Minggu 13
Mail Server

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 dengam 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’)dnl
- Untuk me-masquerade semua host dalam local network
  - FEATURE(‘masquerade_entire_domain’)dnl
- Untuk me-masquerade bagian host atau domain
  - MASQUERADE_DOMAIN(‘mail.test.ac.id’)dnl

Contoh Sendmail Masquerading

- Tentukan domain/host list dalam sebuah file
  - **`MASQUERADE_DOMAIN_FILE('mydomains')dnl`**
- Masquerade sebagai sebuah ISP mail domain
  - **`MASQUERADE_AS(‘isp.com')dnl`**
    `MASQUERADE_DOMAIN(‘test.ac.id')dnl`
- Penerima (Recipient) masquerading
  - **`FEATURE(allmasquerade)dnl`**
  - 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 domaian 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

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

  - Gunakan mail server ISP dengan pilihan SMART_HOST

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

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 **/etx/xinet.d**
  - Cara menjalankan dengan **chkconfig**

  #chkconfig imap on:

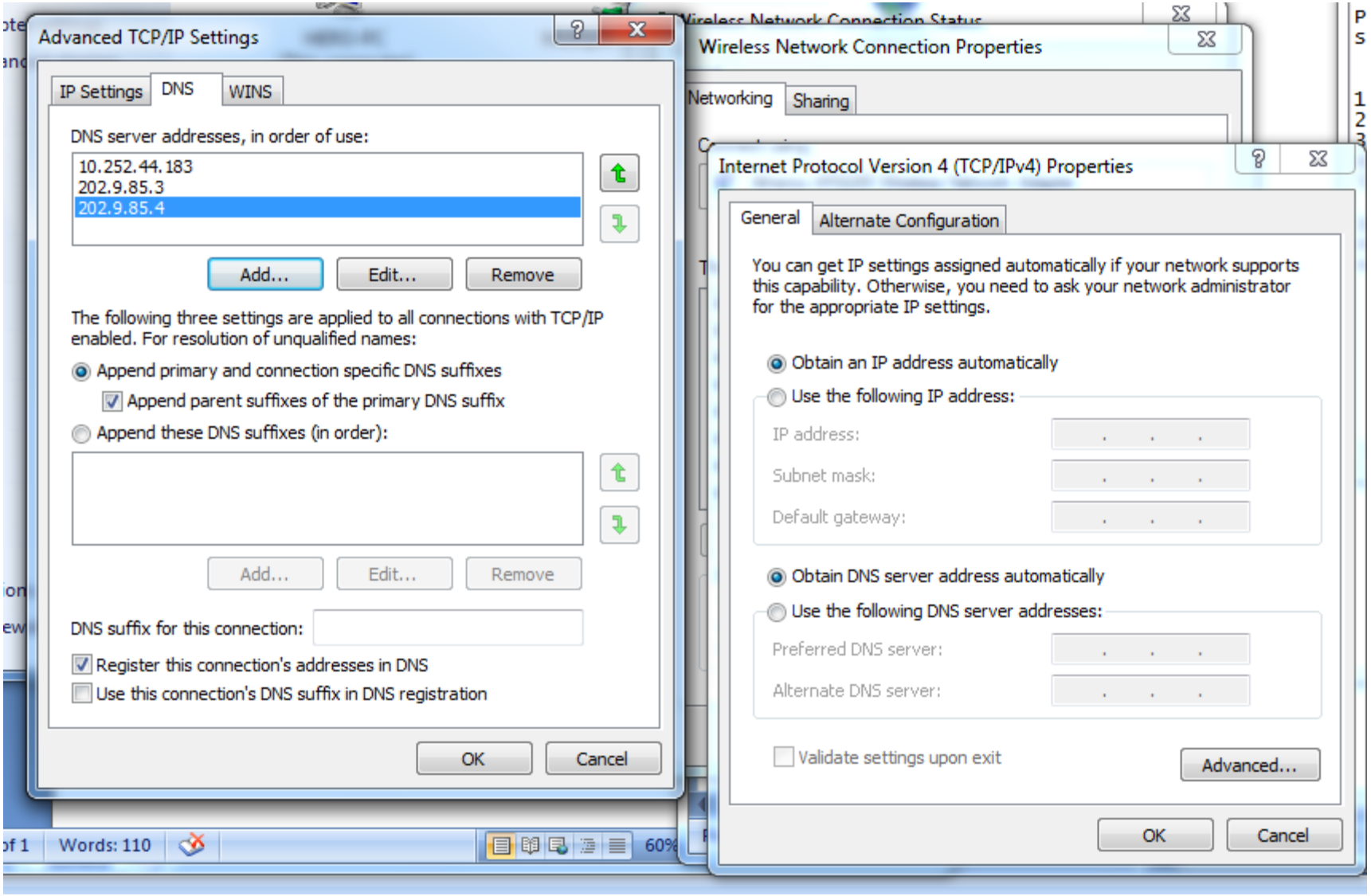
Kesimpulan

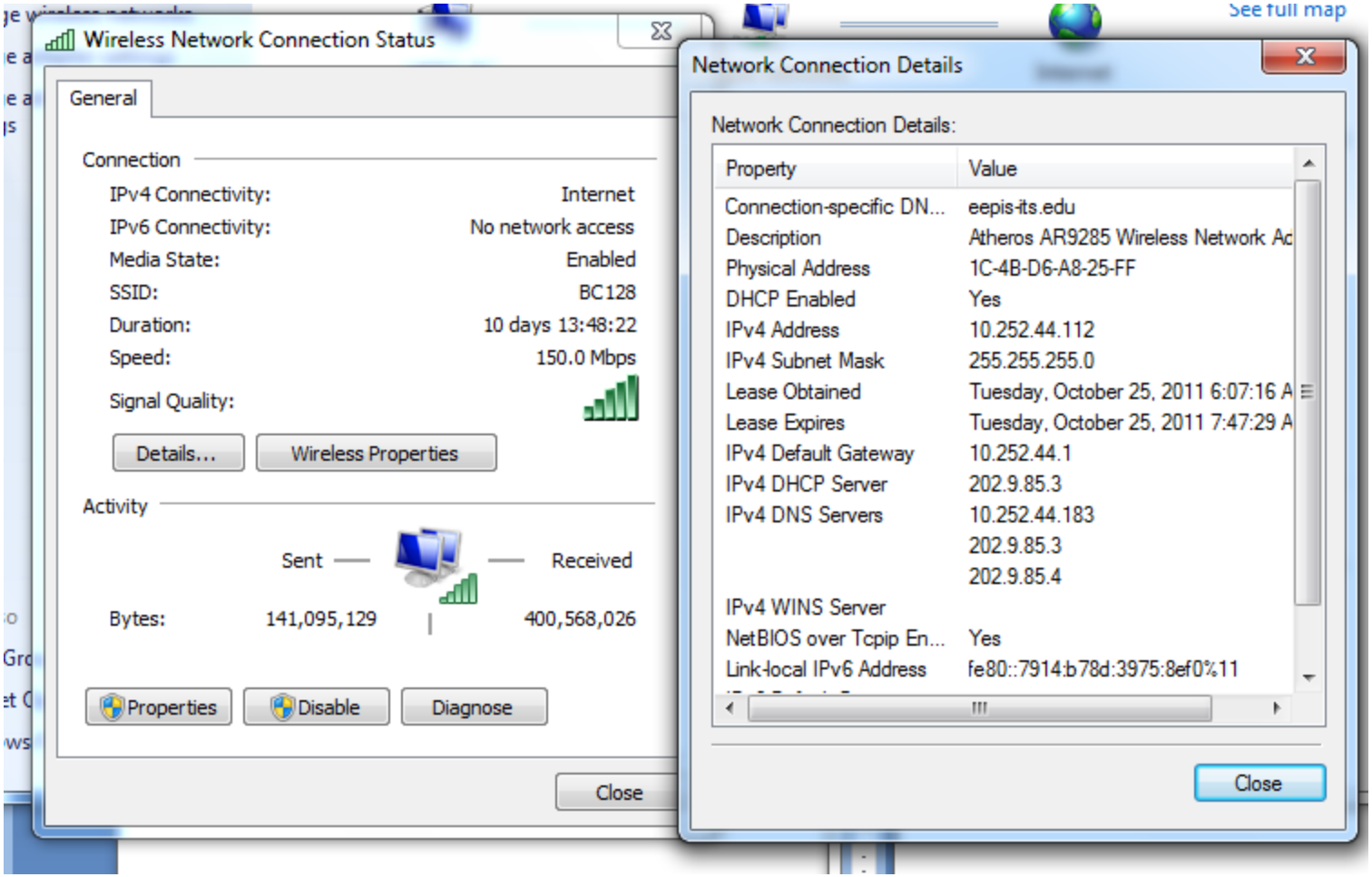
- Modul ini kita telah belajar tentang
  - Over view mail server
  - Penerimaan Mail : MX record
  - Bagaimana Sendmail bekerja
  - Konfigurasi sendmail
  - Fitur sendmail
  - Konfigurasi server dan client
  - POP server
  - IMAP server

Latihan Soal

1. Sebutkan langkah-langkah installasi 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


Advanced TCP/IP Settings
IP Settings
DNS
WINS
DNS server addresses, in order of use:
10.252.44.183
202.9.85.3
202.9.85.4
Add...
Edit...
Remove
The following three settings are applied to all connections with TCP/IP enabled. For resolution of unqualified names:
Append primary and connection specific DNS suffixes
Append parent suffixes of the primary DNS suffix
Append these DNS suffixes (in order):
Add...
Edit...
Remove
DNS suffix for this connection:
Register this connection's addresses in DNS
Use this connection's DNS suffix in DNS registration
OK
Cancel
Wireless Network Connection Properties
Networking
Sharing
Internet Protocol Version 4 (TCP/IPv4) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Validate settings upon exit
Advanced...
OK
Cancel
Words: 110
60%


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 Ad
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 Cach

