Linux System Administrator

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Login Linux Ubuntu

Login Pertama Kali

ubuntu login: **budi** Sandi lewat: ***** (**Password Tidak Terlihat**) Terakhir log masuk: Sen Mei 3 14:33:59 WIT 2010 pada tty1 Linux ubuntu 2.6.24-16-generic #1 SMP Thu Apr 10 13:23:42 UTC 2008 i686

The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

To access official Ubuntu documentation, please visit: http://help.ubuntu.com/ budi@ubuntu:~\$ sudo su - (Perintah login ke Root / Superuser) [sudo] password for budi: ****** (Password user budi instalasi pertama kali)

root@ubuntu:~# passwd (**Mengganti Password Superuser**) Masukkan sandi lewat UNIX baru: Masukkan ulang sandi lewar UNIX baru: passwd: kata sandi diperbaharui dengan sukses root@ubuntu:~#

Konfigurasi Alamat IP

Konfigurasi Alamat IP

root@server:~# vim /etc/network/interfaces

This file describes the network interfaces available on your system# and how to activate them. For more information, see interfaces(5).# The loopback network interfaceauto loiface lo inet loopback

The primary network interface auto eth0 iface eth0 inet static address 192.168.0.71 netmask 255.255.255.0

auto eth1 iface eth1 inet static address 122.200.52.23 netmask 255.255.255.128 gateway 122.200.52.1

Restart Perangkat Jaringan

root@server:~# /etc/init.d/networking restart

Melihat status defaut gateway

root@ubuntu:~# netstat -nr

Kernel IP r	outing table								
Destination	n Gateway		Genmask		Flags	MSS	Window	irtt	Iface
192.168.0.0	0.0.0.0		255.255.2	255.0	U	0	0	0	eth0
169.254.0.0	0.0.0.0		255.255.0	0.0	U	0	0	0	eth0
0.0.0.0	192.168.0.71	0.0.0.0	UG	0 0	0 e	th0			

Mencoba koneksi internet dan LAN

root@ubuntu:~# ping 192.168.0.71 PING 192.168.0.71 (192.168.0.71) 56(84) bytes of data. 64 bytes from 192.168.0.71: icmp_seq=1 ttl=64 time=0.212 ms 64 bytes from 192.168.0.71: icmp_seq=2 ttl=64 time=0.220 ms 64 bytes from 192.168.0.71: icmp_seq=3 ttl=64 time=0.216 ms 64 bytes from 192.168.0.71: icmp_seq=4 ttl=64 time=0.206 ms (Akhiri Loop:: CTRL + c)

--- 192.168.0.71 ping statistics ---

4 packets transmitted, 4 received, 0% packet loss, time 2999ms rtt min/avg/max/mdev = 0.206/0.213/0.220/0.015 ms

root@ubuntu:~# ping 122.200.52.1

PING 122.200.52.1 (122.200.52.1) 56(84) bytes of data. 64 bytes from 122.200.52.1: icmp_seq=1 ttl=63 time=7.41 ms 64 bytes from 122.200.52.1: icmp_seq=2 ttl=63 time=65.2 ms 64 bytes from 122.200.52.1: icmp_seq=3 ttl=63 time=82.1 ms 64 bytes from 122.200.52.1: icmp_seq=4 ttl=63 time=42.8 ms (Akhiri Loop:: CTRL + c)

--- 122.200.52.1 ping statistics ---4 packets transmitted, 4 received, 0% packet loss, time 3001ms rtt min/avg/max/mdev = 7.418/49.413/82.162/27.976 ms

Konfigurasi DNS

root@server:~# vim /etc/resolv.conf nameserver 192.168.0.71 nameserver 202.46.1.2 nameserver 122.200.48.14

Mencoba konfigurasi DNS

root@ubuntu:~# nslookup www.yahoo.com Server: 192.168.0.71

Address: 192.168.0.71#53

Non-authoritative answer:

www.yahoo.com canonical name = fp.wg1.b.yahoo.com.

fp.wg1.b.yahoo.com canonical name = any-fp.wa1.b.yahoo.com. Name: any-fp.wa1.b.yahoo.com Address: 98.137.149.56 Name: any-fp.wa1.b.yahoo.com Address: 72.30.2.43

root@ubuntu:~# ping www.yahoo.com

PING any-fp.wa1.b.yahoo.com (72.30.2.43) 56(84) bytes of data. 64 bytes from ir1.fp.vip.sk1.yahoo.com (72.30.2.43): icmp_seq=1 ttl=51 time=224 ms 64 bytes from ir1.fp.vip.sk1.yahoo.com (72.30.2.43): icmp_seq=2 ttl=51 time=221 ms 64 bytes from ir1.fp.vip.sk1.yahoo.com (72.30.2.43): icmp_seq=3 ttl=51 time=221 ms 64 bytes from ir1.fp.vip.sk1.yahoo.com (72.30.2.43): icmp_seq=4 ttl=51 time=233 ms

--- any-fp.wa1.b.yahoo.com ping statistics ---4 packets transmitted, 4 received, 0% packet loss, time 3001ms rtt min/avg/max/mdev = 221.387/225.051/233.064/4.757 ms

