LAPORAN

KUIS 1

BIG DATA



$4K-RPL-Kelompok\ 3$

Bayu Gilang Pamungkas	244107027020
Frankie Steinlie	244107027008
M. Agung Wibowo	244107027001
Prisca Dewi Anggita	244107027002

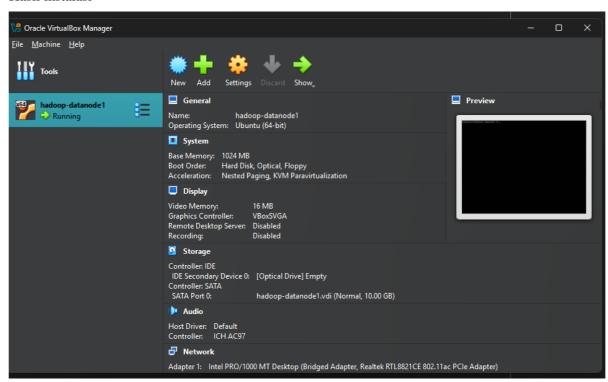
D-IV TEKNIK INFORMATIKA TEKNOLOGI INFORMASI POLITEKNIK NEGERI MALANG

2025

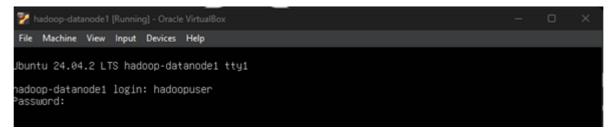
Kuis 1

1. Datanode 1 (Frankie)

a. Hasil instalasi



b. Login Hadoop



```
# Hadoop cluster nodes
file 3.72.168.72.29 hadoop-datanode3

# That following lines are desirable for IPv6 capable hosts

# The following lines are desirable for IPv6 capable hosts

# The following lines are desirable for IPv6 capable hosts

# The following lines are desirable for IPv6 capable hosts

# The following lines are desirable for IPv6 capable hosts

# Ipo-localnost ipo-localnet

# Goundary ipo-neastprefix

# Hadoop cluster nodes

# 192.168.72.19 hadoop-datanode1

# 192.168.72.173 hadoop-datanode3
```

e. Menghubungkan ke cluster namenode

```
🎇 hadoop-datanode1 [Running] - Oracle VirtualBox
File Machine View Input Devices Help
nadoopuser@hadoop-datanode1:~$ ssh hadoopuser@192.168.72.49
nadoopuser@192.168.72.49's password:
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-53-generic x86_64)
* Documentation: https://help.ubuntu.com
                    https://landscape.canonical.com
https://ubuntu.com/pro
* Management:
* Support:
System information as of Tue Mar 18 06:40:18 AM UTC 2025
 System load:
Usage of /:
                 0.0
62.5% of 9.74GB
                                                                 125
                                     Processes:
                                     Users logged in:
 Memory usage: 67%
                                     IPv4 address for enp0s3: 192.168.72.49
 Swap usage:
Expanded Security Maintenance for Applications is not enabled.
 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
ast login: Tue Mar 18 06:30:31 2025 from 192.168.72.173
nadoopuser@hadoop-namenode:~$
```

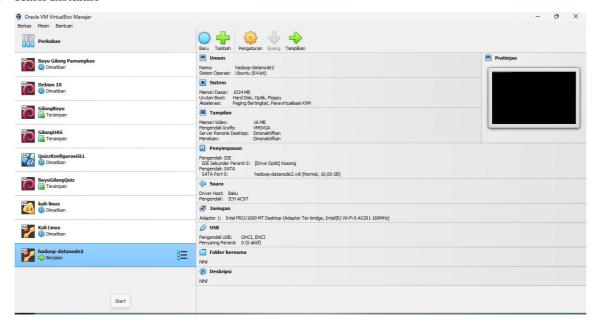
f. Membuat Folder pribadi

g. Membuat file txt

```
hadoopuser@hadoop-namenode:~/Kelompok3$ ls
07_FrankieSteinlie 09_M-Agung-Wibowo
hadoopuser@hadoop-namenode:~/Kelompok3$ cd 07_FrankieSteinlie
hadoopuser@hadoop-namenode:~/Kelompok3/07_FrankieSteinlie$ ls
Frankie.txt
hadoopuser@hadoop-namenode:~/Kelompok3/07_FrankieSteinlie$ cat Frankie.txt
No Absen : 07
Nama : Frankie Steinlie
NIM : 244107027008
hadoopuser@hadoop-namenode:~/Kelompok3/07_FrankieSteinlie$ _
```