@       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
```

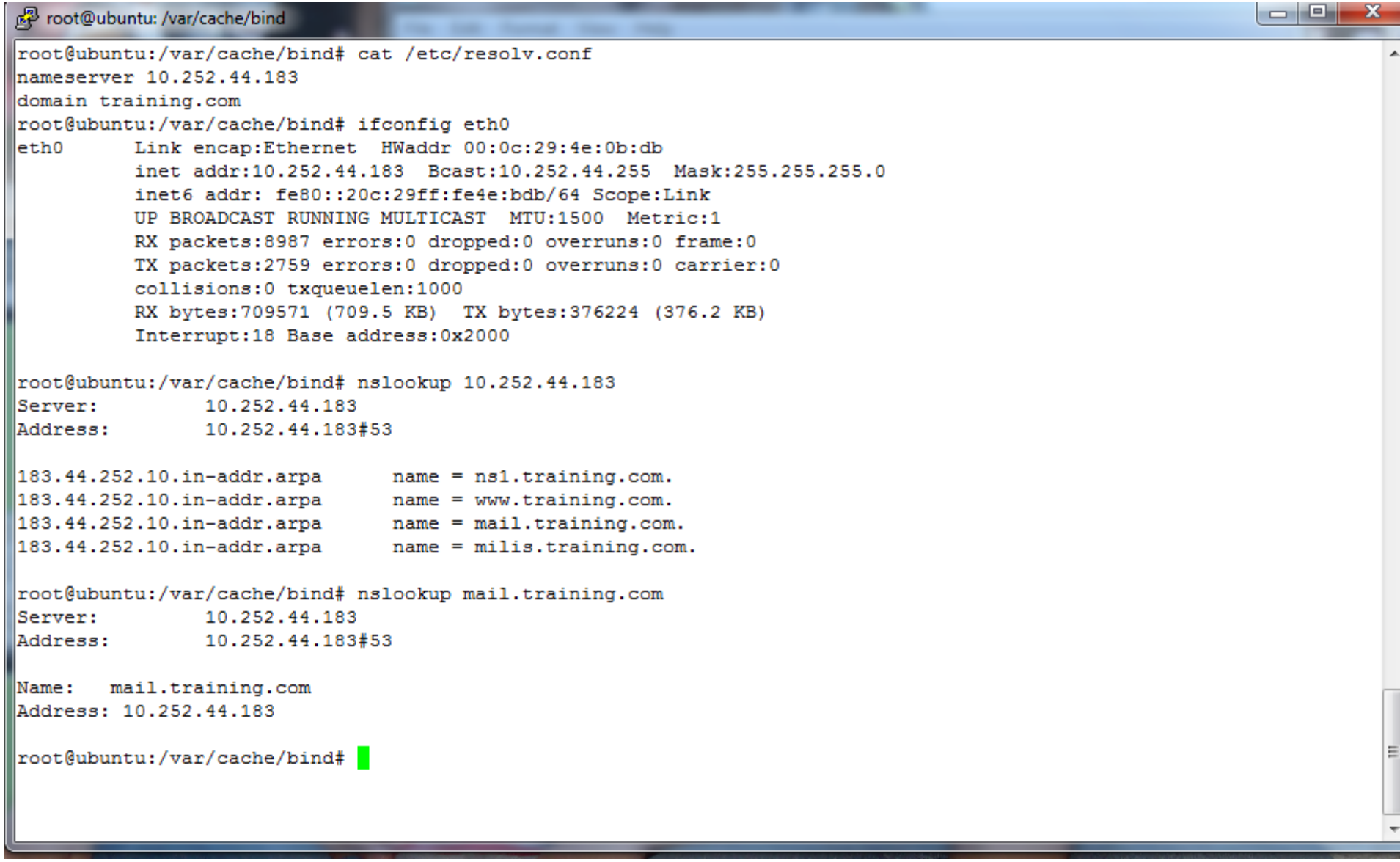
tions Slide Show Review View

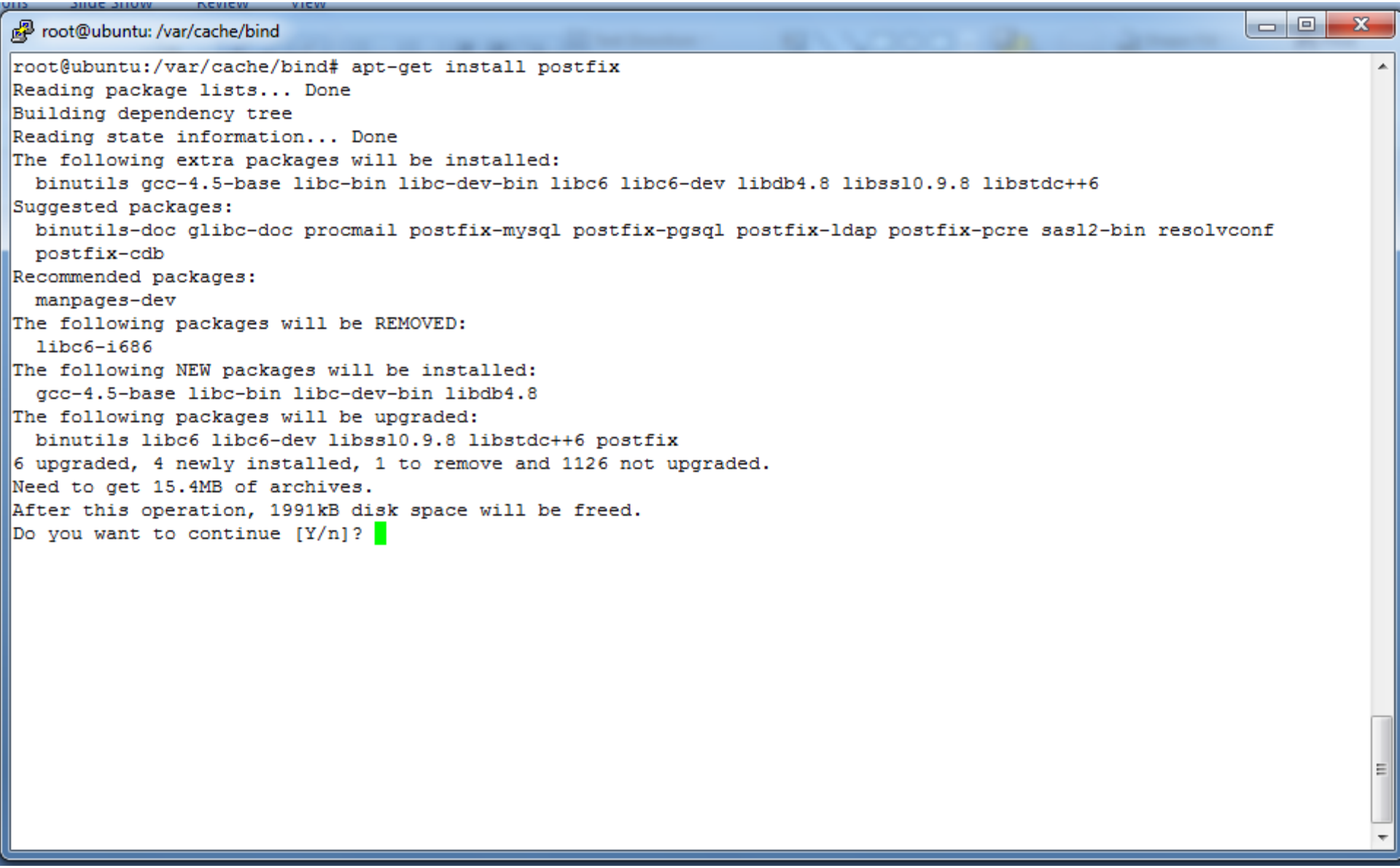
root@ubuntu: /var/cache/bind

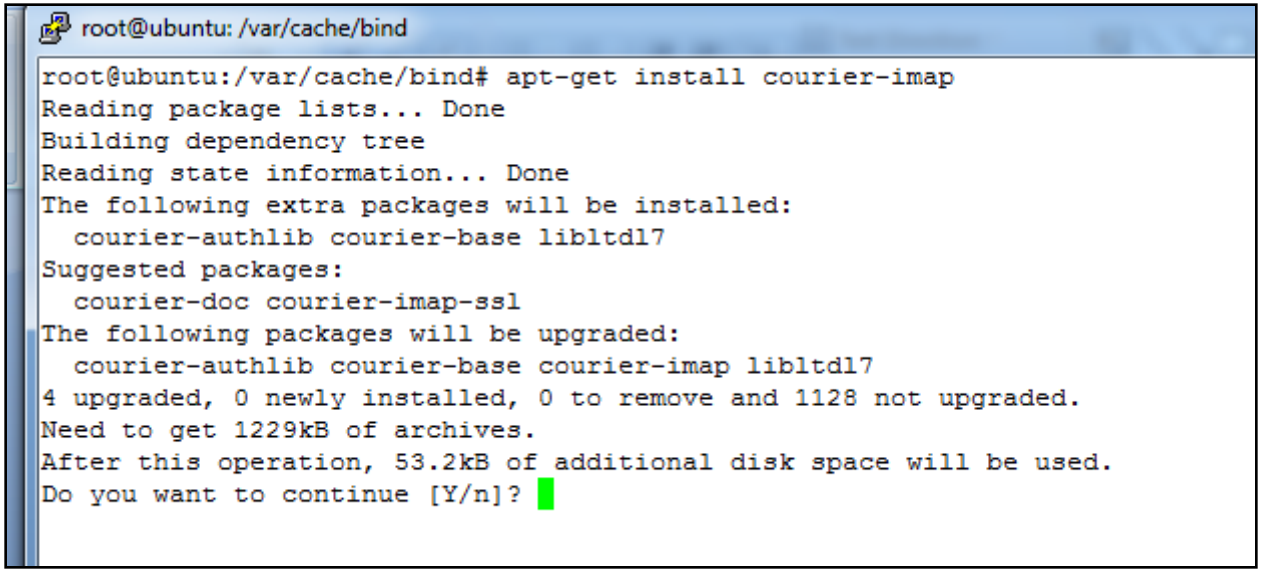
```
; BIND reverse data file for local loopback interface
;
$TTL    604800
@       IN      SOA     training.com. root.training.com. (
                              1         ; Serial
                         604800         ; Refresh
                          86400         ; Retry
                        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
```

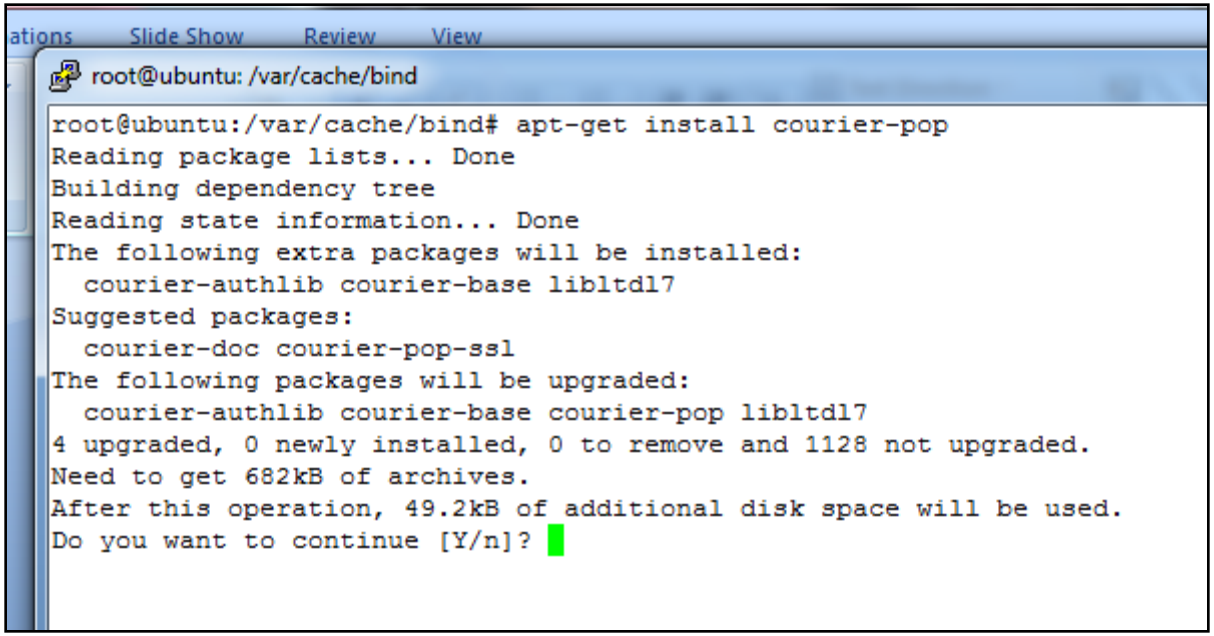
root@ubuntu: /var/cache/bind

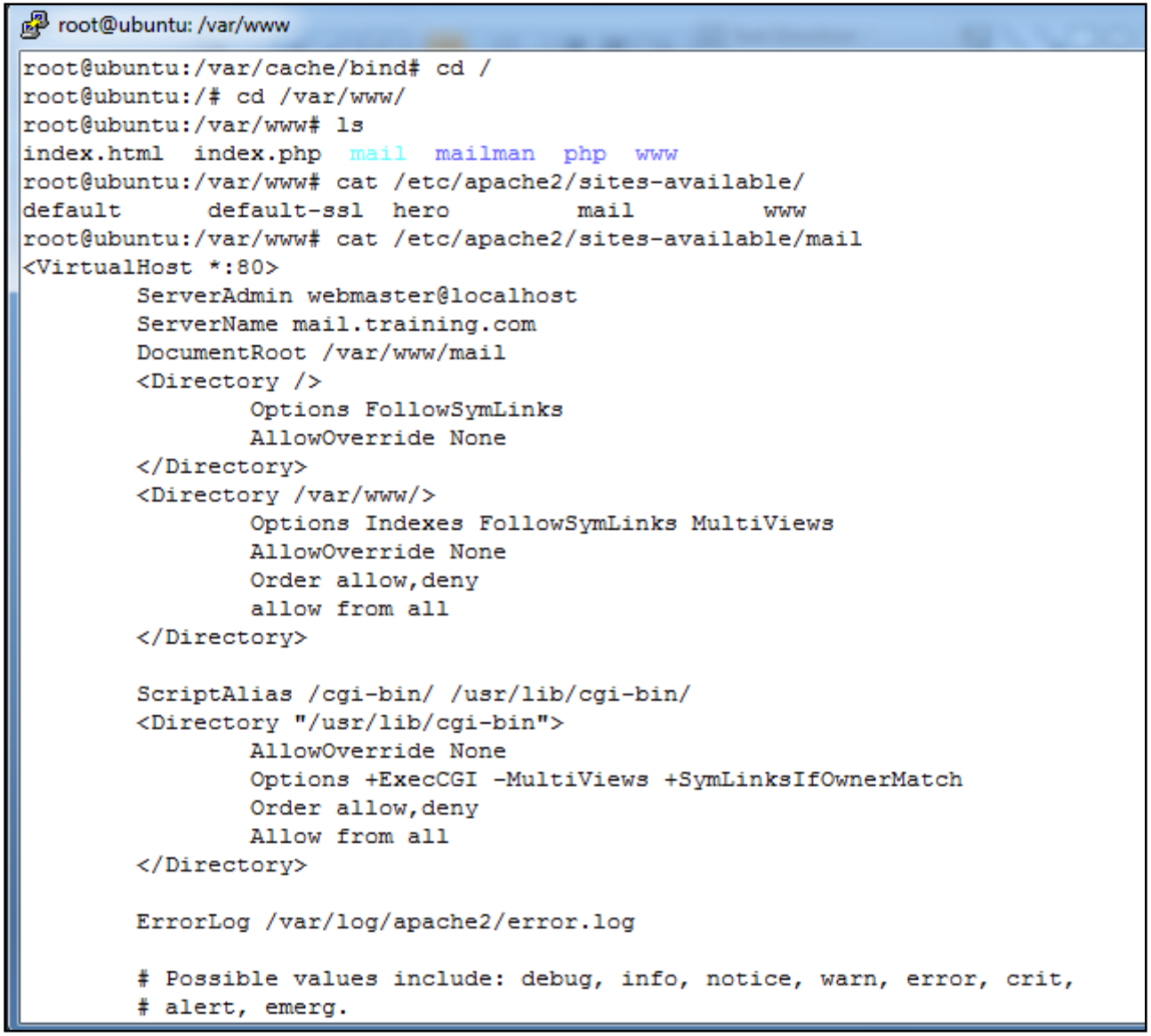
```
root@ubuntu:/var/cache/bind# cp /etc/resolv.conf /etc/resolv.conf.edit
root@ubuntu:/var/cache/bind#
root@ubuntu:/var/cache/bind# cat /etc/resolv.conf
nameserver 10.252.44.183
nameserver 202.9.85.3
nameserver 202.9.85.4
domain eepis-its.edu
search eepis-its.edu
root@ubuntu:/var/cache/bind#
```

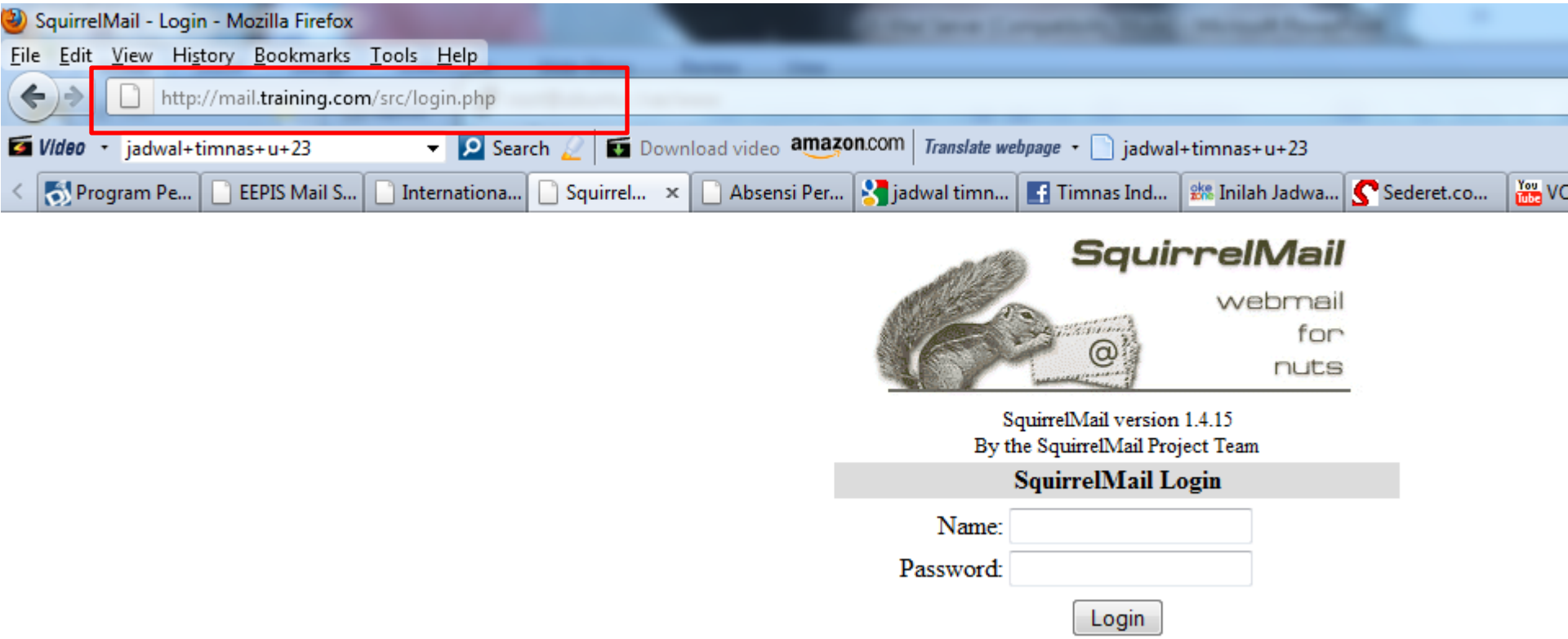

root@ubuntu: /var/cache/bind
root@ubuntu:/var/cache/bind# cat /etc/resolv.conf
nameserver 10.252.44.183
domain training.com
root@ubuntu:/var/cache/bind# ifconfig eth0
eth0 Link encap:Ethernet HWaddr 00:0c:29:4e:0b:db
inet addr:10.252.44.183 Bcast:10.252.44.255 Mask:255.255.255.0
inet6 addr: fe80::20c:29ff:fe4e:bdb/64 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#

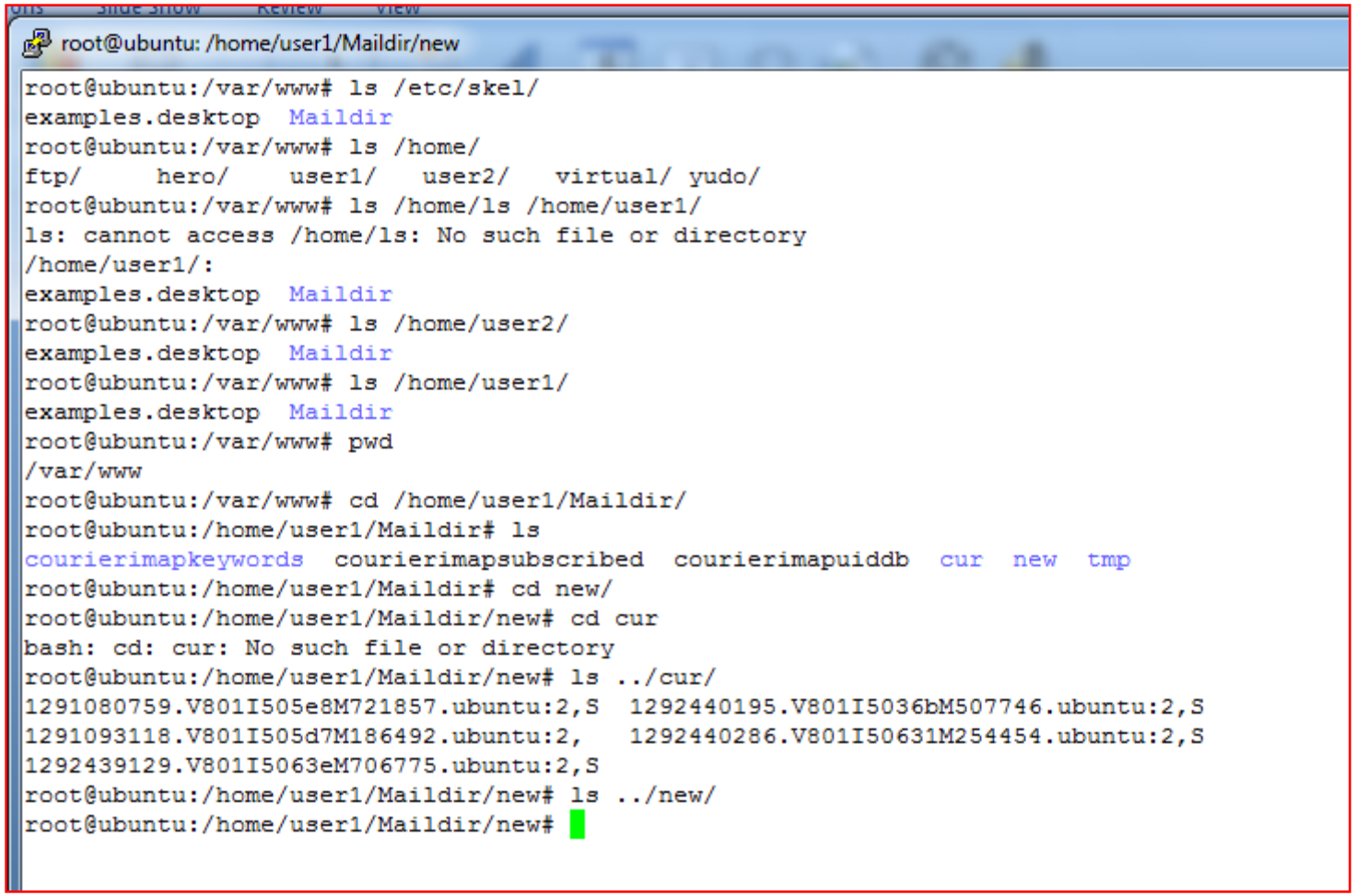

root@ubuntu: /var/cache/bind
root@ubuntu:/var/cache/bind# apt-get install postfix
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
