# Konfigurasi Debian Server

Teknik Komputer dan Jaringan





Yoga Pratama X TKJ 3

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# KATA PENGANTAR

Sebelumnya, saya ingin mengucapkan puji syukur kehadiran Tuhan Yang Maha Esa , karena berkat Kekuasaannya dan kasihnya, sehingga **"Paduan Konfigurasi Debian"** ini dapat berhasil diselesaikan, walaupun banyak kekurangan yang terdapat didalamnya namun bias diselesaikan dengan tepat waktu. Dan juga, saya mengucapkan terima kasih kepada kalian yang telah ikut andil mengembangkan Sistem Operasi Linux di Indonesia. Semoga, negeri kita tercinta ini, dapat terus memunculkan generasi-generasi muda yang handal dan canggih, khususnya di bidang Informatika.

Tutorial Konfigurasi Debian server ini saya pelajari dari beberapa referensi, maaf saya tidak mencantumkanya satu persatu karna saya lupa dan saking banyaknya untuk itu bagi yang tidak saya cantumkan mohon maaf sebelumnya. Yang pasti, saya mengambil dari beberapa referensi dan Internet, dan telah saya uji eBook/modul ini. Berhasil pada Sistem Operasi Debian Lenny 5.

Saya juga meminta maaf, apabila dalam eBook / modul ini, terdapat kekeliruan dalam penyusunanya atau salah konfigurasi. Ataupun juga jika kata yang dipilih tidak sesuai EYD, dan terlalu bertele-tele. Pada eBook / Modul ini , kita cenderung membahas pada Cara Konfigurasi (Praktek) dari pada teori semata.

Sekian dari saya, dan saya harap Tutorial Konfigurasi Debian Server ini dapat bermanfaat bagi Anda semua yang membacanya. Terima Kasih.

> T.D.D Yoga Pratama





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# PENGENALAN DEBIAN

#### 1.1. Apa itu Debian

**Debian** adalah suatu sistem operasi bebas / free open source yang dikembangkan oleh banyak programer sukarela(pengembang Debian) yang tergabung dalam Proyek yang dinamakan Debian. Sistem operasi Debian adalah gabungan dari perangkat lunak yang dikembangkan dengan lisensi GNU, dan utamanya menggunakan kernel Linux, sehingga populer dengan nama Debian GNU/Linux. Sistem operasi Debian yang menggunakan kernel Linux yang merupakan salah satu distro Linux yang populer dengan kestabilannya. Rata-rata Distro turunan Debian adalah Distro yang paling banyak digunakan di dunia, seperti ; Ubuntu , Linux Mint , Backtrack , Knoppix.

#### 1.2. Sejarah Debian

Debian pertama kali diperkenalkan oleh **Ian Murdock**, seorang mahasiswa dari Universitas Purdue, Amerika Serikat, pada tanggal 16 Agustus 1993. Nama Debian berasal dari kombinasi nama Ian (Pembuat Debian) dengan mantan-kekasihnya Debra Lynn, yang Disingkat dengan "DEBIAN".

Pada awalnya, lan memulainya dengan memodifikasi distribusi SLS (Softlanding Linux System). Namun, ia tidak puas dengan SLS yang telah dimodifikasi olehnya sehingga ia berpendapat bahwa lebih baik membangun sistem (distribusi Linux) dari nol (Dalam hal ini, Patrick Volkerding juga berusaha memodifikasi SLS. Ia berhasil dan distribusinya dikenal sebagai "Slackware").

Proyek Debian tumbuh lambat pada awalnya dan merilis versi 0.9x di tahun 1994 dan 1995. Pengalihan arsitektur ke selain i386 dimulai ditahun 1995. Versi 1.x dimulai tahun 1996.

Ditahun 1996, Bruce Perens menggantikan Ian Murdoch sebagai Pemimpin Proyek. Dalam tahun yang sama pengembang debian Ean Schuessler, berinisiatif untuk membentuk Debian Social Contract dan Debian Free Software Guidelines, memberikan standar dasar komitmen untuk pengembangan distribusi debian. Dia juga membentuk organisasi "Software in Public Interest" untuk menaungi debian secara legal dan hukum.

Di akhir tahun 2000, proyek debian melakukan perubahan dalam archive dan managemen rilis. Serta di tahun yang sama para pengembang memulai konferensi dan workshop tahunan "debconf".

Di April 8, 2007, Debian GNU/Linux 4.0 dirilis dengan nama kode "Etch". Rilis versi terbaru Debian, 2009, diberi nama kode "Lenny". deb adalah perpanjangan dari paket perangkat lunak Debian format dan nama yang paling sering digunakan untuk paket-paket binari seperti itu.

Paket debian adalah standar Unix pada arsip yang mencakup dua gzip, tar bzipped atau Izmaed arsip: salah satu yang memegang kendali informasi dan lain yang berisi data. Program kanonik untuk menangani paket-paket tersebut adalah dpkg, paling sering melalui apt/aptitude.



# 2. TCP/IP

#### 2.1. Konfigurasi

1. Pertama Login sebagi super user dengan Root dan isikan password anda. Seperti gambar dibawah ini

Activating swapfile swap...done. Setting up networking.... Configuring network interfaces...done. Starting portmap daemon.... Starting NFS common utilities: statd. Setting console screen modes and fonts. INIT: Entering runlevel: 2 Starting enhanced syslogd: rsyslogd. Starting ACPI services.... Starting MFS common utilities: statd. Not starting internet superserver: no services enabled. Starting deferred execution scheduler: atd. Starting periodic command scheduler: crond. Debian GNU/Linux 5.0 Yoga31 tty1 Yoga31 login: root Password: Login timed out after 60 seconds. Debian GNU/Linux 5.0 Yoga31 tty1

2. Kedua setelah masuk seperti super user lalu kita kitakan perintah

" nano /etc/network/interfaces" lalu setelah itu enter seperti gambar dibawah ini

Debian GNU/Linux 5.0 Yoga31 tty1 Yoga31 login: root Password: Login timed out after 60 seconds. Debian GNU/Linux 5.0 Yoga31 tty1 Yoga31 login: root Password: Login timed out after 60 seconds. Debian GNU/Linux 5.0 Yoga31 tty1 Yoga31 login: root Password: Linux Yoga31 2.6.26-2-686 #1 SMP Mon Aug 30 07:01:57 UTC 2010 i686 The programs included with the Debian GNU/Linux system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/\*/copyright. Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law. Yoga31:~# nano /etc/network/interfaces \_



 Ketiga setelah masuk ke menu nano kita memulai mensetting IP dengan format "Auto eth0" atau bisa juga "allow – hotplug eth0" "Iface eth0 inet static "

- Address 192.168.31.31
- Netmask 255.255.255.0
- Network 192.168.31.0
- Broadcast 192.168.31.255

Agar lebih jelas bias dilihat gambar dibawah ini :



setelah mensetting seperti diatas lalu kita simpan dengan menekan "CTRL + O" lalu tekan "ENTER" setelah itu kita keluar settingan IP dengan menekan "CTRL+X" lalu "ENTER".

4. setelah itu restart networking restart dengan peritah "/etc/init.d/networking restart" lalu enter





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# 2.2. Pengujian Di Debian

 Untuk mengeceknya kita ketik "ifconfig" lalu enter maka akan kelihatan hasil configurasi kita.
 Seperti gambar dibawah ini :

	[ Wrote 14 lines ]
Yoga31:~# Reconfigu Yoga31:~# eth0	<pre>:/etc/init.d/networking restart ring network interfacesdone. : ifconfig Link encap:Ethernet HWaddr 00:0c:29:53:96:b8 inet addr:192.168.31.31 Bcast:192.168.31.255 Mask:255.255.255.0 UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:141 errors:0 dropped:0 overruns:0 frame:0 TX packets:0 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:15615 (15.2 KIB) TX bytes:0 (0.0 B) Interrupt:19 Base address:0x2000</pre>
10	Link encap:Local Loopback inet addr:127.0.0.1 Mask:255.0.0.0 UP LOOPBACK RUNNING MTU:16436 Metric:1 RX packets:24 errors:0 dropped:0 overruns:0 frame:0 TX packets:24 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:0 RX bytes:1616 (1.5 KiB) TX bytes:1616 (1.5 KiB)
Yoga31:~#	



# **3. DHCP Server**

#### 3.1 instalasi :

1. setelah masuk ke super user atau admin kita masukan cd instalasi Debian 5 lalu ketikan perintah instal sebagi berikut "apt-get install dhcp3-server"

lalu tunggu beberapa saat muncul kotak dialog "DHCP Server" lalu kita oke

Yoga31:~# apt-get install dhcp3-server	
2	
2 ckage configuration	
ckage configuration	
ckage configuration	
2 ckage configuration	
Ckage configuration DHCP Server	1
2 ckage configuration DHCP Server Non-authoritative version of DHCP server	
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Ckage configuration         DHCP Server         Non-authoritative version of DHCP server         The version 3 DHCP server is non-authoritative by default.         This means that if a client requests an address that the server knows nothing about and the address is incorrect for that network segment, the server will not send a DHCPNAK (which tells the client it should stop	
Ckage configuration         DHCP Server         Non-authoritative version of DHCP server         The version 3 DHCP server is non-authoritative by default.         This means that if a client requests an address that the server knows nothing about and the address is incorrect for that network segment, the server will _not_ send a DHCPNAK (which tells the client it should stop using the address). If you want to change this behavior, you must	
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A ckage configuration DHCP Server Non-authoritative version of DHCP server The version 3 DHCP server is non-authoritative by default. This means that if a client requests an address that the server knows nothing about and the address is incorrect for that network segment, the server willnot send a DHCPNAK (which tells the client it should stop using the address). If you want to change this behavior, you must explicitly state in dhcpd.conf what network segments your server is authoritative for using the 'authoritative' statement. CONS	
DHCP Server         Non-authoritative version of DHCP server         The version 3 DHCP server is non-authoritative by default.         This means that if a client reguests an address that the server knows nothing about and the address is incorrect for that network segment, the server will _not_ send a DHCPNAK (which tells the client it should stop using the address). If you want to change this behavior, you must explicitly state in dhcpd.conf what network segments your server is authoritative for using the 'authoritative' statement.	
A phere server DHCP Server Non-authoritative version of DHCP server The version 3 DHCP server is non-authoritative by default. This means that if a client requests an address that the server knows nothing about and the address is incorrect for that network segment, the server will_not_send a DHCPNAK (which tells the client it should stop using the address). If you want to change this behavior, you must explicitly state in dhcpd.conf what network segments your server is authoritative for using the 'authoritative' statement. ECINE	



#### 3.2. Konfigurasi

1.setelah itu kita setting dhcp agar kita yang menentukan dari jumlah host hingga IP masing-masing client dengan mengetikan perintah "nano /etc/dhcp/dhcpd.conf "

Seperti gambar dibawah ini :



#### 3.2.1 Range IP

1.setelah masuk ke menu setting cari "A slightly different" setelah itu hilangkan tanda "crash atau #" dari subnet hingga tanda }" setelah itu kita setting seperti ini :

# A slightly different configuration for an internal subnet. subnet 192.168.31.0 netmask 255.255.255.0{ range 192.168.31.32 192.168.31.40; option domain-name-servers 192.168.31.31; option domain-name "yoga.com"; option routers 192.168.31.31; option broadcast-address 192.168.1.255; default-lease-time 600; max-lease-time 7200; }

Seperti gambar di bawah ini :







setelah itu kita simpan dengan menetakan "CTRL+O" lalu lalu "enter" dan keluar dari menu settingan dengan menekan "CTRL+X" lalu "enter"



# 3.2.2. Default DHCP

1. setelah itu kita setting NIC kita sebagai server pemberi IP kepada client dengan mengetikan "nano /etc/default/dhcp3-server"



lalu cari tulisan INTERFACES="" kita beri ethO pada tanda petik di interfaces kita menggunakan ethO sebagai pemberi IP kepada client, seperti gambar dibawah ini :



setelah itu kita simpan dengan menetakan "CTRL+O" lalu lalu "enter" dan keluar dari menu settingan dengan menekan "CTRL+X" lalu "enter"



2. setelah itu kita kita restart aplikasi dengan mengetikan perintah "/etc/init.d/dhcp3-server restart"



