



4 Hadoop cluster in HDFS

➤ Project	📌 AV
☑ Done	☐
☰ Days (Only if Set to 1 Day(s))	
☀ Priority	🍌 Medium
☰ Contexts	

<input type="checkbox"/>	<input type="radio"/>	sonarqube-db	506ebf9e4ef6	postgres:alpine	0%	3 months ago	▶
<input type="checkbox"/>	▼	hadoop-cluster	-	-	9.26%	14 minutes ago	■
<input type="checkbox"/>	●	namenode	🚩 AMD 2f3b9d47651f	apache/hadoop:3.4.1 9870:9870 ↗	0.76%	14 minutes ago	■
<input type="checkbox"/>	●	datanode3	🚩 AMD 40dea752c4c5	apache/hadoop:3.4.1	3.46%	14 minutes ago	■
<input type="checkbox"/>	●	datanode1	🚩 AMD 7255144ab10e	apache/hadoop:3.4.1	2.85%	14 minutes ago	■
<input type="checkbox"/>	●	datanode2	🚩 AMD e1b2beb42102	apache/hadoop:3.4.1	2.19%	14 minutes ago	■

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gregasp@Gregas-Laptop: ~$ docker exec -it namenode /bin/bash
[root@namenode:~]# hdfs dfs -mkdir -p /user/assignment
2025-04-09 11:21:37,462 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.client.use.legacy.blockreader.local = false
2025-04-09 11:21:37,462 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.client.read.shortcircuit = false
2025-04-09 11:21:37,462 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.client.domain.socket.data.traffic = false
2025-04-09 11:21:37,462 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.domain.socket.path =
2025-04-09 11:21:37,472 [main] DEBUG org.apache.hadoop.hdfs.DFSClient - Sets dfs.client.block.write.replace-datanode-on-failure.min-replication to 0
2025-04-09 11:21:38,336 [main] DEBUG org.apache.hadoop.hdfs.protocol.datatransfer.sasl.DataTransferSaslUtil - DataTransferProtocol not using SaslPropertiesResolver, no QOP f
ound in configuration for dfs.data.transfer.protection
2025-04-09 11:21:39,191 [main] DEBUG org.apache.hadoop.hdfs.DFSClient - /user/assignment: masked={ masked: rwxr-xr-x, unmasked: rwxrwxrwx }
2025-04-09 11:21:39,328 [shutdown-hook-0] DEBUG org.apache.hadoop.hdfs.KeyProviderCache - Invalidating all cached KeyProviders.
[root@namenode:~]# hdfs dfs -ls /user
2025-04-09 11:22:03,643 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.client.use.legacy.blockreader.local = false
2025-04-09 11:22:03,645 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.client.read.shortcircuit = false
2025-04-09 11:22:03,645 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.client.domain.socket.data.traffic = false
2025-04-09 11:22:03,645 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.domain.socket.path =
2025-04-09 11:22:03,655 [main] DEBUG org.apache.hadoop.hdfs.DFSClient - Sets dfs.client.block.write.replace-datanode-on-failure.min-replication to 0
2025-04-09 11:22:04,457 [main] DEBUG org.apache.hadoop.hdfs.protocol.datatransfer.sasl.DataTransferSaslUtil - DataTransferProtocol not using SaslPropertiesResolver, no QOP f
ound in configuration for dfs.data.transfer.protection
Found 1 items
drwxr-xr-x - root supergroup 0 2025-04-09 11:21 /user/assignment
2025-04-09 11:22:04,624 [shutdown-hook-0] DEBUG org.apache.hadoop.hdfs.KeyProviderCache - Invalidating all cached KeyProviders.
