Big Data

Kuis Big Data (Week 4)

Dosen:

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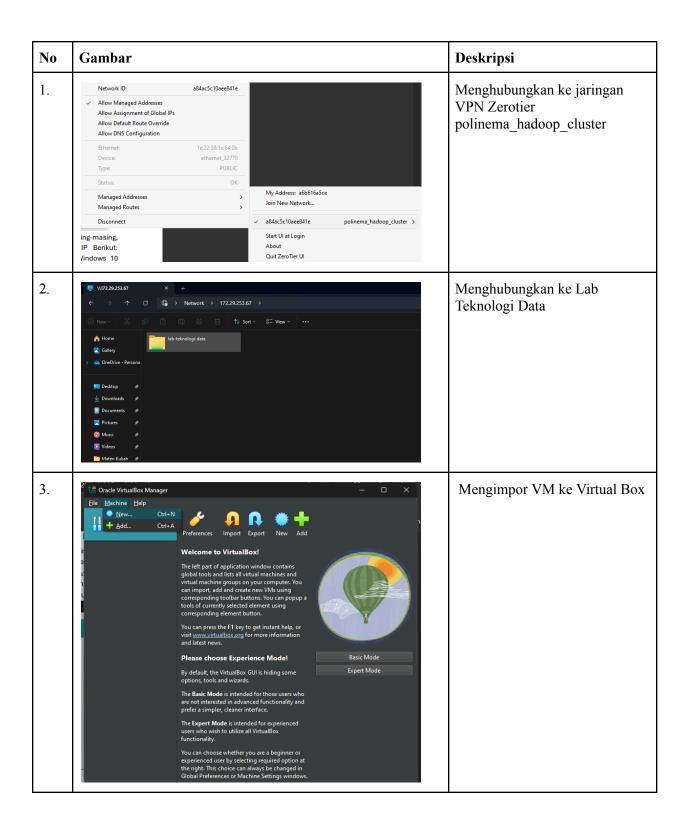


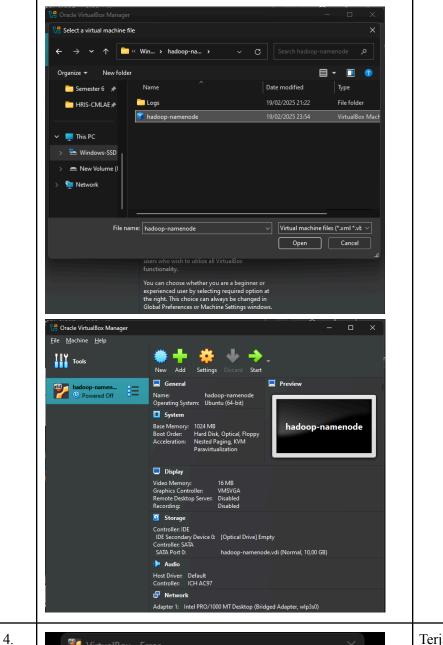
Dibuat Oleh:

Dika Dwi Alamsyah	2241720129
Febiola Lidya Sianturi	2241720229
Nurhaliza Anindya Putri	2241720016
Septa Puma Surya	2241720119

Kelas: TI - 3D

POLITEKNIK NEGERI MALANG





Terjadi error karena network dan grafik display belum diatur

Could not start the machine hadoop-namenode because the following physical network interfaces were not found:

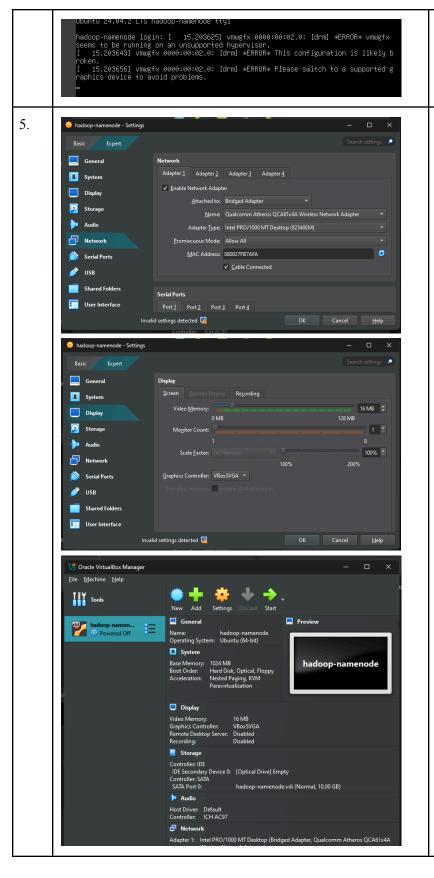
wlp3s0 (adapter 1)

You can either change the machine's network settings or stop the machine.

