

**LAPORAN
BIG DATA
JOBSHEET 1**



Disusun Oleh :

**Zanuar Aldi Syahputra
2241760062
SIB-3E**

**JURUSAN TEKNOLOGI INFORMASI
PROGRAM STUDI D-IV SISTEM INFORMASI BISNIS
POLITEKNIK NEGERI MALANG
2025**

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- The screenshot displays the ZeroTier mobile application interface. At the top, a status bar shows the time as 10:08 and the battery level at 25%. The main screen is divided into two sections. The top section, titled 'Network ID: a84ac5c10aee841e', contains a list of settings: 'Allow Managed Addresses' (checked), 'Allow Assignment of Global IPs', 'Allow Default Route Override', and 'Allow DNS Configuration'. Below these settings are fields for 'Ethernet: 1e:2d:82:7d:d5:8a', 'Device: ethernet_32775', and 'Type: PUBLIC'. The 'Status:' is shown as 'OK'. The bottom section, titled 'Managed Addresses' and 'Managed Routes', has right-pointing arrows. At the very bottom, a 'Disconnect' button is visible. The bottom half of the screen shows a list of networks. The first network is 'a84ac5c10aee841e' with the name 'polinema_hadoop_cluster' and a right-pointing arrow. Below it, there are three more options: 'Start UI at Login', 'About', and 'Quit ZeroTier UI'. The bottom of the screen shows a dock with icons for a clock, a checkmark, and a document.

- Coba masuk ke dalam hadoop dengan perintah “ssh hadoopuser@172.29.247.62”

```
PS C:\Users\ALDI> 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+Eih0qkHOE.
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
 * 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 04:39:11 2025 from 172.29.195.85
```

- Cek status dari NameNode

```
hadoopuser@hadoop-namenode:~$ jps
1699 SecondaryNameNode
37811 Jps
1878 ResourceManager
1455 NameNode
```

- Cek versi hadoop

```
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
```

- Buat direktori baru pada hadoop dengan nama sendiri

```
hadoopuser@hadoop-namenode:~$ hadoop fs -mkdir /SIB-3E/19_ZanuarAldiSyahputra
hadoopuser@hadoop-namenode:~$ hadoop fs -ls /SIB-3E
Found 1 items
drwxr-xr-x - hadoopuser supergroup 0 2025-03-11 04:46 /SIB-3E/19_ZanuarAldiSyahputra
```