Informasi Perangkat Keras Linux

Informasi Prosessor

root@ubuntu:~# cat /proc/cpuinfo

processor	: 0
vendor_id	: AuthenticAMD
cpu family	: 15
model	: 79
model name	: AMD Sempron(tm) Processor 3000+
stepping	:2
cpu MHz	: 1607.415
cache size	: 256 KB
fdiv_bug	: no
hlt_bug	: no
f00f_bug	: no
coma_bug	: no
fpu	: yes
fpu_exception	: yes
cpuid level	:1
wp	: yes
flags	: fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36
clflush mmx	fxsr sse sse2 syscall nx mmxext fxsr_opt rdtscp lm 3dnowext 3dnow up pni
cx16 lahf_lm	extapic cr8_legacy ts ttp tm stc
bogomips	: 3218.22
clflush size	: 64

Informasi Penggunaan Memory

	-
root@ubuntu:~# cat	t /proc/meminfo
MemTotal:	970380 kB
MemFree:	304248 kB
Buffers:	47712 kB
Cached:	372272 kB
SwapCached	l: 0 kB
Active:	331596 kB

Informasi Partisi Hardisk

root@ubuntu:~# fdisk -l (huruf L bukan angka satu) Disk /dev/sda: 40.0 GB, 40020664320 bytes 255 heads, 63 sectors/track, 4865 cylinders Units = cylinders of 16065 * 512 = 8225280 bytes Disk identifier: 0x025d025d

Device Boot	Start	End Blocks Id System
/dev/sda1 *	1	892 7164958+ 83 Linux
/dev/sda2	1021	3570 20482875 83 Linux
/dev/sda3	3571	4865 10402087+ 83 Linux
/dev/sda4	893	1020 1028160 5 Extended
/dev/sda5	893	1020 1028128+ 82 Linux swap / Solaris

root@budi-desktop:~# df

Filesystem	1K-blocks Used Available Use% Mounted on
/dev/sdb6	29223512 3541944 24216788 13% /
udev	472944 4 472940 1% /dev
tmpfs	192088 912 191176 1% /run
none	5120 4 5116 1% /run/lock
none	480212 76 480136 1% /run/shm
/dev/sdb7	58485072 1176480 54378980 3% /home
/dev/sdb5	30701232 10276512 20424720 34% /media/DATA

Informasi Perangkat USB

root@ubuntu:~# lsusb

Bus 002 Device 001: ID 0000:0000 Bus 001 Device 002: ID 12d1:140c Huawei Technologies Co., Ltd. Bus 001 Device 001: ID 0000:0000

Infomasi Driver yang digunakan linux

root@ubuntu:~# lsmod Module Size Used by nls_iso8859_1 4992 1 nls_cp437 6656 1

nis_cp43/	6656 1
vfat	14464 1
fat	54556 1 vfat
isofs	36388 1

ipv6	267780 17
rfcomm	41744 2
12cap	25728 13 rfcomm
bluetooth	61156 4 rfcomm,l2cap

Task Manager Linux

root@ubuntu:~# top (untuk quit tekan huruf q)

					roo	t@ubu	un	tu: ~				X
<u>F</u> ile <u>I</u>	<u>E</u> dit <u>∨</u> iew	<u>T</u> erm	inal	Ta <u>b</u> s	<u>H</u> elp							
top -	17:30:05	5 up 1	7 mi	in, 2	users	;, lo	a	d aver	age:	0.06, 0.13	3, 0.21	
Tasks	: 118 tot	tal,	2 r	running	g, 116	, slee	epi	ing,	õ st	opped, () zombie	
Cpu(s)): 1.3%u	ıs, 0	.3%s	sy, 0	.0%ni,	98.3	3%j	id, e).0%wa	, 0.0%hi	, 0.0%si, 0.0%st	
Mem:	970380	0k tot	al,	6715	592k i	ısed,		29878	38k fr	ee, 483	376k buffers	
Swap:	996020)k tot	al,		0k ι	ısed,		99602	20k fr	ee, 3725	556k cached	
PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND	
5964	root	20	Θ	98472	24m	6812	S	0.7	2.6	0:20.78	Xorg	
6454	budi	20	Θ	144m	47m	14m	S	0.7	5.0	0:37.49	totem	
6750	budi	20	Θ	66180	19m	10m	R	0.7	2.0	0:00.88	gnome-terminal	
6552	budi	20	Θ	208m	84m	59m	S	0.3	8.9	0:25.76	soffice.bin	
1	root	20	Θ	2844	1692	544	S	0.0	0.2	0:01.42	init	
2	root	15	- 5	Θ	Θ	Θ	S	0.0	0.0	0:00.00	kthreadd	
3	root	RT	- 5	Θ	Θ	Θ	S	0.0	0.0	0:00.00	migration/0	
4	root	15	- 5	Θ	Θ	Θ	S	0.0	0.0	0:00.02	ksoftirqd/0	
5	root	RT	- 5	Θ	Θ	Θ	S	0.0	0.0	0:00.00	watchdog/0	
6	root	15	- 5	Θ	Θ	Θ	S	0.0	0.0	0:00.02	events/0	
7	root	15	- 5	Θ	Θ	Θ	S	0.0	0.0	0:00.00	khelper	
42	root	15	- 5	Θ	Θ	Θ	S	0.0	0.0	0:00.04	kblockd/0	
45	root	15	- 5	Θ	Θ	Θ	S	0.0	0.0	0:00.00	kacpid	
46	root	15	- 5	Θ	Θ	Θ	S	0.0	0.0	0:00.00	kacpi_notify	
160	root	15	- 5	Θ	Θ	Θ	S	0.0	0.0	0:00.00	kseriod	
198	root	20	Θ	Θ	Θ	Θ	S	0.0	0.0	0:00.00	pdflush	
199	root	20	Θ	Θ	Θ	Θ	S	0.0	0.0	0:00.00	pdflush	-

