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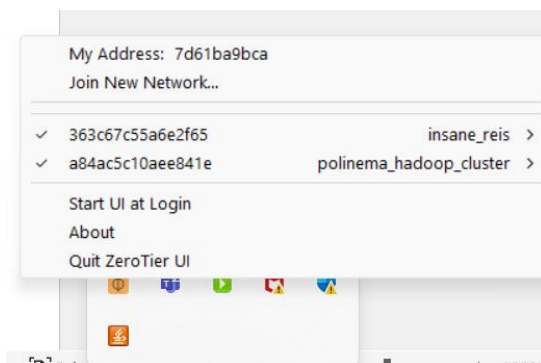
Matkul: BIG DATA

Jobsheet 1

Infrastruktur Big Data Bagian-1 (HDFS)

a. Konfigurasi VPN Client

- Bergabung ke Jaringan VPN (dari OS Windows)
 - Klik "Join New Network".
 - Masukkan network ID yang sudah dijelaskan sebelumnya.



- Install VPN Client
 - Untuk menguji apakah Anda sudah terhubung dengan jaringan VPN cluster Hadoop ini, bukalah CMD atau terminal di computer Anda. Lalu ping IP berikut:

Ping 172.29.253.67

```
PS C:\Users\user> ping 172.29.253.67

Pinging 172.29.253.67 with 32 bytes of data:
Reply from 172.29.253.67: bytes=32 time=551ms TTL=64
Reply from 172.29.253.67: bytes=32 time=11ms TTL=64
Reply from 172.29.253.67: bytes=32 time=20ms TTL=64
Reply from 172.29.253.67: bytes=32 time=58ms 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 = 11ms, Maximum = 551ms, Average = 160ms
```

b. Mengakses Cluster Hadoop

- Menghubungkan dengan name node melalui SSH.
 - Jika Anda di macOS/Linux:
 - Buka terminal dan ketikkan perintah: `ssh hadoopuser@172.29.253.67`

- Masukkan password: hadoop

```
PS C:\Users\user> ssh hadoopuser@172.29.247.62
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
 * Support:       https://ubuntu.com/pro

System information as of Tue Mar 11 04:38:58 AM UTC 2025

System load:  0.38               Processes:            154
Usage of /:   76.0% of 9.74GB    Users logged in:     1
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 ***
Last login: Tue Mar 11 04:35:57 2025 from 172.29.166.217
hadoopuser@hadoop-namenode:~$ jps
```

- Cek Status Name Node
- Ketikkan perintah “jps”.
- Akan ditampilkan status mesin saat ini yang bertugas sebagai name node.

```
hadoopuser@hadoop-namenode:~$ jps
1699 SecondaryNameNode
1878 ResourceManager
38041 Jps
1455 NameNode
```

- Melihat Status Data Nodes
- Anda dapat melihat status data nodes saat ini melalui GUI Web yang dapat diakses melalui alamat: **http:// :9870/dfshealth.html**

