

**LAPORAN**  
**PRAKTIKUM ORGANISASI DAN ARSITEKTUR KOMPUTER**

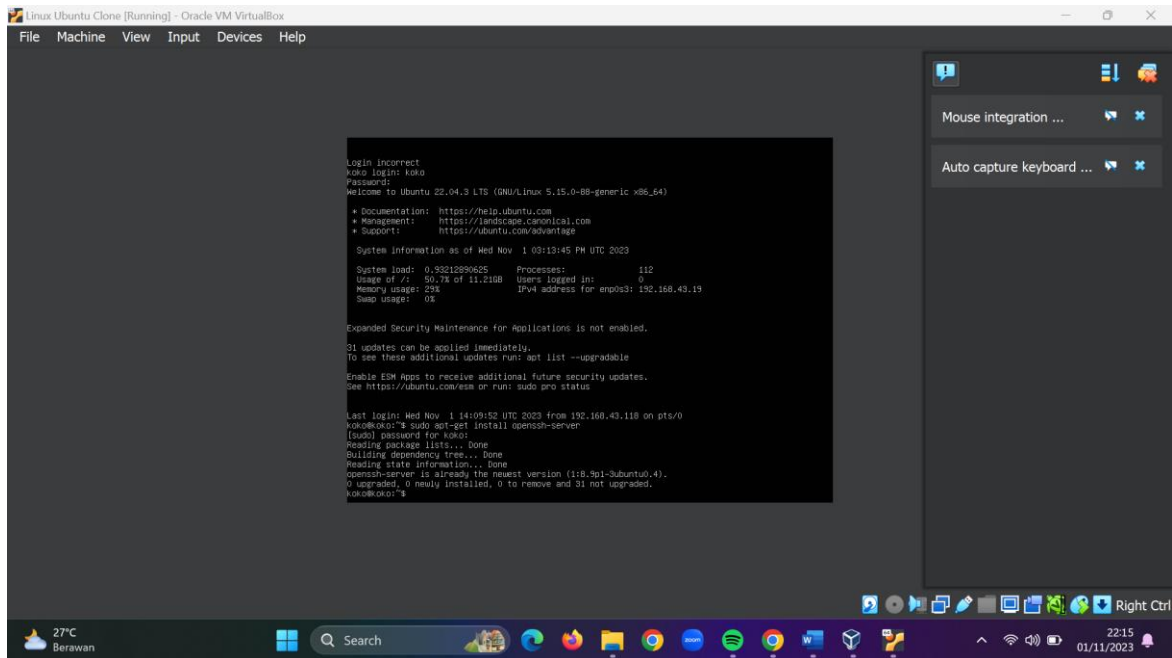


**JUDUL:**  
**INSTALL OPENSERVER SSH**

**Disusun Oleh :**

|                   |                    |
|-------------------|--------------------|
| TANGGAL PRAKTIKUM | : 01 November 2023 |
| NAMA              | : Mugni Pradimupi  |
| NIM               | : 09030582226052   |
| KELAS             | : TK3B             |

