

BIG DATA

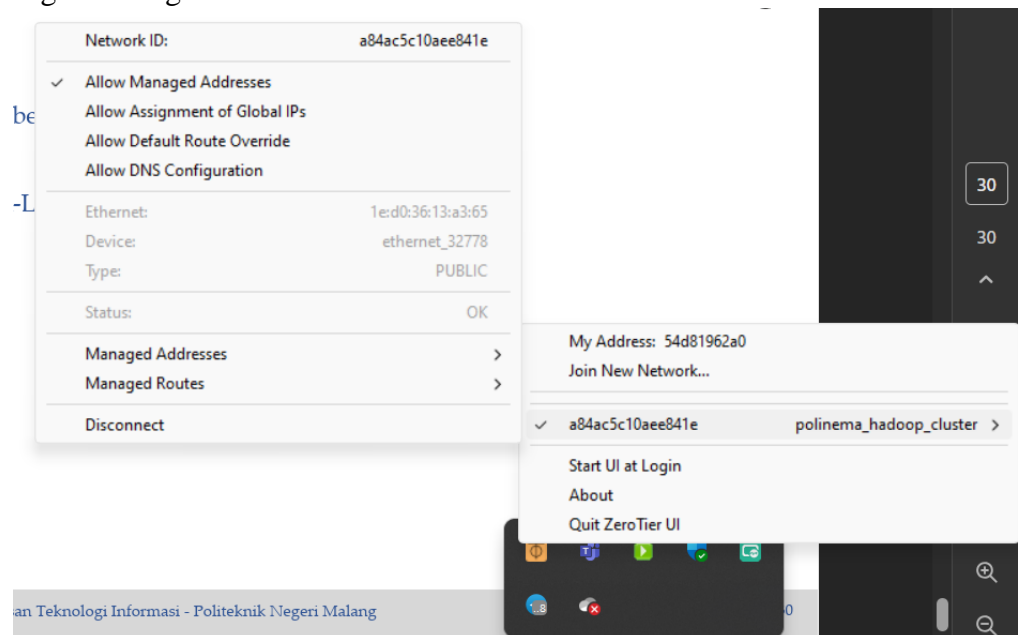
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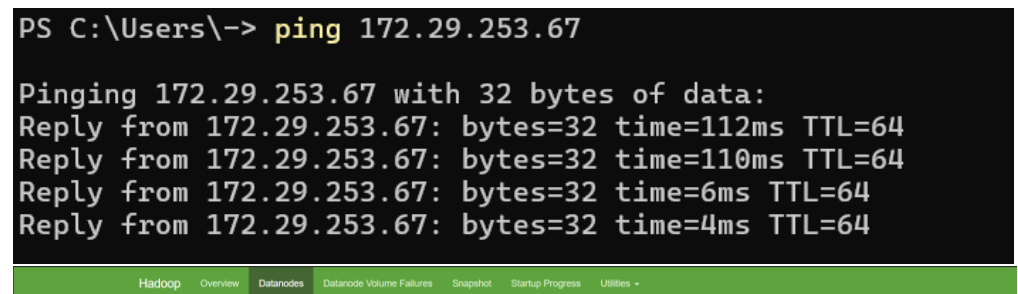
SIB-3E

Latihan

1. Cobalah untuk:
 - Terhubung ke cluster Hadoop.Bergabung ke Jaringan VPN



Install VPN Client




Datanode Information



Node	Http Address	Host contact	Health Report	Used	Used	Capacity	Blocks	Percent used	Usage StdDev	Version
✓ /default-rack/hadoop-datanode1:9866 (192.168.2.204:9866)	http://hadoop-datanode1:9866	0s	215m	113.79 MB	9.11 GB	9.74 GB	44	113.79 MB (1.14%)	0%	3.4.1
✓ /default-rack/hadoop-datanode2:9866 (192.168.2.205:9866)	http://hadoop-datanode2:9866	0s	145m	113.79 MB	9.11 GB	9.74 GB	44	113.79 MB (1.14%)	0%	3.4.1
✓ /default-rack/hadoop-datanode3:9866 (192.168.2.206:9866)	http://hadoop-datanode3:9866	0s	173m	113.79 MB	9.11 GB	9.74 GB	44	113.79 MB (1.14%)	0%	3.4.1

Showing 1 to 3 of 3 entries

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All Applications

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

Cluster Metrics

Apps Submitted	0	Apps Pending	0	Apps Running	0	Apps Completed	0	Containers Running	0	Used Resources	<memory:0 B, vCores:0>
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Cluster Nodes Metrics

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

Scheduler Type	Capacity Scheduler	Scheduling Resource Type	[memory-mb (unit=M), vcores]	Minimum Allocation	<memory:1024, vCores:1>	Maximum Allocation	<memory:8192, vCores:4>	Maximum Cluster Application F	0
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Show 20 entries

ID	User	Name	Application Type	Application Tags	Queue	Application Priority	StartTime	LaunchTime	FinishTime	State	FinalStatus	Running Containers	Allocated CPU	Allocated VCore
No data available in table														

Showing 0 to 0 of 0 entries

Mengakses Cluster Hadoop

```
PS C:\Users\-> ssh hadoopuser@172.29.247.62
The authenticity of host '172.29.247.62 (172.29.247.62)' can't be established.
ED25519 key fingerprint is SHA256:BjHVtSH6B+jEGxXCmJXyg4N7pbcsIvsSS+Eih0qkH0E.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.29.247.62' (ED25519) to the list of known hosts.
hadoopuser@172.29.247.62's password:
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-54-generic x86_64)
```

- Jalankan 3 perintah dasar tadi.

```
hadoopuser@hadoop-namenode:~$ jps
1699 SecondaryNameNode
1878 ResourceManager
36520 Jps
1455 NameNode
hadoopuser@hadoop-namenode:~$ hadoop version
Hadoop 3.4.1
Source code repository https://github.com/apache/hadoop.git -r 4d7825309348956336b8f06a08322b78422849b1
Compiled by mthakur on 2024-10-09T14:57Z
Compiled on platform linux-x86_64
Compiled with protoc 3.23.4
From source with checksum 7292fe9dba5e2e44e3a9f763fce3e680
This command was run using /usr/local/hadoop/share/hadoop/common/hadoop-common-3.4.1.jar
hadoopuser@hadoop-namenode:~$ hadoop fs -mkdir /11_HilmyZakyy
```

- Catatan: Untuk folder yang dibuat, beri nama dengan NoAbsen_NamaAnda.

```
hadoopuser@hadoop-namenode:~$ hadoop fs -mkdir /SIB-3E/11_HilmyZakyy
hadoopuser@hadoop-namenode:~$ hadoop fs -ls /SIB-3E
Found 3 items
drwxr-xr-x - hadoopuser supergroup          0 2025-03-11 04:47 /SIB-3E/11_HilmyZakyy
drwxr-xr-x - hadoopuser supergroup          0 2025-03-11 04:47 /SIB-3E/12_FikriSetiawan
drwxr-xr-x - hadoopuser supergroup          0 2025-03-11 04:46 /SIB-3E/19_ZanuarAldiSyahputra
```

- Buatlah laporan yang berisi:
 - Screenshot dan penjelasan Langkah-Langkah Anda.
- Kumpulkan di GoogleClassroom