Informasi Jaringan Komputer

Trafik Jaringan Internet dan LAN

root@budi-desktop:~# apt-get install iftop root@budi-desktop:~# iftop -i ppp0

Trace Alamat IP

root@budi-desktop:~# apt-get install traceroute root@budi-desktop:~# traceroute www.detik.com traceroute to www.detik.com (203.190.242.69), 30 hops max, 60 byte packets

- 1 10.20.30.77 (10.20.30.77) 71.571 ms 81.518 ms 82.507 ms
- 2 ***
- 3 10.20.161.40 (10.20.161.40) 114.432 ms 144.419 ms 145.380 ms
- 4 202.70.56.49 (202.70.56.49) 146.368 ms 92.326 ms 93.241 ms
- 5 202.70.56.17 (202.70.56.17) 93.222 ms 134.240 ms 134.226 ms
- 6 ip-177-141.moratelindo.co.id (202.43.177.141) 146.175 ms 147.172 ms 103.508 ms

7 218.100.36.2 (218.100.36.2) 109.434 ms 109.417 ms 118.434 ms

8 detik.openixp.net (218.100.27.192) 118.420 ms 148.375 ms 148.363 ms

9 203.190.244.6 (203.190.244.6) 171.371 ms 172.325 ms 187.844 ms

10 203.190.242.69 (203.190.242.69) 289.785 ms 380.763 ms 487.730 ms

Informasi Domain Internet

root@budi-desktop:~# whois detik.com Domain Name: DETIK.COM Registrar: NETWORK SOLUTIONS, LLC. Whois Server: whois.networksolutions.com Referral URL: http://www.networksolutions.com/en_US/ Name Server: NS.DETIK.NET.ID

root@budi-desktop:~# whois 202.70.56.49
% [whois.apnic.net node-5]
% Whois data copyright terms http://www.apnic.net/db/dbcopyright.html

inetnum: 202.70.56.0 - 202.70.56.255 netname: SMART-TELECOM-ID descr: PT SMART TELECOM country: ID

Melihat Trafik Jaringan

root@budi-desktop:~# apt-get install ngrep root@budi-desktop:~# ngrep -d ppp0

Melihat Routing Table

root@budi-desktop:~# netstat -nr

Kernel	IP	routing	ta	ble	
--------	----	---------	----	-----	--

Destination	Gateway	Genmask	Flags	MSS	Window	irtt	Iface
0.0.0.0	10.20.31.17	0.0.0	UG	0	0	0	ppp0
10.20.31.17	0.0.0.0	255.255.255.255	UH	0	0	0	ppp0
169.254.0.0	0.0.0.0	255.255.0.0	U	0	0	0	ppp0

Konfigurasi Repository Aplikasi

Alamat Repository Ubuntu

http://dl2.foss-id.web.id http://kambing.ui.ac.id http://ubuntu.cbn.net.id ftp://ftp.itb.ac.id http://komo.vlsm.org (Telkom Speedy)
(Univesitas Indonesia)
(Provider Internet CBN)
(Institut Teknologi Bandung)
(Institut Teknologi Sepuluh November)

Konfigurasi Repository

root@server:~# vim /etc/apt/sources.list

deb http://kambing.ui.ac.id/ubuntu karmic main universe multiverse restricted deb http://kambing.ui.ac.id/ubuntu karmic-updates main universe multiverse restricted deb http://kambing.ui.ac.id/ubuntu karmic-security main universe multiverse restricted deb http://kambing.ui.ac.idubuntu karmic-proposed main universe multiverse restricted deb http://kambing.ui.ac.idubuntu karmic-backports main universe multiverse restricted

Update List Aplikasi Repository

root@server:~# **apt-get update** Hit http://kambing.ui.edu karmic Release.gpg Hit http://kambing.ui.edu karmic/main Translation-id Ign http://kambing.ui.edu karmic/universe Translation-id Hit http://kambing.ui.edu karmic/multiverse Translation-id

Pencarian Aplikasi yang diinginkan

root@server:~# apt-cache search vim exuberant-ctags - build tag file indexes of source code definitions linuxdoc-tools - convert LinuxDoc SGML source into other formats vim - Vi IMproved - enhanced vi editor vim-common - Vi IMproved - Common files vim-dbg - Vi IMproved - enhanced vi editor (debugging symbols) vim-doc - Vi IMproved - HTML documentation vim-gnome - Vi IMproved - enhanced vi editor - with GNOME2 GUI vim-gui-common - Vi IMproved - Common GUI files vim-runtime - Vi IMproved - Runtime files vim-tiny - Vi IMproved - enhanced vi editor - compact version

Instalasi Aplikasi

root@server:~# apt-get install mysql-server root@server:~# apt-get install vim nmap ngrep root@server:~# apt-get install inkscape dia xfig scribus root@server:~# dpkg -i google-chrome-1.0.deb root@server:~# apt-get -f install (Meng install depedensi yang belum terpasang)