Change Network Settings

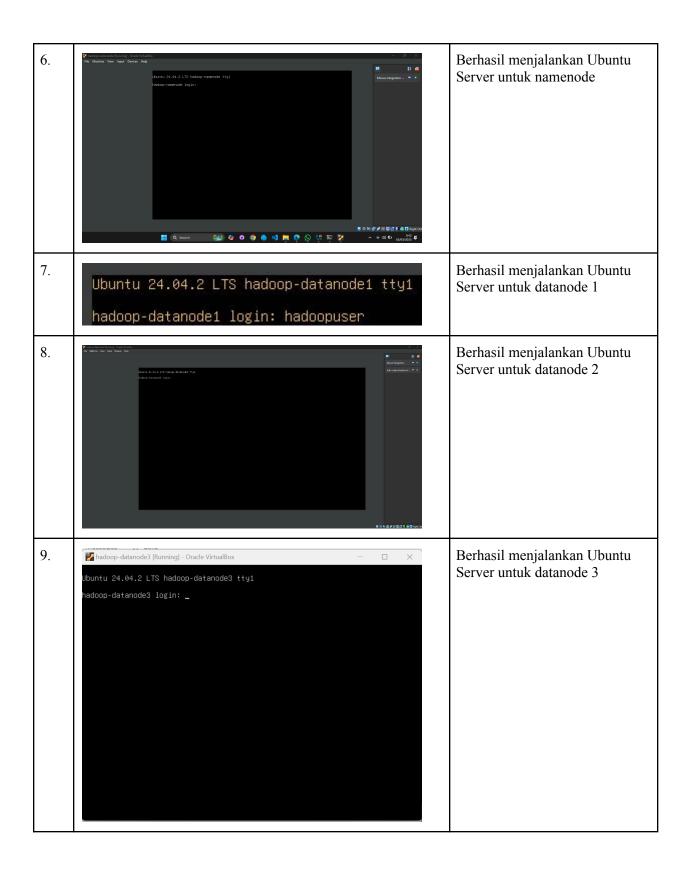
Copy

Close VM



Melakukan pengaturan network dan display untuk settingan VM

- Ubah network dibagian permision yang awalnya denny menjadi Allow all
- Ubah Display Graphic Controller yang awalnya VMVSVGA menjadi VBoxSVGA



```
10.
                                   opouser®hadoop-namenode:"$ 10 a
Io: (LODP®ACK,UP.LOMER.UP) mtu 55536 qdisc noqueue state UNKNOWN group default qlen 1000
Link/loopback 00:00:00:00:00:00:00 brd 00:00:00:00:00:00
Inet 127.0.0.1½
valid_lft forever preferred_lft forever
inet6 ::1/128 scope host noprefixroute
valid_lft forever preferred_lft forever
enp0s3: ⟨BROADCAST,MULTICAST,UP,LOWER_UP⟩ mtu 1500 qdisc fq_codel state UP group default qlen 100
                                                                                                                                                                                                                                                                     Menampilkan Ip addres pada
                                                                                                                                                                                                                                                                     namenode
                                   link/ether 08:00:27:fb:7a:fa brd ff:ff:ff:ff:ff:ff
inet 192.168.30,219/28 metric 100 brd 192.168.31.255 scope global dynamic enp0s3
valid_lff 714!sec preferred_lff 714!sec
inet6 fe80::a00:27ff:fefb:7afa/64 scope link
valid_lff forever preferred_lff forever
trifacuriu: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 2800 qdisc fq_codel state UNKNOHN group default
un 1000
                                          ดอง
K/ether 1e:44:89:48:00b bnd ff:ff:ff:ff:ff:ff:
t 172.29.247.62/16 bnd 172.29.255.255 scope global ztnfacwriu
valid_lft forever preferred_lft forever
tธ fe8b::1c4d:89ff:fe8d:bl/64 scope llnk
valid_lft forever preferred_lft forever
ser@hadoop-namenode:~$_
11.
                                                                                 ous 3 in 6

LIPs mit 65536 adisc noqueue state UNKNOHN group default qlen 1000

00:00:00:00 brd 00:00:00:00:00:00:00

in host lo

preferred_lft forever

post nonest interest.
                                                                                                                                                                                                                                                                     Menampilkan Ip addres pada
                                                                                                                                                                                                                                                                     datanode 1
                                                                                 nost noprefixmoute
preferred_lft forever
LTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 100
                                                 ether 08:00:27:91:4b:9a brd ff:ff:ff:ff:ff:ff
192.168.30.217/23 metric 100 brd 192.168.31.255 scope global dynamic enp0s3
11d.lft 6737sec preferred_lft 6797sec
fe80:1a00:27ff:fe91:4b9a/64 scope link
11d.lft forever preferred_lft forever
12.
                                                                        anode2:°$ ip addr
OMER_IPP mit 65536 odisc noqueue state UNKNOWN group default qlen 1000
00:00:00:00:00 brd 00:00:00:00:00:00:00
scope host lo
ver preferred_ift forever
pe host noprefixroute
ver preferred_ift forever
,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 100
