
Sendmail Mail Server

By

Team Dosen PENS-ITS

Overview

- ☐ Mail Server
 - ☐ Penerimaan Mail : MX Record
 - ☐ Kerja Sendmail
 - ☐ Konfigurasi Sendmail
 - ☐ Fitur Sendmail
 - ☐ Konfigurasi Server dan Client
 - ☐ POP Server
 - ☐ IMAP Server
-

Mail Server Overview

- Mail Server memberikan layanan kepada pengguna internet berupa layanan email
 - Proses
 - User mengirim message
 - Pertama kali message dikirim dari host user menuju ke mail server
 - Mail server mengirim message ke mail server yang lain di internet dimana penerima berada
 - Mail server penerima kemudian mengirimkan pesan ke sistem host penerima
-

Mail Server Overview lanjutan

- Pada masing-masing tahapan ada perbedaan tipe operasi dengan menggunakan agent yang berbeda
 - 3 Macam agent
 - MUA
Mail client yang digunakan user untuk mengirim email ke user lain
 - MTA
Mail server yang menggunakan SMTP untuk mengirimkan pesan dari satu mail server ke mail server yang lain
 - MDA
Mengambil pesan yang diterima oleh mail server dan mengirimkannya ke user account
-

Penerimaan Mail : MX Record

- ❑ Sebuah mail address berisi (contoh : agus@yahoo.com)
 - Username : agus
 - Host address (FQDN) : yahoo.com
 - ❑ Mail server dihubungkan dengan host yang berbeda-beda oleh record MX (mail exchange), dalam konfigurasi DNS
 - ❑ Sebuah host dapat memiliki bermacam-macam mail exchange dengan perbedaan prioritas
-

Bagaimana Sendmail Bekerja

- ❑ Sendmail beroperasi sebagai sebuah server untuk menerima dan mengirim email
 - ❑ DNS server menentukan host dari domain yang digunakan
 - Secara khusus menggunakan masukan MX
 - Pesan akan dikirim ke host ini
 - Server sendmail akan mengirim message ke user dan host yang benar
-

Bagaimana Sendmail Bekerja

- ❑ Sendmail mengatur semua konfigurasi dan database file di /etc/mail
 - ❑ Masing-masing konfigurasi mempunyai versi text dan database yang biasanya digunakan untuk versi sendmail
 - ❑ Versi database dibuat menggunakan pilihan makemap hash dan operasi redirection untuk text dan database
 - `cd /etc/mail`
 - `Makemap hash access < access`
-

Konfigurasi Sendmail

- ❑ File konfigurasi utama sendmail -> /etc/mail/sendmail.cf
 - ❑ Definisi dari sendmail bisa sangat komplek dan membingungkan
 - Definisi design dan fitur ada di file /etc/mail/sendmail.mc
 - Untuk membuat file sendmail.cf yang baru dengan menggunakan m4 preprocessor

```
#m4 sendmail.mc > /etc/mail/sendmail.cf
```

```
# service sendmail restart
```
-

Fitur Sendmail

3 Fitur Penting :

- ☐ Aliases
 - ☐ Sendmail Masquerading
 - ☐ Security
-

Aliases

- ❑ Meng-enable Sendmail terhadap host-host dalam jaringan yang hanya menggunakan alamat alias
 - ❑ aliases.db berisi nama dan gabungan alamat email address
 - Masukan alias disimpan di file /etc/aliases
 - Edit file ini tambahkan entrian baru atau ubah yang lama
 - Simpan informasinya dengan menggunakan perintah **newaliases**
 - ❑ Contoh
 - testing : agus@yahoo.com
 - murid :agus, budi
-

Sendmail Masquerading

- ❑ Membuat message dikirim oleh local host kemudian dikirim oleh mail server
 - ❑ Masquerading sering kali digunakan untuk melindungi localhost dengan sebuah domain
 - Pesan dari host-host dalam pens.ac.id :
mail1.test.ac.id dan mail2.test.ac.id bisa dianggap datang dari test.ac.id
 - ❑ Masquerading dihidupkan dengan perintah `MASQUERADE_AS`
 - ❑ Semua message yang diterima akan terhapus dari mail server
-

Contoh Masquerading Sendmail

- ❑ Untuk me-masquerade test.ac.id
 - MASQUERADE_AS('test.ac.id')dnI
 - ❑ Untuk me-masquerade semua host dalam local network
 - FEATURE('masquerade_entire_domain')dnI
 - ❑ Untuk me-masquerade bagian host atau domain
 - MASQUERADE_DOMAIN('mail.test.ac.id')dnI
-

Contoh Sendmail Masquerading

- ❑ Tentukan domain/host list dalam sebuah file
 - `MASQUERADE_DOMAIN_FILE('mydomains') dn1`
 - ❑ Masquerade sebagai sebuah ISP mail domain
 - `MASQUERADE_AS('isp.com') dn1`
`MASQUERADE_DOMAIN('test.ac.id') dn1`
 - ❑ Penerima (Recipient) masquerading
 - `FEATURE(allmasquerade) dn1`
 - Mail yang dikirim user dalam local host akan dikirim ke alamat yang di-masquerading
-

Konfigurasi Server dan Client

- ❑ Sendmail dapat digunakan sebagai sebuah :
 - Mail server- menangani email dari berbagai macam host dalam satu jaringan
 - Mail client- mengatur email untuk user local dalam host-host di jaringan
 - ❑ 3 konfigurasi umum Sendmail
 - Konfigurasi sendmail sebagai konfigurasi simple network
 - Konfigurasi sendmail sebagai sentralisasi Mail server
 - Konfigurasi sendmail sebagai station dengan koneksi ISP langsung
-