Menghapus Aplikasi

root@server:~# apt-get autoremovc nmap (Menghapus aplikasi tdk beserta konfigurasi) root@server:~# aptitude purge nmap (Menghapus aplikasi beserta konfigurasi)

Pencarian Aplikasi yang terpasang

root@server:~# **dpkg-query -W | grep vim** vim 2:7.2.245-2ubuntu2 vim-common 2:7.2.245-2ubuntu2 vim-runtime 2:7.2.245-2ubuntu2 vim-tiny 2:7.2.245-2ubuntu2

Pencarian direktori lokasi aplikasi

root@server:~# **dpkg -L vim** /usr/bin/vim.basic /usr/share /usr/share/lintian /usr/share/lintian/overrides /usr/share/lintian/overrides/vim

Instalasi Driver Printer Contoh: Canon PIXMA IP3500



1. Langkah pertama cari di www.google.com

[ubuntu][SOLVED] Canon Pixma ip3500 - Ubuntu Forums ☆ - [Terjemahkan laman ini] 5 pesan - 4 penulis - Pos terakhir: 4 Jun 2009 [ubuntu][SOLVED] Canon Pixma ip3500 Hardware & Laptops. ... Both Canon-Europe and Canon-Australia have the same driver packages. ... ubuntuforums.org > ... > Hardware & Laptops - Tembolok - Mirip canon pixma ip 3500 - 5 pesan - 6 Feb 2008 new repository for a FEW canon printer drivers - Page 5 - 10 pesan - 29 Jan 2008 Telusuran lainnya dari ubuntuforums.org »

- 2. Download driver di alamat http://support-au.canon.com.au/contents/AU/EN/0100083401.html http://support-au.canon.com.au/contents/AU/EN/0100083501.html
- Instalasi driver canon pixma ip3500 root@ubuntu:/home/budi/Downloads# dpkg -i cnijfilter-common_2.80-1_i386.deb root@ubuntu:/home/budi/Downloads# dpkg -i cnijfilter-ip3500series_2.80-1_i386.deb
- 4. Konfigurasi printer, System --> Administration --> Printer --> New Printer



5. Pilih Internet Printing Protocol

🖳 pixma ip3500 ubunt	Company Configurasi Printer Hoocalhost iteranga adala	_ • ×
<u>File Edit B</u> antuan		
Printer Baru	Salin Hapus Goto Server Perbarui	
Server Settings	Pengaturan Dasar Server	
	🔲 Tampilkan pencetak yang dibagikan oleh sistem lain	
PDF	Share published printers connected to this system Printer Baru	
	Pilih Sambungan Pencetak IPP	
	Perangkat Host: 192.168.0.37 Cari Antrian	
	Print into PDF file	
	LPT #1	
	AppSocket/HP letDirect	
	Internet Printing Protocol (ipp)	
-	LPD/LPR Host or Printer	
	Windows Printer via SAMBA	
	Lainnya Canon-iP3500	
	Canon-iP3500-3	
	Canon-IX210P-series	
	C Perbarui Batal	

6. Masuk Pilihan Driver Canon

🚊 🔤 pixma ip3500 ubunt	n Standard Standard Configurasi Printer Flocalhost iteranga Judul	_ • ×
<u>F</u> ile <u>E</u> dit <u>B</u> antuan		
Printer Baru Kelas Baru	Salin Hapus Goto Server Perbarui	
Server Settings	Penataan Kebijakan Kendali Akses Opsi Pencetak Opsi Tugas	
PDF	Ubah Driver	
	Pilih pencetak dari basis data	
Canon-iP3500-2	The foomatic printer database contains various manufacturer provided PostScript Printer Description (PPD) files and also can generate PPD files for a large number of (non PostScript) printers. But in general manufacturer provided PPD files provide better access to the specific features of the printer.	Ubah
	Pembuat	Ubah
	Apple	
	Brother	Make Default
	Canon	
	Citizen	
	○ Sediakan berkas PPD	
	Berkas PostScript Printer Description (PPD) seringkali dapat ditemukan pada cakram driver yang datang dengan pencetak. Bagi pencetak PostScript mereka seringkali menjadi bagian dari driver Windows®.	
	(Tidak ada)	
	🔀 Batal 🚔 Maju	



Pengelolaan User dan Group

Login ke root

budi@ubuntu:~\$ sudo su -[sudo] password for budi: root@ubuntu:~#

Penambahan User

root@ubuntu:~# adduser dono Menambhakan pengguna 'dono' ... Menambah grup baru `dono' (1001) ... Membuat direktori home '/home/dono' ... Menyalin berkas dari `/etc/skel' ... Masukkan sandi lewat UNIX baru: Masukkan ulang sandi lewar UNIX baru: passwd: kata sandi diperbaharui dengan sukses Mengubah informasi pengguna dari dono Masukkan nilai baru atau tekan ENTER untuk nilai bawaan Nama Lengkap []: Dono Warkop DKI Nomor Ruangan []: Telepon Kantor []: Telepon Rumah []: Lain-lain []: Apakah keterangan tersebut benar? [y/T] y

Melihat User ID

root@ubuntu:~# id budi uid=1000(budi) gid=1000(budi) kelompok=1000(budi),4(adm),20(dialout),24(cdrom),25(floppy),29(audio),30(dip),44(video),46(plugdev),107(fuse),109(lpadmin),115(admin),124(sambashare)

root@ubuntu:~# **id dono** uid=1001(dono) gid=1001(dono) kelompok=1001(dono)