#### 3.3. Pengujian

untuk pengujian buka local area network yang terhubung lalu details maka akan muncul pemberian IP seperti gambar dibawah ini :





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# 4. DNS Server

#### 4.1. Instalasi

1. Packet aplikasi untuk DNS adalah "bind9" dengan cara "apt-get install bind9"

Seperti gambar dibawah ini :





#### 4.2. Konfigurasi

 Setelah menginstal aplikasi bind kita masuk ke directory bind untuk melakukan konfigurasi dengan cara "cd /etc/bind/" setelah itu kita copy atau backup data yang ada di "db.local dan cp.127" sebagai file forward dan file reverse dengan cara : "cp db.local db.yoga31" "cp db.127 db.192"

Seperti gambar dibawah ini :

Masuk directory BIND ind9-doc resolvconf ufw following NEW packages will be installed: ind9 bind9utils pgraded, 2 newly installed, 0 to remove and 0 not upgraded. Need to get 0B/380kB of archives. After this operation, 1147kB of additional disk space will be used. Do you want to continue [Y/n]? y Do you want to continue [Y/n]? y Preconfiguring packages ... Selecting previously deselected package bind9utils. (Reading database ... 18732 files and directories currently installed.) Unpacking bind9utils (from .../bind9utils\_9.6.ESV.R1+dfsg-0+lenny2\_i386.deb) ... Selecting previously deselected package bind9. Unpacking bind9 (from .../bind9\_9.6.ESU.R1+dfsg-0+lenny2\_i386.deb) ... Processing triggers for man-db ... Setting up bind9utils (1:9.6.ESU.R1+dfsg-0+lenny2) ... Setting up bind9 (1:9.6.ESU.R1+dfsg-0+lenny2) ... Adding group `bind` (GID 106) ... Done. Done. Adding system user `bind' (UID 103) ... Adding new user `bind' (UID 103) with group `bind' ... Not creating home directory `/var/cache/bind'. wrote key file "/etc/bind/rndc.key" . Starting domain name service...: bind9. Yoga31:~# cd /etc/bind\_ d to get 0B/380kB of archives. er this operation, 1147kB of additional disk space will be used. you want to continue [Y/n]? y you want to continue [Y/n]? y configuring packages ... Selecting previously deselected package bind9utils. (Reading database ... 18732 files and directories currently installed.) Unpacking bind9utils (from .../bind9utils\_9.6.ESV.R1+dfsg-0+lenny2\_i386.deb) ... Selecting previously deselected package bind9. Unpacking bind9 (from .../bind9\_9.6.ESV.R1+dfsg-0+lenny2\_i386.deb) ... Processing triggers for man-db ... Setting up bind9utils (1:9.6.ESV.R1+dfsg-0+lenny2) ... Setting up bind9utils (1:9.6.ESV.R1+dfsg-0+lenny2) ... Adding group `bind' (GID 106) ... Done. Done. Adding system user `bind' (UID 103) ... Adding new user `bind' (UID 103) with group `bind' ... Not creating home directory `/var/cache/bind'. wrote key file "/etc/bind/rndc.key" Starting domain name service...: bind9. Yoga31:~# cd\_/etc/bind Yoga31:/etc/bind# ls db.0 db.255 db.local named.conf db.127 db.empty db.root named.conf named.conf.options zones.rfc1918 named.conf.local rndc.key Yoga31:/etc/bind# \_



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Seperti gambar dibawah ini :

fungsi di backup agar saat menkonfigurasi apabila terjadi kesalahan kita bisa mengambilnya kembali.

#### 4.2.1. File Forward

1. Setelah melakukan backup kita setting pertama di db.yoga31 sebagai file forward dengan cara "nano db.yoga"

Ganti semua "locahost menjadi nama web site kita nanti" dan "tambahkan 2 settingan di

"@	IN	А	yoga31.com
"www	IN	А	yoga31.com'
"ftp	IN	А	yoga31.com'
Lalu kit	a cimn		

Lalu kita simpan



Seperti gambar dibawah ini :

you want to continue [Y/n]? y
configuring packages
ecting previously deselected package bind9utils
ading database 18732 files and directories currently installed )
- acting autobase in the second and an even of the second
acting manipully decelected machage kindq
Scretching previousity descretced package binds.
Unpacking binas (irum/binas_s.b.bsv.hi+aisg-o+iennya_isob.aeb)
Processing triggers for mail-ab
Setting up bindoutlis (1:9.6.ESO.R1+disg-0+lenny2)
Setting up bind9 (1:9.6.ESU.R1+dfsg-0+lenny2)
Adding group bind (GID 106)
Done.
Adding system user bind' (UID 103)
Adding new user `bind' (UID 103) with group `bind'
Not creating home directory `/var/cache/bind'.
wrote key file "/etc/bind/rndc.key"
#
Starting domain name service: bind9.
Yoga31: <sup>~</sup> # cd /etc/bind
Yoga31:/etc/bind# ls
db.0 db.255 db.local named.conf named.conf.options zones.rfc1918
db.127 db.emptu db.root named.conf.local rndc.keu
Yoga31:/etc/bind# cn db.local db.uoga31
Youal: etc/hind# cn db 127 db 192
Yoga 31: /etc/bind# pano db uoga 31
iogabili cubi bilan nano abigogabi_

		7	
	NU HAHU 2.0.	ſ	
	IND data fil	e for lo	cal loopback interface
	7 (04000		
- 511 A	L 604800	204	less likest most less likest (
U	111	SOH	localnost. Poot.localnost. (
			64999 ) · · · · · · · · · · · · · · · · ·
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, o	TN	NC	loss losst
		6113	
		н ^^^^	
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			[ Read 14 lines ]
^G	Get Heln 🎬	1 WriteOu	: IR Read File MY Prey Page IN Cut Text IR Cur Pos
^~x	Exit 1	Justifu	W Where Is W Next Page III UnCut Text II To Shell
			mare re mant rage 2 choat love 1 to oper



	nano 2.0 data fi	.7 le for I	File: db.yoga31 ocal loopback interface	Modified
<b>\$TTL</b>	604800			
e	IN	SOA	yoga31.com. root.yoga31.com. ( 2 ; Serial 604800 ; Refresh 86400 ; Retry 2419200 ; Expire 604800 ) ; Negative Cache TTL	
;			obioso / / / / / / / / / / / /	
e	IN	NS	yoga31.com.	
աաա	IN	A	192.168.31.31	
ftp	IN	A	192.168.31.31	
e	IN	Ĥ	192.168.31.31_	
0	IN	AAAA	::1	
^G Get ^X E×i	Help î t î	0 Write( J Justif	ut <sup>^</sup> R Read File <sup>^</sup> Y Prev Page <sup>^</sup> K Cut Text y <sup>^</sup> W Where Is <sup>^</sup> U Next Page <sup>^</sup> U UnCut Te	<sup>^</sup> C Cur Pos xt <sup>^</sup> T To Spell



## 4.2.2. File Reverse

1. Setelah melakukan settingan tersebut kita setting juga di db.192 sebagai file reverse dengan cara "nano db.192"

Sama seperti sebulumnya ganti semua localhost menjadi nama website kita dan kita rubah IP di bawah menjadi IP kiata tapi dari belakang. Agar lebih jelas bisa dilihat gambar dibawah ini :

_	NU nano 2	2.0.7	File: db.yoga31	
	IND data	file for l	ocal loopback interface	
	1 6040	000		
6	L 0040 IN	SUU	1  com root upgall com (	
		0011	2 Serial	
			604800 ; Refresh	
			86400 ; Retry	
			2419200 ; Expire	
			604800 ) ; Negative Cache TTL	
e	IN	NS	yoga31.com.	
ատա	IN IN	Ĥ	192.168.31.31	
ftp	IN	A	192.168.31.31	
Q	IN	A	192.168.31.31	
e	IN	AAAA	::1	
			[ Wrote 16 lines ]	
You	a31:/etc/	bind# nanc	db. 192	
3				

2		nano 2.6	1.7	File: db.192
		reverse	aata fi	le for local loopback interface
\$T	TL	604800	1	
ē.		IN	SOA	localhost. root.localhost. ( 1 ; Serial 604800 ; Refresh 86400 ; Retry 2419200 ; Expire 604800 ) ; Negative Cache TTL
;		TN	NS	localhost
1	a a	111 T N	PTR	localhost
^G ^X	Get Exit	Help t	0 Write0 <mark>J</mark> Justif	<mark>[ Read 13 lines ]</mark> Dut <sup>^*</sup> R Read File <sup>^*</sup> Y Prev Page <sup>*</sup> K Cut Text <sup>*</sup> C Cur Pos <sup>*</sup> y <sup>*</sup> W Where Is <sup>*</sup> U Next Page <sup>*</sup> U UnCut Text <sup>*</sup> T To Spell



	NU nano 2.0	.7 File: db.192	
	IND reverse	data file for local loopback interface	
4) () ()	97TL 604800 9 IN	SDA         yoga31.com. root.yoga31.com. (           1         : Serial           604800         : Refresh           86400         : Retry           2419200         : Expire           604800         : Negative Cache TTL	
;	) IN }1.31.168 <u>I</u> N	NS yoga31.com. PTR yoga31.com.	
~	G Get Help ^( X Exit ^(	[ Wrote 13 lines ] O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos J Justify ^W Where Is ^U Next Page ^U UnCut Text^T To Spell	

# 4.2.3. Membuat Zone Domain

Setelah itu kita memulai settingan kembali dengan mengetikan "nano named.comf" setelah itu kita tambahkan 2 zone di bawa/di zone paling terakhir seperti dibawah ini zone "yoga.com" {
 type master;
 file "/etc/bind/db.yoga31"
 };
 zone "192.in-addr.arpa" {
 type master;
 file "/etc/bind/db.192"



};

Lalu kita simpan Agar lebih jelas bisa dilihat di gambar di bawah ini :