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[root@namenode hadoop]# hdfs dfs -put sample.txt /user/assignment/
2025-04-09 11:23:00,938 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.client.use.legacy.blockreader.local = false
2025-04-09 11:23:00,941 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.client.read.shortcircuit = false
2025-04-09 11:23:00,941 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.client.domain.socket.data.traffic = false
2025-04-09 11:23:00,951 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.domain.socket.path =
2025-04-09 11:23:01,755 [main] DEBUG org.apache.hadoop.hdfs.protocol.datatransfer.sasl.DataTransferSaslUtil - DataTransferProtocol not using SaslPropertiesResolver, no QOP f
ound in configuration for dfs.data.transfer.protection
2025-04-09 11:23:02,270 [main] DEBUG org.apache.hadoop.hdfs.DFSClient - /user/assignment/sample.txt.COPYING: masked=( masked: rw-rw-r--, unmasked: rw-rw-rw- )
2025-04-09 11:23:02,444 [main] DEBUG org.apache.hadoop.hdfs.DFSClient - computePacketChunkSize: src=/user/assignment/sample.txt.COPYING, chunkSize=516, chunksPerPacket=126
, packetSize=65016
2025-04-09 11:23:02,454 [LeaseRenewer:root@namenode:9000] DEBUG org.apache.hadoop.hdfs.client.impl.LeaseRenewer - Lease renewer daemon for [DfsClient_NONMAPREDUCE_1608462275
] with renew id 1 started
2025-04-09 11:23:02,457 [main] DEBUG org.apache.hadoop.hdfs.DFSClient - WriteChunk allocating new packet seqno=0, src=/user/assignment/sample.txt.COPYING, packetSize=65016
, chunksPerPacket=126, bytesCurBlock=0, output stream=DfsOutputStream:block=null
2025-04-09 11:23:02,458 [main] DEBUG org.apache.hadoop.hdfs.DataStreamer - Queued packet seqno: 0 offsetInBlock: 0 lastPacketInBlock: false lastByteOffsetInBlock: 145, block
=null
2025-04-09 11:23:02,458 [main] DEBUG org.apache.hadoop.hdfs.DataStreamer - Queued packet seqno: 1 offsetInBlock: 145 lastPacketInBlock: true lastByteOffsetInBlock: 145, bloc
k=null
2025-04-09 11:23:02,458 [Thread-7] DEBUG org.apache.hadoop.hdfs.DataStreamer - stage=PIPELINE_SETUP_CREATE, block=null
2025-04-09 11:23:02,458 [Thread-7] DEBUG org.apache.hadoop.hdfs.DataStreamer - Allocating new block: block=null
2025-04-09 11:23:02,458 [main] DEBUG org.apache.hadoop.hdfs.DataStreamer - block=null waiting for ack for: 1
2025-04-09 11:23:02,609 [Thread-7] DEBUG org.apache.hadoop.hdfs.DataStreamer - pipeline = [DataNodeInfoWithStorage[172.30.0.5:9866,DS-e294e5c3-384b-46bd-9c89-dd606dd8e6c,DISK],
DataNodeInfoWithStorage[172.30.0.3:9866,DS-d55799c4-13fc-4bf1-ac8c-2477c99fad64,DISK], DataNodeInfoWithStorage[172.30.0.3:9866,DS-d55799c4-13fc-4bf1-ac8c-2477c99fad64,DISK]], blk_1073741825_1001
2025-04-09 11:23:02,610 [Thread-7] DEBUG org.apache.hadoop.hdfs.DataStreamer - Connecting to datanode 172.30.0.5:9866
2025-04-09 11:23:02,611 [Thread-7] DEBUG org.apache.hadoop.hdfs.DataStreamer - Send buf size 23040
2025-04-09 11:23:02,611 [Thread-7] DEBUG org.apache.hadoop.hdfs.protocol.datatransfer.sasl.SaslDataTransferClient - SASL encryption trust check: localHostTrusted = false, re
moteHostTrusted = false
2025-04-09 11:23:02,640 [Thread-7] DEBUG org.apache.hadoop.hdfs.protocol.datatransfer.sasl.SaslDataTransferClient - SASL client skipping handshake in unsecured configuration
for addr = /172.30.0.5, datanodeId = DataNodeInfoWithStorage[172.30.0.5:9866,DS-e294e5c3-384b-46bd-9c89-dd606dd8e6c,DISK]
2025-04-09 11:23:03,527 [DataStreamer for file /user/assignment/sample.txt.COPYING_block BP-134388544-172.30.0.2-1744196795113:blk_1073741825_1001] DEBUG org.apache.hadoop.