Konfigurasi Sendmail Sederhana

□ Kasus

- Menggunakan Sendmail untuk mengirim message ke host lain dalam satu jaringan
- agus@test1.ac.id ke budi@test2.ac.id

□ Tahapan

- Jalankan server sendmail masing-masing host
 - Pilih salah host untuk menjadi Message Relaying
 - Edit dan ubah file sendmail.mc
-

Konfigurasi Sendmail Sebagai Central Mail Server

☐ Kasus

- Mail client dapat mengirimkan message mereka ke pusat Mail server
- Mail dapat diterima oleh mail server

☐ Tahapan

- Buat pusat mail server berjalan di gateway
 - Masing-masing client jalankan sendmail sebagai client
 - Masquerade semua mail yang hanya menggunakan domain address bukan host address
 - Enable POP atau IMAP untuk berjalan di server pada host gateway tadi
-

Konfigurasi Langsung Workstation dengan ISP

□ Kasus

- Sebuah linux yang bukan bagian jaringan tapi punya koneksi langsung dari sebuah ISP internet
- Menggunakan mail server ISP untuk mengirim dan menerima email

□ Tahapan

- Berikan **DAEMON_OPTIONS** option

```
dn1 DAEMON_OPTIONS('Port=smtp,Addr=127.0.0.1,  
Name=MTA')dn1
```

- Gunakan mail server ISP dengan pilihan **SMART_HOST**

```
define ('SMART_HOST', 'smtp:mail.my-isp.com')dn1
```

POP Server

- ❑ Protokol POP menangani mail sampai user mengakses account mereka di POP server
 - ❑ Ketika user mengakses message mereka dari komputer manapun
 - ❑ Macam-macam POP server
 - Courier-pop
 - Qpopper
-

POP Server

- ❑ Server daemon disebut **ipop2d** dan **ipop3d**
 - POP3 server menggunakan **ipop3** file dalam **/etc/xinetd.c**
 - Jalankan di server menggunakan chkconfig
chkconfig ipop3 on
 - ❑ Untuk menambah user tambahkan cara tambah standar POP3 server
 - Tidak perlu mensetup sebuah home direktori
-

IMAP Server

- ❑ Keuntungan IMAP server
 - Menyimpan
 - ❑ IMAP Server produksi Universitas Washington disebut **imapd**
 - Menggunakan file imap di **/etc/xinet.d**
 - Cara menjalankan dengan **chkconfig**
- #chkconfig imap on:**
-

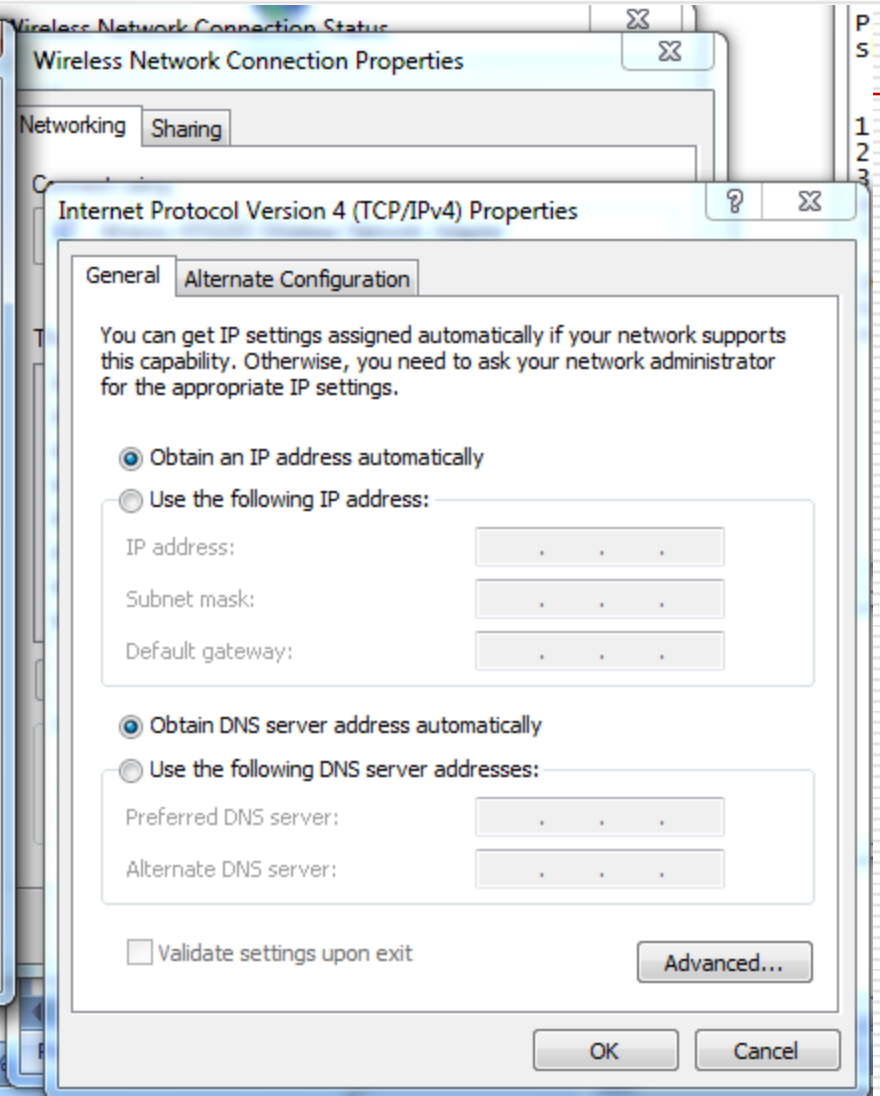
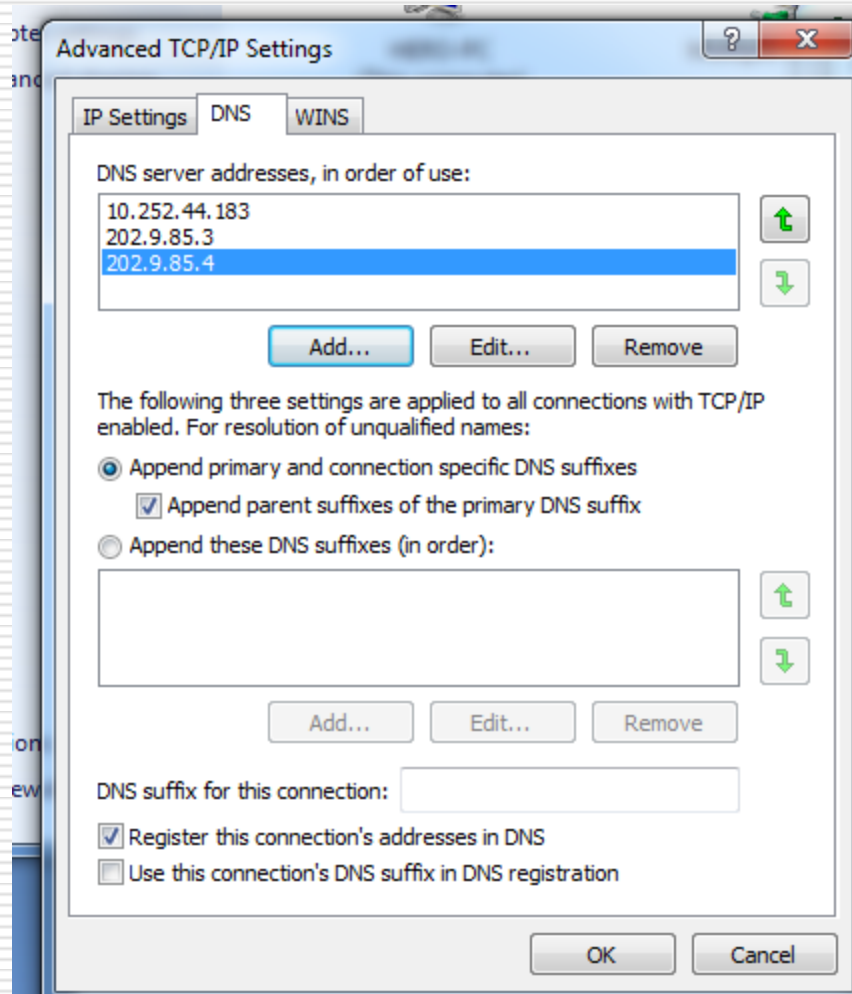
Kesimpulan