binutils gcc-4.5-base libc-bin libc-dev-bin libc6 libc6-dev libdb4.8 libssl0.9.8 libstdc++6
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]?

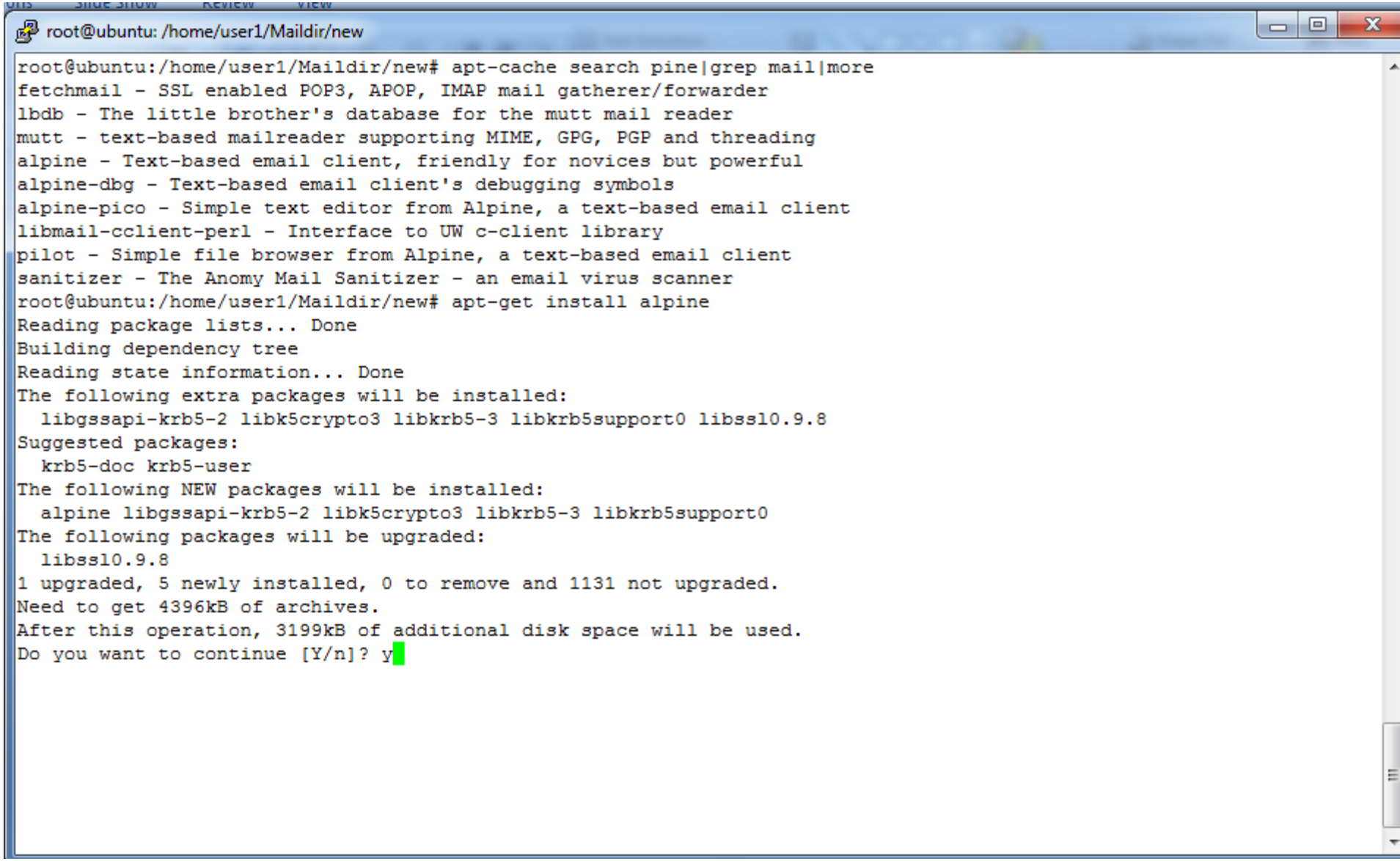

root@ubuntu: /var/cache/bind
root@ubuntu:/var/cache/bind# apt-get install courier-imap
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
courier-authlib courier-base libltdl7
Suggested packages:
courier-doc courier-imap-ssl
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]?

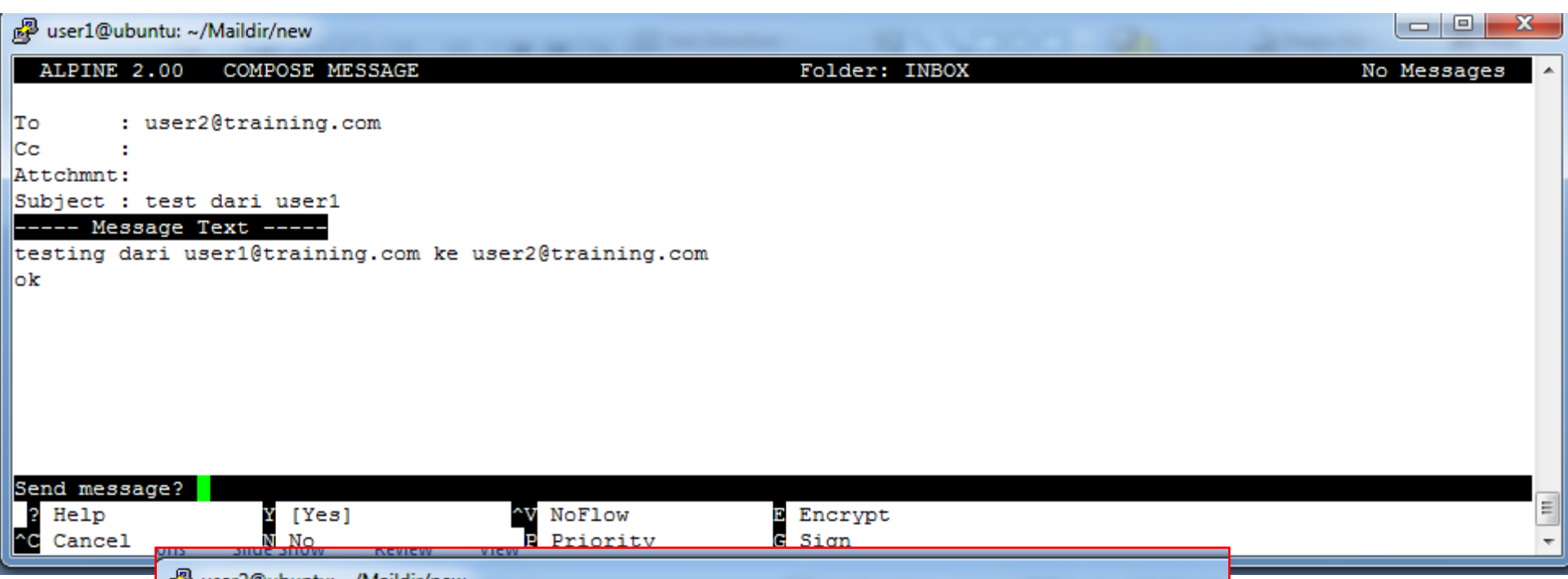

ations
Slide Show
Review
View
root@ubuntu: /var/cache/bind
root@ubuntu:/var/cache/bind# apt-get install courier-pop
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
courier-authlib courier-base libltdl7
Suggested 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]?

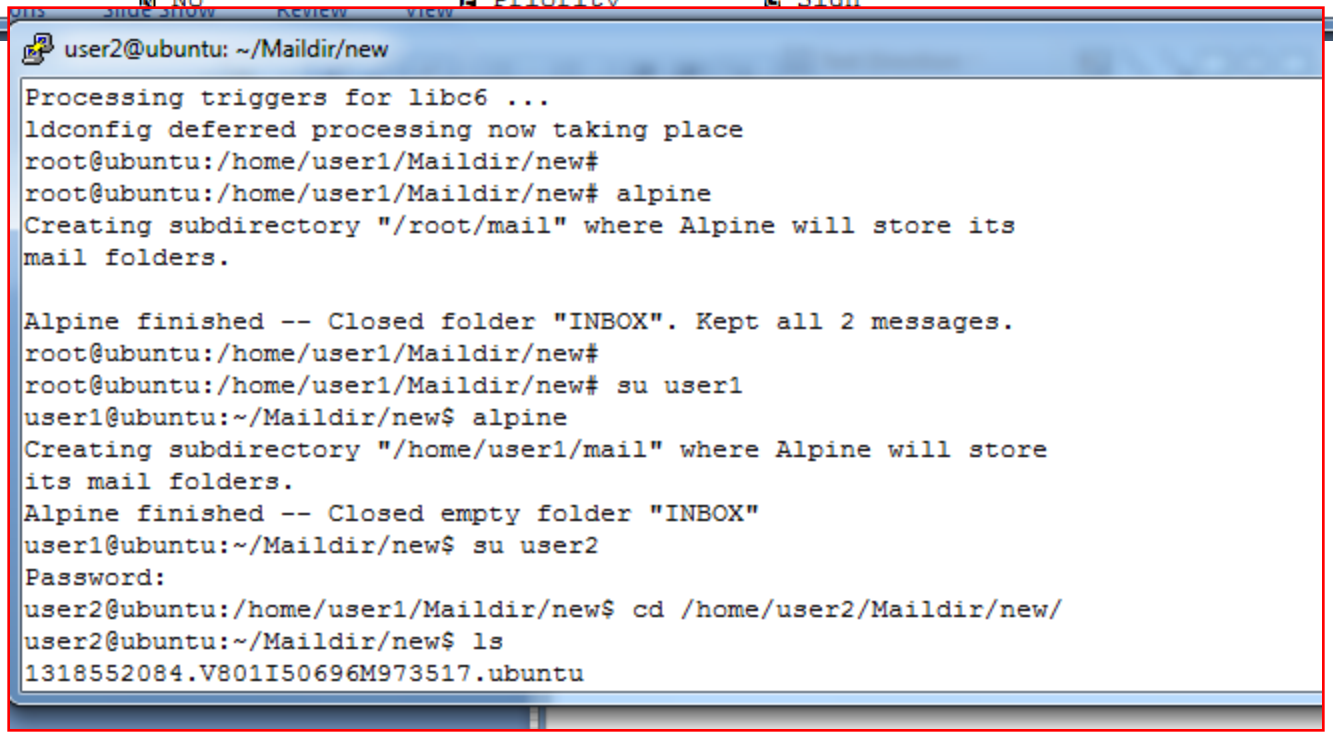

root@ubuntu: /var/www
root@ubuntu:/var/cache/bind# cd /
root@ubuntu:/# cd /var/www/
root@ubuntu:/var/www# ls
index.html index.php mail mailman php www
root@ubuntu:/var/www# cat /etc/apache2/sites-available/
default default-ssl hero mail www
root@ubuntu:/var/www# cat /etc/apache2/sites-available/mail
<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.

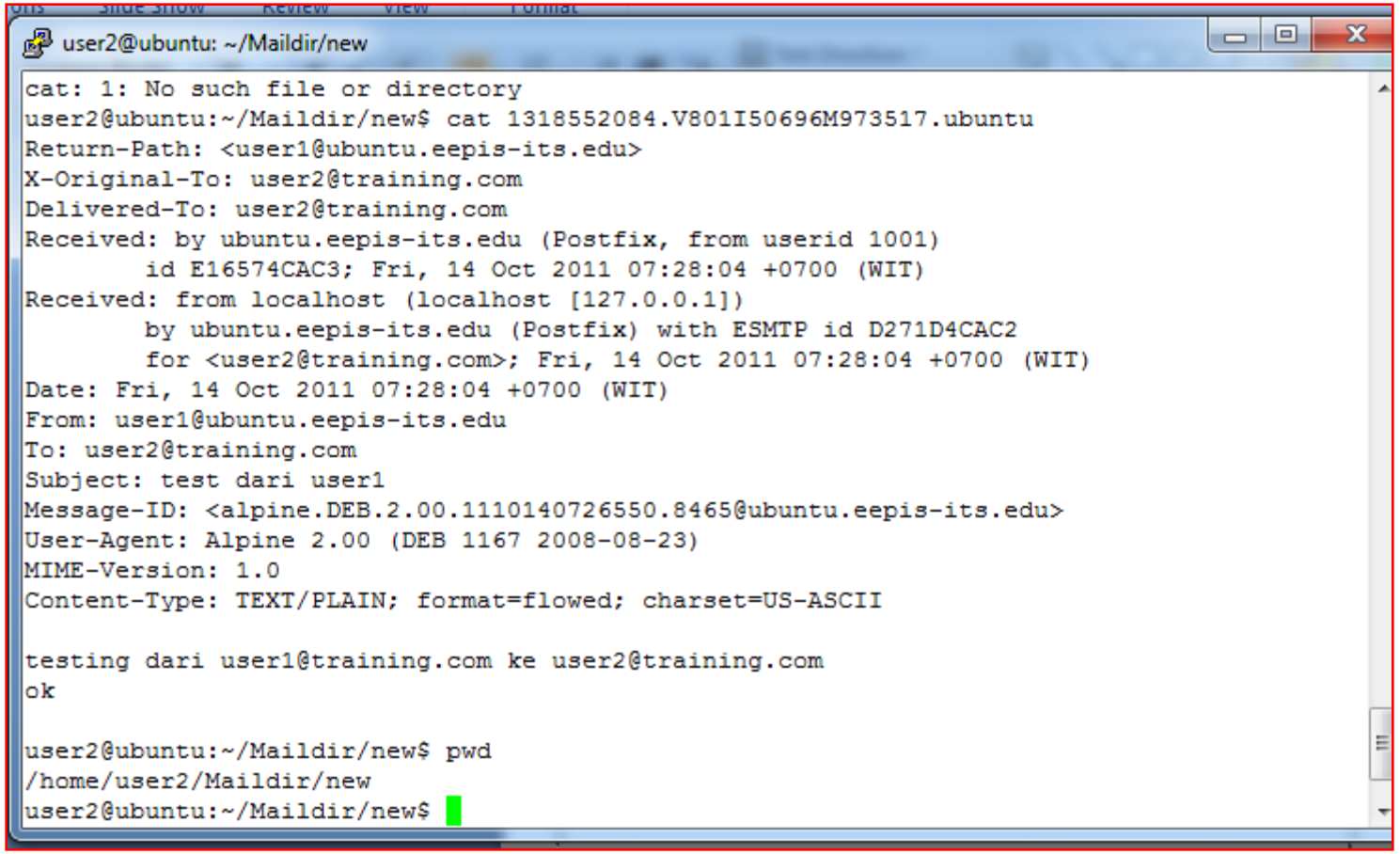

SquirrelMail - Login - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://mail.training.com/src/login.php
Video
jadwal+timnas+u+23
Search
Download video
amazon.com
Translate webpage
jadwal+timnas+u+23
Program Pe...
EEPIS Mail S...
Internationa...
Squirrel...
Absensi Per...
jadwal timn...
Timnas Ind...
Inilah Jadwa...
Sederet.co...
SquirrelMail
webmail
for
nuts
