

# **LAPORAN SISTEM OPERASI**

## **PROGRES MINGGU 2 (DUA)**

*Disusun untuk memenuhi tugas pada Mata Kuliah Sistem Operasi*

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# PROGRES MINGGU DUA

## 1. Instalasi Linux Server

```
firaz@firaz-VirtualBox:~$ sudo apt update && sudo apt upgrade -y
[sudo] password for firaz:
Hit:1 http://id.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://id.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://id.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
171 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
The following package was automatically installed and is no longer required:
  libllvm9
Use 'sudo apt autoremove' to remove it.
The following NEW packages will be installed:
  libllvm20 linux-headers-6.14.0-36-generic linux-hwe-6.14-headers-6.14.0-36
  linux-hwe-6.14-tools-6.14.0-36 linux-image-6.14.0-36-generic
  linux-modules-6.14.0-36-generic linux-modules-extra-6.14.0-36-generic
  linux-tools-6.14.0-36-generic
The following packages will be upgraded:
  bind9-dnswtills bind9-host bind9-libs bluez bluez-cups bluez-obexd cloud-init
  coreutils cups cups-bsd cups-client cups-common cups-core-drivers cups-daemon
  cups-filters cups-filters-core-drivers cups-lpp-utils cups-ppdc cups-server-common
  dconf-cli dconf-gsettings-backend dconf.service distro-info-data dpkg
  evolution-data-server evolution-data-server-common firmware-sonic-signed fwupd gdm3
  ghostscript gir1.2-gdm-1.0 gir1.2-gtk-4.0 gir1.2-javascriptcoregtk-4.1
  gir1.2-javascriptcoregtk-6.0 gir1.2-nm-1.0 gir1.2-webkit-6.0 gir1.2-webkit2-4.1
  gnome-shell-extension-desktop-icons-ng intel-microcode libbluetooth3 libc-bin
  libc-dev-bin libc-devtools libc6 libc6-dbg libc6-dev libcaml-1.2-64t64 libcups2t64
  libcupsfilters2-common libcupsfilters2t64 libcupsimage2t64 libdconf1
  libebook-1.2-11t64 libebook-1.2-11t64 libebook-contacts-1.2-4t64 libecal-2.0-3
  libedata-book-1.2-27t64 libedata-cal-2.0-2t64 libedataserver-1.2-27t64
  libedataserverui-1.2-4t64 libegl-mesa0 libfwupd2 libgbm1 libgdm1 libgl-mesa-dri
  libgl-mesa0 libgs-common libgs10 libgs10-common libgtk-4-1 libgtk-4-bin
  libgtk-4-common libgtk-4-media-gstreamer libgtop-2.0-11 libgtop2-common
  libipa-hbac0t64 libjavascriptcoregtk-4.1-0 libjavascriptcoregtk-6.0-1 libldb2
  libnailcontent-0-0 libnss-3 libnss-systemd libopenjp2-7 libpam-modules
  libpam-modules-bin libpam-runtime libpam-sssd libpam-systemd libpam0g
  libpoppler-cpp0t64 libpoppler-glib0t64 libpoppler134 libpython3-stdlib
  libpython3.12-minimal libpython3.12-stdlib libpython3.12t64 libsmclient0 libssh-4
  libssl3t64 libsss-certmap0 libsss-idnap0 libsss-nss-idnap0 libsystemd-shared
```

## 2. Instalasi Nginx

```
firaz@firaz-VirtualBox:~$ sudo apt install nginx -y
[sudo] password for firaz:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  libllvm9
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  nginx-common
Suggested packages:
  fcgiwrap nginx-doc
The following NEW packages will be installed:
  nginx nginx-common
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 564 kB of archives.
After this operation, 1,596 kB of additional disk space will be used.
Get:1 http://id.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx-common all 1.24.0-2ubuntu7.5 [43.4 kB]
Get:2 http://id.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx amd64 1.24.0-2ubuntu7.5 [520 kB]
Fetched 564 kB in 1s (800 kB/s)
Preconfiguring packages ...
Selecting previously unselected package nginx-common.
(Reading database ... 190040 files and directories currently installed.)
Preparing to unpack .../nginx-common_1.24.0-2ubuntu7.5_all.deb ...
Unpacking nginx-common (1.24.0-2ubuntu7.5) ...
Selecting previously unselected package nginx.
Preparing to unpack .../nginx_1.24.0-2ubuntu7.5_amd64.deb ...
Unpacking nginx (1.24.0-2ubuntu7.5) ...
Setting up nginx-common (1.24.0-2ubuntu7.5) ...
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /usr/lib/systemd/system/nginx.service.
Setting up nginx (1.24.0-2ubuntu7.5) ...
* Upgrading binary nginx [ OK ]
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for ufw (0.36.2-6) ...
firaz@firaz-VirtualBox:~$
```

### 3. mengaktifkan dan mengecek status aktif Nginx

```
firaz@firaz-VirtualBox:~$ sudo systemctl enable --now nginx
Synchronizing state of nginx.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable nginx

firaz@firaz-VirtualBox:~$ sudo systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: enabled)
   Active: active (running) since Thu 2025-12-04 12:11:48 WIB; 10min ago
     Docs: man:nginx(8)
    Main PID: 25869 (nginx)
      Tasks: 6 (limit: 8865)
    Memory: 4.4M (peak: 9.8M)
       CPU: 129ms
    CGroup: /system.slice/nginx.service
            └─25869 "nginx: master process /usr/sbin/nginx -g daemon on; master_process"
               └─25872 "nginx: worker process"
                  └─25873 "nginx: worker process"
                     └─25874 "nginx: worker process"
                        └─25875 "nginx: worker process"
                           └─25876 "nginx: worker process"

Dec 04 12:11:48 firaz-VirtualBox systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy server:
Dec 04 12:11:48 firaz-VirtualBox systemd[1]: Started nginx.service - A high performance web server and a reverse proxy server:
lines 1-18/18 (END)
firaz@firaz-VirtualBox:~$
```

### 4. Mengelola atau menambahkan domain lokal

```
firaz@firaz-VirtualBox:~$ sudo nano /etc/hosts
[sudo] password for firaz:
```

Yang dimana setelah berhasil menambahkan domain lokal dan masuk ke domain kita lanjut ke tahapan :

- a. menambahkan ip virtual box dan juga ip localhost

```
127.0.0.1 localhost
127.0.1.1 firaz-VirtualBox
127.0.0.1 myweb.local
192.168.56.1 myweb.local

# 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
```

- b. lakukan konfigurasi pada Nginx

```
firaz@firaz-VirtualBox:~$ sudo nano /etc/nginx/sites-available/myweb.local
firaz@firaz-VirtualBox:~$ sudo ln -s /etc/nginx/sites-available/myweb.local /etc/nginx/sites-enabled/
ln: failed to create symbolic link '/etc/nginx/sites-enabled/myweb.local': File exists
firaz@firaz-VirtualBox:~$ sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
firaz@firaz-VirtualBox:~$ sudo systemctl reload nginx
```

## 5. SSL self-signed

[illegible]

## **DOKUMENTASI KEGIATAN**

### **1. Dokumentasi pengerjaan di hari pertama Tanggal 4 Desember 2025**



### **2. Dokumentasi pengerjaan di hari Kedua Tanggal 5 Desember 2025**

