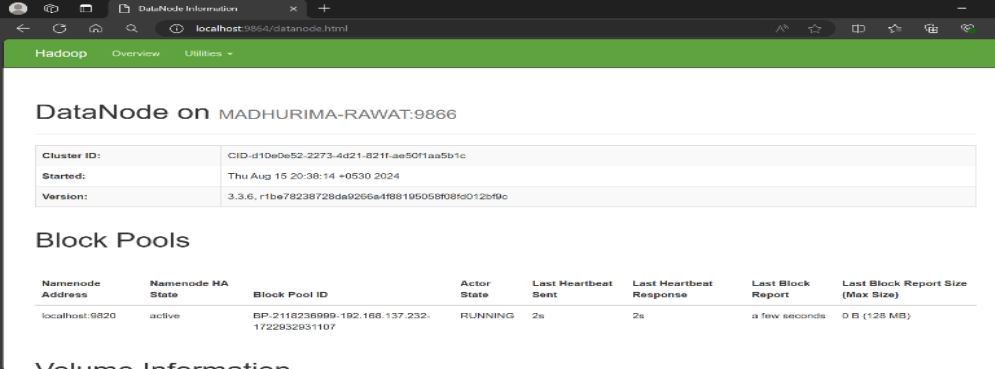


Experiment 1

Aim: Installation of Hadoop on local machine.

DataNode:



DataNode on MADHURIMA-RAWAT:9866

Cluster ID:	CID-d10e0e52-2273-4d21-821f-ae50f1aa5b1c
Started:	Thu Aug 15 20:38:14 +0530 2024
Version:	3.3.6, r1be78238728da9266a4f88195058f08f5012b9f0c

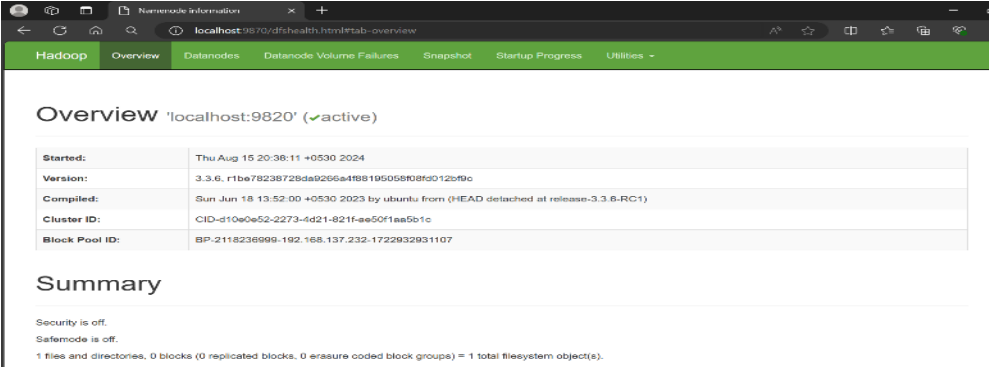
Block Pools

Namenode Address	Namenode HA State	Block Pool ID	Actor State	Last Heartbeat Sent	Last Heartbeat Response	Last Block Report	Last Block Report Size (Max Size)
localhost:9820	active	BP-2118236999-192.168.137.232-1722932931107	RUNNING	2s	2s	a few seconds	0 B (128 MB)

Volume Information

Fig 1: DataNode in Localhost

NameNode:



Overview 'localhost:9820' (✓active)

Started:	Thu Aug 15 20:38:11 +0530 2024
Version:	3.3.6, r1be78238728da9266a4f88195058f08f5012b9f0c
Compiled:	Sun Jun 18 13:52:00 +0530 2023 by ubuntu from (HEAD detached at release-3.3.6-RC1)
Cluster ID:	CID-d10e0e52-2273-4d21-821f-ae50f1aa5b1c
Block Pool ID:	BP-2118236999-192.168.137.232-1722932931107

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).

Fig 2: NameNode in Localhost

Hadoop Cluster:



hadoop

All Applications

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	Used Resources	Total Resources
0	0	0	0	0	<memory:0 B, vCores:0>	<memory:8 GB, vCores:8>

Cluster Nodes Metrics

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

Scheduler Metrics

Scheduler Type	Scheduling Resource Type	Minimum Allocation	Maximum Allocation
Capacity Scheduler	[memory-mb (unit=M), vcores]	<memory:1024, vCores:1>	<memory:8192, vCores:4>

Show 20 entries

ID	User	Name	Application Type	Queue	Application Priority	StartTime	LaunchTime	FinishTime	State	FinalStatus	Running Containers	Allocated CPU vCores	Allocated Memory MB	Allocated GPUs
No data available in table														

Showing 0 to 0 of 0 entries

Fig 3: Hadoop Cluster in Localhost