

# **LAPORAN PRAKTIKUM**

## **ARSITEKTUR DAN ORGANISASI KOMPUTER**



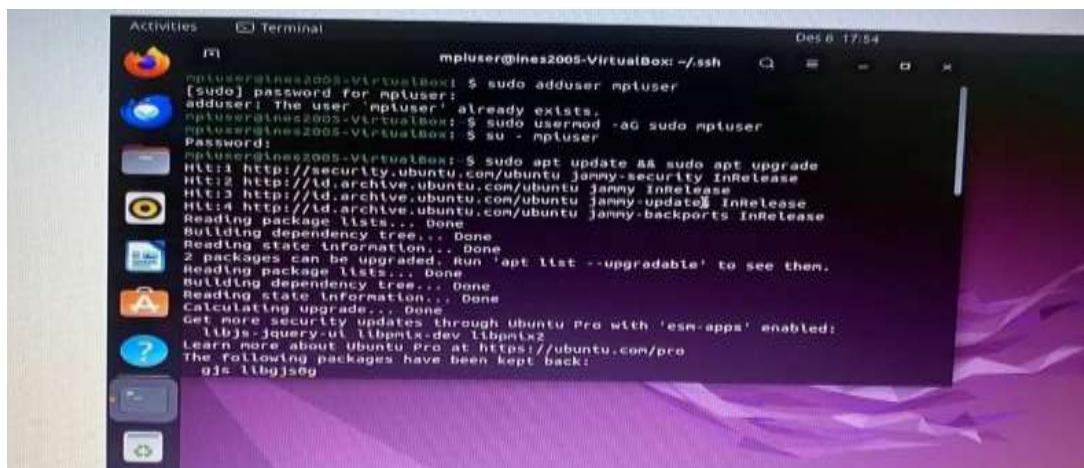
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PALEMBANG 2023**

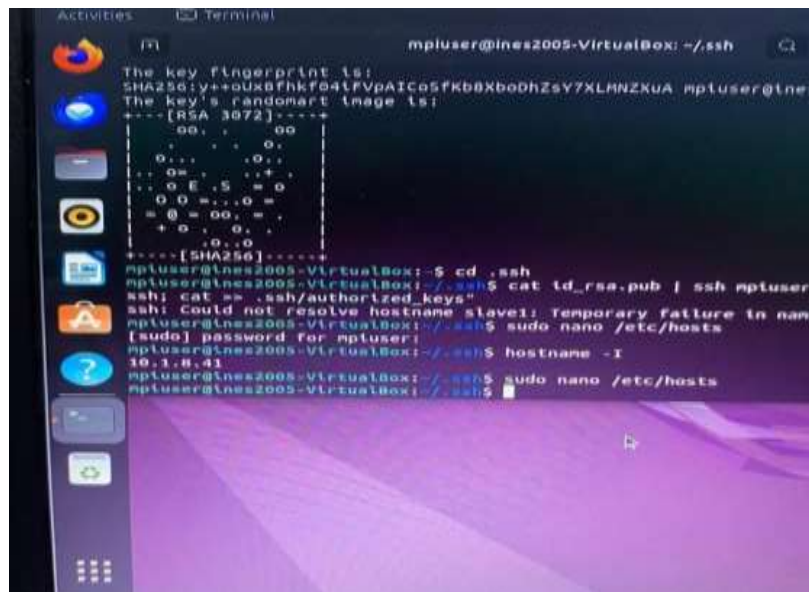
## “Laporan MPI”

1. Pastikan setiap master dan slave menggunakan Network Bridge Adapter dan terhubung ke internet.
2. Tentukan perangkat mana yang akan menjadi master, slave1, slave2, dan slave3.
3. Buat pengguna baru dengan perintah berikut pada master dan masing-masing slave:
4. Lalu ketik “sudo adduser mpiuser”
5. Kemudian jika sudah, ketik password nya
6. Lalu ketik lagi “sudo usermod -aG sudo mpiuser”
7. Isi password, dan ketik” sudo apt update && sudo apt upgrade”
8. Setelah semua DONE ikuti lagi step berikutnya.