/ I nano 2.	0.7	File: db.192						
, prilD revers	e data file for	r local loopback interface						
; \$TTL 60480	0							
0 IN	SOA yoga	a31.com. root.yoga31.com. (						
	604	4800 ; Refresh						
	2419	6400 ; Retry 9200 : Expine						
	604	4800 ) ; Negative Cache TTL						
; 0 IN	NS uorra	a31.com.						
31.31.168IN	PTR yoga	a31.com.						
		[ Wrote 13 lines ]						
Yoga31:/etc/b	ind# nano named	d.conf						
2 GNU nano	2.0.7	File: named.conf Mod	ified					
GNU nano	2.0.7 the primary con	File: named.conf Mod Infiguration file for the BIND DNS server named.	ified					
2 GNU nano	2.0.7 the primary con	File: named.conf Mod Infiguration file for the BIND DNS server named.	if ied he					
2 GNU name // This is // // Please // structu	2.0.7 the primary con read /usr/share/ re of BIND confi	File: named.conf Mod onfiguration file for the BIND DNS server named. c/doc/bind9/README.Debian.gz for information on t iguration files in Debian, *BEFORE* you customiz	ified he e					
2 GNU nano / This is // Please // structu // this co	2.0.7 the primary con read /usr/share/ re of BIND confi nfiguration file	File: named.conf Mod onfiguration file for the BIND DNS server named. e/doc/bind9/README.Debian.gz for information on t iguration files in Debian, *BEFORE* you customiz e.	ified he e					
2 GNU nano 7 This is 7 Please 7 structur 7 His co 7 If you	2.0.7 the primary con read /usr/share/ re of BIND confi nfiguration file are just adding	File: named.conf Mod onfiguration file for the BIND DNS server named. c/doc/bind9/README.Debian.gz for information on t figuration files in Debian, *BEFORE* you customiz e. zones, please do that in /etc/bind/named.conf.l	ified he e ocal					
2 GNU nano 7 This is 7 Please 7 structur 7 His co 7 If you 1 include "7	2.0.7 the primary con read /usr/share/ re of BIND confi nfiguration file are just adding etc/bind/named.c	File: named.conf Mod onfiguration file for the BIND DNS server named. <pre>c/doc/bind9/README.Debian.gz for information on t iguration files in Debian, *BEFORE* you customiz e. g zones, please do that in /etc/bind/named.conf.l conf.options";</pre>	ified he e ocal					
2 GNU nano 7 This is 7 Please 7 structur 7 this co 7 If you 1 include "7 7 prime t	2.8.7 the primary con read /usr/share/ re of BIND confi nfiguration file are just adding etc/bind/named.co he server with J	File: named.conf Mod onfiguration file for the BIND DNS server named. e/doc/bind9/README.Debian.gz for information on t iguration files in Debian, *BEFORE* you customiz e. g zones, please do that in /etc/bind/named.conf.l conf.options"; knowledge of the root servers	ified he e ocal					
2 GNU nano 7 This is 7 Please 7 structur 7 this co 7 If you 1 include "7 7 prime tr 7 cone "." 6	2.0.7 the primary con read /usr/share/ re of BIND confi nfiguration file are just adding etc/bind/named.co he server with P	File: named.conf Mod anfiguration file for the BIND DNS server named. <pre>e/doc/bind9/README.Debian.gz for information on t iguration files in Debian, *BEFORE* you customiz e. g zones, please do that in /etc/bind/named.conf.l conf.options"; knowledge of the root servers</pre>	ified he e ocal					
2 GNU nano 7 This is 7 Please 7 structur 7 this co 7 If you 1 include "/ 7 prime tr 2 cone "." 6 1 ty 1 ty 1 ty	2.0.7 the primary con read /usr/share/ re of BIND confi nfiguration file are just adding etc/bind/named.c he server with b pe hint; le "/etc/bind/dl	File: named.conf Mod onfiguration file for the BIND DNS server named. <pre>c/doc/bind9/README.Debian.gz for information on t iguration files in Debian, *BEFORE* you customiz e. zones, please do that in /etc/bind/named.conf.l conf.options"; knowledge of the root servers (b.root";</pre>	ified he e ocal					
2 GNU nano 7 This is 7 Please 7 structur 7 this co 7 If you 1 include "7 7 prime tr 2 cone "." { 1 ty 1 ty 1 ty 1 ty 1 ty	2.8.7 the primary con read /usr/share/ re of BIND confi nfiguration file are just adding etc/bind/named.c he server with } pe hint; le "/etc/bind/dl	File: named.conf Mod onfiguration file for the BIND DNS server named. <pre>e/doc/bind9/README.Debian.gz for information on t iguration files in Debian, *BEFORE* you customiz e. g zones, please do that in /etc/bind/named.conf.l conf.options"; knowledge of the root servers (b.root";</pre>	ified he e ocal					
2 GNU nano 7 This is 7 Please 7 structur 7 this co 7 If you include "/ 7 prime tr 2 cone "." { 5 ty 1 }; 7 be auth 7 broadca	2.8.7 the primary con read /usr/share/ re of BIND confi nfiguration file are just adding etc/bind/named.c he server with } pe hint; le "/etc/bind/dl oritative for t}	File: named.conf       Mod         onfiguration file for the BIND DNS server named.       e/doc/bind9/README.Debian.gz for information on t         e/doc/bind9/README.Debian.gz for information on t       iguration files in Debian, *BEFORE* you customiz         e.       cones, please do that in /etc/bind/named.conf.l         conf.options";       knowledge of the root servers         (b.root";       the localhost forward and reverse zones, and for	ified he e ocal					
2 GNU nano 7 This is 7 Please 7 structur 7 this co 7 If you include "/ 7 prime tr 7 ty 1; 7 be auth 7 broadca	2.8.7 the primary con read /usr/share/ re of BIND confi nfiguration file are just adding etc/bind/named.c he server with } pe hint; le "/etc/bind/dl oritative for t} st zones as per	File: named.conf Mod onfiguration file for the BIND DNS server named. <pre>c/doc/bind9/README.Debian.gz for information on t iguration files in Debian, *BEFORE* you customiz e. <pre>c zones, please do that in /etc/bind/named.conf.l conf.options"; knowledge of the root servers </pre> <pre>che localhost forward and reverse zones, and for RFC 1912</pre></pre>	ified he e ocal					
2 GNU nano 7 This is 7 Please 7 structur 7 this co 7 If you include "7 7 prime tr 2 cone "." { 1 ty 1 ty	2.8.7 the primary con read /usr/share/ re of BIND confi nfiguration file are just adding etc/bind/named.c he server with } pe hint; le "/etc/bind/dl oritative for t} st zones as per lhost" {	File: named.conf Mod onfiguration file for the BIND DNS server named. <pre>c/doc/bind9/README.Debian.gz for information on t iguration files in Debian, *BEFORE* you customiz e. g zones, please do that in /etc/bind/named.conf.l conf.options"; knowledge of the root servers (b.root"; che localhost forward and reverse zones, and for RFC 1912</pre>	ified he e ocal					
2 GNU name 7 This is 7 Please 7 structur 7 this co 7 include "7 7 If you 1 include "7 7 prime tr 2 cone "." { 1 ty 1 ty	2.8.7 the primary con read /usr/share/ re of BIND confi nfiguration file are just adding etc/bind/named.c he server with } pe hint; le "/etc/bind/dl oritative for t} st zones as per lhost" { p iD WriteOut j Justify	File: named.conf       Mod         onfiguration file for the BIND DNS server named.       c/doc/bind9/README.Debian.gz for information on t         c/doc/bind9/README.Debian.gz for information on t       iguration files in Debian, *BEFORE* you customize.         c/doc/bind9/README.Debian.gz for information on t       iguration files in Debian, *BEFORE* you customize.         c/doc/bind9/README.Debian.gz for information on t       iguration files in Debian, *BEFORE* you customize.         c/doc/bind9/README.Debian.gz for information on t       iguration files in Debian, *BEFORE* you customize.         c/doc/bind9/README.Debian.gz for information on t       iguration files in Debian, *BEFORE* you customize.         c/doc/bind9/README.Debian.gz for information on t       iguration files in Debian, *BEFORE* you customize.         c/doc/bind9/README.Debian.gz for information on t       iguration files in Debian, *BEFORE* you customize.         conf.options";       knowledge of the root servers         ch.root";       he localhost forward and reverse zones, and for         c/doc/lpi12       Read File Y Prev Page X Cut Text C Cur P         www.ere Is       Y Next Page Y U UnCut Text T To Sp	ified he e ocal ocal					



GNU	nano 2.0	.7	File:	named.conf			Mo	dified
	type ma file ",	nster; ∕etc∕bind∕db.@	";					
};								
zone '	255.in-ad type ma file "/	ldr.arpa" { ster; ~etc/bind/db.2	:55";					
};								
zone '	'yoga31.co type ma file "/	om" {	oga31";					
};		_						
zone '	'192.in-ad type ma file "/	ldr.arpa" { ster; etc/bind/db.1	92";					
};								
includ	le "/etc/l	oind/named.com	f.local"					
^G Get ^X Exi	tHelp ( it ,	) WriteOut 🏻 🔭 Justify 🍾	Read Fi Where I	le <mark>^Y</mark> Prev s <mark>^V</mark> Next	Page <sup>^</sup> K Page <sup>^</sup> U	Cut Text UnCut Tex	<mark>^C</mark> Cur ct <sup>^</sup> T To S	Pos pell

#### 4.2.4. Menambah dns-name server

 Setelah itu kita kembali setting di "nano /etc/resolv.conf" setelah itu kita tambah kan "name server 192.168.1.31" "domain yoga.com" Setelah itu kita simpan

Agar Lebih jelas kita lihat gambar dibawah ini :









2. Setelah settingan itu kita restart dengan cara "/etc/init.d/bind9 restart"

ameserver 192.168.31.31
pmain uoga31.com
[ Wrote 2 lines ]
bga31:/etc/bind# /etc/init.d/bind9 restart_

# 4.3. Pengujian

#### 4.3.1 Debian :

Langkah nya dengan cara dig yoga31.com apabila semua "1" maka berhasil agar lebih jelas bisa dilihat seperti gambar dibawah ini :



; <<>> DiG 9.6-ESV-R1 <<>> yoga31.com ;; global options: +cmd ;; Got answer: ;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 51858 ;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1						
;; QUESTION SECTION: ;yoga31.com.		IN	A			
;; ANSWER SECTION: yoga31.com.	604800	IN	Â	192.168.31.31		
;; AUTHORITY SECTION: yoga31.com.	604800	IN	NS	yoga31.com.		
;; ADDITIONAL SECTION: yoga31.com.	604800	IN	AAAA	::1		
;; Query time: 3 msec ;; SERVER: 192.168.31.31#53(192.168.31.31) ;; WHEN: Sun Nov 4 00:46:46 2012 ;; MSG SIZE rovd: 86						
Yoga31:/etc/bind# _						

# **4.3.2. Windows :**

Dilakukan dengan cara melakukan ping yoga31.com seperti gambar dibawah ini :





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# 5. Web Server

#### 5.1. Instalasi

1. Setelah masuk ke super user atau admin kita masukan cd instalasi Debian 5 lalu ketikan perintah instal sebagi berikut "apt-get install apache2 php5"

lalu tunggu hingga proses instalasi selesai , seperti gambar dibawah ini ;

Yoga31:/# apt-get install apache2 php5_
Yoga31:/# apt-get install apache2 php5
Reading package lists Done Building dependency tree
Reading state information Done
The following extra packages will be installed:
apachez-mpm-prefork apachez-utils apachez.z-common libapachez-moa-phps libapr1 libaprutil1 libexpat1 libmysglclient15off libpg5 mysgl-common
openssl openssl-blacklist php5-common psmisc ssl-cert
Suggested packages: anache2-doc anache2-suexec anache2-suexec-custom nhn-near ca-certificates
The following NEW packages will be installed:
apache2 apache2-mpm-prefork apache2-utils apache2.2-common Libanache2-mod-php5 libanr1 libanrutil1 libernat1 libmusglclient15off libng5

libapache2-mod-php5 libapr1 libaprutil1 libexpat1 libmysqlclient15off libp
mysql-common openssl openssl-blacklist php5 php5-common psmisc ssl-cert
0 upgraded, 17 newly installed, 0 to remove and 0 not upgraded.
Need to get 0B/14.2MB of archives.
After this operation, 32.3MB of additional disk space will be used.
Do you want to continue [Y/n]?



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# 5.2. Konfigurasi

- 1. Setelah itu, sebelum kita memlai mensetting kita masuk terlebih dahulu ke directory "apache" dengan cara "cd /etc/apache" kemudian untuk melihat isi nya kita ketikan "ls"
- 2. Setelah itu kita masuk ke directory "sites-available" dengan mengetikan "cd sites-available" kemudian "ls"
- Setelah masuk ke directory "sites-available" kita menemukan 2 buah File yaitu file "default" dan "default-ssh". Karena kita akan membuat web server berbasis HTTP maka kita akan mensetting file "default" namun sebelum itu kita memulai nya kita backup terlebih dahulu file tersebut dengan mengetikan "cp default yoga31" lalu enter, seperti gambar dibawah ini :

```
Enabling module negotiation.
Enabling module setenvif.
Enabling module status.
Enabling module auth_basic.
Enabling module auth_basic.
Enabling module authz_default.
Enabling module authz_groupfile.
Enabling module authz_groupfile.
Enabling module authz_host.
Setting up apache2-mpm-prefork (2.2.9-10+lenny8) ...
Starting web server: apache2apache2: Could not reliably determine the server's f
ully qualified domain name, using 192.168.31.31 for ServerName
.
Setting up apache2 (2.2.9-10+lenny8) ...
Setting up php5-common (5.2.6.dfsg.1-1+lenny9) ...
Setting up libapache2-mod-php5 (5.2.6.dfsg.1-1+lenny9) ...
Creating config file /etc/php5/apache2/php.ini with new version
Reloading web server config: apache2apache2: Could not reliably determine the server's f
ully qualified domain name, using 192.168.31.31 for ServerName
.
.
Setting up libapache2-mod-php5 (5.2.6.dfsg.1-1+lenny9) ...
Setting up libapache2-mod-php5 (5.2.6.dfsg.1-1+lenny9) ...
Creating config file /etc/php5/apache2/php.ini with new version
Reloading web server config: apache2apache2: Could not reliably determine the se
rver's fully qualified domain name, using 192.168.31.31 for ServerName
.
.
Setting up php5 (5.2.6.dfsg.1-1+lenny9) ...
Setting up ssl-cert (1.0.23) ...
Yoga31:/# cd /etc/apache2/_
```