SquirrelMail version 1.4.15
By the SquirrelMail Project Team
SquirrelMail Login
Name:
Password:
Login

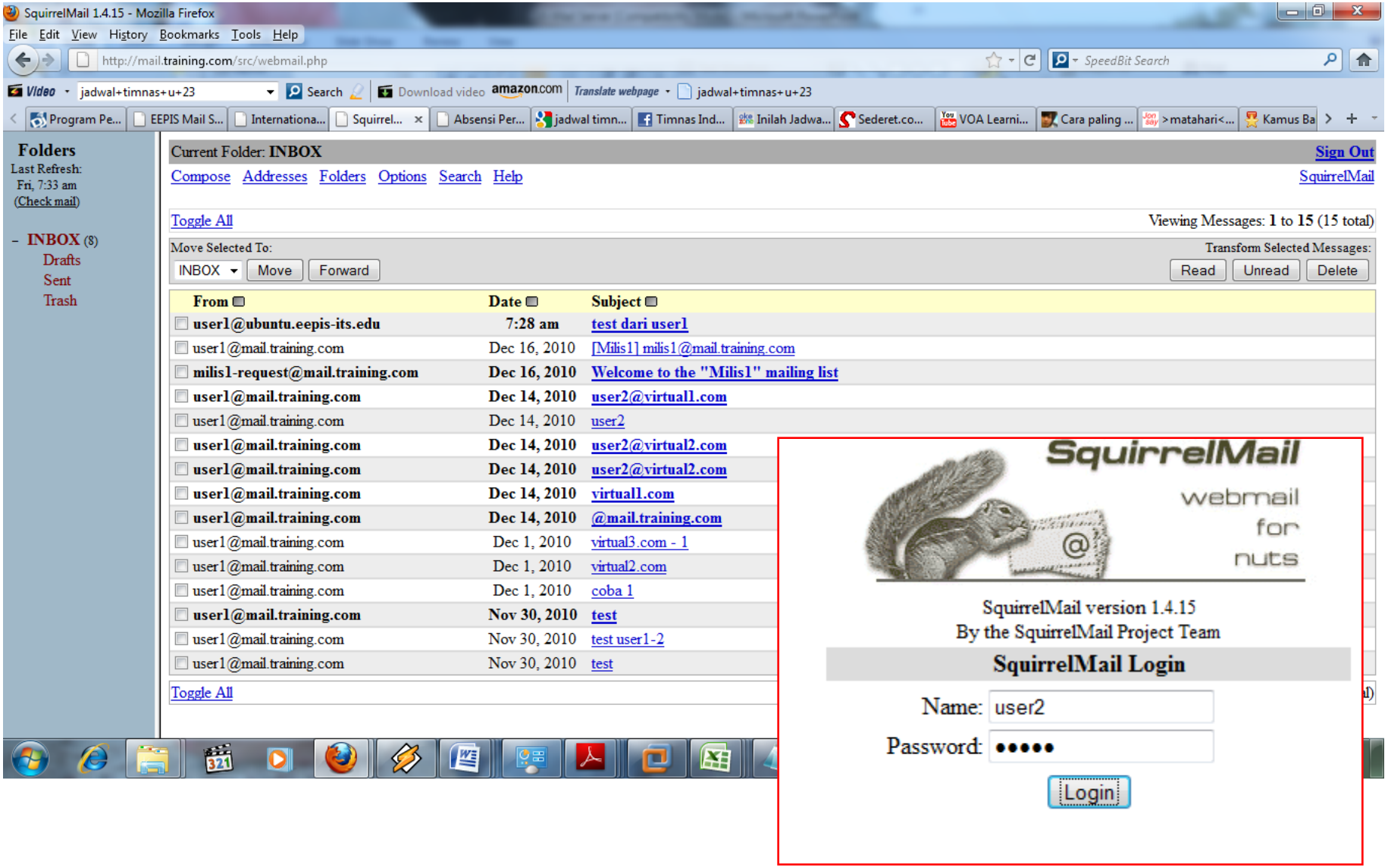

root@ubuntu: /home/user1/Maildir/new
root@ubuntu:/var/www# ls /etc/skel/
examples.desktop Maildir
root@ubuntu:/var/www# ls /home/
ftp/ hero/ user1/ user2/ virtual/ yudo/
root@ubuntu:/var/www# ls /home/ls /home/user1/
ls: cannot access /home/ls: No such file or directory
/home/user1/:
examples.desktop 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 courierimapuiddb 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#

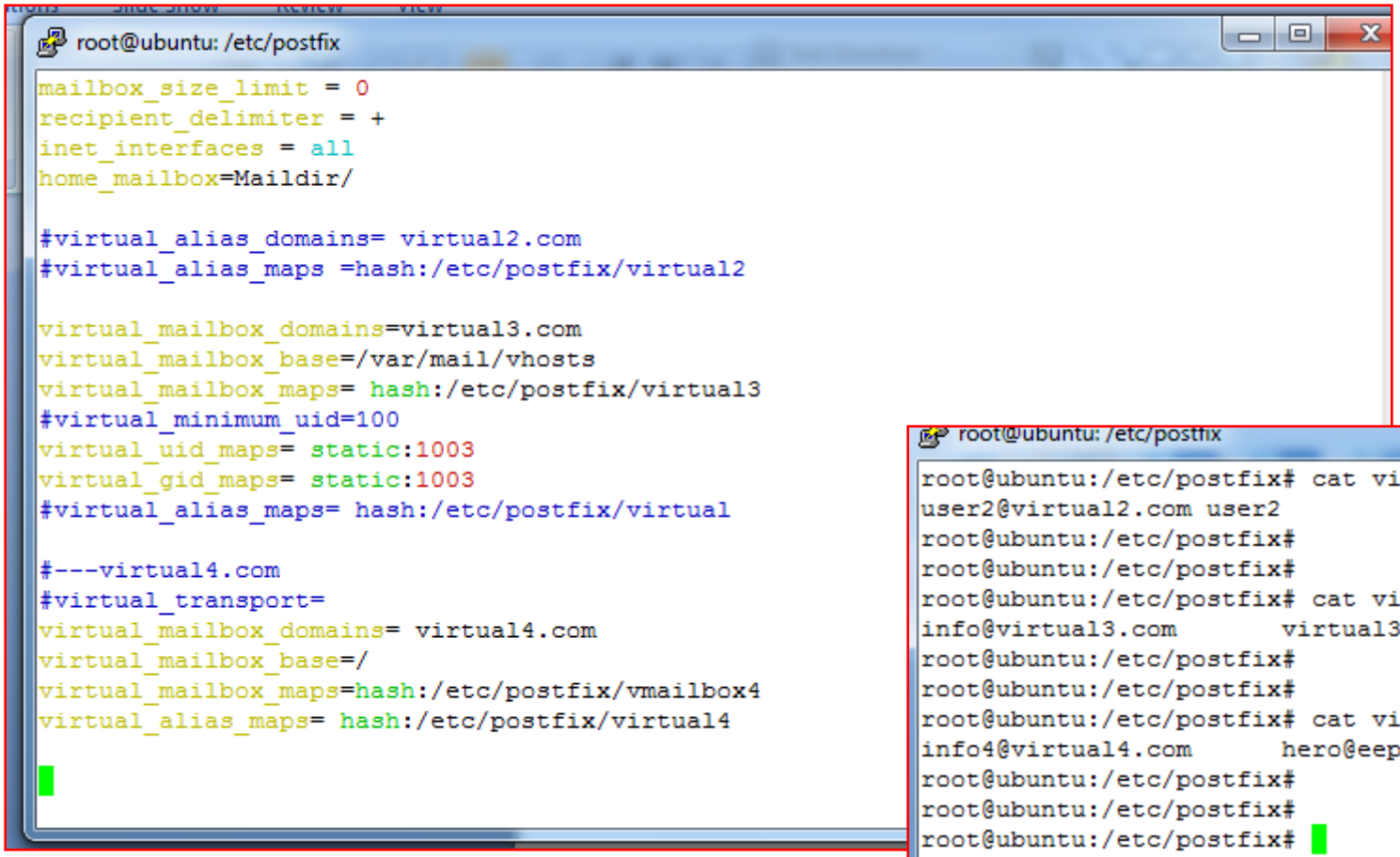

root@ubuntu: /home/user1/Maildir/new
root@ubuntu:/home/user1/Maildir/new# apt-cache search pine|grep mail|more
fetchmail - SSL enabled POP3, APOP, IMAP mail gatherer/forwarder
lbdb - The little brother's database for the mutt mail reader
mutt - text-based mailreader supporting MIME, GPG, PGP and threading
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 libssl0.9.8
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:
libssl0.9.8
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

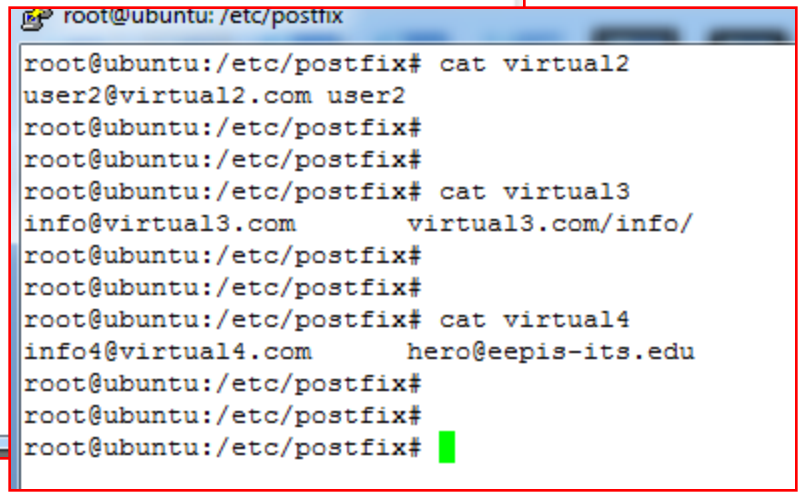

user1@ubuntu: ~/Maildir/new
ALPINE 2.00 COMPOSE MESSAGE Folder: INBOX No Messages
To : user2@training.com
Cc :
Attchmnt:
Subject : test dari user1
----- Message Text -----
testing dari user1@training.com ke user2@training.com
ok
Send message?
? Help Y [Yes] ^V NoFlow E Encrypt
^C Cancel N No P Priority G Sign

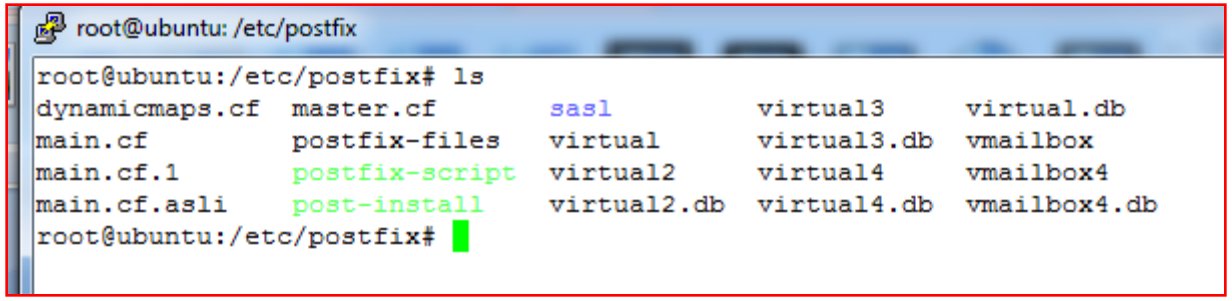

user2@ubuntu: ~/Maildir/new
Processing triggers for libc6 ...
ldconfig deferred processing now taking place
