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## 1. a. Sifat-sifat prasyarat Linux secara umum!

Linux adalah sistem operasi bersifat open source, menggunakan kernel Linux sebagai int. olahraga aplikasi dan module pendukung sehingga layak secara hukum.

## b. Sifat-sifat keuntungan dari memakai sistem operasi Linux dibanding sistem operasi lainnya

Keuntungan Linux diantaranya adalah gratis, keamanan yang tinggi, ringan, spesifikasi minimal, memiliki banyak tools, serta variandistro.

## c. Spesifikasi minimal 5 macam distro Linux beserta spesifikasinya!

### 1. Ubuntu

Prosesor : dual core 2ghz

RAM : 4GB

HDD : 20GB

### 2. Kali Linux

Prosesor : i586 / AMD64

RAM : 2GB

HDD : 20GB

### 3. Debian

Prosesor : ~~pentium~~ pentium 16hz

RAM : 128MB

HDD : 10GB

### 4. Fedora

Prosesor : 16hz

RAM : 1GB

HDD : 10GB

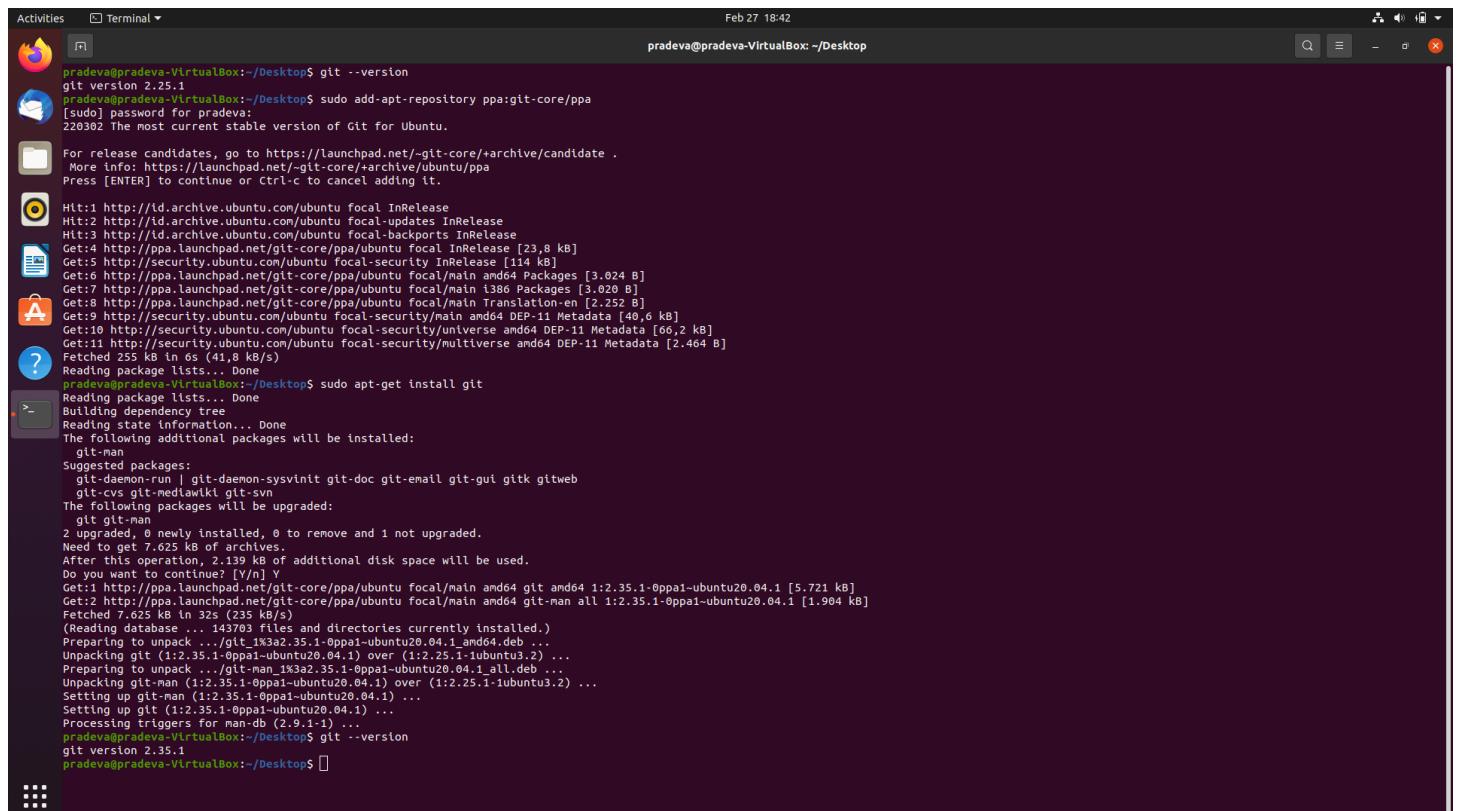
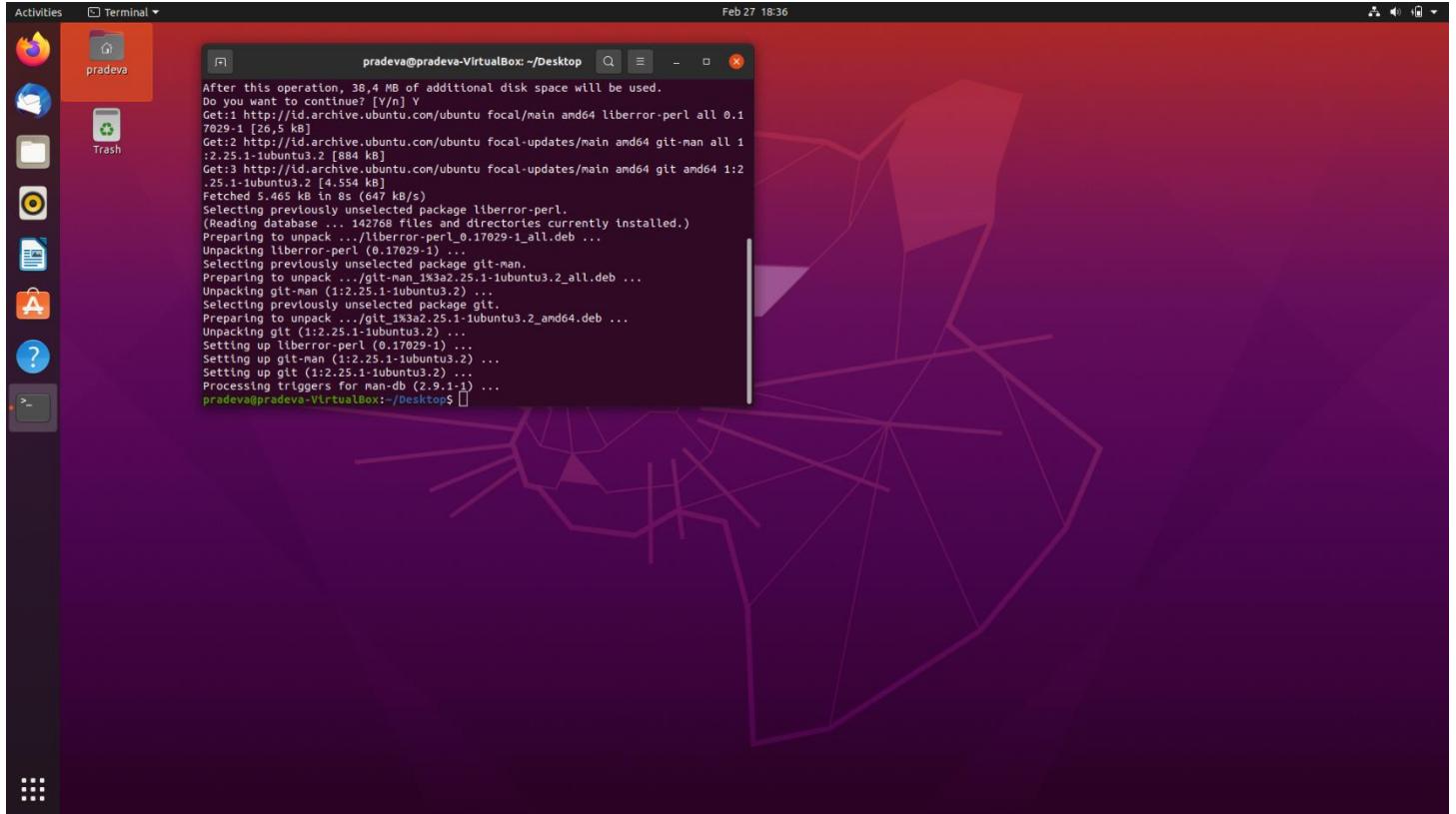
### 5. OpenSuse