Mengganti Password User

root@ubuntu:~# **passwd dono** Masukkan sandi lewat UNIX baru: Masukkan ulang sandi lewar UNIX baru: passwd: kata sandi diperbaharui dengan sukses

root@ubuntu:~# **passwd budi** Masukkan sandi lewat UNIX baru: Masukkan ulang sandi lewar UNIX baru: passwd: kata sandi diperbaharui dengan sukses

Menghapus user

root@ubuntu:~# userdel uni (Hapus user uni tanpa dengan home dir) root@ubuntu:~# userdel -r uni (Hapus user uni dengan home dir)

Melihat User Login

root@	∮server:~	# last	
root	pts/2	192.168.0.2	Mon May 3 13:48 - 14:34 (00:46)
root	pts/0	192.168.0.2	Mon May 3 12:48 still logged in

root@server:~# lastlog

Username	Port	From	Latest		
root		pts/2	192.168.0.2	Sen Mei	3 13:48:02
daemon				**Never	logged in**
bind				**Never	logged in**
sshd				**Never	logged in**
ardelindo		tty2		Sen Apr	26 08:27:51

Menambahkan Group

root@ubuntu:~# **groupadd sales** (Menambahkan group baru **sales**) root@ubuntu:~# **gpasswd -a eri sales** (Menambah user eri ke group sales) Menambahkan pengguna eri ke grup sales root@ubuntu:~# **gpasswd -a dono sales** (Menambah user dono ke group sales) Menambahkan pengguna dono ke grup sales

Memeriksa anggota group

root@ubuntu:~# id eri uid=1002(eri) gid=1002(eri) kelompok=1002(eri),1003(sales) root@ubuntu:~# id dono uid=1001(dono) gid=1001(dono) kelompok=1001(dono),1003(sales) root@ubuntu:~# cat /etc/group | grep sales sales:x:1003:eri,dono

Menghapus anggota dari group

root@ubuntu:~# **gpasswd -d dono sales** Mengeluarkan pengguna dono dari grup sales root@ubuntu:~# **gpasswd -d eri sales** Mengeluarkan pengguna eri dari grup sales root@ubuntu:~# **groupdel sales** (Menghapus group sales)

Login ke Root tanpa password

root@ubuntu:~# groupadd wheel
root@ubuntu:~# gpasswd -a budi wheel
root@ubuntu:~# vim /etc/pam.d/su
#dihilangkan pagar di depan kata auth
auth sufficient pam_wheel.so trust
budi@ubuntu:~\$ su root@ubuntu:~# <-- Langsung ke root / superuser tanpa password</pre>

Manajemen Direktori dan File

Instalasi Tree

root@ubuntu:~# **apt-get install tree** Reading package lists... Done Building dependency tree Reading state information... Done tree telah berada dalam versi terbaru.

Membuat direktori

root@ubuntu:~# mkdir -p kota/depok/bogor/solo/madiun root@ubuntu:~# tree kota/ (Melihat struktur direktori kota) kota/ `-- depok `-- bogor

`-- solo

`-- madiun

root@ubuntu:~# mkdir -p kota/magetan/caruban/ngawi/bojonegoro root@ubuntu:~# tree kota/ kota/ |-- depok | `-- bogor | `-- solo | `-- madiun `-- magetan `-- caruban `-- ngawi `-- bojonegoro

Autocomplete

cd kota/[TAB]/[TAB]/[TAB] (Tekan tombol keyboard TAB) root@ubuntu:~# cd kota/depok/bogor/solo/madiun/

Berganti Direktori

root@ubuntu:~# cd kota/depok/bogor/solo/madiun/ root@ubuntu:~/kota/depok/bogor/solo/madiun# **pwd** (Posisi direktori sekarang) /root/kota/depok/bogor/solo/madiun

root@ubuntu:~/kota/depok/bogor/solo/madiun# cd ../ (Naik satu tingkat) root@ubuntu:~/kota/depok/bogor/solo# pwd /root/kota/depok/bogor/solo

root@ubuntu:~/kota/depok/bogor/solo# **cd ../../** (Naik tiga tingkat) root@ubuntu:~/kota# pwd /root/kota

Menghapus Direktori

root@ubuntu:~# rm -fr kota/magetan/caruban/ngawi/ root@ubuntu:~# tree kota/ kota/ |-- depok | `-- bogor | `-- solo | `-- madiun `-- magetan `-- caruban

Menyalin direktori

root@ubuntu:~# **cp -R kota/magetan/** kota/depok/bogor/solo/ root@ubuntu:~# tree kota/ kota/ |-- depok | `-- bogor | `-- solo

```
| -- madiun
| `-- magetan
| `-- caruban
`-- caruban
```

Merubah Nama Direktori

root@ubuntu:~# mv kota/magetan/ kota/kediri (Rename magetan jadi kediri) root@ubuntu:~# tree kota/ kota/ I-- depok I `-- bogor I `-- solo I I-- madiun I `-- magetan I `-- caruban `-- kediri `-- caruban

Membuat Link Direktori

root@ubuntu:~# ln -s kota/kediri/ jatim root@ubuntu:~# ls -la | grep jatim lrwxrwxrwx 1 root root 12 2010-05-04 09:45 jatim -> kota/kediri/