root@ubuntu:/home/user1/Maildir/new#
root@ubuntu:/home/user1/Maildir/new# alpine
Creating subdirectory "/root/mail" where Alpine will store its
mail folders.
Alpine finished -- Closed folder "INBOX". Kept all 2 messages.
root@ubuntu:/home/user1/Maildir/new#
root@ubuntu:/home/user1/Maildir/new# su user1
user1@ubuntu:~/Maildir/new$ alpine
Creating subdirectory "/home/user1/mail" where Alpine will store
its mail folders.
Alpine finished -- Closed empty folder "INBOX"
user1@ubuntu:~/Maildir/new$ su user2
Password:
user2@ubuntu:/home/user1/Maildir/new$ cd /home/user2/Maildir/new/
user2@ubuntu:~/Maildir/new$ ls
1318552084.V801I50696M973517.ubuntu

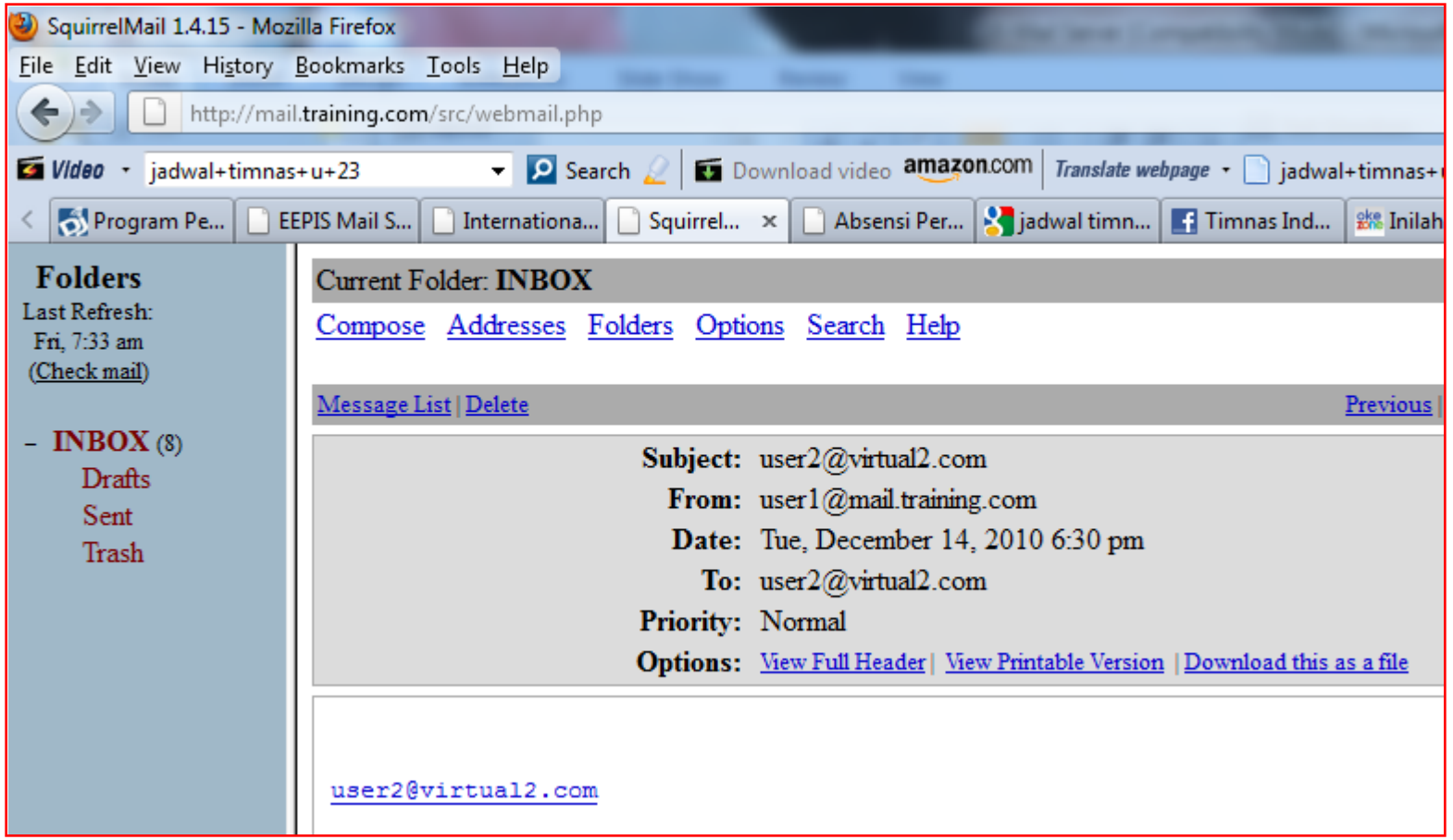

user2@ubuntu: ~/Maildir/new
cat: 1: No such file or directory
user2@ubuntu:~/Maildir/new$ cat 1318552084.V801I50696M973517.ubuntu
Return-Path: <user1@ubuntu.eepis-its.edu>
X-Original-To: user2@training.com
Delivered-To: user2@training.com
Received: by ubuntu.eepis-its.edu (Postfix, from userid 1001)
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$

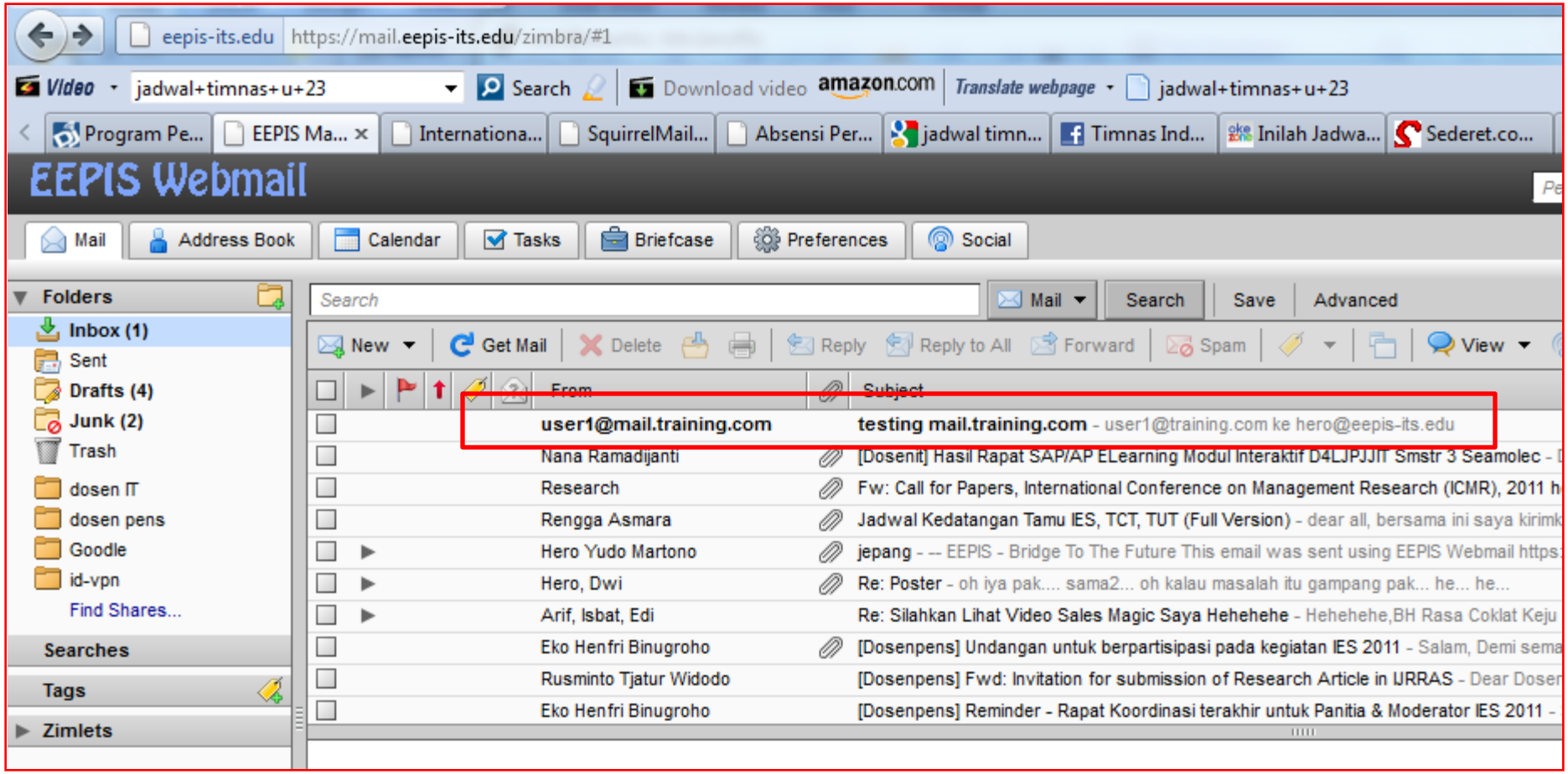

SquirrelMail 1.4.15 - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://mail.training.com/src/webmail.php
Folders
Last Refresh:
Fri, 7:33 am
(Check mail)
INBOX (8)
Drafts
Sent
Trash
Current Folder: INBOX
Sign Out
Compose Addresses Folders Options Search Help
SquirrelMail
Toggle All
Viewing Messages: 1 to 15 (15 total)
Move Selected To:
INBOX Move Forward
Transform Selected Messages:
Read Unread Delete
From Date Subject
user1@ubuntu.eepis-its.edu 7:28 am test dari user1
user1@mail.training.com Dec 16, 2010 [Milis1] milis1@mail.training.com