Prosesor : Pentium 4

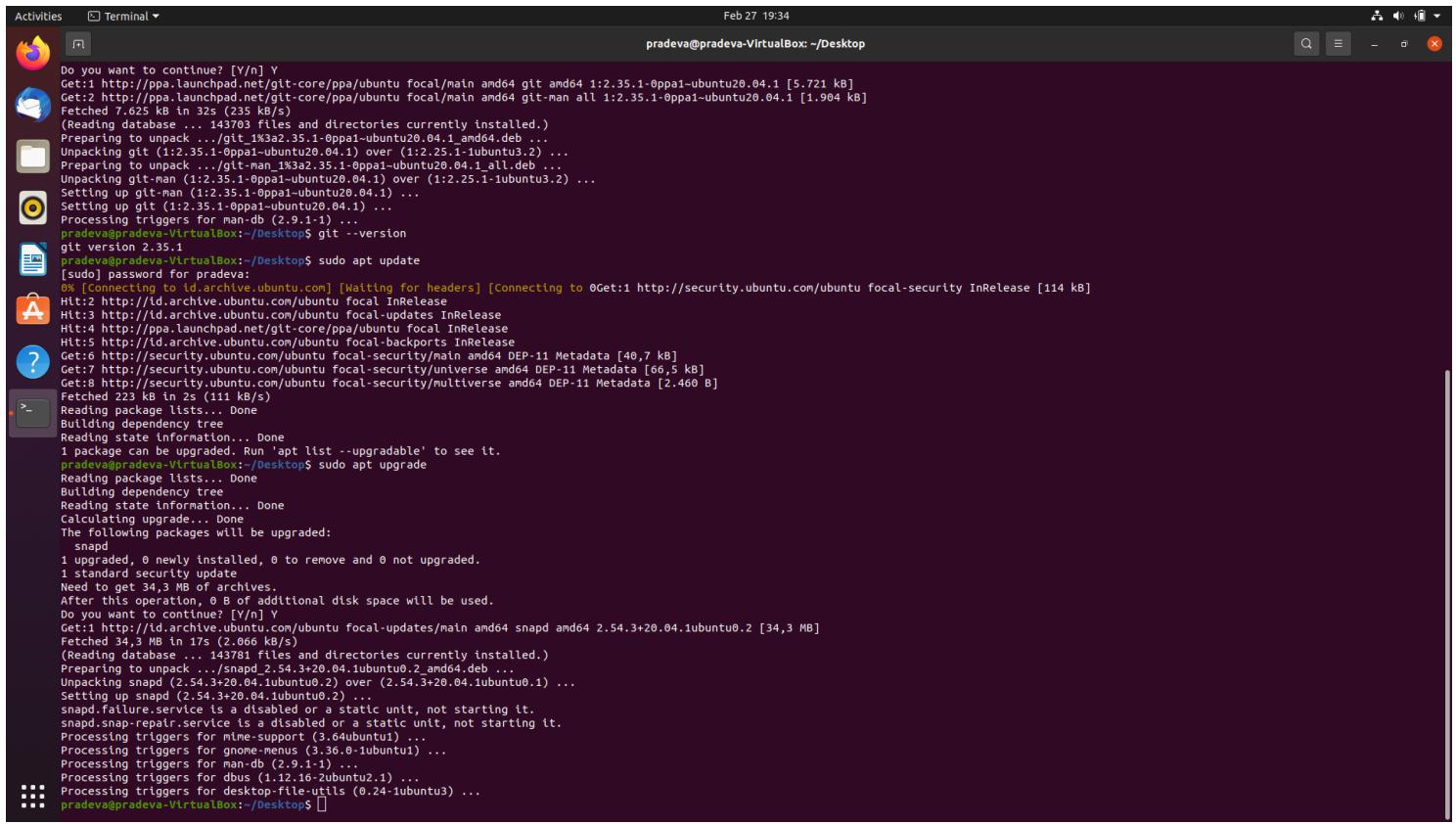
RAM : 1GB

HDD : 10GB

## Install GIT



## Install Wireshark



Activities Terminal ▾ Feb 27 19:34 pradeva@pradeva-VirtualBox: ~/Desktop

```
Do you want to continue? [Y/n] Y
Get:1 http://ppa.launchpad.net/ppa/ubuntu focal/main amd64 git amd64 1:2.35.1-0ppa1-ubuntu20.04.1 [5.721 kB]
Get:2 http://ppa.launchpad.net/ppa/ubuntu focal/main amd64 git-man all 1:2.35.1-0ppa1-ubuntu20.04.1 [1.904 kB]
Fetched 7.625 kB in 32s (235 kB/s)
(Reading database ... 143703 files and directories currently installed.)
Preparing to unpack .../git_1x3a2.35.1-0ppa1-ubuntu20.04.1_amd64.deb ...
Unpacking git (1:2.35.1-0ppa1-ubuntu20.04.1) over (1:2.25.1-1ubuntu3.2) ...
Preparing to unpack .../git-man_1x3a2.35.1-0ppa1-ubuntu20.04.1_all.deb ...
Unpacking git-man (1:2.35.1-0ppa1-ubuntu20.04.1) over (1:2.25.1-1ubuntu3.2) ...
Setting up git (1:2.35.1-0ppa1-ubuntu20.04.1) ...
Setting up git (1:2.35.1-0ppa1-ubuntu20.04.1) ...
Processing triggers for man-db (2.9.1-1) ...
pradeva@pradeva-VirtualBox:~/Desktop$ git --version
git version 2.35.1
pradeva@pradeva-VirtualBox:~/Desktop$ sudo apt update
[sudo] password for pradeva:
0% [Connecting to id.archive.ubuntu.com] [Waiting for headers] [Connecting to 0Get:1 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Htt:2 http://id.archive.ubuntu.com/ubuntu focal InRelease
Htt:3 http://id.archive.ubuntu.com/ubuntu focal-updates InRelease
Htt:4 http://ppa.launchpad.net/ppa/ubuntu focal InRelease
Htt:5 http://id.archive.ubuntu.com/ubuntu focal-backports InRelease