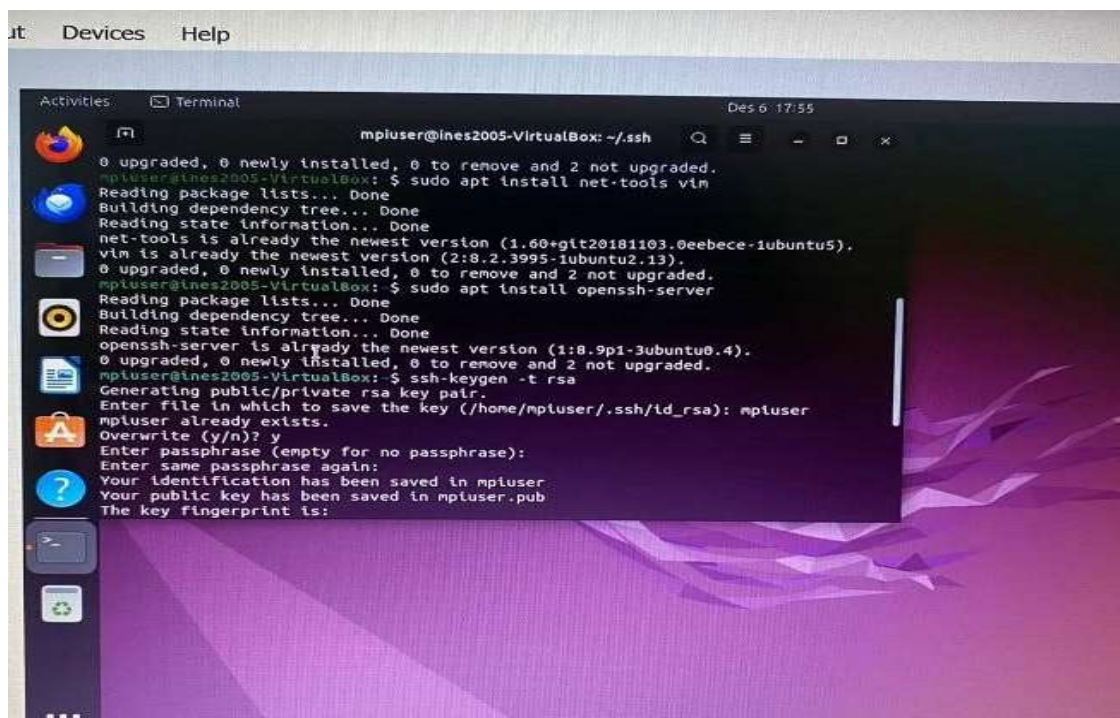


```
mpluser@ines2005-VirtualBox: ~/ssh
[mpuser@ines2005-VirtualBox] $ sudo adduser mpiuser
[sudo] password for mpiuser:
adduser: The user 'mpiuser' already exists.
mpuser@ines2005-VirtualBox: $ sudo usermod -aG sudo mpiuser
Password:
mpuser@ines2005-VirtualBox: $ sudo apt update && sudo apt upgrade
Hit:1 http://security.ubuntu.com/ubuntu jammy-security InRelease
Hit:2 http://id.archive.ubuntu.com/ubuntu jammy InRelease
Hit:3 http://id.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:4 http://id.archive.ubuntu.com/ubuntu jammy-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
2 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
Get more security updates through Ubuntu Pro with 'esm-apps' enabled:
  libjs-jquery-ui libpmtx-dev libpmtx2
Learn more about Ubuntu Pro at https://ubuntu.com/pro
The following packages have been kept back:
  gjs libgjs0g
```

9. Ketik “sudo apt install net-tools vim”
10. Lalu cek ip nya untuk master “hostname -I” untuk mengecek ip slave nya ketik “sudo nano /etc/hosts”

A terminal window titled 'Terminal' with the prompt 'mpluser@ines2005-VirtualBox: ~/.ssh'. It shows the output of 'ssh-keygen -t rsa', including the key fingerprint and a randomart image. The user then runs 'cd .ssh', 'cat id\_rsa.pub | ssh mpluser@ines2005-VirtualBox', and 'ssh: Could not resolve hostname slave1: Temporary failure in name resolution'. Finally, they run 'hostname -I' which returns '10.1.8.41' and 'sudo nano /etc/hosts'.

11. Jika sudah , ikuti Langkah-langkah selanjutnya
12. Sekarang untuk SSH Configuration ketik “sudo apt install openssh-server”
13. Jika DONE, lanjut step berikutnya yaitu “ssh-keygen -t rsa”
14. Lalu lanjut dengan “cd .ssh cat id\_rsa.pub | ssh mpiuser@slave1 "mkdir .ssh; cat >> .ssh/authorized\_keys"

A terminal window titled 'Terminal' with the prompt 'mpluser@ines2005-VirtualBox: ~/.ssh'. It shows the output of 'sudo apt install net-tools vim' and 'sudo apt install openssh-server'. The user then runs 'ssh-keygen -t rsa', which prompts for a file to save the key, a passphrase, and confirms the key fingerprint.

15. Jika ada perintah isi password silakan di isi password nya

16. Setelah itu ikuti perintah selanjutnya

17. Ini ip master dan slave1



```
File Machine View Input Devices Help
Activities Terminal Des 6 17:32
mpluser@ines2005-VirtualBox: ~
GNU nano 6.2 /etc/hosts *
55127.0.0.1 localhost
127.0.1.1 ines2005-VirtualBox
10.1.8.41 master
10.0.2.15 slave1
# 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
```

18. Untuk step berikutnya mengalami error dan tulisan “Akses ditolak”