Enabling module deflate. Enabling module authz\_default. Enabling module authz\_user. Enabling module authz\_groupfile. Enabling module authn\_file. Enabling module authz\_host. Satting up apache2-mpm-prefork (2.2.9-10+lenny8) ... Starting web server: apache2apache2: Could not reliably determine the server's f ully qualified domain name, using 192.168.31.31 for ServerName Setting up apache2 (2.2.9-10+lenny8) ... Setting up php5-common (5.2.6.dfsg.1-1+lenny9) ... Setting up libapache2-mod-php5 (5.2.6.dfsg.1-1+lenny9) ... Creating config file /etc/php5/apache2/php.ini with new version Reloading web server config: apache2apache2: Could not reliably determine the se rver's fully qualified domain name, using 192.168.31.31 for ServerName Setting up php5 (5.2.6.dfsg.1-1+lenny9) ... Setting up ssl-cert (1.0.23) ... Yoga31:/# cd /etc/apache2/ Yoga31:/etc/apache2# ls apache2.conf mods-available ports.conf sites-enabled envvars conf.d httpd.conf mods-enabled sites-available Yoga31:/etc/apache2# \_

Enabling module deflate. Enabling module authz\_default. Enabling module authz\_user. Enabling module authz\_groupfile. Enabling module authn\_file. Enabling module authz\_host. Setting up apache2-mpm-prefork (2.2.9-10+lenny8) ... Starting web server: apache2apache2: Could not reliably determine the server's f ully qualified domain name, using 192.168.31.31 for ServerName Setting up apache2 (2.2.9-10+lenny8) ... Setting up php5-common (5.2.6.dfsg.1-1+lenny9) ... Setting up libapache2-mod-php5 (5.2.6.dfsg.1-1+lenny9) ... Creating config file /etc/php5/apache2/php.ini with new version Reloading web server config: apache2apache2: Could not reliably determine the se rver's fully qualified domain name, using 192.168.31.31 for ServerName Setting up php5 (5.2.6.dfsg.1-1+lenny9) ... Setting up ssl-cert (1.0.23) ... Yoga31:/# cd /etc/apache2/ Yoga31:/etc/apache2# ls apache2.conf envvars mods-available ports.conf sites-enabled httpd.conf mods-enabled sites-available conf.d Yoga31:/etc/apache2# cd sites-available/\_



Enabling module authz\_groupfile. Enabling module authn\_file. Enabling module authz\_host. Setting up apache2-mpm-prefork (2.2.9-10+lenny8) ... Starting web server: apache2apache2: Could not reliably determine the server's f ully qualified domain name, using 192.168.31.31 for ServerName Setting up apache2 (2.2.9-10+lenny8) ... Setting up php5-common (5.2.6.dfsg.1-1+lenny9) ... Setting up libapache2-mod-php5 (5.2.6.dfsg.1-1+lenny9) ... Creating config file /etc/php5/apache2/php.ini with new version Reloading web server config: apache2apache2: Could not reliably determine the se rver's fully qualified domain name, using 192.168.31.31 for ServerName Setting up php5 (5.2.6.dfsg.1-1+lenny9) ... Setting up ssl-cert (1.0.23) ... Yoga31:/# cd /etc/apache2/ Yoga31:/etc/apache2# ls apache2.conf envvars mods-available ports.conf sites-enabled httpd.conf mods-enabled conf.d sites-available Yoga31:/etc/apache2# cd sites-available/ Yoga31:/etc/apache2/sites-available# ls default default-ssl Yoga31:/etc/apache2/sites-available# \_

Enabling module authz\_groupfile. Enabling module authn\_file. Enabling module authz\_host. Setting up apache2-mpm-prefork (2.2.9-10+lenny8) ... Starting web server: apache2apache2: Could not reliably determine the server's f ully qualified domain name, using 192.168.31.31 for ServerName . Setting up apache2 (2.2.9-10+lenny8) ... Setting up php5-common (5.2.6.dfsg.1-1+lenny9) ... Setting up libapache2-mod-php5 (5.2.6.dfsg.1-1+lenny9) ... Creating config file /etc/php5/apache2/php.ini with new version Reloading web server config: apache2apache2: Could not reliably determine the se rver's fully qualified domain name, using 192.168.31.31 for ServerName Setting up php5 (5.2.6.dfsg.1-1+lenny9) ... Setting up ssl-cert (1.0.23) ... Yoga31:/# cd /etc/apache2/ Yoga31:/etc/apache2# ls apache2.conf envvars sites-enabled mods-available ports.conf httpd.conf mods-enabled sites-available conf.d Yoga31:/etc/apache2# cd sites-available/ Yoga31:/etc/apache2/sites-available# ls default default-ssl Yoga31:/etc/apache2/sites-available# cp default yoga31\_



#### 5.2.1. Konfigurasi Virtual Host

setelah itu kita memulai untuk mensetting virtual host nya dengan cara mengetikan "nano yoga31" ganti sesuai dengan ketentuan web yang kita inginkan seperti contoh dibawah ini :

A. "server admin webmaster@local host" kita rubah menjadi "server admin admin@yoga31.com"

B. "Document root /var/www" kita rubah menjadi "Document root /var/www/yoga31"

C. "<Directory "usr/lib/cgi-bin"> kita rubah menjadi "<Directory "var/www/cgi-bin">

setelah itu kita simpan dengan menetakan "CTRL+O" lalu lalu "enter" dan keluar dari menu settingan dengan menekan "CTRL+X" lalu "enter", seperti gambar dibawah ini;

```
Enabling module authn_file.
Enabling module authz_host.
Setting up apache2-mpm-prefork (2.2.9-10+lenny8) ...
Starting web server: apache2apache2: Could not reliably determine the server's f
ully qualified domain name, using 192.168.31.31 for ServerName
Setting up apache2 (2.2.9-10+lenny8) ...
Setting up php5-common (5.2.6.dfsg.1-1+lenny9) ...
Setting up libapache2-mod-php5 (5.2.6.dfsg.1-1+lenny9) ...
Creating config file /etc/php5/apache2/php.ini with new version
Reloading web server config: apache2apache2: Could not reliably determine the se
rver's fully qualified domain name, using 192.168.31.31 for ServerName
Setting up php5 (5.2.6.dfsg.1-1+lenny9) ...
Setting up ssl-cert (1.0.23) ...
Yoga31:/# cd /etc/apache2/
Yoga31:/etc/apache2# ls
apache2.conf envvars
                                 mods-available ports.conf
                                                                            sites-enabled
                  httpd.conf mods-enabled
conf.d
                                                      sites-available
Yoga31:/etc/apache2# cd sites-available/
Yoga31:/etc/apache2/sites-available# ls
default default-ssl
Yoga31:/etc/apache2/sites-available# cp default yoga31
Yoga31:/etc/apache2/sites-available# nano yoga31
```



GNU nano 2.0.7	File: yoga31
<u>≺</u> VirtualHost *:80>	
	aster@localhost
DocumentRoot 🗸 🗸	r/www/
<directory></directory>	
Options	FollowSymLinks
AllowOve:	rride None
<directory <="" td="" var=""><th>www/&gt;</th></directory>	www/>
Options	Indexes FollowSymLinks MultiViews
AllowOve:	rride None
Order al	low, deny
allow fr	om all
ScriptAlias ∠cgi	-bin/ /usr/lib/cgi-bin/
<directory "="" td="" usr<=""><th>/lib/cgi-bin"&gt;</th></directory>	/lib/cgi-bin">
AllowOve	rride None
Options	+ExecCGI -MultiViews +SymLinksIfOwnerMatch
Order al	low, deny
	[ Read 41 lines ]
🔭 Get Help 🔭 WriteOut	<b>^R</b> Read File <b>^Y</b> Prev Page <b>^K</b> Cut Text <b>^C</b> Cur Pos
<sup>^</sup> X Exit <sup>^</sup> J Justify	<sup>^</sup> ₩ Where Is <sup>^</sup> U Next Page <sup>^</sup> U UnCut Text <sup>^</sup> T To Spell





#### 5.2.2. Konfigurasi Web Directory

- 1. Setelah konfigurasi virtual host kita kembali masuk ke directory "apache" dan Masuk ke directory "sitesenabled" dengan cara
  - A. kembali ke directory "apache" ketik cd ...
  - B. masuk ke directory "sites-enabled" ketik cd sites-enabled
- 2. Setelah masuk ke directory tersebut kita enable kan situs kita dan kita dissable situs default dengan cara
  - A. Men-dissable situs default ketik perintah "a2dissite default" lalu enter
  - B. Men-enable kan situs kita ketik perintah "a2enssite yoga31"
- Setelah itu kita keluar dari directory dan membuat directory baru sebagai tempat "index.html" dan "info.php" kita nanti yang nantinya akan menjadi web kita. Dengan cara :
  - A. keluar dari directory kitik "cd /" lalu enter
  - B. Membuat directory baru ketik perintah "mkdir -p /var/www/yoga31" lalu enter
  - C. Membuat directory baru ketik perintah "mkdir -p /var/www/cgi-bin" lalu enter

Seperti gambar dibawah ini :





<virtualhost *:80=""></virtualhost>
ServerAdmin admin@yoga31.com
DocumentRoot /var/www/yoga31 <directory></directory> Options FollowSymLinks AllowOverride None 
<directory var="" www="" yoga31=""> Options Indexes FollowSymLinks MultiViews AllowOverride None Order allow,deny allow from all</directory>
ScriptAlias /cgi-bin/ /usr/lib/cgi-bin/ <directory "="" cgi-bin"="" var="" www=""> AllowOverride None Options +ExecCGI -MultiViews +SymLinksIfOwnerMatch Order allow,deny [ Wrote 41 lines ]</directory>
Yoga31:/etc/apache2/sites-available# cd

DocumentRoot /var/www/yoga31 <Directory /> Options FollowSymLinks AllowOverride None </Directory> <Directory /var/www/yoga31> Options Indexes FollowSymLinks MultiViews AllowOverride None Order allow,deny allow from all </Directory> ScriptAlias /cgi-bin/ /usr/lib/cgi-bin/ <Directory "/var/www/cgi-bin"> AllowOverride None Options +ExecCGI -MultiViews +SymLinksIfOwnerMatch Order allow,deny [ Wrote 41 lines ]

Yoga31:/etc/apache2/sites-available# cd .. Yoga31:/etc/apache2# cd sites-enabled/ Yoga31:/etc/apache2/sites-enabled# a2dis a2dismod a2dissite Yoga31:/etc/apache2/sites-enabled# a2dissite default\_



Options FollowSymLinks AllowOverride None </Directory> <Directory /var/www/yoga31> Options Indexes FollowSymLinks MultiViews AllowOverride None Order allow,deny allow from all </Directory> ScriptAlias /cgi-bin/ /usr/lib/cgi-bin/ <Directory "/var/www/cgi-bin"> AllowOverride None Options +ExecCGI -MultiViews +SymLinksIfOwnerMatch Order allow, deny [ Wrote 41 lines ] Yoga31:/etc/apache2/sites-available# cd ... Yoga31:/etc/apache2# cd sites-enabled/ Yoga31:/etc/apache2/sites-enabled# a2dis a2dismod a2dissite Yoga31:/etc/apache2/sites-enabled# a2dissite default Site default disabled. Run '/etc/init.d/apache2 reload' to activate new configuration! Yoga31:/etc/apache2/sites-enabled# a2ensite yoga31\_

Yoga31:/etc/apache2/sites-available# cd .. Yoga31:/etc/apache2# cd sites-enabled/ Yoga31:/etc/apache2/sites-enabled# a2dis a2dismod a2dissite Yoga31:/etc/apache2/sites-enabled# a2dissite default Site default disabled. Run '/etc/init.d/apache2 reload' to activate new configuration! Yoga31:/etc/apache2/sites-enabled# a2ensite yoga31 Enabling site yoga31. Run '/etc/init.d/apache2 reload' to activate new configuration! Yoga31:/etc/apache2/sites-enabled# a2ensite yoga31 Enabling site yoga31.