Get:6 http://security.ubuntu.com/ubuntu focal-security/main amd64 DEP-11 Metadata [40,7 kB]
Get:7 http://security.ubuntu.com/ubuntu focal-security/universe amd64 DEP-11 Metadata [66,5 kB]
Get:8 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 DEP-11 Metadata [2.460 B]
Fetched 223 kB in 2s (111 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
1 package can be upgraded. Run 'apt list --upgradable' to see it.
pradeva@pradeva-VirtualBox:~/Desktop$ sudo apt upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
Calculating upgrade... Done
The following packages will be upgraded:
 snapd
1 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
1 standard security update
Need to get 34,3 MB of archives.
After this operation, 0 B of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://id.archive.ubuntu.com/ubuntu focal-updates/main amd64 snap amd64 2.54.3+20.04.1ubuntu0.2 [34,3 MB]
Fetched 34,3 MB in 17s (2.066 kB/s)
(Reading database ... 143781 files and directories currently installed.)
Preparing to unpack .../snapd_2.54.3+20.04.1ubuntu0.2_amd64.deb ...
Unpacking snapd (2.54.3+20.04.1ubuntu0.2) over (2.54.3+20.04.1ubuntu0.1) ...
Setting up snapd (2.54.3+20.04.1ubuntu0.2) ...
snapd.failure.service is a disabled or a static unit, not starting it.
snapd.snap-repair.service is a disabled or a static unit, not starting it.
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for gnome-menu (3.36.0-1ubuntu1) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for dbus (1.12.16-2ubuntu2.1) ...
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...
pradeva@pradeva-VirtualBox:~/Desktop$
```