- ❑ Modul ini kita telah belajar tentang
 - Over view mail server
 - Penerimaan Mail : MX record
 - Bagaimana Sendmail bekerja
 - Konfigurasi sendmail
 - Fitur sendmail
 - Konfigurasi server dan client
 - POP server
 - IMAP server
-

Latihan Soal

1. Sebutkan langkah-langkah instalasi MTA lain dalam hal ini Postfix.
 2. Sebutkan file konfigurasi dari Postfix dan sebutkan fitur yang terkandung didalamnya !
 3. Sebutkan arti dari virtual user dan virtual host !
 4. Tunjukkan bagaimana pembuatan virtual user dan virtual host
 5. Sebutkan aplikasi mailing list yang ada
-

Praktikum Admin Jaringan




See full map

Wireless Network Connection Status

General


Connection


IPv4 Connectivity: Internet
IPv6 Connectivity: No network access
Media State: Enabled
SSID: BC128
Duration: 10 days 13:48:22
Speed: 150.0 Mbps
Signal Quality: 


Details...

Wireless Properties

Activity

Sent —  Received
Bytes: 141,095,129 | 400,568,026

 Properties

 Disable

Diagnose

Close

Network Connection Details

Network Connection Details:

Property	Value
Connection-specific DN...	eepis-its.edu
Description	Atheros AR9285 Wireless Network Ac
Physical Address	1C-4B-D6-A8-25-FF
DHCP Enabled	Yes
IPv4 Address	10.252.44.112
IPv4 Subnet Mask	255.255.255.0
Lease Obtained	Tuesday, October 25, 2011 6:07:16 A
Lease Expires	Tuesday, October 25, 2011 7:47:29 A
IPv4 Default Gateway	10.252.44.1
IPv4 DHCP Server	202.9.85.3
IPv4 DNS Servers	10.252.44.183 202.9.85.3 202.9.85.4
IPv4 WINS Server	
NetBIOS over Tcpip En...	Yes
Link-local IPv6 Address	fe80::7914:b78d:3975:8ef0%11