A Di a <th>llowOverride None rder allow,deny llow from all ry&gt;</th> <th></th>	llowOverride None rder allow,deny llow from all ry>	
ScriptAlia <directory A Oj Oj</directory 	as /cgi-bin/ /usr/lib/cgi-bi y "/var/www/cgi-bin"> llowOverride None ptions +ExecCGI -MultiViews rder allow,deny [ Wrote 41 lin	in/ +SymLinksIfOwnerMatch nes ]
Yoga31:/etc/apacha Yoga31:/etc/apacha a2dismod a2diss Yoga31:/etc/apacha Site default disal Run '/etc/init.d/a Yoga31:/etc/apacha Enabling site yoga Run '/etc/init.d/a Yoga31:/etc/apacha Yoga31:/etc/apacha Yoga31:/etc/apacha	e2/sites-available# cd e2# cd sites-enabled/ e2/sites-enabled# a2dis ite e2/sites-enabled# a2dissite bled. apache2 reload' to activate e2/sites-enabled# a2ensite y a31. apache2 reload' to activate e2/sites-enabled# cd / p /var/www/ygga31 n /var/www/gga31	default new configuration! joga31 new configuration!

# 5.2.3. Konfigurasi Index.html Dan Info.php

1. Setelah settingan tadi kita memulai untuk membuat isi dari web kita nanti yaitu "index.html" dan "info.php" dengan cara :

```
A. Membuat "index.html" ketik perintah "nano /var/www/yoga31/index.html" lalu enter,
setelah masuk isi sesuai keinginan kita disini saya menggunakan format sebagi berikut :
"Welcome To My Site"
"Yoga Pratama"
"XI TKJ 3"
"31"
```

setelah itu kita simpan dengan menetakan "CTRL+O" lalu lalu "enter" dan keluar dari menu settingan dengan menekan "CTRL+X" lalu "enter"

B. Membuat "info.php" ketik perintah "nano /var/www/info.php" lalu enter, setelah masuk isikan format seperti berikut"
?
phpinfo();
?>


setelah itu kita simpan dengan menetakan "CTRL+O" lalu lalu "enter" dan keluar dari menu settingan dengan menekan "CTRL+X" lalu "enter"

Agar lebih jelas seperti gambar dibawah ini :

Order allow  ScriptAlias // <directory "="" <br="">Allow( Option Order</directory>	allow,deny from all cgi-bin/ /usr/lib/cgi-bin/ var/www/cgi-bin"> Dverride None ns +ExecCGI -MultiViews +SymLinksIf allow,deny [ Wrote 41 lines ]	°OwnerMatch
Yoga31:/etc/apache2/s Yoga31:/etc/apache2# a2dismod a2dissite Yoga31:/etc/apache2/s Site default disabled Run '/etc/init.d/apach Yoga31:/etc/apache2/s Enabling site yoga31. Run '/etc/init.d/apach Yoga31:/etc/apache2/s Yoga31:/# mkdir -p /va Yoga31:/# mkdir -p /va Yoga31:/# mano /var/wa	ites-available# cd cd sites-enabled/ ites-enabled# a2dis ites-enabled# a2dissite default he2 reload' to activate new configu ites-enabled# a2ensite yoga31 he2 reload' to activate new configu ites-enabled# cd / ar/www/yoga31 ar/www/cgi-bin ww/yoga31/index.html_	uration! uration!
GNU nano 2.0.7 Welcome To Mu Site	File: /var/www/yoga31/index.html	Modified





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Setelah itu kita restart dengan cara "/etc/init.d/apache2 restart" Apa bila muncul Tulisan Seperti dibawah ini : "Could be Reliably determine the server's ...... maka kita harus mengisikan "Servername" kita dengan cara ketikan perintah "nano /etc/apache2/httpd.conf" setelah itu enter, isikan format sebagi berikut :

Servername 192.168.31.31

setelah itu kita simpan dengan menetakan "CTRL+O" lalu lalu "enter" dan keluar dari menu settingan dengan menekan "CTRL+X" lalu "enter

Seperti gambar dibawah ini :



[ Wrote 3 <u>lines</u> ]
Yoga31:/# /etc/init.d/apache2 restart
Restarting web server: apache2apache2: Could not reliably determine the server's fully gualified domain name, using 192,168,31,31 for ServerName
waiting apache2: Could not reliably determine the server's fully qualified

. Yoga31:∕# \_

#### [ Wrote 3 lines ]

Yoga31:/# /etc/init.d/apache2 restart Restarting web server: apache2apache2: Could not reliably determine the server's fully qualified domain name, using 192.168.31.31 for ServerName ... waiting apache2: Could not reliably determine the server's fully qualified domain name, using 192.168.31.31 for ServerName

Yoga31:/# nano /etc/apache2/httpd.conf \_





Setelah itu kita restart kembali dengan cara "/etc/init.d/apache2 restart".



#### 5.3. Pengujian

• Pengujian dilakukan di web browser dengan membuka situs yang kita telah buat

## 5.3.1. Pengujian Web Site

# Untuk pengujiannya bisa dilihat di gambar berikut ini



🕐 www.yogail.com 🗙 🔲	
← → C ③ www.yoga31.com	ې 🕾 🖄 😂
🛆 Little Alchemy 🔃 IP Calculator / IP Su 👔 Google Tejemahan	C Other bookmarks

Welcome To My Site Yoga Pratama XI TKJ 3 31



## 5.3.1. Pengujian Info.php

# Untuk pengujiannya bisa dilihat di gambar berikut ini





## 6. FTP Server

#### 6.1. Instalasi

1. Setelah masuk ke super user atau admin kita masukan cd instalasi Debian 5 lalu ketikan perintah install sebagi berikut "apt-get install vsftpd"

lalu tunggu beberapa saat higga prosses instalasi selesai , seperti gambar dibawah ini



Yoga31:<sup>\*#</sup> apt-get install vsftpd Reading package lists... Done Building dependency tree Reading state information... Done The following extra packages will be installed: libcap1 The following NEW packages will be installed: libcap1 vsftpd Ø upgraded, 2 newly installed, Ø to remove and Ø not upgraded. Need to get ØB/128kB of archives. After this operation, 487kB of additional disk space will be used. Do you want to continue [Y/n]? \_



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#### 6.2. Konfigurasi

1. konfigurasi pertama dilakukan dengan masuk ke "nano /etc/vsftpd.conf"

Seperti gambar dibawah ini :



2. Setelah itu kita memulai mensetting dengan mengetikan perintah

"nano /etc/vsftpd.conf"
setelah masuk kemenu settingan kita hilangkan tanda crass (#) seperti dibawah ini :
A. "#local\_enable=YES" kita rubah menjadi "local\_enable=YES"
B. "#write\_enable=YES" kita rubah menjadi "write\_enable=YES"



Agar lebih jelas bisa dilihat gambar dibawah ini :





setelah itu kita simpan dengan menetakan "CTRL+O" lalu lalu "enter" dan keluar dari menu settingan dengan menekan "CTRL+X" lalu "enter"



#### 6.2.1. Example For Download

1. Setelahkita melakukan settingan tadi kita memulai membuat file yang akan di download oleh client nantinya dengan cara kita masuk ke :

"nano /home/ftp/Contoh\_FTP\_YOGA31.txt" lalu enter

setelah masuk kemenu settingan isikan apaka yang akan di download client

seperti contoh dibawah ini :

Contoh Download FTP

Agar lebih jelas bisa dilihat gambar berikut :



setelah itu kita simpan dengan menetakan "CTRL+O" lalu lalu "enter" dan keluar dari menu settingan dengan menekan "CTRL+X" lalu "enter"



2. Setelah itu kita restart ftp server dengan cara "/etc/init.d/vsftpd restart" lalu enter

Contoh	Download	FTP			
		C	Wrote 1 line	]	
Yoga31: <mark>Restart</mark> Yoga31:	~# ∠etc∕i ing FTP s	init.d/vsftpd rest server: vsftpd.	art		



### 6.3. Pengujian

Pengujian dilakukan dengan cara masuk ke web browser lalu tambahkan subdomain ftp padaa situs kita seperti <u>ftp.yoga31.com</u> maka akan terlihat file yang bisa didownload seperti gambar dibawah ini :





# 7. Network Time Protocol

#### 7.1. Instalasi

1. Kita Installkan terlebih dahulu paket **ntp** (server), dan **ntpdate** (client). Dengan cara "apt-get install ntp ntpdate" seperti gambardibawah ini :



#### 7.2. Konfigurasi

1. Konfigurasi dilakukan di file ntp.conf kita buka file tersebut untuk melakukan konfigurasi yaitu denga cara "nano /etc/ntp.conf" lalu ikuti settingan sebagai berikut :





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Sebelum	2.0.7 File: /etc/ntp.conf	Modified
# # Note tha # that mig # up block	t "restrict" applies to both servers and clien ht be intended to block requests from certain ing replies from your own upstream servers.	nts, so a configuration clients could also end
# By defau <u>r</u> estrict - restrict -	lt, exchange time with everybody, but don't al 4 default kod notrap nomodify nopeer noquery 6 default kod notrap nomodify nopeer noquery	low configuration.
# Local us restrict 1 restrict :	ers may interrogate the ntp server more closel 27.0.0.1 :1	y.
# Clients : # cryptogr #restrict	from this (example!) subnet have unlimited acc aphically authenticated. 192.168.123.0 mask 255.255.255.0 notrust	ess, but only if
# If you w # (Again,	ant to provide time to your local subnet, chan the address is an example only.)	nge the next line.
G Get Hel	p <sup>6</sup> 0 WriteOut <sup>6</sup> R Read File <sup>6</sup> Y Prev Page <sup>6</sup> K C <sup>61</sup> Justifu <sup>61</sup> Where Is <sup>61</sup> Next Page <sup>61</sup> I	Cut Text Cur Pos



Sesudah			
ano na	ano 2.0.7	File: /etc/ntp.conf	Modified
# # Note = # that = # up blo	that "restrict" ar night be intended ocking replies fro	plies to both servers and clie to block requests from certain m your own upstream servers.	nts, so a configuration clients could also end
# By de: #restric # <u>r</u> estric	fault, exchange ti ct -4 default kod ct -6 default kod	me with everybody, but don't a notrap nomodify nopeer noquery notrap nomodify nopeer noquery	llow configuration.
# Local restric restric	users may interro t 127.0.0.1 t ::1	ngate the ntp server more close	ly.
# Clien <sup>+</sup> # crypto #restrio	ts from this (exan ographically authe ct 192.168.123.0 n	mple!) subnet have unlimited ac mticated. ask 255.255.255.0 notrust	cess, but only if
# If you # (Again	u want to provide n, the address is	time to your local subnet, cha an example only.)	nge the next line.
<mark>^G</mark> Get I <mark>^X</mark> Exit	Help <sup>^</sup> O WriteOut <mark>^J</mark> Justify	<sup>^</sup> R Read File <sup>^</sup> Y Pre∨ Page <sup>^</sup> K <sup>^</sup> W Where Is <sup>^</sup> V Next Page <sup>^</sup> U	Cut Text <sup>°C</sup> Cur Pos UnCut Text <mark>°T</mark> To Spell
GNU nano 2	.0.7	File: /etc/ntp.conf	Modifie
# # Note that	"restrict" annl	ies to both servers and cli	ents, so a configuratio

# Note that "restrict" applies to both servers and clients, so a configuration # that might be intended to block requests from certain clients could also end # up blocking replies from your own upstream servers. # By default, exchange time with everybody, but don't allow configuration. #restrict -4 default kod notrap nomodify nopeer noquery #restrict -6 default kod notrap nomodify nopeer noquery # Local users may interrogate the ntp server more closely. restrict 127.0.0.1 restrict ::1 # Clients from this (example!) subnet have unlimited access, but only if # cryptographically authenticated. #restrict 192.168.123.0 mask 255.255.0 notrust restrict 192.168.31.0 mask 255.255.255.0 notrust restrict 192.168.31.0 ma

setelah itu kita simpan dengan menetakan "CTRL+O" lalu lalu "enter" dan keluar dari menu settingan dengan menekan "CTRL+X" lalu "enter"



2. Setelah itu kita restart dengan cara "/etc/init.d/ntp restart" lalu enter



## 7.3. Pengujian

1. Untuk pengujian bisa dilihat dari gambar dibawah ini :







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5	Date and Time		×
	P Internet Time	Settings	23
	Configure Inter	net time settings:	
	V Synchronize	with an Internet time server	
	Server:	yoga31.com 👻 Update now	
	The clock was s 9:40 PM.	uccessfully synchronized with yoga31.com on 11/4/201	2 at
		OK Cance	
	What is Interne	t time synchronization?	
		OK Cancel A	pply