## Install Cisco

```
Activities Terminal ▾ Feb 27 20:46
pradeva@pradeva-VirtualBox:~/Downloads$ ls
pradeva@pradeva-VirtualBox:~/Downloads$ sudo dpkg -i CiscoPacketTracer_811_Ubuntu_64bit.deb
[sudo] password for pradeva:
Selecting previously unselected package packettracer.
(Reading database ... 144689 files and directories currently installed.)
Preparing to unpack CiscoPacketTracer_811_Ubuntu_64bit.deb ...
Unpacking packettracer (8.1.1) ...
dpkg: dependency problems prevent configuration of packettracer:
 packettracer depends on dialog; however:
  Package dialog is not installed.
packettracer depends on libgl1-mesa-glx; however:
  Package libgl1-mesa-glx is not installed.
packettracer depends on libxcb-xinerama0-dev; however:
  Package libxcb-xinerama0-dev is not installed.
dpkg: error processing package packettracer (--install):
 dependency problems - leaving unconfigured
Processing triggers for gnome-menus (3.36.0-1ubuntu1) ...
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for shared-mime-info (1.15-1) ...
Errors were encountered while processing:
 Packettracer
pradeva@pradeva-VirtualBox:~/Downloads$ sudo apt install -f
Reading package lists... Done
Building dependency tree
Reading state information... Done
Correcting dependencies... Done
The following additional packages will be installed:
 dialog libgl1-mesa-glx libpthread-stubs0-dev libxau-dev libxcb-xinerama0-dev libxcb1-dev
 libxdmcp-dev x11proto-core-dev x11proto-dev xorg-sgml-doctools
Suggested packages:
 libxcb-doc
The following NEW packages will be installed:
 dialog libgl1-mesa-glx libpthread-stubs0-dev libxau-dev libxcb-xinerama0-dev libxcb1-dev
 libxdmcp-dev x11proto-core-dev x11proto-dev xorg-sgml-doctools
0 upgraded, 10 newly installed, 0 to remove and 0 not upgraded.
1 not fully installed or removed.
Need to get 973 kB of archives.
After this operation, 4.003 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://id.archive.ubuntu.com/ubuntu focal/universe amd64 dialog amd64 1.3-20190808-1 [231 kB]
Get:2 http://id.archive.ubuntu.com/ubuntu focal-updates/main amd64 libgl1-mesa-glx amd64 21.2.6-0ubuntu0.1~20.04.1 [5.536 B]
Get:3 http://id.archive.ubuntu.com/ubuntu focal/main amd64 libpthread-stubs0-dev amd64 0.4-1 [5.384 B]
Get:4 http://id.archive.ubuntu.com/ubuntu focal/main amd64 xorg-sgml-doctools all 1:1.11-1 [12,9 kB]
Get:5 http://id.archive.ubuntu.com/ubuntu focal/main amd64 x11proto-dev all 2019.2-1ubuntu1 [594 kB]
```