Pertama, Install Openssh-server : `sudo apt-get install openssh-server`



```
Linux Ubuntu Clone [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Login incorrect
koko login: koko
Password:
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-88-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Wed Nov 1 03:13:45 PM UTC 2023

System load: 0.93212890625   Processes:            112
Usage of /:  99.7% of 11.21GB   Users logged in:      0
Memory usage: 53%             IPv4 address for enp0s3: 192.168.43.19
Swap usage:  0%

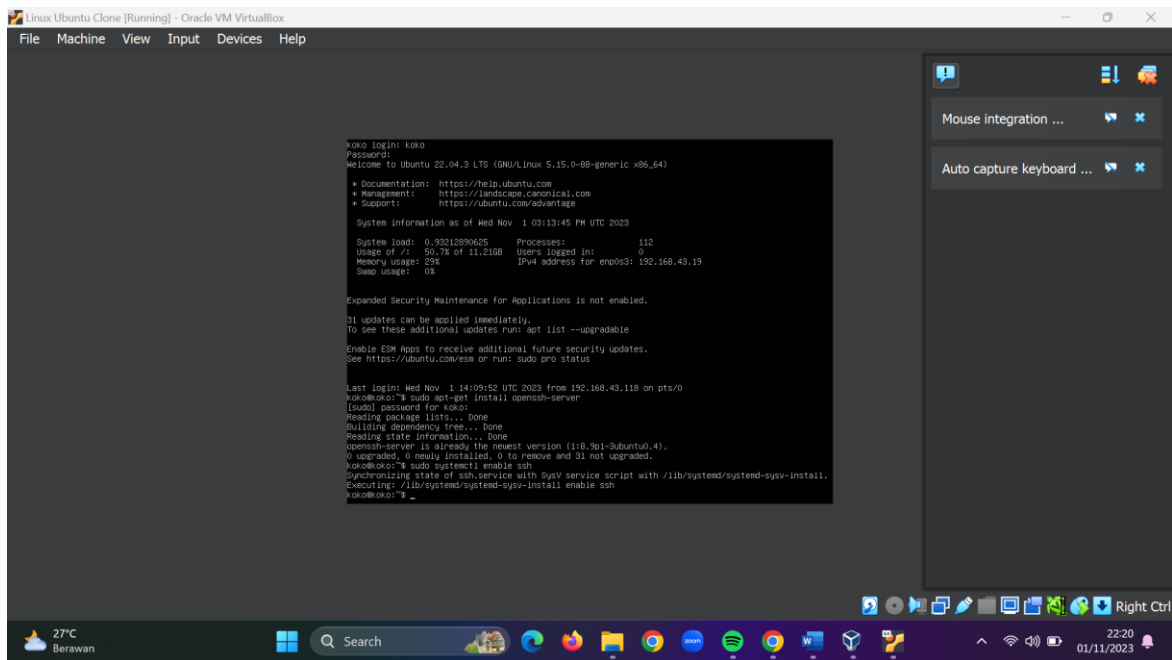
Expanded Security Maintenance for Applications is not enabled.

31 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

Last login: Wed Nov 1 14:09:52 UTC 2023 from 192.168.43.118 on pts/0
koko@koko:~$ sudo apt-get install openssh-server
[sudo] password for koko:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
openssh-server is already the newest version (1:8.5p1-3ubuntu0.4).
0 upgraded, 0 newly installed, 0 to remove and 31 not upgraded.
koko@koko:~$
```