hdfs.DataStreamer - nodes [DataNodeInfoWithStorage[172.30.0.5:9866,DS-e294e5c3-384b-46bd-9c89-dd606dd8e6c,DISK], DataNodeInfoWithStorage[172.30.0.4:9866,DS-e294e5c3-384b-46bd-9c89-dd606dd8e6c,DISK], DataNodeInfoWithStorage[172.30.0.3:9866,DS-d55799c4-13fc-4bf1-ac8c-2477c99fad64,DISK]] storageTypes [DISK, DISK, DISK] storageIDs [DS-e294e5c3-384b-46bd-9c89-dd606dd8e6c, DS-e294e5c3-384b-46bd-9c89-dd606dd8e6c, DS-d55799c4-13fc-4bf1-ac8c-2477c99fad64]
2025-04-09 11:23:03,530 [DataStreamer for file /user/assignment/sample.txt.COPYING_block BP-134388544-172.30.0.2-1744196795113:blk_1073741825_1001] DEBUG org.apache.hadoop.
hdfs.DataStreamer - blk_1073741825_1001 sending packet seqno: 0 offsetInBlock: 0 lastPacketInBlock: false lastByteOffsetInBlock: 145
2025-04-09 11:23:03,534 [DataStreamer for file /user/assignment/sample.txt.COPYING_block BP-134388544-172.30.0.2-1744196795113:blk_1073741825_1001] DEBUG org.apache.hadoop.
hdfs.DataStreamer - stage=DATA_STREAMING, blk_1073741825_1001
2025-04-09 11:23:04,178 [ResponseProcessor for block BP-134388544-172.30.0.2-1744196795113:blk_1073741825_1001] DEBUG org.apache.hadoop.hdfs.DataStreamer - DFSClient seqno:
0 reply: SUCCESS reply: SUCCESS downstreamAckTimeNanos: 3660808584 flag: 0 flag: 0 flag: 0
2025-04-09 11:23:04,182 [DataStreamer for file /user/assignment/sample.txt.COPYING_block BP-134388544-172.30.0.2-1744196795113:blk_1073741825_1001] DEBUG org.apache.hadoop.
hdfs.DataStreamer - blk_1073741825_1001 sending packet seqno: 1 offsetInBlock: 145 lastPacketInBlock: true lastByteOffsetInBlock: 145
2025-04-09 11:23:04,315 [ResponseProcessor for block BP-134388544-172.30.0.2-1744196795113:blk_1073741825_1001] DEBUG org.apache.hadoop.hdfs.DataStreamer - DFSClient seqno:
1 reply: SUCCESS reply: SUCCESS downstreamAckTimeNanos: 88204042 flag: 0 flag: 0 flag: 0
2025-04-09 11:23:04,316 [DataStreamer for file /user/assignment/sample.txt.COPYING_block BP-134388544-172.30.0.2-1744196795113:blk_1073741825_1001] DEBUG org.apache.hadoop.
hdfs.DataStreamer - Closing old block BP-134388544-172.30.0.2-1744196795113:blk_1073741825_1001
2025-04-09 11:23:04,804 [main] DEBUG org.apache.hadoop.hdfs.DfsOutputStream - Closing an already closed stream. [Stream:true, streamer:true]
2025-04-09 11:23:04,845 [shutdown-hook-0] DEBUG org.apache.hadoop.hdfs.KeyProviderCache - Invalidating all cached KeyProviders.
