 NameNode
2356 DataNode
18904 ResourceManager
22392 NodeManager

C:\Windows\System32>hdfs dfs -mkdir /demo

C:\Windows\System32>hdfs dfs -ls /demo

C:\Windows\System32>hdfs dfs -put "G:\BDAV\data.txt" /demo
```

Browse Directory

	Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name	
☐	drwxr-xr-x	omkar	supergroup	0 B	Aug 26 00:02	0	0 B	demo	🗑

Showing 1 to 1 of 1 entries

Hadoop, 2020.

```
C:\Windows\System32>hdfs dfs -mkdir /demo

C:\Windows\System32>hdfs dfs -ls /demo

C:\Windows\System32>hdfs dfs -put "G:\BDAV\data.txt" /demo

C:\Windows\System32>hdfs dfs -copyFromLocal "G:\BDAV\test1.txt" /demo

C:\Windows\System32>hdfs dfs -get /demo "G:\BDAV\test2.txt"

C:\Windows\System32>hdfs dfs -get /demo/data.txt "G:\BDAV\test2.txt"
get: `G:/BDAV/test2.txt/data.txt': File exists

C:\Windows\System32>hdfs dfs -get /demo/data.txt "G:\BDAV\test3.txt"

C:\Windows\System32>hdfs dfs -cat /demo/data.txt
This My file MCA Wala
Hello World
1
2
3
4
5
6
7
8
9
C:\Windows\System32>
```

Browse Directory

				Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name	
☐				drwxr-xr-x	omkar	supergroup	0 B	Aug 26 00:10	0	0 B	BigDemo	🗑

Showing 1 to 1 of 1 entries

Previous 1 Next

Browse Directory

		Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name	
☐		-rw-r--r--	omkar	supergroup	61 B	Aug 26 00:13	1	128 MB	DataFlair	🗑
☐		drwxr-xr-x	omkar	supergroup	0 B	Aug 26 00:06	0	0 B	demo	🗑

Showing 1 to 2 of 2 entries

Previous 1 Next