Close

root@ubuntu: /etc/bind

```
// prime the server with knowledge of the root servers
zone "." {
    type hint;
    file "/etc/bind/db.root";
};
```

```
// be authoritative for the localhost for
// broadcast zones as per RFC 1912
```

```
zone "localhost" {
    type master;
    file "/etc/bind/db.local";
};
```

```
zone "127.in-addr.arpa" {
    type master;
    file "/etc/bind/db.127";
};
```

```
zone "0.in-addr.arpa" {
    type master;
    file "/etc/bind/db.0";
};
```

```
zone "255.in-addr.arpa" {
    type master;
    file "/etc/bind/db.255";
};
```

```
include "/etc/bind/named.conf.local";
root@ubuntu:/etc/bind#
```

root@ubuntu: /etc/bind

```
//
// Consider adding the 1918 zones here, if they are not used in your
// organization
//include "/etc/bind/zones.rfc1918";

//di lab Comvis
zone "training.com" IN {
    type master;
    file "/var/cache/bind/db.training3";
};

zone "44.252.10.in-addr.arpa" IN {
    type master;
    file "/var/cache/bind/db.183";
};

//di lab jarkom 10.252.108.69
//zone "training.com" IN {
//type master;
```

root@ubuntu: /var/cache/bind

```
root@ubuntu:/etc/bind# cd /var/cache/bind/
root@ubuntu:/var/cache/bind# ls
db.179 db.231 db.69 db.training db.training2
db.183 db.244 db.72 db.training1 db.training3
root@ubuntu:/var/cache/bind#
```

```

root@ubuntu: /var/cache/bind
; BIND reverse data file for local loopback interface
;
$TTL      604800
@         IN      SOA      training.com. root.training.com. (
                                1          ; Serial
                                604800     ; Refresh
                                86400      ; Retry
                                2419200    ; Expire
                                604800 )   ; Negative Cache TTL
;
@         IN      NS       ns1.training.com.
@         IN      MX       10      mail.training.com.
www       IN      A        10.252.44.183
mail      IN      A        10.252.44.183
milis     IN      A        10.252.44.183

root@ubuntu:/var/cache/bind# cat db.training3

```

```

root@ubuntu: /var/cache/bind
; BIND reverse data file for local loopback interface
;
$TTL      604800
@         IN      SOA      training.com. root.training.com. (
                                1          ; Serial
                                604800     ; Refresh
                                86400      ; Retry
                                2419200    ; Expire
                                604800 )   ; Negative Cache TTL
;
@         IN      NS       ns1.training.com.
183       IN      PTR      ns1.training.com.
183       IN      PTR      www.training.com.
183       IN      PTR      mail.training.com.
183       IN      PTR      milis.training.com.

root@ubuntu:/var/cache/bind# cat db.183

```

```

root@ubuntu: /var/cache/bind
root@ubuntu:/var/cache/bind# cp /etc/resolv.conf /etc/resolv.conf.edit
root@ubuntu:/var/cache/bind#
root@ubuntu:/var/cache/bind# cat /etc/resolv.conf
nameserver 10.252.44.183
nameserver 202.9.85.3
nameserver 202.9.85.4
domain eepis-its.edu
search eepis-its.edu
root@ubuntu:/var/cache/bind#

```

root@ubuntu: /var/cache/bind

```
root@ubuntu:/var/cache/bind# cat /etc/resolv.conf
```

```
nameserver 10.252.44.183
```

```
domain training.com
```

```
root@ubuntu:/var/cache/bind# ifconfig eth0
```

```
eth0      Link encap:Ethernet  HWaddr 00:0c:29:4e:0b:db  
          inet addr:10.252.44.183  Bcast:10.252.44.255  Mask:255.255.255.0  
          inet6 addr: fe80::20c:29ff:fe4e:bdb/64 Scope:Link  
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1  
          RX packets:8987 errors:0 dropped:0 overruns:0 frame:0  
          TX packets:2759 errors:0 dropped:0 overruns:0 carrier:0  
          collisions:0 txqueuelen:1000  
          RX bytes:709571 (709.5 KB)  TX bytes:376224 (376.2 KB)  
          Interrupt:18 Base address:0x2000
```

```
root@ubuntu:/var/cache/bind# nslookup 10.252.44.183
```

```
Server:      10.252.44.183  
Address:     10.252.44.183#53
```

```
183.44.252.10.in-addr.arpa    name = ns1.training.com.  
183.44.252.10.in-addr.arpa    name = www.training.com.  
183.44.252.10.in-addr.arpa    name = mail.training.com.  
183.44.252.10.in-addr.arpa    name = milis.training.com.
```

```
root@ubuntu:/var/cache/bind# nslookup mail.training.com
```

```
Server:      10.252.44.183  
Address:     10.252.44.183#53
```

```
Name:  mail.training.com  
Address: 10.252.44.183
```

```
root@ubuntu:/var/cache/bind#
```

root@ubuntu: /var/cache/bind

```

root@ubuntu:/var/cache/bind# apt-get install postfix
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  binutils gcc-4.5-base libc-bin libc-dev-bin libc6 libc6-dev libdb4.8 libssl0.9.8 libstdc++6
Suggested packages:
  binutils-doc glibc-doc procmail postfix-mysql postfix-pgsql postfix-ldap postfix-pcre sasl2-bin resolvconf
  postfix-cdb
Recommended packages:
  manpages-dev
The following packages will be REMOVED:
  libc6-i686
The following NEW packages will be installed:
  gcc-4.5-base libc-bin libc-dev-bin libdb4.8
The following packages will be upgraded:
  binutils libc6 libc6-dev libssl0.9.8 libstdc++6 postfix
6 upgraded, 4 newly installed, 1 to remove and 1126 not upgraded.
Need to get 15.4MB of archives.
After this operation, 1991kB disk space will be freed.
Do you want to continue [Y/n]? █