## 8. Web Mail Dan Mail Server

## 8.1. Mail Server

## 8.1.1. Instalasi

1. Setelah masuk ke super user atau admin kita masukan cd instalasi Debian 5 lalu ketikan perintah instal sebagi berikut

"apt-get install squirrelmail postfix courier-imap courier-pop courier-base"

lalu tunggu beberapa saat,

hingga muncul kotak dialog "Configuring Courier base" kta pilih no, setelah itu akan muncul kembali kotak dialog "Postfix Configuration" kita pilih local only,

setelah itu kita masukan alamat situs kita seperti disini saya isikan "yoga31.com" lalu tunggu hingga prosses instalasi selesai , agar lebih jelas bisa dilihat gambar berikut



Yoga31:"# apt-get install squirrelmail postfix courier-imap courier-pop courierbase Reading package lists... Done Building dependency tree Reading state information... Done The following extra packages will be installed: courier-authdaemon courier-authlib courier-authlib-userdb expect fam libfam0 libtd13 squirrelmail-locales tcl8.4 Suggested packages: courier-doc courier-imap-ssl courier-pop-ssl expectk postfix-mysql postfix-pgsql postfix-ldap postfix-pcre sasl2-bin libsasl2-modules resolvconf postfix-cdb ufw squirrelmail-decode imap-server imapproxy php-pear php4-pear php5-ldap php4-ldap tclreadline The following packages will be REMOVED: exim4 exim4-base exim4-config exim4-daemon-light The following NEW packages will be installed: courier-authdaemon courier-authlib courier-authlib-userdb courier-base courier-imap courier-pop expect fam libfam0 libltd13 postfix squirrelmail squirrelmail-locales tcl8.4 Ø upgraded, 14 neuly installed, 4 to remove and Ø not upgraded. Need to get 0B/7093kB of archives. After this operation, 18.8MB of additional disk space will be used. Do you want to continue [Y/n]? Y\_



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	Configuri	ng courier-base	
Courier uses files can be and treated a	several configuration replaced by a subdire s a single, consolide	n files in /etc/courier. Some ectory whose contents are conc ated, configuration file.	of these atenated
The web-based relies on con you agree, an will be creat	administration prov figuration directori y directories needed ed unless there is a	ided by the courier-webadmin p es instead of configuration fi for the web-based administrat lready a plain file in place.	ackage les. If ion tool
Create direct	ories for web-based a	administration?	
	<yes></yes>	<pre>KNo&gt;</pre>	







## 8.1.2. Konfigurasi 8.1.2.1. Konfigurasi Postfix

1. Setelah itu kita mulai mengkonfigurasi dengan mengetikan perintah sebagai berikut :

"nano /etc/postfix/main.cf" lalu enter

lalu edit settingan seperti dibawah ini :

"myhostname = yoga.com"

berikan tanda crass (#) pada settingan berikut

"#mydestination = Server . yoga.com, localhost.yoga.com, localhost" "#mailbox\_command = procmail –a "\$EXTENSION"

lalu dibaris paling terakhir ketik perintah baru seperti ini :

"home\_mailbox = Maildir/"

Agar lebih jelas bisa dilihat gamabar dibawah ini :









setelah itu kita simpan dengan menetakan "CTRL+O" lalu lalu "enter" dan keluar dari menu settingan dengan menekan "CTRL+X" lalu "enter"



#### 8.1.2.2. Konfigurasi Alias Mail Dan Squirrelmail-Configure

1. Konfigurasi ini di fungsikan agar saat kita masuk ke situs kita dengan keinginan kita. Setelah kita melakukan settingan tadi masuk ke menu settingan sebagai berikut :

"nano /etc/squirrelmail/apache.conf"

setelah masuk ke menu settingan tsb kita hilangkan perintah ini :

SEBELUM:

Alias /squirrelmail /usr/.....

Kita ganti menjadi :

Alias /mail /usr/...... Agar lebih jelas bisa dilihat gambar berikut :

```
#mydestination = Yoga31.yoga31.com, localhost.yoga31.com, localhost
relayhost =
mynetworks = 127.0.0.0/8 [::ffff:127.0.0.0]/104 [::1]/128
#mailbox_command = procmail -a "$EXTENSION"
mailbox_size_limit = 0
recipient_delimiter = +
inet_interfaces = loopback-only
default_transport = error
relay_transport = error
home_mailbox = Maildir/
```

#### [ Wrote 44 lines ]

Yoga31:~# cd /etc/skel/ Yoga31:/etc/skel# maildirmake Maildir Yoga31:/etc/skel# ls Maildir Yoga31:/etc/skel# cd / Yoga31:/# nano /etc/squirrelmail/apache.conf \_









2. Setelah itu kita setting mailnya dengan cara : ketik perintah :

"squirrelmail-configure" lalu enter

kemudian

ketik "D" lalu enter

kemudian

ketik "courier" lalu enter

kemudian tekan apa saja

kemudian ketik "S" lalu enter

kemudian ketik "Q" lalu enter Agar lebih jelas dapat dilihat dari gambar berikut

GNU nano 2.0.7	File: /etc/squirrelmail/apache.conf	
Alias /mail /usr/shar	e/squirrelmail	
<pre><directory fol<="" indexes="" options="" share="" td="" usr=""><td>e/squirrelmail&gt; lowSymLinks c&gt; cylobals off c&gt; c-globals off e-globals off c&gt; dex.php</td><td></td></directory></pre>	e/squirrelmail> lowSymLinks c> cylobals off c> c-globals off e-globals off c> dex.php	
<pre># access to configt <files configtest.p<br="">order deny,allow deny from all allow from 127.0. </files></pre>	est is limited by default to prevent information lea hp> 0.1 [ Wrote 44 lines ]	ık



Squ i	irrelMail Configuration : Read: config.php (1.4.0)
Main 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	n Menu Organization Preferences Server Settings Folder Defaults General Options Themes Address Books Message of the Day (MOTD) Plugins Database Languages
D.	Set pre-defined settings for specific IMAP servers
C S Q	Turn color on Save data Quit
Com	nand >> D

#### SquirrelMail Configuration : Read: config.php

While we have been building SquirrelMail, we have discovered some preferences that work better with some servers that don't work so well with others. If you select your IMAP server, this option will set some pre-defined settings for that server.

Please note that you will still need to go through and make sure everything is correct. This does not change everything. There are only a few settings that this will change.

```
Please select your IMAP server:
    bincimap = Binc IMAP server
courier = Courier IMAP server
                = Cyrus IMAP server
    cyrus
                = Dovecot Secure IMAP server
    dovecot
             = Microsoft Exchange IMAP server
    exchange
    hmailserver = hMailServer
    macosx = Mac OS X Mailserver
    mercury32
                = Mercury/32
                = University of Washington's IMAP server
   ແພ
                = Do not change anything
    quit
Command >> courier_
```



Squ	irrelMail Configuration : Read: config.php (1.4.0)
Mai 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	n Menu Organization Preferences Server Settings Folder Defaults General Options Themes Address Books Message of the Day (MOTD) Plugins Database Languages
D.	Set pre-defined settings for specific IMAP servers
C <mark>S</mark> Q	Turn color on <mark>Save data</mark> Quit
Com	mand >> <mark>S_</mark>
Squ	irrelMail Configuration : Read: config.php (1.4.0)
Main 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	n Menu Organization Preferences Server Settings Folder Defaults General Options Themes Address Books Message of the Day (MOTD) Plugins Database Languages
D.	Set pre-defined settings for specific IMAP servers
C S Q	Turn color on Save data Quit
Com	nand >> Q



### 8.1.2.3. Konfigurasi Mail directory

1. Setelah itu kita membuat settingan di postfix kita masuk ke directory skel dengan cara "cd /etc/skel" fungsi masuk ke directory ini adalah untuk membuat folder tempat mailbox nati, untuk membuat folder tersebut kita ketik perintah ini :

"maildirmake Maildir"

setelah itu kita keluar dari directory skel dengan cara "cd /" Agar lebih jelas bisa dilihat dalam gambar berikut

```
alias_maps = hash:/etc/aliases
alias_database = hash:/etc/aliases
myorigin = /etc/mailname
#mydestination = Yoga31.yoga31.com, localhost.yoga31.com, localhost
relayhost =
mynetworks = 127.0.0.0/8 [::ffff:127.0.0.0]/104 [::1]/128
#mailbox_command = procmail -a "$EXTENSION"
mailbox_size_limit = 0
recipient_delimiter = +
inet_interfaces = loopback-only
default_transport = error
relay_transport = error
home_mailbox = Maildir/
```

[ Wrote 44 lines ]

Yoga31:~# cd\_/etc/skel/



alias\_maps = hash:/etc/aliases alias\_database = hash:/etc/aliases myorigin = /etc/mailname #mydestination = Yoga31.yoga31.com, localhost.yoga31.com, localhost relayhost = mynetworks = 127.0.0.0/8 [::ffff:127.0.0.0]/104 [::1]/128 #mailbox\_command = procmail -a "\$EXTENSION" mailbox\_size\_limit = 0 recipient\_delimiter = + inet\_interfaces = loopback-only default\_transport = error relay\_transport = error home\_mailbox = Maildir/

[ Wrote 44 lines ]

Yoga31:~# cd /etc/skel/ Yoga31:/etc/skel# maildirmake Maildir\_

myorigin = /etc/mailname
#mydestination = Yoga31.yoga31.com, localhost.yoga31.com, localhost
relayhost =
mynetworks = 127.0.0.0/8 [::ffff:127.0.0.0]/104 [::1]/128
#mailbox\_command = procmail -a "\$EXTENSION"
mailbox\_size\_limit = 0
recipient\_delimiter = +
inet\_interfaces = loopback-only
default\_transport = error
home\_mailbox = Maildir/

#### [ Wrote 44 lines ]

Yoga31:~# cd /etc/skel/ Yoga31:/etc/skel# maildirmake Maildir Yoga31:/etc/skel# ls Maildir Yoga31:/etc/skel# \_



#### 8.1.2.4. Konfigurasi Account Mail

1. Setelah itu kita membuat 2 account atau user untuk nanti dimail kita, untuk itu dilakukan dengan cara :

Account 1.

ketik "adduser pratama" isikan password dan isi pertanyan yang ada bila ingin diisikan lalu enter

Account 2.

ketik "adduser pratama31" isikan password dan isi pertanyan yang ada bila ingin diisikan lalu enter Agar lebih jelas bisa dilihat dari gambar berikut

via the NAME\_REGEX configuration variable. Use the `--force-badname' option to relax this check or reconfigure NAME\_REGEX. Yoga31:/# adduser yoga Adding user 'yoga' ... Adding new group 'yoga' (1001) ... Adding new user 'yoga' (1001) with group 'yoga' ... Creating home directory '/home/yoga' ... Copying files from '/etc/skel' ... Enten new UNIY massuond. Enter new UNIX password: Retype new UNIX password: Sorry, passwords do not match passwd: Authentication information cannot be recovered passwd: password unchanged Try again? [y/N] n Changing the user information for yoga Enter the new value, or press ENTER for the default Full Name []: Room Number []: Work Phone []: Home Phone []: Other []: Is the information correct? [Y/n] Yoga31:/# adduser yoga adduser: The user 'yoga' already exists. Yoga31:/# adduser pratama\_



Room Number []: Work Phone []: Home Phone []: Other []: Is the information correct? [Y/n] Yoga31:/# adduser yoga adduser: The user `yoga' already exists. Yoga31:/# adduser pratama Adding user `pratama' ... Adding new group `pratama' (1002) ... Adding new user `pratama' (1002) with group `pratama' ... Creating home directory `/home/pratama' ... Copying files from '/etc/skel' Enter new UNIX password: Retype new UNIX password: Sorry, passwords do not match passwd: Authentication information cannot be recovered passwd: password unchanged Try again? [y/N] y Enter new UNIX password; Retype new UNIX password: passwd: password updated successfully Changing the user information for pratama Enter the new value, or press ENTER for the default Full Name []: \_

adduser: The user `yoga' already exists. Yoga31:/# adduser pratama Adding user `pratama' ... Adding new group `pratama' (1002) ... Adding new user `pratama' (1002) with group `pratama' ... Creating home directory `/home/pratama' ... Copying files from '/etc/skel' ... Enter new UNIX password: Retype new UNIX password: Sorry, passwords do not match passwd: Authentication information cannot be recovered passwd: nathentication information car passwd: password unchanged Try again? [y/N] y Enter new UNIX password: Retype new UNIX password: passwd: password updated successfully Changing the user information for pratama Enter the new value, or press ENTER for the default Full Name []: Room Number []: Work Phone []: Home Phone []: Other []: Is the information correct? [Y/n] Yoga31:/# adduser pratama31\_