Membuat File Kosong

root@ubuntu:~# cp filebaru.txt kota/depok/bogor/ root@ubuntu:~# tree kota/ kota/ I-- depok | `-- bogor |-- filebaru.txt 1 `-- solo L I-- madiun L `-- magetan `-- caruban `-- kediri `-- caruban

Menghapus File

root@ubuntu:~# rm -fr kota/depok/bogor/filebaru.txt root@ubuntu:~# tree kota/ kota/ |-- depok | `-- bogor | `-- solo | |-- madiun | `-- magetan

Kepemilikan dan Hak Izin Akses

Kepemilikan dan Hak Izin Akses

root@ubuntu:~# touch percobaan.txt root@ubuntu:~# ls -la percobaan.txt -rw-r--r-- 1 root root 0 2010-05-04 10:25 percobaan.txt



Merubah kepemilikan

root@ubuntu:~# ls -la percobaan.txt -rw-r--r-- 1 **root root** 0 2010-05-04 10:25 percobaan.txt

root@ubuntu:~# chown -R budi.sales percobaan.txt root@ubuntu:~# ls -la percobaan.txt -rw-r--r-- 1 budi sales 0 2010-05-04 10:25 percobaan.txt



root@ubuntu:~# ls -la percobaan.txt -rw-r--r-- 1 budi sales 0 2010-05-04 10:25 percobaan.txt root@ubuntu:~# chmod -R 760 percobaan.txt root@ubuntu:~# ls -la percobaan.txt -rwxrw---- 1 budi sales 0 2010-05-04 10:25 percobaan.txt

Super User ID

root@ubuntu:~# ls -la /bin/touch -rwxrwxr-x 1 root root 43740 2008-04-04 13:42 /bin/touch root@ubuntu:~# chmod 4775 /bin/touch root@ubuntu:~# ls -la /bin/touch -rwsrwxr-x 1 root root 43740 2008-04-04 13:42 /bin/touch budi@ubuntu:~\$ touch dataku.txt
budi@ubuntu:~\$ ls -la dataku.txt
-rw-r--r-- 1 root budi 0 2010-05-04 14:02 dataku.txt

Imunitas File

root@ubuntu:~# touch test.txt root@ubuntu:~# chattr +i test.txt root@ubuntu:~# lsattr test.txt ----i------ test.txt

root@ubuntu:~# rm test.txt rm: tidak dapat menghapus `test.txt': Operation not permitted root@ubuntu:~# chattr -i test.txt root@ubuntu:~# rm test.txt

Pencarian file dan data

Locate file

root@ubuntu:~**# updatedb** root@ubuntu:~**# locate passwd** /etc/passwd /etc/passwd-/etc/security/opasswd

Perintah Find

root@ubuntu:~# find /etc/ -perm 755 -type f (File yang hak izin akses 755) /etc/resolvconf/update-libc.d/avahi-daemon /etc/wpa_supplicant/ifupdown.sh /etc/wpa_supplicant/functions.sh /etc/mysql/debian-start /etc/cron.monthly/0anacron

root@ubuntu:~# ls -la /etc/X11/Xsession -rwxr-xr-x 1 root root 3730 2008-03-13 22:10 /etc/X11/Xsession

root@ubuntu:~# find /etc/ -name ''*.sh'' -type f (File extension *.sh) /etc/lsb-base-logging.sh /etc/openoffice/soffice.sh

root@ubuntu:~# find /etc/ -type f -mtime -2 (File yang diupdate 2 hari yang lalu) /etc/resolv.conf /etc/gshadow-

root@ubuntu:~# date Sel Mei 4 14:25:01 WIT 2010 root@ubuntu:~# ls -la /etc/resolv.conf -rw-r--r-- 1 root root 196 **2010-05-04** 12:17 /etc/resolv.conf

Pencarian Text dalam File

root@ubuntu:~# grep -r smtp /etc/services smtp 25/tcp mail ssmtp 465/tcp smtps # SMTP over SSL root@ubuntu:~# grep -r budi /etc/passwd budi:x:1000:1000:budi,,,:/home/budi:/bin/bash root@ubuntu:~# grep -r sales /etc/group sales:x:1004:

Pengalihan Arah Keluaran

root@ubuntu:~#	netstat -nr						
Kernel IP rout	ing table						
Destination	Gateway	Genmask	Flags	MSS	Window	irtt	Iface
192.168.0.0	0.0.0.0	255.255.255.0	U	0	0	0	eth0
169.254.0.0	0.0.0.0	255.255.0.0	U	0	0	0	eth0
0.0.0.0	192.168.0.71	0.0.0.0	UG	0	0	0	eth0
root@ubuntu:~#	<pre>netstat -nr > f</pre>	ile.txt					
root@ubuntu:~#	cat file.txt						
Kernel IP rout	ing table						
Destination	Gateway	Genmask	Flags	MSS	Window	irtt	Iface
192.168.0.0	0.0.0.0	255.255.255.0	U	0	0	0	eth0
169.254.0.0	0.0.0.0	255.255.0.0	U	0	0	0	eth0
0.0.0.0	192.168.0.71	0.0.0.0	UG	0	0	0	eth0

Penyaringan Keluaran Perintah

root@ubuntu:~	-#	ls -la /etc/	grep	-r passwd		
-rw-rr	1	root root	1809	2010-05-03	15:28	passwd
-rw	1	root root	1806	2010-05-03	15:28	passwd-
root@ubuntu:~	- #	ls -la /etc/	grep	-r gro		
drwxr-xr-x	2	root root	4096	2010-03-23	10:34	groff
-rw-rr	1	root root	1016	2010-05-04	11:11	group
-rw	1	root root	1002	2010-05-03	15 : 37	group-
-rw-rr	1	root root	599	2006-06-20	01:21	logrotate.conf
drwxr-xr-x	2	root root	4096	2010-04-01	13:55	logrotate.d

Editor Vim

Membuat file baru

root@ubuntu:~# apt-get install vim
root@ubuntu:~# vim percobaan.txt

Mode Perintah

Mode perintah hanya untuk menjalankan perintah vim, copy,paste, insert dan lain – lain, bukan untuk melakukan penyutingan file.