```

```
root@ubuntu: /var/cache/bind

root@ubuntu:/var/cache/bind# apt-get install courier-imap
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  courier-authlib courier-base libltdl7
Suggested packages:
  courier-doc courier-imap-ssl
The following packages will be upgraded:
  courier-authlib courier-base courier-imap libltdl7
4 upgraded, 0 newly installed, 0 to remove and 1128 not upgraded.
Need to get 1229kB of archives.
After this operation, 53.2kB of additional disk space will be used.
Do you want to continue [Y/n]? █
```

```
ations  Slide Show  Review  View

root@ubuntu: /var/cache/bind

root@ubuntu:/var/cache/bind# apt-get install courier-pop
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  courier-authlib courier-base libltdl7
Suggested packages:
  courier-doc courier-pop-ssl
The following packages will be upgraded:
  courier-authlib courier-base courier-pop libltdl7
4 upgraded, 0 newly installed, 0 to remove and 1128 not upgraded.
Need to get 682kB of archives.
After this operation, 49.2kB of additional disk space will be used.
Do you want to continue [Y/n]? █
```

root@ubuntu: /var/www

```
root@ubuntu:/var/cache/bind# cd /
root@ubuntu:/# cd /var/www/
root@ubuntu:/var/www# ls
index.html  index.php  mail  mailman  php  www
root@ubuntu:/var/www# cat /etc/apache2/sites-available/
default      default-ssl  hero      mail      www
root@ubuntu:/var/www# cat /etc/apache2/sites-available/mail
<VirtualHost *:80>
    ServerAdmin webmaster@localhost
    ServerName mail.training.com
    DocumentRoot /var/www/mail
    <Directory />
        Options FollowSymLinks
        AllowOverride None
    </Directory>
    <Directory /var/www/>
        Options Indexes FollowSymLinks MultiViews
        AllowOverride None
        Order allow,deny
        allow from all
    </Directory>

    ScriptAlias /cgi-bin/ /usr/lib/cgi-bin/
    <Directory "/usr/lib/cgi-bin">
        AllowOverride None
        Options +ExecCGI -MultiViews +SymLinksIfOwnerMatch
        Order allow,deny
        Allow from all
    </Directory>

    ErrorLog /var/log/apache2/error.log

    # Possible values include: debug, info, notice, warn, error, crit,
    # alert, emerg.
```



SquirrelMail

webmail
for
nuts

SquirrelMail version 1.4.15
By the SquirrelMail Project Team

SquirrelMail Login

Name:

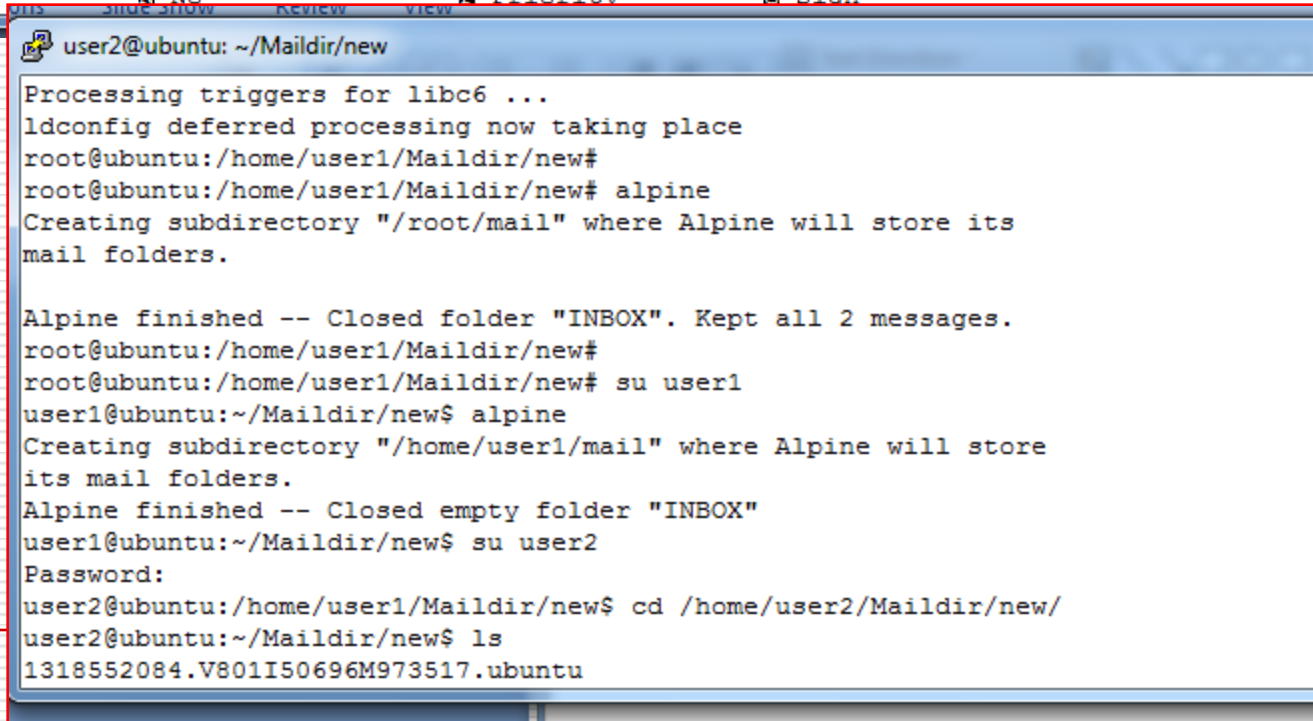
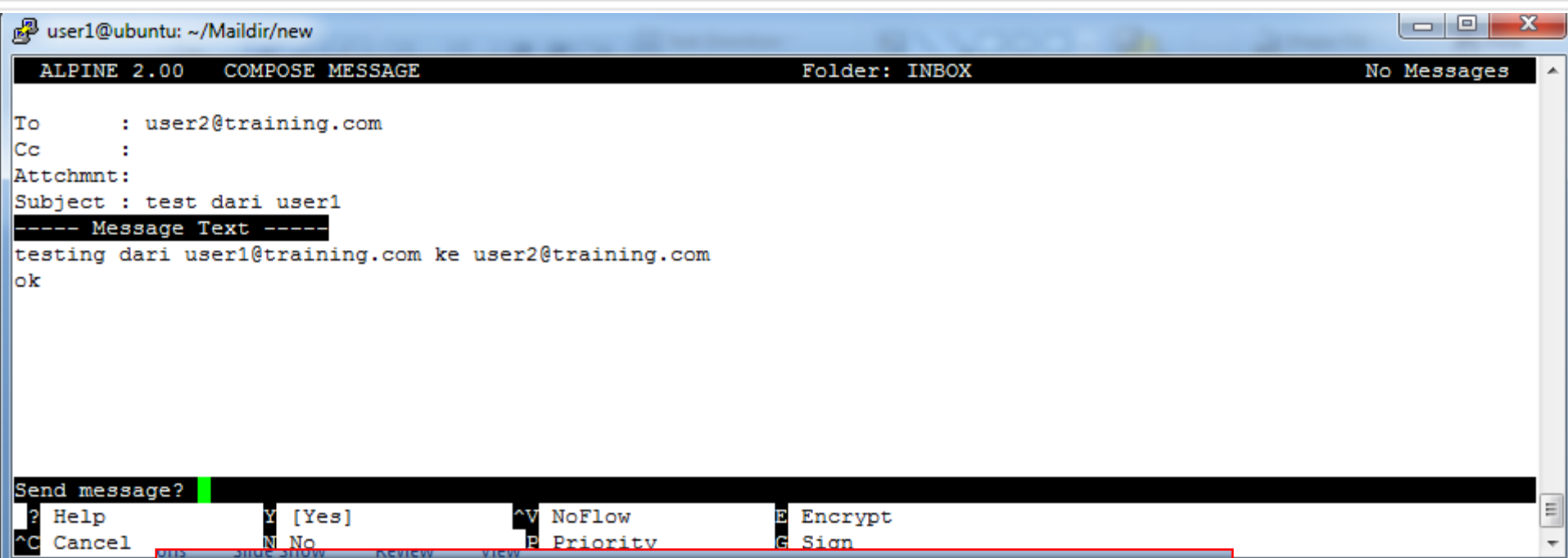
Password:

Login


```
root@ubuntu: /home/user1/Maildir/new
root@ubuntu:/var/www# ls /etc/skel/
examples.desktop  Maildir
root@ubuntu:/var/www# ls /home/
ftp/      hero/      user1/     user2/     virtual/  yudo/
root@ubuntu:/var/www# ls /home/ls /home/user1/
ls: cannot access /home/ls: No such file or directory
/home/user1/:
examples.desktop  Maildir
root@ubuntu:/var/www# ls /home/user2/
examples.desktop  Maildir
root@ubuntu:/var/www# ls /home/user1/
examples.desktop  Maildir
root@ubuntu:/var/www# pwd
/var/www
root@ubuntu:/var/www# cd /home/user1/Maildir/
root@ubuntu:/home/user1/Maildir# ls
courierimapkeywords  courierimapsubscribed  courierimapuidb  cur  new  tmp
root@ubuntu:/home/user1/Maildir# cd new/
root@ubuntu:/home/user1/Maildir/new# cd cur
bash: cd: cur: No such file or directory
root@ubuntu:/home/user1/Maildir/new# ls ../cur/
1291080759.V801I505e8M721857.ubuntu:2,S  1292440195.V801I5036bM507746.ubuntu:2,S
1291093118.V801I505d7M186492.ubuntu:2,    1292440286.V801I50631M254454.ubuntu:2,S
1292439129.V801I5063eM706775.ubuntu:2,S
root@ubuntu:/home/user1/Maildir/new# ls ../new/
root@ubuntu:/home/user1/Maildir/new#
```

root@ubuntu: /home/user1/Maildir/new

```
root@ubuntu:/home/user1/Maildir/new# apt-cache search pine|grep mail|more
fetchmail - SSL enabled POP3, APOP, IMAP mail gatherer/forwarder
lbdb - The little brother's database for the mutt mail reader
mutt - text-based mailreader supporting MIME, GPG, PGP and threading
alpine - Text-based email client, friendly for novices but powerful
alpine-dbg - Text-based email client's debugging symbols
alpine-pico - Simple text editor from Alpine, a text-based email client
libmail-cclient-perl - Interface to UW c-client library
pilot - Simple file browser from Alpine, a text-based email client
sanitizer - The Anomy Mail Sanitizer - an email virus scanner
root@ubuntu:/home/user1/Maildir/new# apt-get install alpine
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  libgssapi-krb5-2 libk5crypto3 libkrb5-3 libkrb5support0 libssl10.9.8
Suggested packages:
  krb5-doc krb5-user
The following NEW packages will be installed:
  alpine libgssapi-krb5-2 libk5crypto3 libkrb5-3 libkrb5support0
The following packages will be upgraded:
  libssl10.9.8
1 upgraded, 5 newly installed, 0 to remove and 1131 not upgraded.
Need to get 4396kB of archives.
After this operation, 3199kB of additional disk space will be used.
Do you want to continue [Y/n]? y
```



```
user2@ubuntu: ~/Maildir/new
cat: 1: No such file or directory
user2@ubuntu:~/Maildir/new$ cat 1318552084.V801I50696M973517.ubuntu
Return-Path: <user1@ubuntu.eepis-its.edu>
X-Original-To: user2@training.com
Delivered-To: user2@training.com
Received: by ubuntu.eepis-its.edu (Postfix, from userid 1001)
        id E16574CAC3; Fri, 14 Oct 2011 07:28:04 +0700 (WIT)
Received: from localhost (localhost [127.0.0.1])
        by ubuntu.eepis-its.edu (Postfix) with ESMTP id D271D4CAC2
        for <user2@training.com>; Fri, 14 Oct 2011 07:28:04 +0700 (WIT)
Date: Fri, 14 Oct 2011 07:28:04 +0700 (WIT)
From: user1@ubuntu.eepis-its.edu
To: user2@training.com
Subject: test dari user1
Message-ID: <alpine.DEB.2.00.1110140726550.8465@ubuntu.eepis-its.edu>
User-Agent: Alpine 2.00 (DEB 1167 2008-08-23)
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; format=flowed; charset=US-ASCII

testing dari user1@training.com ke user2@training.com
ok

user2@ubuntu:~/Maildir/new$ pwd
/home/user2/Maildir/new
user2@ubuntu:~/Maildir/new$
```