Enter new UNIX password: Retype new UNIX password: Sorry, passwords do not match passwd: Authentication information cannot be recovered passwd: password unchanged Try again? [y/N] y Enter new UNIX password: passwd: password updated successfully Changing the user information for pratama Enter the new value, or press ENTER for the default Full Name []: Room Number []: Work Phone []: Uther []: Is the information correct? [Y/n] Yoga31:/# adduser pratama31 Adding user 'pratama31' (1003) ... Adding new group 'pratama31' (1003) with group 'pratama31' ... Creating home directory '/home/pratama31' ... Enter new UNIX password: Enter new UNIX password: Retype new UNIX password: Retype new UNIX password: \_\_\_\_\_



#### 8.2. Web Server

1. Setelah itu kita mensetting Mail server tadi kita masuk kesettingan web server agar mail kita dapat terintergrasi diweb tsb, untuk itu kita ikuti langkah berikut :

ketik perintah :

"nano /etc/apache2/apache2.conf"

setelah masuk ke menu settingan tekan "page down" hingga akhir settingan tambahkan dibawah "Include /etc/apache2/sites-enabled/" dengan "Include /etc/squirrelmail/apache.conf

```
Agar lebih jelas bisa dilihat dari gambar berikut
```

```
Enter the new value, or press ENTER for the default
             Full Name []:
             Room Number []:
Work Phone []:
             Home Phone []:
             Other []:
Is the information correct? [Y/n]
Is the information correct? [Y/N]
Yoga31:/# adduser pratama31
Adding user `pratama31' ...
Adding new group `pratama31' (1003) ...
Adding new user `pratama31' (1003) with group `pratama31' ...
Creating home directory `/home/pratama31' ...
Copying files from `/etc/skel' ...
Enter new UNIX passiond:
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for pratama31
Enter the new value, or press ENTER for the default
Full Name []:
             Room Number []:
             Work Phone []:
             Home Phone []:
             Other []:
Is the information correct? [Y/n]
 Yoga31:/# nano /etc/apache2/apache2.conf 🔄
```



	GNU nano 2.0.7 File: /etc/apache2/apache2.conf
#	
#	Based upon the NCSA server configuration files originally by Bob McCool
**	based apon the near server configuration files originally by non-necoul.
**	This is the main Anache server configuration file. It contains the
#	into is the main apache server configuration file. It contains the
#	configuration infectives that give the server its instructions.
#	the dimension
#	the affectives.
# #	No NOT simply yead the instructions in here without understanding
# #	be not simply read the instructions in here without understanding
#	what they up. They remere only as finds or reminders. If you are unsure
#	consult the online abes. Tou have been warned.
#	The configuration directives are ground into three basic sections:
**	1 Directives that control the operation of the Amache severe process as a
# #	uble (the 'global environment')
#	2 Directives that define the narameters of the 'main' or 'default' service
# #	which responds to requests that aren't handled by a uintual host
#	These divectives also avoide default values for the settings
#	of all intrust hosts
**	3 Settings for unitual hosts which allow lieb requests to be sent to
==	J. Jettings for virtual nosts, which allow web requests to be sent to
^G	Get Help II Writeflut II Read File IV Preu Page IV fut Text II fur Pos
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	The state of the s






2. Setelah itu kita restart apache2 dengan cara "/etc/init.d/apache2 restart"





### 8.3. Pengujian

 Kemudian untuk mengecek nya buka web browser kemudian ketik di address "yoga31.com/mail" lalu login dengan account 1 seperti di yahoo kemudian coba kirim mail apablia masuk di account kedua maka BERHASIL. Agar lebih jelas bisa dilihat dari gambar berikut





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Password:

Login

🕓 SquirrelMail - Login 🛛 🗙 🛄			- 8 ×
← → C Oyoga31.com/mail/src/login.php			🐵 🕁 💽 🛞 🔦
🛕 Little Alchemy 🛛 📴 IP Calculator / IP Su 👔 Google Terjemahan			C Other bookmarks
* Norton Confidential needs your permission to run.	Run this time Always run on this site		Learn more ×
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SquirrelMail 1.4.15		_ @ ×
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🚁 Norton Confident	tial needs your permission to run. Run this time Always run on this site	Learn more ×
P Do you want Goo	gle Chrome to save your password? Save password Never for this site	×
Folders	Current Folder: INBOX	Sign Out
Last Refresh: Mon, 2:56 am ( <u>Check mail</u> )	Compose Addresses Folders Options Search Help	<u>SquirrelMail</u>
	Move Selected To:	Transform Sclected Messages:
- INROX		Poad Uproad Doloto
Drafts	INBOX VINCE Forward	Iteau Onieau Delete
Drafts Sent	From Date Subject	Iteau Uniteau Delete
Drafts Sent Trash	From Date Subject THIS FOLDER IS EMPTY	
Drafts Sent Trash	From Date Subject THIS FOLDER IS EMPTY	Liceau (Vincau) (Lieneve)



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🔹 Norton Confider	tial needs your permission to run. Run this time Always run on this site	Learn more ×
P Do you want Go	ogle Chrome to save your password? Save password Never for this site	×
Folders Last Refresh: Mon, 2:56 am ( <u>Check mail</u> ) - INBOX Drafts Sent Trash	Current Folder: INBOX       *         Compose Addresses Folders Options Search Help         To: pratma31@yoga31.com         Cc:         Bcc:         Subject Coba Webmail Yoga Pratama         Priority Hormal • Receipt: On Read On Delivery         Signature         Mama : Yoga Pratama         Kelassa : XI TKJ 3         NO : 31	Sign Out SquirelMal

🕓 SquirrelMail - Login 🛛 🗙 💽				- 0 ×
← → C ③ yoga31.com/mail/src/login.php			(	ی 🐼 🔯 😒 🔦
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Norton Confidential needs your permission to run.	Run this time Always run on this site			Learn more ×
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Do you want Google Chrome to save your password?     Save password     Never for this site       Folders Last Refresh: Mon, 2:53 am (Check mail)     Current Folder: INBOX Compose Addresses Folders Options Search Help     Sign O       Toggle All     Toggle All     Viewing Message: 1 (1 total	🔹 Norton Confident	tial needs your permission to run. Run this time	Always run on this site	Learn more ×
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Last Refresh: Mon, 258 am (Check mail) Toggle All Viewing Message: 1 (1 tota	Folders	Current Folder: INBOX		Sign Out
Toggle All Viewing Message: 1 (1 tot	Last Refresh: Mon, 2:58 am ( <u>Check mail</u> )	Compose Addresses Folders Options Search He	<u>2</u>	<u>SquirrelMail</u>
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Trash From Date Subject	Trash	From D	e Subject	
pratama@yograsi.com 2:58 am <u>Coba vyeomali loga fratama</u>		pratama@yoga31.com 2:	8 am <u>Coba webmaii Yoga Pratama</u>	
Loggie All Viewing Message: 1 (1 tot		Toggle All		Viewing Message: 1 (1 total)
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🔹 Norton Confident	ntial needs your permission to run. Run this time Always run on this site	Learn more ×
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Last Refresh: Mon, 2:58 am ( <u>Check mail</u> )	Compose Addresses Folders Options Search Help	<u>SquirrelMail</u>
D'DOV	Message List   Delete Previous   Next Forward   E	orward as Attachment   Reply   Reply All
- INBOA (1) Drafts	Subject: Coba Webmail Yoga Pratama	
Sent	Date: Mon. November 5, 2012 2:58 am	
Trasn	To: pratama31@yoga31.com	
	Priority: Normal	E
	Options: View Full Header View Printable Version Download this as a file	
	Nama : Yoga Fratama	
	Kelasa : XI TKJ 3 NO : 31	
•		
•		-

Berhasil.....



# 9. Proxy Server

#### 9.1. Instalasi

1. Setelah masuk ke super user atau admin kita masukan cd instalasi Debian 5 lalu ketikan perintah instal sebagi berikut "apt-get install squid"

lalu tunggu beberapa hingga prosses instalasi selesai Seperti gambar berikut

Yoga31:"# apt-get install squid	
Reading package lists Done	
Building dependency tree	
Reading state information Done	
ine fullowing extra packages will be installea.	
sundelient sund-ogi logebeek-database resolucent smelient uinkind	
The following NEW nackages will be installed:	
squid common	
$\theta$ upgraded, 2 newly installed, $\theta$ to remove and $\theta$ not upgraded.	
Need to get 0B/1188kB of archives.	
After this operation, 6791kB of additional disk space will be used.	
Do you want to continue [Y/n]? y_	



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# 9.2. Konfigurasi 9.2.1. Konfigurasi Squid

1. Setelah kita menginstal aplikasi squid kita masuk ke menu settingan "squid" dengan cara "nano /etc/squid/squid.conf"

setelah masuk ke menu settingan ikuti petunjuk settingan sebagi berikut :

A. tekan "CTRL + W" kemudian ketik "http\_port 3128" lalu enter setelah muncul rubah seperti dibawah ini : "http\_port 3128" kita rubah menjadi "http\_port 3128 transparent"

B. tekan kembali "CTRL + W" kemudian ketik "to\_l" lalu enter setelah muncul tambahkan settingan berikut :

SEBELUM : acl to\_localhost dst 127.0.0.0/8 # TAMBAHKAN SEBAGI BERIKUT acl to\_localhost dst 127.0.0.0/8 acl yoga31 src 192.168.31.0/24 acl bloksitus url\_regex "/etc/squid/bloksitus" http\_access deny bloksitus #

C. Tekan kembali "CTRL + W" kemudian ketik "http\_access deny all" lalu enter, kemudian tekan kembali "CTRL + W" lalu enter, tambahkan settingan sebagi berikut :

SEBELUM : # And Finally deny all other ...... http\_access deny all

TAMBAHKAN SETTINGAN BERIKUT : # And Finally deny all other ...... http\_access allow yoga31 http\_access deny all

D. Setelah itu tekan "Page Down" hingga menu settingan berada paling terakhir kemudian tambahkan settingan sebagai berikut :

cache\_mgr admin@yoga31.com visible\_hostname <u>http://www.yoga31.com</u>



Agar lebih jelas bisa dilihat dari gambar berikut :







2	GNU nano 2.0.7	File: /etc/squid/sq	uid.conf	Modified
5		idle is the initial t the connection, inter timeout the time befo	ime before TCP start val how often to pro re giving up.	ts probing obe, and
# # #	If you run Squi and an external internal addres visible on the	d on a dual-homed mach interface we recommen s:port in http_port. T internal address.	ine with an internal d you to specify the his way Squid will c	l e only be
# # h	Squid normally listen ttp_port 3128 transpar	s to port 3128 ent_		
# #	Note: https_port Note: This option is enable-ssl op	only available if Squi tion	d is rebuilt with tł	he
# #	Usage: [ip:]po The socket addr requests.	rt cert=certificate.pe ess where Squid will l	m [key=key.pem] [op1 isten for HTTPS clie	tions] ent
	s Get Help <sup>^</sup> O WriteOu X Exit <sup>^</sup> J Justify	t <sup>^</sup> R Read File <sup>^</sup> Y Pre <sup>^</sup> W Where Is <sup>^</sup> V Nex	v Page <mark>^K</mark> Cut Text t Page <mark>^U</mark> UnCut Text	<mark>℃</mark> Cur Pos t <mark>^T</mark> To Spell