Kedua, Aktifkan SSH : `sudo systemctl enable ssh`



```
Linux Ubuntu Clone [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

koko login: koko
Password:
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-88-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

System information as of Wed Nov  1 03:13:45 PM UTC 2023

System load:  0.7021029625   Processes:      112
Usage of /:   50.7% of 11:21GB   Users logged in:  0
Memory usage: 23%           IPv4 address for enp0s3: 192.168.43.19
Swap usage:   0%

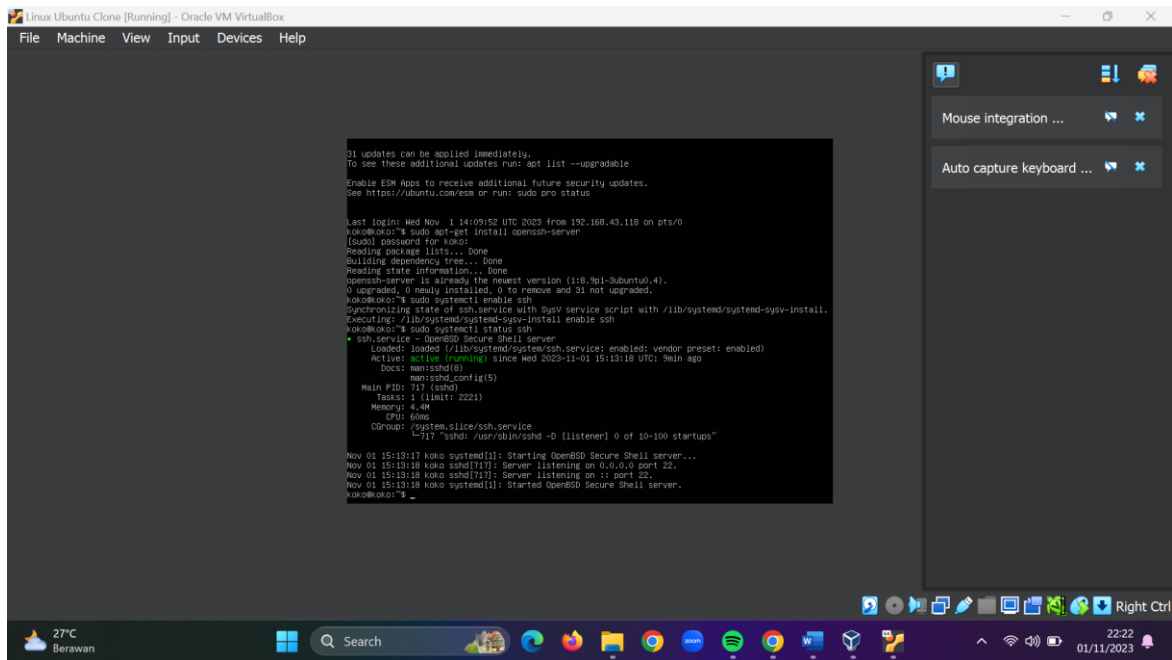
Expanded Security Maintenance for Applications is not enabled.

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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

Last login: Wed Nov  1 14:09:52 UTC 2023 from 192.168.43.118 on pts/0
koko@koko:~$ sudo apt-get install openssh-server
[sudo] password for koko:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
openssh-server is already the newest version (1:8.9p1-3ubuntu0.4).
0 upgraded, 0 newly installed, 0 to remove and 31 not upgraded.
koko@koko:~$ sudo systemctl enable ssh
Synchronizing state of ssh.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable ssh
koko@koko:~$
```

## Ketiga, Running Status SSH : sudo systemctl status ssh



The screenshot shows a terminal window titled "Linux Ubuntu Clone [Running] - Oracle VM VirtualBox". The terminal output displays the process of installing and enabling the SSH service. It starts with a message about updates, followed by the command `sudo apt-get install openssh-server`. The output shows the package list, dependency tree, and the installation of `openssh-server`. Then, the command `sudo systemctl enable ssh` is executed, which synchronizes the state of the `ssh.service` with the `systemd` service script. Finally, the command `sudo systemctl status ssh` is run, showing the service status as `Active: active (running)` since Wednesday, 2023-11-01 15:13:18 UTC. The terminal also shows the service's main PID, tasks, memory, CPU, and CGroup information. At the bottom, there is a system tray with a weather widget showing 27°C in Berawan, a search bar, and various application icons. The date and time are 01/11/2023 22:22.

```
31 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

Last login: Wed Nov 1 14:09:55 UTC 2023 from 192.168.43.118 on pts/0
koko@koko:~$ sudo apt-get install openssh-server
[sudo] password for koko:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
openssh-server is already the newest version (1:8.9p1-3ubuntu.4).
0 upgraded, 0 newly installed, 0 to remove and 31 not upgraded.
koko@koko:~$ sudo systemctl enable ssh
Synchronizing state of ssh.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable ssh
koko@koko:~$ sudo systemctl status ssh
ssh.service - OpenSSH Secure Shell server
Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
Active: active (running) since Wed 2023-11-01 15:13:18 UTC; 9min ago
Docs: man:ssh(8)
       man:ssh_config(5)
Main PID: 717 (sshd)
Tasks: 1 (limit: 2221)
Memory: 4.4M
CPU: 60ms
CGroup: /system.slice/ssh.service
└─717 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"

Nov 01 15:13:17 koko systemd[1]: Starting OpenSSH Secure Shell server...
Nov 01 15:13:18 koko sshd[717]: Server listening on 0.0.0.0 port 22.
Nov 01 15:13:18 koko sshd[717]: Server listening on :: port 22.
Nov 01 15:13:18 koko systemd[1]: Started OpenSSH Secure Shell server.
koko@koko:~$
```