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1 a. Jelaskan pengertian Linux secara umum!

Linux adalah sistem operasi bersifat open source, menggunakan kernel Linux sebagai inti, dibuatkan aplikasi dan module pendukung sehingga layak secara luh.

b. Jelaskan 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 varian distrib.

c. Sebutkan minimal 5 macam distro Linux beserta spesifikasiya!

1. Ubuntu

Prosesor : dual core 2ghz

RAM : 4GB

HDD : 20GB

2. Kali Linux

Prosesor : i386/AMD64

RAM : 2GB

HDD : 20GB

3. Debian

Prosesor : ~~pentium~~ pentium 16hz

RAM : 12MB

HDD : 10GB

4. Fedora

Prosesor : 16hz

RAM : 1GB

HDD : 10GB

5. Open Suse

Prosesor : Pentium 4

RAM : 1GB

HDD : 10GB

Install GIT

```
pradeva@pradeva-VirtualBox: ~/Desktop
After this operation, 38.4 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://id.archive.ubuntu.com/ubuntu focal/main amd64 liberror-perl all 0.1
7029-1 [26,5 kB]
Get:2 http://id.archive.ubuntu.com/ubuntu focal-updates/main amd64 git-man all 1
:2.25.1-1ubuntu3.2 [884 kB]
Get:3 http://id.archive.ubuntu.com/ubuntu focal-updates/main amd64 git amd64 1:2
.25.1-1ubuntu3.2 [4.554 kB]
Fetched 5.465 kB in 8s (647 kB/s)
Selecting previously unselected package liberror-perl.
(Reading database ... 142768 files and directories currently installed.)
Preparing to unpack .../liberror-perl_0.17029-1_all.deb ...
Unpacking liberror-perl (0.17029-1) ...
Selecting previously unselected package git-man.
Preparing to unpack .../git-man_1:2.25.1-1ubuntu3.2_all.deb ...
Unpacking git-man (1:2.25.1-1ubuntu3.2) ...
Selecting previously unselected package git.
Preparing to unpack .../git_1:2.25.1-1ubuntu3.2_amd64.deb ...
Unpacking git (1:2.25.1-1ubuntu3.2) ...
Setting up liberror-perl (0.17029-1) ...
Setting up git-man (1:2.25.1-1ubuntu3.2) ...
Setting up git (1:2.25.1-1ubuntu3.2) ...
Processing triggers for man-db (2.9.1-1) ...
pradeva@pradeva-VirtualBox:~/Desktop$
```

```
pradeva@pradeva-VirtualBox:~/Desktop$ git --version
git version 2.25.1
pradeva@pradeva-VirtualBox:~/Desktop$ sudo add-apt-repository ppa:git-core/ppa
[sudo] password for pradeva:
220302 The most current stable version of Git for Ubuntu.

For release candidates, go to https://launchpad.net/~git-core/+archive/candidate .
More info: https://launchpad.net/~git-core/+archive/ubuntu/ppa
Press [ENTER] to continue or Ctrl-C to cancel adding it.

Hit:1 http://id.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://id.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://id.archive.ubuntu.com/ubuntu focal-backports InRelease
Get:4 http://ppa.launchpad.net/git-core/ppa/ubuntu focal InRelease [23,8 kB]
Get:5 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:6 http://ppa.launchpad.net/git-core/ppa/ubuntu focal/main amd64 Packages [3.024 B]
Get:7 http://ppa.launchpad.net/git-core/ppa/ubuntu focal/main i386 Packages [3.020 B]
Get:8 http://ppa.launchpad.net/git-core/ppa/ubuntu focal/main Translation-en [2.252 B]
Get:9 http://security.ubuntu.com/ubuntu focal-security/main amd64 DEP-11 Metadata [40,6 kB]
Get:10 http://security.ubuntu.com/ubuntu focal-security/universe amd64 DEP-11 Metadata [66,2 kB]
Get:11 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 DEP-11 Metadata [2.464 B]
Fetched 255 kB in 6s (41,8 kB/s)
Reading package lists... Done
pradeva@pradeva-VirtualBox:~/Desktop$ sudo apt-get install git
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  git-man
Suggested packages:
  git-daemon-run | git-daemon-sysvinit git-doc git-email git-gui gitk gitweb
  git-cvs git-mediawiki git-svn
The following packages will be upgraded:
  git git-man
2 upgraded, 0 newly installed, 0 to remove and 1 not upgraded.
Need to get 7.625 kB of archives.
After this operation, 2.139 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://ppa.launchpad.net/git-core/ppa/ubuntu focal/main amd64 git amd64 1:2.35.1-0ppa1-ubuntu20.04.1 [5.721 kB]
Get:2 http://ppa.launchpad.net/git-core/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_1:2.35.1-0ppa1-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_1:2.35.1-0ppa1-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-man (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$
```

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/git-core/ppa/ubuntu focal/main amd64 git amd64 1:2.35.1-0ppa1-ubuntu20.04.1 [5.721 kB]
Get:2 http://ppa.launchpad.net/git-core/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_1k3a2.35.1-0ppa1-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_1k3a2.35.1-0ppa1-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-man (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:
OK [Connecting to id.archive.ubuntu.com] [Waiting for headers] [Connecting to 0Get:1 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Hit:2 http://id.archive.ubuntu.com/ubuntu focal InRelease
Hit:3 http://id.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:4 http://ppa.launchpad.net/git-core/ppa/ubuntu focal InRelease
Hit: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 snapd 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-menus (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

```
pradeva@pradeva-VirtualBox: ~/Downloads
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]
```