milis1-request@mail.training.com Dec 16, 2010 Welcome to the "Milis1" mailing list
user1@mail.training.com Dec 14, 2010 user2@virtual1.com
user1@mail.training.com Dec 14, 2010 user2
user1@mail.training.com Dec 14, 2010 user2@virtual2.com
user1@mail.training.com Dec 14, 2010 user2@virtual2.com
user1@mail.training.com Dec 14, 2010 virtual1.com
user1@mail.training.com Dec 14, 2010 @mail.training.com
user1@mail.training.com Dec 1, 2010 virtual3.com - 1
user1@mail.training.com Dec 1, 2010 virtual2.com
user1@mail.training.com Dec 1, 2010 coba 1
user1@mail.training.com Nov 30, 2010 test
user1@mail.training.com Nov 30, 2010 test user1-2
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: user2
Password:
Login

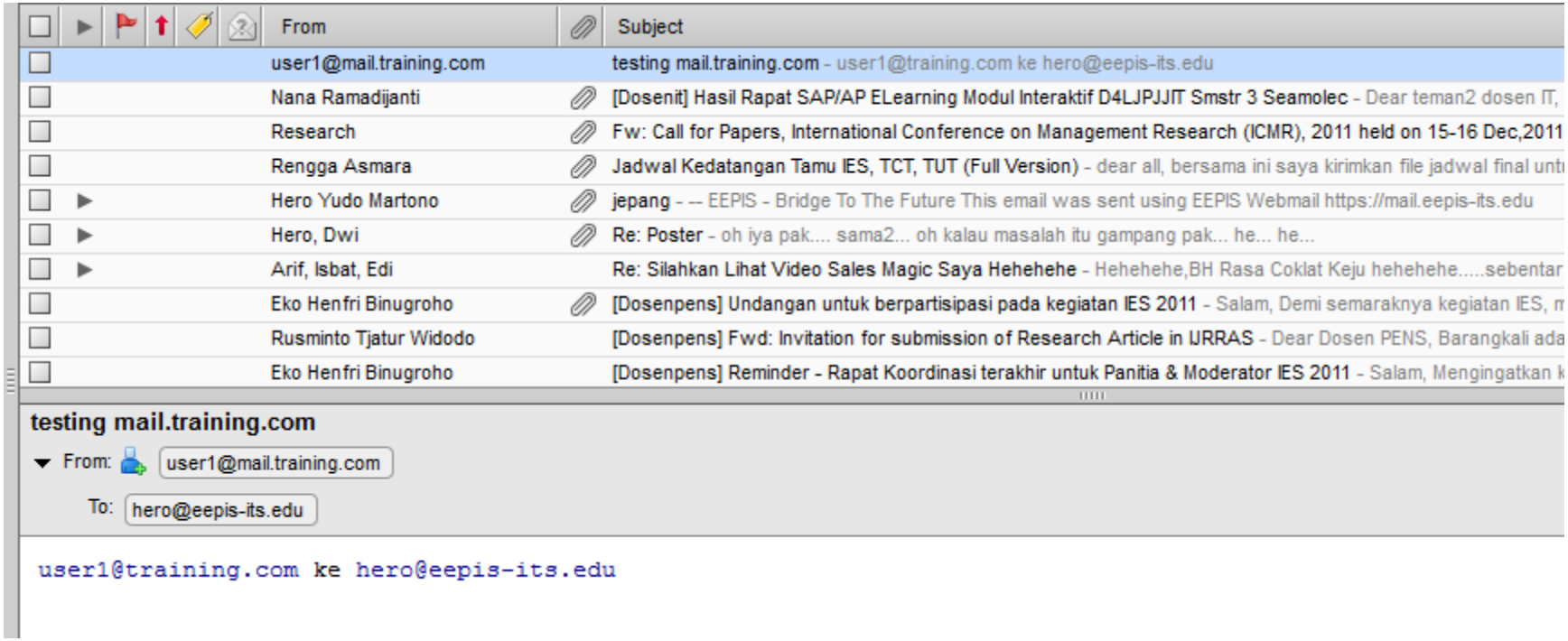

root@ubuntu: /etc/postfix
mailbox_size_limit = 0
recipient_delimiter = +
inet_interfaces = all
home_mailbox=Maildir/
#virtual_alias_domains= virtual2.com
#virtual_alias_maps =hash:/etc/postfix/virtual2
virtual_mailbox_domains=virtual3.com
virtual_mailbox_base=/var/mail/vhosts
virtual_mailbox_maps= hash:/etc/postfix/virtual3
#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

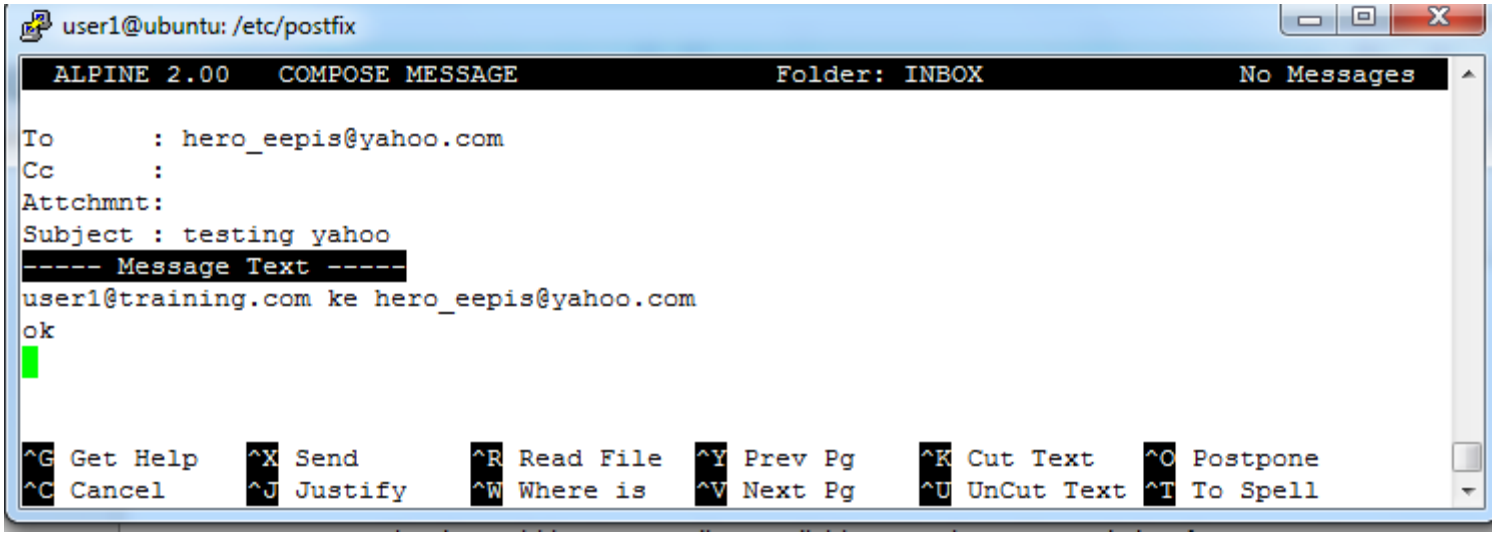

root@ubuntu: /etc/postfix
root@ubuntu:/etc/postfix# cat virtual2
user2@virtual2.com user2
root@ubuntu:/etc/postfix#
root@ubuntu:/etc/postfix#
root@ubuntu:/etc/postfix# cat virtual3
info@virtual3.com virtual3.com/info/
root@ubuntu:/etc/postfix#
root@ubuntu:/etc/postfix#
root@ubuntu:/etc/postfix# cat virtual4
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 vmailbox
main.cf.1 postfix-script virtual2 virtual4 vmailbox4