Mengedit File

Untuk edit file tekan huruf " i " atau tombol keyboard **Insert**, sampai kursor paling bawah ada tulisan INSERT.



Menyimpan File dan keluar

Untuk menyimpan file keluar dari mode edit dengan menekan tombol **ESC** hingga tulisan INSERT dibawah **tidak tampak**. Kemudian tekan tombol " :wq" dan enter.



Perintah ViM standar:

:w	: Simpan file
:wq	: Simpan dan Keluar
:q!	: Keluar tanpa simpan
:set nu	: Munculkan nomor baris
:set nonu	: Menghilangkan nomor baris
%s/jakarta/depok/	: Ganti kata ' jakarta ' dengan 'depok'
:1,10y	: Copy baris 1 sampai 10
:23,40d	: Delete baris 23 sampai 40

Perintah ViM Console

Manipulasi text	
Copy 1 baris	: SHIFT + y
Copy 5 baris	: 5 + SHIFT +
Paste 1 kali	: p
Paste 5 kali	: 5p
Delete 1 kata	: dw
Delete 4 kata	: 5dw
Delete 1 baris	: dd
Delete 5 baris	: 5dd
Undo	: u
Redo	: CTRL + r
Ganti 1 kata	: cw
Ganti 3 kata	: 3cw

у

Navigasi

Ke Baris 13	: 13 + SHIFT + g
Ke Halaman Pertama	: 1 + SHIFT + g
Ke Halaman Akhir	: SHIFT + g

Pencarian kata

/kata_yang_dicari	: Pencarian ke bawah
?kata_yang_dicari	: Pencarian ke atas
n	: Pencarian berikutnya
SHIFT + n	: Pencarian sebelumnya

Pengelolaan Proses

Melihat Proses yang aktif

root@ubuntu:~# ps ax

PID	TTY	STAT	TIME	COMMAND
1	?	Ss	0:01	/sbin/init
2	?	S<	0:00	[kthreadd]
3	?	S<	0:00	[migration/0]
4	?	S<	0:00	[ksoftirqd/0]
5	?	S<	0:00	[watchdog/0]
6	?	S<	0:00	[events/0]

root@ubuntu:~# ps aux | grep budi

			-		<u> </u>			
budi	5894	0.0	0.5	7464	3088 ?	S	08:05	0:01 /usr/lib/libgconf2-4/gconfd-2 4
budi	5896	0.0	0.2	14272	1528 ?	S	08:05	0:00 /usr/bin/gnome-keyring-daemon -dlogin
budi	5899	0.0	1.1	29088	5920 ?	Ssl	08:05	0:00 /usr/bin/gnome-session

Mematikan Proses

Buka aplikasi Firefox Web Browser root@ubuntu:~# ps aux | grep firefox budi 13809 8.8 21.0 380980 108616 ? RI 14:19 2:36 /opt/firefox/firefox-bin root 14439 0.0 0.1 3020 784 pts/1 R+ 14:48 0:00 grep firefox root@ubuntu:~# killall -s 9 firefox-bin root@ubuntu:~# killall -s 9 firefox-bin firefox-bin: no process killed

root@ubuntu:~# ps aux | grep firefox budi 14993 29.9 15.9 294596 82072 ? RI 15:17 0:05 /opt/firefox/firefox-bin root 15035 0.0 0.1 3020 784 pts/1 R+ 15:17 0:00 grep firefox root@ubuntu:~# kill -s 9 15035 -su: kill: (15035) - No such process root@ubuntu:~# kill -s 9 14993

Melihat proses server jaringan

root@server:~#	ps ax	grep	apache
----------------	-------	------	--------

3900	?	Ss	0:00	/usr/sbin/apache2	-k	start
3904	?	S	0:00	/usr/sbin/apache2	-k	start
3905	?	S	0:00	/usr/sbin/apache2	-k	start

root@server:~# netstat -ap grep apache2							
tcp6	0	0 [::]:www	[::]:*	LISTEN	3900 /apache2		

Penjadwalan

menit	jam	tgl	bln	hari	CMD	
5	*	*	*	*	CMD	(CMD dijalankan tiap jam lebih 5 menit)
5	12	*	*	*	CMD	(CMD dijalankan setiap jam 12 lebih 5 menit)
5	1	23	*	*	CMD	(CMD dijalankan setiap tanggal 23 jam 01:05)
*	*	*	2	*	CMD	(CMD dijalankan setiap bulan februari tgl 1)
*	*	*	2	*	CMD	(CMD dijalankan setiap hari minggu)

root@ubuntu:~# crontab -e 5 1 * * * tar czf /opt/etc.tar.gz /etc crontab: installing new crontab