SquirrelMail 1.4.15 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://mail.training.com/src/webmail.php

SpeedBit Search

Video jadwal+timnas+u+23 Search Download video amazon.com Translate webpage jadwal+timnas+u+23

Program Pe... EEPIS Mail S... Internationa... Squirrel... x Absensi Per... jadwal timn... Timnas Ind... Inilah Jadwa... Sederet.co... You Tube VOA Learni... Cara paling ... > matahari<... Kamus Ba > +

Folders

Last Refresh: Fri, 7:33 am (Check mail)

- INBOX (8)
 - Drafts
 - Sent
 - Trash

Current Folder: INBOX

[Compose](#) [Addresses](#) [Folders](#) [Options](#) [Search](#) [Help](#) [Sign Out](#) [SquirrelMail](#)


[Toggle All](#) Viewing Messages: 1 to 15 (15 total)

Move Selected To: INBOX ▾

Transform Selected Messages:

From	Date	Subject
<input type="checkbox"/> user1@ubuntu.eepis-its.edu	7:28 am	test dari user1
<input type="checkbox"/> user1@mail.training.com	Dec 16, 2010	[Milis1] milis1@mail.training.com
<input type="checkbox"/> milis1-request@mail.training.com	Dec 16, 2010	Welcome to the "Milis1" mailing list
<input type="checkbox"/> user1@mail.training.com	Dec 14, 2010	user2@virtual1.com
<input type="checkbox"/> user1@mail.training.com	Dec 14, 2010	user2
<input type="checkbox"/> user1@mail.training.com	Dec 14, 2010	user2@virtual2.com
<input type="checkbox"/> user1@mail.training.com	Dec 14, 2010	user2@virtual2.com
<input type="checkbox"/> user1@mail.training.com	Dec 14, 2010	virtual1.com
<input type="checkbox"/> user1@mail.training.com	Dec 14, 2010	@mail.training.com
<input type="checkbox"/> user1@mail.training.com	Dec 1, 2010	virtual3.com - 1
<input type="checkbox"/> user1@mail.training.com	Dec 1, 2010	virtual2.com
<input type="checkbox"/> user1@mail.training.com	Dec 1, 2010	coba 1
<input type="checkbox"/> user1@mail.training.com	Nov 30, 2010	test
<input type="checkbox"/> user1@mail.training.com	Nov 30, 2010	test user1-2
<input type="checkbox"/> user1@mail.training.com	Nov 30, 2010	test

[Toggle All](#)



SquirrelMail
webmail
for
nuts

SquirrelMail version 1.4.15
By the SquirrelMail Project Team

SquirrelMail Login

Name:

Password:

```
root@ubuntu: /etc/postfix

mailbox_size_limit = 0
recipient_delimiter = +
inet_interfaces = all
home_mailbox=Maildir/

#virtual_alias_domains= virtual2.com
#virtual_alias_maps =hash:/etc/postfix/virtual2

virtual_mailbox_domains=virtual3.com
virtual_mailbox_base=/var/mail/vhosts
virtual_mailbox_maps= hash:/etc/postfix/virtual3
#virtual_minimum_uid=100
virtual_uid_maps= static:1003
virtual_gid_maps= static:1003
#virtual_alias_maps= hash:/etc/postfix/virtual

#---virtual4.com
#virtual_transport=
virtual_mailbox_domains= virtual4.com
virtual_mailbox_base=/
virtual_mailbox_maps=hash:/etc/postfix/vmailbox4
virtual_alias_maps= hash:/etc/postfix/virtual4
```

```
root@ubuntu: /etc/postfix

root@ubuntu:/etc/postfix# cat virtual2
user2@virtual2.com user2
root@ubuntu:/etc/postfix#
root@ubuntu:/etc/postfix#
root@ubuntu:/etc/postfix# cat virtual3
info@virtual3.com      virtual3.com/info/
root@ubuntu:/etc/postfix#
root@ubuntu:/etc/postfix#
root@ubuntu:/etc/postfix# cat virtual4
info4@virtual4.com      hero@eepis-its.edu
root@ubuntu:/etc/postfix#
root@ubuntu:/etc/postfix#
root@ubuntu:/etc/postfix#
```

```
root@ubuntu: /etc/postfix

root@ubuntu:/etc/postfix# ls
dynamicmaps.cf  master.cf      sasl          virtual3      virtual.db
main.cf         postfix-files  virtual       virtual3.db   vmmailbox
main.cf.1      postfix-script virtual2       virtual4      vmmailbox4
main.cf.asli   post-install   virtual2.db   virtual4.db   vmmailbox4.db
root@ubuntu:/etc/postfix#
```