                                                                                                                                                                                                                                                                     Menampilkan Ip addres pada
                                                                                                                                                                                                                                                                     datanode 2
                                   link/ether 08:00:27:c9:55:36 brd ff:ff:ff:ff:ff:ff
inet 192.168.30.216/23 metric 100 brd 192.168.31.255 scope global dynamic enp0s3
valid_lft 6679sec preferred_lft 6679se
het6 fe08::a00:22ff:fe05:5536/64 scope_link
13.
                                                                                                                                                                                                                                                                     Menampilkan Ip addres pada
                                  loopuser@hadoop-datanode3:~$ ip addr
lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group defa
                                                                                                                                                                                                                                                                     datanode 3
                                 qlen 1000
link/loopback 00:00:00:00:00:00:00 brd 00:00:00:00:00:00:00
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
enp0s3: <BROADCAST,MULTICAST,UP,LOMER_UP> mtu 1500 qdisc fq_codel state UP g
up default qlen 1000
link/ether 08:00:27:a6:58:94 brd ff:ff:ff:ff:ff
inet 192.168.30.210/23 metric 100 brd 192.168.31.255 scope global dynamic e
asa
                                     33
valid_lft 6440sec preferred_lft 6440sec
inet6 fe80::a00:27ff:fea6:5894/64 scope link
valid_lft forever preferred_lft forever
iopuser@hadoop-datanode3:~%
14.
                                 GNU nano 7.2
                                                                                                                                                                                         /etc/hosts
                                                                                                                                                                                                                                                                     Mengubah ip namenode dan
                              <u>1</u>27.0.0.1 localhost
                                                                                                                                                                                                                                                                     datanode sesuai dengan ip
                            # The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
                                                                                                                                                                                                                                                                     address masing masing anggota
                            fe00::0 ip6-ncastprefix
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
                              ¥ Hadoop cluster nodes
                            192.168.30.219 hadoop-namenode
192.168.30.217 hadoop-datanode1
192.168.30.216 hadoop-datanode2
192.168.30.210 hadoop-datanode3
```