[root@namenode hadoop]# hdfs dfs -ls /user/assignment
2025-04-09 11:23:02,614 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.client.use.legacy.blockreader.local = false
2025-04-09 11:23:02,616 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.client.read.shortcircuit = false
2025-04-09 11:23:02,616 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.client.domain.socket.data.traffic = false
2025-04-09 11:23:02,616 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.domain.socket.path =
2025-04-09 11:23:02,625 [main] DEBUG org.apache.hadoop.hdfs.DFSClient - Sets dfs.client.block.write.replace-datanode-on-failure.min-replication to 0
2025-04-09 11:23:02,660 [main] DEBUG org.apache.hadoop.hdfs.protocol.datatransfer.sasl.DataTransferSaslUtil - DataTransferProtocol not using SaslPropertiesResolver, no QOP f
ound in configuration for dfs.data.transfer.protection
Found 1 items
-rw-r--r-- 3 root supergroup 145 2025-04-09 11:23 /user/assignment/sample.txt
2025-04-09 11:23:21,681 [shutdown-hook-0] DEBUG org.apache.hadoop.hdfs.KeyProviderCache - Invalidating all cached KeyProviders.
[root@namenode hadoop]# hdfs dfs -tail /user/assignment/sample.txt
2025-04-09 11:23:47,608 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.client.use.legacy.blockreader.local = false
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2025-04-09 11:23:47,608 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.client.domain.socket.path =
2025-04-09 11:23:47,617 [main] DEBUG org.apache.hadoop.hdfs.DFSClient - Sets dfs.client.block.write.replace-datanode-on-failure.min-replication to 0
2025-04-09 11:23:48,337 [main] DEBUG org.apache.hadoop.hdfs.protocol.datatransfer.sasl.DataTransferSaslUtil - DataTransferProtocol not using SaslPropertiesResolver, no QOP f
ound in configuration for dfs.data.transfer.protection
2025-04-09 11:23:48,759 [main] DEBUG org.apache.hadoop.hdfs.DFSClient - Connecting to datanode 172.30.0.4:9866
2025-04-09 11:23:48,777 [main] DEBUG org.apache.hadoop.hdfs.protocol.datatransfer.sasl.SaslDataTransferClient - SASL encryption trust check: localHostTrusted = false, remote
HostTrusted = false
2025-04-09 11:23:48,792 [main] DEBUG org.apache.hadoop.hdfs.protocol.datatransfer.sasl.SaslDataTransferClient - SASL client skipping handshake in unsecured configuration for
addr = /172.30.0.4, datanodeId = DataNodeInfoWithStorage[172.30.0.4:9866,DS-e294e5c3-384b-46bd-9c89-dd606dd8e6c,DISK]
Line 1: This is a sample file.
Line 2: Demonstrating HDFS.
Line 3: More content here.
Line 4: Even more text.
Line 5: Final line of sample text.
2025-04-09 11:23:49,021 [main] DEBUG org.apache.hadoop.hdfs.DFSClient - DeadNode detection is not enabled or given block LocatedBlocks{; fileLength=145; underConstructions:
false; blocks=[LocatedBlock[BP-134388544-172.30.0.2-1744196795113:blk_1073741825_1001; getBlockSize()=145; corrupt=false; offset=0; locs=[DataNodeInfoWithStorage[172.30.0.4:9866,DS-e294e5c3-384b-46bd-9c89-dd606dd8e6c,DISK], DataNodeInfoWithStorage[172.30.0.5:9866,DS-e294e5c3-384b-46bd-9c89-dd606dd8e6c,DISK], DataNodeInfoWithStorage[172.30.0.3:9866,DS-d55799c4-13fc-4bf1-ac8c-2477c99fad64,DISK]], cachedLocs=[[]]; lastLocatedBlockLocatedBlock[BP-134388544-172.30.0.2-1744196795113:blk_1073741825_1001; getBlockSize()=145; corrupt=false; offset=0; locs=[DataNodeInfoWithStorage[172.30.0.5:9866,DS-e294e5c3-384b-46bd-9c89-dd606dd8e6c,DISK], DataNodeInfoWithStorage[172.30.0.3:9866,DS-d55799c4-13fc-4bf1-ac8c-2477c99fad64,DISK], DataNodeInfoWithStorage[172.30.0.4:9866,DS-e294e5c3-384b-46bd-9c89-dd606dd8e6c,DISK]]; cachedLocs=[[]]; isLastBlockComplete=true; ecPol
icy=null] is null, skip to remove node.