2. Datanode 2 (Bayu)

a. Hasil Instalasi



b. Login Hadoop



e. Menghubungkan ke cluster namenode

```
hadoop-datanode2 [Running] - Oracle VirtualBox
 File Machine View Input Devices Help
hadoopuser@hadoop-datanode2:~$ ssh hadoopuser@192.168.72.49
hadoopuser@192.168.72.49's password:
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-53-generic x86_64)
 * Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/pro
 System information as of Tue Mar 18 07:06:31 AM U<u>TC 2025</u>
  System load: 0.01
                                         Processes:
  Usage of /: 62.7% of 9.74GB
                                         Users logged in:
  Memory usage: 17%
                                         IPv4 address for enp0s3: 192.168.72.49
  Swap usage:
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection
or proxy settings
 ast login: Tue Mar 18 07:03:23 2025 from 192.168.72.49
hadoopuser@hadoop-namenode:~$
```

f. Membuat Folder pribadi

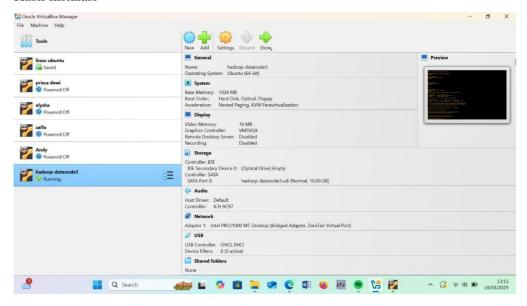
g. Membuat file txt

```
hadoop-datanode2 [Running] - Oracle VirtualBox

File Machine View Input Devices Help
hadoopuser@hadoop-namenode:~/Kelompok3$ cd 03_BayuGilangPamungkas
hadoopuser@hadoop-namenode:~/Kelompok3/03_BayuGilangPamungkas$ ls
hadoopuser@hadoop-namenode:~/Kelompok3/03_BayuGilangPamungkas$ echo "Absen : 03 Nama : Bayu Gilang P
amungkas" > myinfo.txt
hadoopuser@hadoop-namenode:~/Kelompok3/03_BayuGilangPamungkas$ ls
myinfo.txt
hadoopuser@hadoop-namenode:~/Kelompok3/03_BayuGilangPamungkas$ cat myinfo.txt
Absen : 03 Nama : Bayu Gilang Pamungkas
hadoopuser@hadoop-namenode:~/Kelompok3/03_BayuGilangPamungkas$ _
```

3. Datanode 3 (Prisca)

a. Hasil instalasi



b. Login Hadoop

```
hadoop-datanode3 [Running] - Oracle VirtualBox — — X

File Machine View Input Devices Help

Ubuntu 24.04.2 LTS hadoop-datanode3 tty1

hadoop-datanode3 login: hadoopuser

Password: _
```

```
File Machine View Input Devices Help
hadoopuser@hadoop-datanode3:~$ ip a

1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
link/loopback 00:00:00:00:00 brd 00:00:00:00:00
inet 127.0.0.1/8 scope host lo
valid_lft forever preferred_lft forever
inet6::1/128 scope host noprefixroute
valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 100

link/ether 08:00:27:a6:58:94 brd ff:ff:ff:ff
inet 192.168.72.93/24 metric 100 brd 192.168.72.255 scope global dynamic enp0s3
valid_lft 465sec preferred_lft 465sec
inet6 fe80::a00:27ff:fea6:5894/64 scope link
valid_lft forever preferred_lft forever
hadoopuser@hadoop-datanode3:~$
```

```
File Machine View Input Devices Help

GNU nano 7.2 /etc/hosts

127.0.0.1 localhost

# The following lines are desirable for IPv6 capable hosts

::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters

# Hadoop cluster nodes
192.168.72.49 hadoop-namenode
192.168.72.173 hadoop-datanode1
192.168.72.93 hadoop-datanode3
```