main.cf.asli post-install virtual2.db virtual4.db vmailbox4.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... 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


eepis-its.edu
https://mail.eepis-its.edu/zimbra/#1
jadwal+timnas+u+23
Search
Download video
amazon.com
Translate webpage
jadwal+timnas+u+23
Program Pe...
EEPIS Ma...
Internationa...
SquirrelMail...
Absensi Per...
jadwal timn...
Timnas Ind...
Inilah Jadwa...
Sederet.co...
EEPIS Webmail
Mail
Address Book
Calendar
Tasks
Briefcase
Preferences
Social
Folders
Inbox (1)
Sent
Drafts (4)
Junk (2)
Trash
dosen IT
dosen pens
Goodle
id-vpn
Find Shares...
Searches
Tags
Zimlets
Search
Mail
Search
Save
Advanced
New
Get Mail
Delete
Reply
Reply to All
Forward
Spam
View
From
Subject
user1@mail.training.com
testing mail.training.com - user1@training.com ke hero@eepis-its.edu
Nana Ramadijanti
[Dosenit] Hasil Rapat SAP/AP ELearning Modul Interaktif D4LJPJJIT Smstr 3 Seamolec -
Research
Fw: Call for Papers, International Conference on Management Research (ICMR), 2011 h
Rengga Asmara
Jadwal Kedatangan Tamu IES, TCT, TUT (Full Version) - dear all, bersama ini saya kirimk
Hero Yudo Martono
jepang - -- EEPIS - Bridge To The Future This email was sent using EEPIS Webmail https
Hero, Dwi
Re: Poster - oh iya pak.... sama2... oh kalau masalah itu gampang pak... he... he...
Arif, Isbat, Edi
Re: Silahkan Lihat Video Sales Magic Saya Hehehehe - Hehehehe,BH Rasa Coklat Keju
Eko Henfri Binugroho
[Dosenpens] Undangan untuk berpartisipasi pada kegiatan IES 2011 - Salam, Demi sema
Rusminto Tjatur Widodo
[Dosenpens] Fwd: Invitation for submission of Research Article in IJRRAS - Dear Doser