SquirrelMail 1.4.15 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://mail.training.com/src/webmail.php

Video jadwal+timnas+u+23 Search Download video amazon.com Translate webpage jadwal+timnas+

Program Pe... EEPIS Mail S... Internationa... Squirrel... x Absensi Per... jadwal timn... Timnas Ind... Inilah

Folders
Last Refresh:
Fri, 7:33 am
(Check mail)

- **INBOX** (8)
- Drafts
- Sent
- Trash

Current Folder: **INBOX**

[Compose](#) [Addresses](#) [Folders](#) [Options](#) [Search](#) [Help](#)

[Message List](#) | [Delete](#) [Previous](#)

Subject: user2@virtual2.com
From: user1@mail.training.com
Date: Tue, December 14, 2010 6:30 pm
To: user2@virtual2.com
Priority: Normal
Options: [View Full Header](#) | [View Printable Version](#) | [Download this as a file](#)

user2@virtual2.com

Browser address bar: <https://mail.eepis-its.edu/zimbra/#1>

Browser tabs: Program Pe..., EEPIS Ma... x, Internationa..., SquirrelMail..., Absensi Per..., jadwal timn..., Timnas Ind..., Inilah Jadwa..., Sederet.co...

EEPIS Webmail

Navigation bar: Mail, Address Book, Calendar, Tasks, Briefcase, Preferences, Social

Left sidebar:

- Folders
 - Inbox (1)
 - Sent
 - Drafts (4)
 - Junk (2)
 - Trash
 - dosen IT
 - dosen pens
 - Goodle
 - id-vpn
 - Find Shares...
- Searches
- Tags
- Zimlets

Main content area:


Search bar: Search

Toolbar: New, Get Mail, Delete, Reply, Reply to All, Forward, Spam, View

	From	Subject
<input type="checkbox"/>	user1@mail.training.com	testing mail.training.com - user1@training.com ke hero@eepis-its.edu
<input type="checkbox"/>	Nana Ramadjanti	[Dosenit] Hasil Rapat SAP/AP ELearning Modul Interaktif D4LJPJJIT Smstr 3 Seamolec - I
<input type="checkbox"/>	Research	Fw: Call for Papers, International Conference on Management Research (ICMR), 2011 h
<input type="checkbox"/>	Rengga Asmara	Jadwal Kedatangan Tamu IES, TCT, TUT (Full Version) - dear all, bersama ini saya kirimk
<input type="checkbox"/>	Hero Yudo Martono	jepang - -- EEPIS - Bridge To The Future This email was sent using EEPIS Webmail https:
<input type="checkbox"/>	Hero, Dwi	Re: Poster - oh iya pak.... sama2... oh kalau masalah itu gampang pak... he... he...
<input type="checkbox"/>	Arif, Isbat, Edi	Re: Silahkan Lihat Video Sales Magic Saya Hehehehe - Hehehehe,BH Rasa Coklat Keju
<input type="checkbox"/>	Eko Henfri Binugroho	[Dosenpens] Undangan untuk berpartisipasi pada kegiatan IES 2011 - Salam, Demi sema
<input type="checkbox"/>	Rusminto Tjatur Widodo	[Dosenpens] Fwd: Invitation for submission of Research Article in IRRAS - Dear Doser
<input type="checkbox"/>	Eko Henfri Binugroho	[Dosenpens] Reminder - Rapat Koordinasi terakhir untuk Panitia & Moderator IES 2011 -

	From	Subject
<input type="checkbox"/>	user1@mail.training.com	testing mail.training.com - user1@training.com ke hero@eepis-its.edu
<input type="checkbox"/>	Nana Ramadijanti	[Dosenit] Hasil Rapat SAP/AP ELearning Modul Interaktif D4LJPJIT Smstr 3 Seamolec - Dear teman2 dosen IT,
<input type="checkbox"/>	Research	Fw: Call for Papers, International Conference on Management Research (ICMR), 2011 held on 15-16 Dec,2011
<input type="checkbox"/>	Rengga Asmara	Jadwal Kedatangan Tamu IES, TCT, TUT (Full Version) - dear all, bersama ini saya kirimkan file jadwal final unt
<input type="checkbox"/>	Hero Yudo Martono	jepang -- EEPIS - Bridge To The Future This email was sent using EEPIS Webmail https://mail.eepis-its.edu
<input type="checkbox"/>	Hero, Dwi	Re: Poster - oh iya pak.... sama2... oh kalau masalah itu gampang pak... he... he...
<input type="checkbox"/>	Arif, Isbat, Edi	Re: Silahkan Lihat Video Sales Magic Saya Hehehehe - Hehehehe,BH Rasa Coklat Keju hehehehe.....sebentar
<input type="checkbox"/>	Eko Henfri Binugroho	[Dosenpens] Undangan untuk berpartisipasi pada kegiatan IES 2011 - Salam, Demi semaraknya kegiatan IES, n
<input type="checkbox"/>	Rusminto Tjatur Widodo	[Dosenpens] Fwd: Invitation for submission of Research Article in IRRAS - Dear Dosen PENS, Barangkali ada
<input type="checkbox"/>	Eko Henfri Binugroho	[Dosenpens] Reminder - Rapat Koordinasi terakhir untuk Panitia & Moderator IES 2011 - Salam, Mengingatkan k

testing mail.training.com

▼ From:  user1@mail.training.com

To: hero@eepis-its.edu

user1@training.com ke hero@eepis-its.edu