2025-04-09 11:23:49,026 [shutdown-hook-0] DEBUG org.apache.hadoop.hdfs.KeyProviderCache - Invalidating all cached KeyProviders.
[root@namenode hadoop]# hdfs fsadmin -report
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3-384b-46bd-9c89-dd606ddd8e6c,DISK]], DatanodeInfoWithStorage[172.30.0.3:9866,DS-d55799c4-13fc-4bf1-ac8c-2477c99fad64,DISK]]; cachedLocs=[]}; isLastBlockComplete=true; ecPol
ics=null} is null, skip to remove node.
2025-04-09 11:23:49,025 [shutdown-hook-0] DEBUG org.apache.hadoop.hdfs.KeyProviderCache - Invalidating all cached KeyProviders.
[root@namenode hadoop]# hdfs dfsadmin -report
2025-04-09 11:24:00,859 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.client.use.legacy.blockreader.local = false
2025-04-09 11:24:00,862 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.client.read.shortcircuit = false
2025-04-09 11:24:00,862 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.client.domain.socket.data.traffic = false
2025-04-09 11:24:00,862 [main] DEBUG org.apache.hadoop.hdfs.client.impl.DfsClientConf - dfs.domain.socket.path =
2025-04-09 11:24:00,872 [main] DEBUG org.apache.hadoop.hdfs.DFSClient - Sets dfs.client.block.write.replace-datanode-on-failure.min-replication to 0
2025-04-09 11:24:01,602 [main] DEBUG org.apache.hadoop.hdfs.protocol.datatransfer.sasl.DataTransferSaslUtil - DataTransferProtocol not using SaslPropertiesResolver, no QOP f
ound in configuration for dfs.data.transfer.protection
Configured Capacity: 735321587712 (684.82 GB)
Present Capacity: 52497506460 (48.89 GB)
DFS Remaining: 52497469440 (48.89 GB)
DFS Used: 37020 (36.15 KB)
DFS Used%: 0.00%
Replicated Blocks:
  Under replicated blocks: 0
  Blocks with corrupt replicas: 0
  Missing blocks: 0
  Missing blocks (with replication factor 1): 0
  Low redundancy blocks with highest priority to recover: 0
  Pending deletion blocks: 0
Erasure Coded Block Groups:
  Low redundancy block groups: 0
  Block groups with corrupt internal blocks: 0
  Missing block groups: 0
  Low redundancy blocks with highest priority to recover: 0
  Pending deletion blocks: 0

Live datanodes (3):
Name: 172.30.0.3:9866 (datanode1.hadoop-cluster_hdfs_network)
Hostname: datanode1
Decommission Status : Normal
Configured Capacity: 245107195904 (228.27 GB)
DFS Used: 4252 (4.15 KB)
Non DFS Used: 227608035172 (211.98 GB)
DFS Remaining: 17499156480 (16.30 GB)
DFS Used%: 0.00%
DFS Remaining%: 7.14%
Configured Cache Capacity: 0 (0 B)
Cache Used: 0 (0 B)
Cache Remaining: 0 (0 B)
Cache Used%: 100.00%
Cache Remaining%: 0.00%
Xceivers: 0
Last contact: Wed Apr 09 11:23:59 UTC 2025
Last Block Report: Wed Apr 09 11:12:17 UTC 2025
Num of Blocks: 1

```