Backup dan Restore

Kompresi file dan direktori

root@server:~# tar czvf etc.tar.gz /etc/ tar: Removing leading `/' from member names root@server:~# tar cjvf etc.tar.bz2 /etc/ tar: Removing leading `/' from member names root@server:~# zip -r etc.zip /etc/

Kapasitas file kompresi

root@server:~# du -sk /etc/
12080 /etc/ (Ukuran asli 12MByte)
root@server:~# ls -la etc.* (Satuan Byte)
-rw-r--r-- 1 root root 1377966 2010-05-06 09:09 etc.tar.bz2
-rw-r--r-- 1 root root 1507396 2010-05-06 09:09 etc.tar.gz
-rw-r--r-- 1 root root 11511383 2010-05-06 09:13 etc.zip

Restore file kompresi

root@server:~# tar xzvf etc.tar.gz root@server:~# tar xjvf etc.tar.bz2 root@server:~# unzip etc.zip root@server:~# unrar e etc.rar

Membuat Partisi Baru

Informasi hardisk

root@budi-desktop:~# fdisk -l Disk /dev/sdb: 160.0 GB, 160041885696 bytes 255 heads, 63 sektor/track, 19457 cylinders, total 312581808 sektor Units = sektor dari 1 * 512 = 512 bytes Ukuran sektor (logikal/fisikal): 512 bytes / 512 bytes Ukuran I/O (minimal/optimal): 512 bytes / 512 bytes Identifikasi disk: 0x5ac25ac2

Perangkat	Boot	Awal	Akhir	Blocks	Id	System
/dev/sdb1	*	63	40965749	20482843+	7	HPFS/NTFS/exFAT
/dev/sdb2		40965811	284037119	121535654+	f	W95 Ext'd (LBA)
/dev/sdb5		40965813	102398309	30716248+	b	W95 FAT32
/dev/sdb6		102400000	160991231	29295616	83	Linux
/dev/sdb7		160993280	278177791	58592256	83	Linux
/dev/sdb8		278179840	284037119	2928640	82	Linux swap / Solaris

Membuat partisi baru

root@budi-desktop:~# cfdisk /dev/sdb

😕 🗐 🗊 root@budi-desktop: ~				
	cfdisk (util-li	nux 2.20.1)		
Ukura Heads: 255	Disk Drive: an: 160041885696 Sektor per Trac	/dev/sdb bytes, 160.0 k: 63 Cylin	GB ders: 19457	
Nama Tanda	Tipe PartisTipe	FS	[Label]	Ukuran (MB
) sdb1 Boot	Utama ntfs Pri/Log Spac	e kosong		20974,47 0,04*
sdb5 NC	Logical vfat		[DATA]	31453,44*
sdb6 NC	Logical ext4			29999,58*
sdb7 NC	Logical ext ²			59999,52*
	Rei/Log Space	ie kosona		2999,98*
[Bantuan] <mark>[Baru</mark> [Tulis]] [Cetak] [Berhen	ti] [Satuan]
Buat	partisi baru da	ri ruang koso	na	

оол 🗉 🧠 😢	t@budi-desktop: ^	•		ada di balba					
cfdisk (util-linux 2.20.1)									
	Disk Drive: /dev/sdb Ukuran: 160041885696 bytes, 160.0 GB Heads: 255 Sektor per Track: 63 Cylinders: 19457								
Nama	Tanda	Tipe Parti	isTipe FS	[Label]	Ukuran (MB				
) sdb1	Boot	Utama Pri/Log	ntfs Space kosong		20974,47 0.04*				
sdb5 sdb6	NC NC	Logical	vfat evt4	[DATA]	31453,44*				
sdb7	NC	Logical	ext4		59999,52*				
300	NC	Pri/Log	Space kosong		14614,89*				
[Utam	a] <mark>[Logical]</mark>	[Batal]							

	😣 🗐 🗐 💿	@budi-desktop: ~				
			cfdisk (ut	il-linux 2.20	.1)	
		Uku Heads: 255	Disk Dr ran: 1600418 Sektor per	ive: /dev/sdb 85696 bytes, Track: 63	160.0 GB Cylinders: 19457	
	Nama	Tanda	Tipe Parti	.sTipe FS	[Label]	Ukuran (MB
)	sdb1	Boot	Utama Pri/Log	ntfs Space kosong		20974,47 0.04*
	sdb5	NC	Logical	vfat	[DATA]	31453,44*
	sdb6	NC	Logical	ext4		29999,58*
	sdb7	NC	Logical	ext4		59999,52*
	sdb	NC	Logical	linux		14614 89*
	[Bootal [Berhei	ble] [Hap nti] [Ti	us][Ba pe][S	intuan] [Mal Satuan] <mark>[</mark>	ksimalkan] [Ce <mark>Tulis]</mark>	tak]
	Tulis	tabel partis	i ke disk (I	ni mungkin ak	an menghancurkan	(data)

root@budi-desktop:~# fdisk -1 /dev/sdb /dev/sdb9 284037183 312581807 14272312+ 83 Linux root@budi-desktop:~# reboot

Format partisi baru

root@budi-desktop:~# mkfs.ext4 /dev/sdb9

Mount partisi baru

root@budi-desktop:~# mkdir /mnt/test root@budi-desktop:~# mount /dev/sdb9 /mnt/test/