	GNU nano 2.0.7 File: /etc/squid/squid.conf	Modified
	#acl macaddress arp 09:00:2b:23:45:67	
	#acl myexample dst_as 1241	
	#acl password proxy_auth REQUIRED	
	#acl fileupload req_mime_type -i ^multipart/form-data\$	
	#acl javascript rep_mime_type -i ^application/x-javascript\$	
	#Recommended minimum configuration:	
	aci all'src all	
	aci manager proto cache_object	
	aci tu_iucainust ast i27.0.0.0/ <u>0</u>	
	# # Evample wile allouing access from your local networks	
	# Adampt to list your (internal) IP networks from there brousing	
	# should be allowed	
	and local pet spec 10 0 0 0/8 $\pm$ BFC1918 nossible internal network	
	acl localnet src 172.16.9.9/12 # BFC1918 possible internal network	
	acl localnet src 192,168,0,0/16 # BFC1918 nossible internal network	
	#	
	acl SSL ports port 443 # https	
	G Get Help O WriteOut AR Read File Y Prev Page K Cut Text C (	Cur Pos
	<b>^X</b> Exit <b>^J</b> Justify <b>^W</b> Where Is <b>^U</b> Next Page <b>^U</b> UnCut Text <b>^T</b> /	Fo Spell





GNU nano 2.0.7	File: ∕e	etc/squid/squid.co	nf	Modified
	10:26:23:45	5:67		
#acl myexample dst_as 12				
#acl password proxy_auti		14:0-0-1	4 - Å	
#acl fileupioaa req_mime	type -1	multipart/form-da	.taş	
#aci javascript rep_mime	_type -1	application/x-jac	ascriptş	
# #Pecommonded minimum cor	figuration			
aclall spc all	n iyuration	1.		
aci all src all	ah jeat			
aci manayer proto tatne aci localbost sne 127 0	00JCCC 0 1/32			
act to localhost det 127	0.1/32			
acl uoga31 src 192 168 3	1 0/24			
acl bloksitus url recey	"/etc/soui	idzbloksitus"		
http access demu bloksit				
#	/u0			
# Example rule allowing	access fro	om uour local netu	orks.	
# Adapt to list your (in	ternal) IP	? networks from wł	ere browsing	
# should be allowed			2	
acl localnet src 10.0.0.	0/8 #	RFC1918 possible	internal networ	•k
acl localnet src 172.16.	0.0/12 #	RFC1918 possible	internal networ	۰k
Search [to_l]: <mark>http_acce</mark>	ess deny al			
<mark>^G</mark> Get Help <mark>^Y</mark> First Li	ne <mark>^R</mark> Repla	ice <sup>^</sup> W Beg of Pa	r <mark>M-C</mark> Case Sens	1-R Regexp
<sup>^</sup> C Cancel <sup>^</sup> V Last Lir	ie 🎦 Go To	o Line <sup>^</sup> O End of Pa	rM-B Backwards	P PrevHstory











#### 9.2.2. Konfigurasi Filter Situs

1. Setelah membuat settingan di squid kita membuat daftar list situs yang akan kita blok dengan cara mengetik perintah sebagi berikut :

"nano /etc/squid/bloksitus"

setelah masuk kemenu settingan tambahkan daftar situs yang akan kita blok seperti dibawah ini :

yoga31.com http://www.yoga31.com http://www.facebook.com

Agar lebih jelas bisa dilihat dari gambar berikut :







## 9.2.2. Konfigurasi IP Tables

1. Setelah itu kita masuk kemenu settingan berikutnya yaitu konfigurasi ip tables yang berfungsi untuk mengaktifkan filter situs yang kita buat tadi di squid untuk melakukannya dengan cara ketik perintah sebagai berikut :

"nano /etc/sysctl.conf" lalu enter

hilangkan tanda crass (#) pada settingan berikut : "#net.ipv4.ip\_forward=1" rubah menjadi "net.ipv4.ip\_forward=1" Seperti gambar dibawah ini



GNU nano 2.0.7	File: /etc/squid/bloksitus	
www.yoga31.com www.facebook.com www.yahoo.com		
	[ Wrote 3 lines ]	
Yoga31:~# nano ∕etc∕sy	sctl.comf _	
GNU nano 2.0.7	File: /etc/sysctl.conf	

#
#
# Uncomment the next two lines to enable Spoof protection (reverse-path filter)
# Turn on Source Address Verification in all interfaces to
# prevent some spoofing attacks
#net.ipv4.conf.default.rp\_filter=1
#net.ipv4.conf.all.rp\_filter=1
# Uncomment the next line to enable TCP/IP SYN cookies
# This disables TCP Window Scaling (http://lkml.org/lkml/2008/2/5/167),
# and is not recommended.
#net.ipv4.tcp\_syncookies=1

# Uncomment the next line to enable packet forwarding for IPv4 <code>#net.ipv4.ip\_forward=1</code>

# Uncomment the next line to enable packet forwarding for IPv6 [ Read 67 lines ] ^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos ^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text^T To Spell



```
GNU nano 2.0.7
                                 File: /etc/sysctl.conf
                                                                                   Modified
# Functions previously found in netbase
Ħ
# Uncomment the next two lines to enable Spoof protection (reverse-path filter)
# Turn on Source Address Verification in all interfaces to
# prevent some spoofing attacks
#net.ipv4.conf.default.rp_filter=1
#net.ipv4.conf.all.rp_filter=1
# Uncomment the next line to enable TCP/IP SYN cookies
# This disables TCP Window Scaling (http://lkml.org/lkml/2008/2/5/167),
# and is not recommended.
#net.ipv4.tcp_syncookies=1
# Uncomment the next line to enable packet forwarding for IPv4
net.ipv4.ip_forward=1
# Uncomment the next line to enable packet forwarding for IPv6
                                              Y Pre∨ Page <sup>A</sup>K Cut Text <sup>AC</sup> Cur Pos
<mark>^U</mark> Next Page <mark>AU</mark> UnCut Text<sup>AT</sup> To Spell
^G
^X
   Get Help
               🔟 WriteOut
                               ^R Read File
   Exit
                <sup>^</sup>J Justify
                               ^₩
                                  Where Is
```

2. Setelah itu kita masuk ke settingan "rc.local" untuk mengaktifkan settingan yang kita buat tadi di squid dengan cara :

"nano /etc/rc.local"

setelah masuk tambahkan script berikut diatas "exit 0" seperti dibawah ini :

iptables -t nat -A PREROUTING -p tcp --dport 80 -j REDIRECT --to-port 3128 exit 0 agar lebih jelas bisa dilihat dari gambar berikut



GNU NANO Z.U.7	File: /etc/sysctl.com
######################################	######################################
# Uncomment the next two # Turn on Source Address # prevent some spoofing a #net.ipv4.conf.default.rp #net.ipv4.conf.all.rp_fil	lines to enable Spoof protection (reverse-path filter) Verification in all interfaces to ttacks _filter=1 ter=1
# Uncomment the next line # This disables TCP Windo # and is not recommended. #net.ipv4.tcp_syncookies=	to enable TCP/IP SYN cookies ω Scaling (http://lkml.org/lkml/2008/2/5/167), 1
# Uncomment the next line net.ipv4.ip_forward=1	to enable packet forwarding for IPv4
# Uncomment the next line	to enable packet forwarding for IPv6 [ Wrote 67 lines ]
Yoga31:~# nano ∕etc∕rc.lo	cal_

#!∕bin∕sh -e # # rc.local
<pre># This script is executed at the end of each multiuser runlevel. # Make sure that the script will "exit 0" on success or any other # value on error. # # In order to enable or disable this script just change the execution # bits. # # # By default this script does nothing. exit 0</pre>





setelah itu kita simpan dengan menetakan "CTRL+O" lalu lalu "enter" dan keluar dari menu settingan dengan menekan "CTRL+X" lalu "enter"

3. Setelah itu ketik "/etc/rc.local" apa bila tidak muncul tulisan aneh atau peringatan ada yang salah kita reboot komputer kita dan settingan squid bisa kita coba di client dengan membuka daftar situs yang telah kita blok apakah teraccess atau tidak jika tidak maka BERHASIL. Sepertigambar dibawah ini





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#### 9.3. Pengujian

1. Pengujian dilakukan dengan cara membuka situs yang telah kita blokir tadi seperti gambar dibawah ini :



## ERROR

#### The requested URL could not be retrieved

While trying to retrieve the URL: <u>http://yoga31.com/</u>

The following error was encountered:

• Access Denied.

Access control configuration prevents your request from being allowed at this time. Please contact your service provider if you feel this is incorrect. Your cache administrator is <u>admin@yoga31.com</u>.

Generated Mon, 05 Nov 2012 07:30:27 GMT by www.yoga31.com (squid/2.7.STABLE3)



# 10. Glosarium / istilah-istilah dalam Konfigurasi

- 1. Subnet = network ip dari pada ip yang akan kita berikan ke client.
- 2. Netmask = network dari pada client kita juga namun cara penulisan yang digunakkan adalah sama seperti penulisan subnetmask.
- 3. Range = merupakan jarak ataupun batasan yang akan kita gunakan untuk ip yang akan diberikkan kepada client. Yang pertama merupakkan start ipnya dan yang kedua merupakan end ipnya.
- 4. Option domain-name-servers = ip dari dns yang akan digunakan oleh client.
- 5. Option domain-name = nama dari dns yang akan dipakai oleh client nantinya.
- 6. Option routers = gateway dari client.
- 7. Option broadcast-address = merupakan broadcast ip dari ip yang diberikan ke client.
- 8. Default-lease-time = merupakan waktu default yang dapat digunakan oleh suatu pc atau client untuk mempergunakan ip tertentu.
- 9. "cp" adalah suatu perintah untuk mengcopy suatu file di debian
- 10. "db.local" adalah adalah suatu file yang berfungsi sebagai settingan file forward
- 11. "db.192" adalah adalah suatu file yang berfungsi sebagai settingan file reverse
- 12. "zone" adalah suatu settingan pada debian yang berfungsi mengubah IP menjadi nama / domain
- 13. \$ORIGIN adalah Menambahkan nama domain atau zone ke record–record yang tidak qualified
- 14. \$TTL adalah Mendefinisikan nilai default Time To Live untuk suatu zone.
- 15. @ adalah Shortcut yang menyatakan nama domain yang bersesuaian dengan zona ini
- 16. IN adalah Kata kunci Protokol INTERNET
- 17. SOA adalah Nama record SOA
- 18. Serial adalah Nomor urut yang dibangkitkan setiap kali ada perubahan konfigurasi
- 19. Refresh adalah Interval yang digunakan Secondary NS untuk mengontak Primary NS
- 20. Retry adalah Waktu tunggu yang digunakan oles SNS bila PNS down atau crash
- 21. Expire adalah adalah Masa berlaku zona untuk SNS tanpa harus melakukan refresh pada PNS jika PNS Down
- 22. Minimum adalah Nilai default untuk masa berlaku data yang disimpan dalam cache.
- 23. Iptables adalah suatu tools dalam sistem operasi linux yang berfungsi sebagai alat untuk melakukan filter (penyaringan) terhadap (trafic) lalulintas data.
- 24. INPUT

Mengatur paket data yang memasuki firewall dari arah intranet maupun internet.

25. OUTPUT

Mengatur paket data yang keluar dari firewall ke arah intranet maupun internet.

26. FORWARD

Mengatur paket data yang melintasi firewall dari arah internet ke intranet maupun sebaliknya.



- 27. ACCEPT
  - Akses diterima dan diizinkan melewati firewall
- 28. REJECT

Akses ditolak, koneksi dari komputer klien yang melewati firewall langsung terputus, biasanya terdapatpesan "Connection Refused".

29. DROP

Akses diterima tetapi paket data langsung dibuang oleh kernel, sehingga pengguna tidak mengetahui kalau koneksinya dibatasi oleh firewall, pengguna melihat seakan – akan server yang dihubungi mengalami permasalahan teknis.

- 30. NAT (Network Address Translation)
- 31. Pada bagian ini kita membahas mengenai Network Address Translation, biasa disebut dengan NAT.
- 32. POSTROUTING

Translasi alamat yang keluar dari firewall, berarti kita melihat paket data yang keluar dari kartu LAN.

33. PREROUTING

Translasi alamat yang memasuki kartu jaringan, kita juga bisa membelokkan paket data ke port tertentu untuk membangun server internet hanya dengan satu IP publik.

- 34. -d 0/0 berarti ke semua tujuan
- 35. -p tcp (koneksi menggunakan protokol TCP)
- 36. -dport 80 (melarang akses port 80)