Eko Henfri Binugroho
[Dosenpens] Reminder - Rapat Koordinasi terakhir untuk Panitia & Moderator IES 2011 -


From
Subject
user1@mail.training.com
testing mail.training.com - user1@training.com ke hero@eepis-its.edu
Nana Ramadijanti
[Dosenit] Hasil Rapat SAP/AP ELearning Modul Interaktif D4LJPJJIT Smstr 3 Seamolec - Dear teman2 dosen IT,
Research
Fw: Call for Papers, International Conference on Management Research (ICMR), 2011 held on 15-16 Dec,2011
Rengga Asmara
Jadwal Kedatangan Tamu IES, TCT, TUT (Full Version) - dear all, bersama ini saya kirimkan file jadwal final unt
Hero Yudo Martono
jepang - -- EEPIS - Bridge To The Future This email was sent using EEPIS Webmail https://mail.eepis-its.edu
Hero, Dwi
Re: Poster - oh iya pak.... sama2... oh kalau masalah itu gampang pak... he... he...
Arif, Isbat, Edi
Re: Silahkan Lihat Video Sales Magic Saya Hehehehe - Hehehehe,BH Rasa Coklat Keju hehehehe.....sebentar
Eko Henfri Binugroho
[Dosenpens] Undangan untuk berpartisipasi pada kegiatan IES 2011 - Salam, Demi semaraknya kegiatan IES, m
Rusminto Tjatur Widodo
[Dosenpens] Fwd: Invitation for submission of Research Article in IJRRAS - Dear Dosen PENS, Barangkali ada
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


user1@ubuntu: /etc/postfix
ALPINE 2.00 COMPOSE MESSAGE Folder: INBOX No Messages
To : hero_eepis@yahoo.com
Cc :
Attchmnt:
Subject : testing yahoo
----- Message Text -----
user1@training.com ke hero_eepis@yahoo.com
ok
^G Get Help ^X Send ^R Read File ^Y Prev Pg ^K Cut Text ^O Postpone
^C Cancel ^J Justify ^W Where is ^V Next Pg ^U UnCut Text ^T To Spell