e. Menghubungkan ke cluster namenode

```
👺 hadoop-datanode3 [Running] - Oracle VirtualBox
 File Machine View Input Devices Help
hadoopuser@hadoop-namenode:~$ ls
kelompok_4 profil-jti-polinema.mp4 snap
hadoopuser@hadoop-namenode:~$ client_loop: send disconnect: Broken pipe
hadoopuser@hadoop-datanode3:~$ ssh hadoopuser@192.168.72.49
hadoopuser@192.168.72.49's password:
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-53-generic x86_64)
 * Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/pro
 System information as of Tue Mar 18 06:35:57 AM UTC 2025
  System load: 0.1
Usage of /: 62.2% of 9.74GB
Memory usage: 16%
                                            Processes:
                                           Users logged in:
                                            IPv4 address for enp0s3: 192.168.72.49
  Swap usage:
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection
or proxy settings
Last login: Tue Mar 18 06:33:23 2025 from 192.168.72.93
hadoopuser@hadoop-namenode:~$
```

f. Membuat Folder pribadi

```
hadoop-datanode3 [Running] - Oracle VirtualBox — — X

File Machine View Input Devices Help

hadoopuser@hadoop-namenode:~$ ls

fs Kelompok3 kelompok4 profil-jti-polinema.mp4 snap

hadoopuser@hadoop-namenode:~$ cd Kelompok3

hadoopuser@hadoop-namenode:~/Kelompok3$ mkdir 16_PriscaDewiAnggita

hadoopuser@hadoop-namenode:~/Kelompok3$ ls

03_BayuGilangPamungkas 07_FrankieSteinlie 09_M-Agung-Wibowo 16_PriscaDewiAnggita

hadoopuser@hadoop-namenode:~/Kelompok3$
```

g. Membuat file txt

4. Namenode (Agung)

a. Hasil instalasi



b. Login Hadoop

```
elp

Ubuntu 24.04.2 LTS hadoop-namenode tty1

hadoop-namenode login: hadoopuser

Passuord: _
```

```
Start. O. J. Incal host

The following lines are desirable for IPv6 capable hosts

11 pt-local host 1pt-loophack

12 pt-local host 1pt-loophack

13 pt-local host 1pt-loophack

14 pt-local host 1pt-loophack

15 pt-loophack

16 pt-local host 1pt-loophack

17 pt-local host 1pt-loophack

18 pt-loophack

18 pt-loophack

18 pt-loophack

19 pt-loophack

10 pt-loophack

11 pt-loophack

12 pt-loophack

13 pt-loophack

14 pt-loophack

15 pt-loophack

16 pt-loophack

17 pt-loophack

17 pt-loophack

18 pt-loophack

18 pt-loophack

19 pt-loophack

19 pt-loophack

19 pt-loophack

10 pt-loophack

1
```

e. Membuat Folder pribadi

```
Last login: Tue Mar 18 06:52:39 2025 from 192.168.72.56
hadoopuser@hadoop-namenode:~$ 1s

**Relompok3 kelompok4 profil-jti-polinema.mp4 nmp
hadoopuser@hadoop-namenode:~$ cd Kelompok3
hadoopuser@hadoop-namenode:~$ kelompok3$ ls

**TrankleSteinlie 39 m-manu-lihomo
hadoopuser@hadoop-namenode:~$ kelompok3$ cd 09_M-Agung-Wibowo
hadoopuser@hadoop-namenode:~$ kelompok3$ cd 09_M-Agung-Wibowo$ ls
info.txt
```

f. Membuat file txt

```
hadoopuser@hadoop-namenode: "/Kelompok3/09_M-Agung-Wibowo$ ls
info.txt
hadoopuser@hadoop-namenode: "/Kelompok3/09_M-Agung-Wibowo$ ls
info.txt
hadoopuser@hadoop-namenode: "/Kelompok3/09_M-Agung-Wibowo$ cat info.txt

Mata Kuliah : BIG DATA

Nama : M. Agung Wibowo
NIM : 244107027001
Kelas : TI RPL-4K
hadoopuser@hadoop-namenode: "/Kelompok3/09_M-Agung-Wibowo$ _
```