15.	hadoopuser@hadoop-namenode:~\$ stop-dfs.sh Stopping namenodes on [hadoop-namenode] Stopping datanodes Stopping secondary namenodes [hadoop-namenode] hadoopuser@hadoop-namenode:~\$ stop-yarn.sh Stopping nodemanagers Stopping resourcemanager hadoopuser@hadoop-namenode:~\$ start-dfs.sh Starting namenodes on [hadoop-namenode] Starting datanodes Starting datanodes Starting secondary namenodes [hadoop-namenode] hadoopuser@hadoop-namenode:~\$ start-yarn.sh Starting resourcemanager Starting nodemanagers hadoopuser@hadoop-namenode:~\$ jps 2112 NameNode 2342 SecondaryNameNode 2798 Jps 2511 ResourceManager hadoopuser@hadoop-namenode:~\$ _	Menampilkan hasil jps pada namenode
16.	hadoopuser@hadoop-datanode1:~\$ jps 1633 Jps 1544 NodeManager 1389 DataNode	Menampilkan hasil jps pada datanode 1
17.	hadoopuser@hadoop-datanode2:~\$ jps 1618 Jps 1379 DataNode 1529 NodeManager hadoopuser@hadoop-datanode2:~\$	Menampilkan hasil jps pada datanode 2
18.	hadoopuser@hadoop-datanode3:~\$ jps 1602 Jps 1362 DataNode 1513 NodeManager	Menampilkan hasil jps pada datanode 3

TUGAS

- 1. Terhubunglah ke cluster kelompok Anda melalui terminal dari komputer Anda masing-masing.
- 2. Buatlah sebuah direktori di cluster Hadoop kelompok Anda masing-masing, dan beri nama sesuai nomor absen dan nama masing-masing dengan format NoAbs_NamaLengkap, sesuai contoh berikut: 13_DanaAnagataNusantara.
- 3. Unggahlah file TXT biasa yang berisi nama dan nomor absen Anda serta informasi lain yang tidak privat ke folder Anda masing-masing.

No.	Gambar	Deskripsi	
1	hadoopuser@hadoop-namenode:~\$ hadoop fs -ls / Found 5 items druxr-xr-x - hadoopuser supergroup hadoopuser@hadoop-namenode:~\$ hadoopuser@hadoop-namenode:~\$	Berhasil membuat direktori sesuai dengan nama anggota kelompok masing-masing	
2	hadoopuser®hadoop-namenode:~\$ hadoop fs -ls /14_NurhalizaAnindyaPutri/ Found 1 items -rw-r 3 hadoopuser supergroup 124 2025-03-06 10:59 /14_NurhalizaAnindyaPutri/info.txt hadoopuser®hadoop-namenode:~\$	Berhasil membuat dan mengupload file txt di dalam direktori 14_NurhalizaAnindyaPutri (namenode)	
3	hadoopuser®hadoop-datanode1:~\$ hadoop fs -ls /19_SeptaPumaSurya Found 1 Items -rw-r 3 hadoopuser supergroup 114 2025-03-06 10:59 /19_SeptaPumaSurya/info.txt hadoopuser®hadoop-datanode1:~\$ _	Berhasil membuat dan mengupload file txt di dalam direktori 19_SeptaPumaSurya (datanode1)	
4	Mindows Powershell × +	Berhasil membuat file txt melalui lokal, kemudian di uplad file txt ke vm ubuntu	
5	hadoopuser@hadoop-datanode2:"\$ hadoop fs -put /home/hadoopuser/data.txt/ /03_DikaDwiAlamsyah/ hadoopuser@hadoop-datanode2:"\$ hadoop fs -ls /03_DikaDwiAlamsyah/ found 1 items 74 2025-03-06 11:12 /03_DikaDwiAlamsyah/data.txt hadoopuser@hadoop-datanode2:"\$ hadoopuser@hadoop-datanode2:"\$ hadoop fs -cat /03_DikaDwiAlamsyah/data.txt Dika bwi Alamsyah 03 2241720129 Teknologi Informasi Teknik Informatikahadoopuser@hadoop-datanode2:"\$ _	Mengupload file ke hadoop serta mengecek apakah file sudah berhasil di upload ke direktori yang ditentukan dan mengecek apakah data yang di upload apakah sama	
		Berhasil upload dan berhasil ke direktori 03_DikaDwiAlamsyah (datanode2)	
6	hadoopuser@hadoop-datanode3:~\$ hadoop fs -ls /06_FebiolaLidyaSianturi/ Found 1 items -rw-rr 3 hadoopuser supergroup 131 2025-03-06 10:59 /06_FebiolaLic yaSianturi/info.txt	Berhasil membuat dan mengupload file txt di dalam direktori 06_FebiolaLidyaSianturi (datanode3)	