LAPORAN JOBSHEET BIG DATA



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SIB 3E

PROGAM STUDI D-IV SISTEM INFORMASI BISNIS JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

Langkah-langkah

Join network



Menguji koneksi dengan jaringan VPN

```
C:\Windows\system32>ping 172.29.253.67

Pinging 172.29.253.67 with 32 bytes of data:
Reply from 172.29.253.67: bytes=32 time=31ms TTL=64
Reply from 172.29.253.67: bytes=32 time=6ms TTL=64
Reply from 172.29.253.67: bytes=32 time=12ms TTL=64
Reply from 172.29.253.67: bytes=32 time=14ms TTL=64
Ping statistics for 172.29.253.67:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 6ms, Maximum = 31ms, Average = 15ms
```

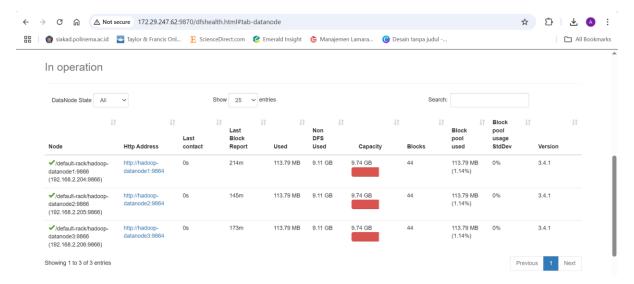
Mengakses cluster Hadoop

```
PS C:\Users\USER> 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)
 * Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
                  https://ubuntu.com/pro
 System information as of Tue Mar 11 04:30:02 AM UTC 2025
 System load: 0.02
                                 Processes:
 Usage of /: 76.0% of 9.74GB Users logged in:
 Memory usage: 47%
                                 IPv4 address for enp0s3: 192.168.2.203
 Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
26 updates can be applied immediately.
To see these additional updates run: apt list --upgradable
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
 *** System restart required ***
 ast login: Tue Mar 11 04:28:32 2025 from 172.29.234.
```

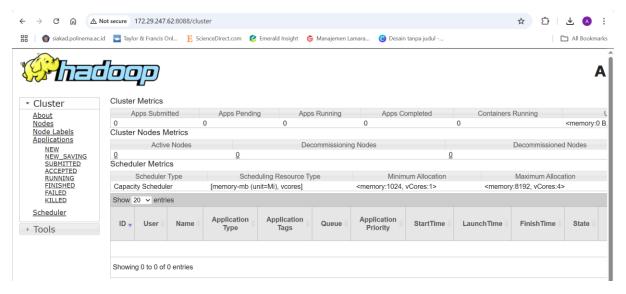
Cek status NameNode

```
hadoopuser@hadoop-namenode:~$ jps
1699 SecondaryNameNode
1878 ResourceManager
1455 NameNode
36607 Jps
```

Melihat status DataNodes

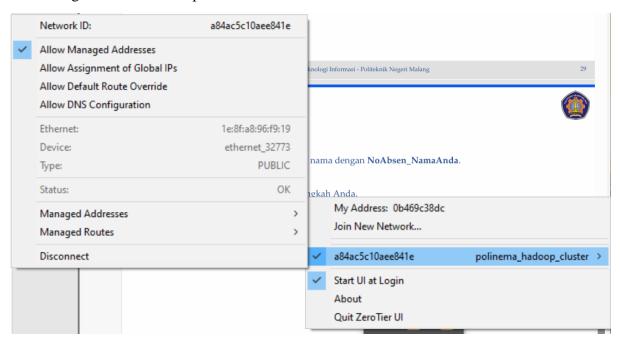


Melihat status pemrosesan MapReduce



Latihan

Terhubung ke cluster Hadoop



3 perintah dasar

version

```
hadoopuser@hadoop-namenode: $ hadoop version

Hadoop 3.4.1

Source code repository https://github.com/apache/hadoop.git -r 4d7825309348956336b8f06a08378422849b1

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
```

Membuat folder dan melihat list folder