

```
root@ubuntu:/home/hero# dhclient
There is already a pid file /var/run/dhclient.pid with pid 4423
killed old client process, removed PID file
Internet Systems Consortium DHCP Client V3.1.3
Copyright 2004-2009 Internet Systems Consortium.
All rights reserved.
For info, please visit https://www.isc.org/software/dhcp/

Listening on LPF/pan0/3e:77:91:e3:cc:fc
Sending on LPF/pan0/3e:77:91:e3:cc:fc
Listening on LPF/eth0/00:0c:29:4e:0b:db
Sending on LPF/eth0/00:0c:29:4e:0b:db
Sending on Socket/fallback
DHCPDISCOVER on pan0 to 255.255.255.255 port 67 interval 3
DHCPREQUEST of 10.252.12.244 on eth0 to 255.255.255.255 port 67
DHCPOFFER of 10.252.12.244 from 10.252.12.1
* Reloading /etc/samba/smb.conf smbd only
...done.
bound to 10.252.12.244 -- renewal in 1536 seconds.
root@ubuntu:/home/hero#
```

```
root@ubuntu:/home/hero# ifconfig eth0
eth0      Link encap:Ethernet  HWaddr 00:0c:29:4e:0b:db
          inet addr:10.252.12.244  Bcast:10.252.12.255  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:796 errors:0 dropped:0 overruns:0 frame:0
          TX packets:225 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:94013 (94.0 KB)  TX bytes:35499 (35.4 KB)
          Interrupt:18 Base address:0x2000

root@ubuntu:/home/hero# route -n
Kernel IP routing table
Destination        Gateway            Genmask           Flags Metric Ref    Use Iface
0.0.0.0            0.0.0.0           0.0.0.0           U        0      0        0 eth0
0.0.0.0            10.252.12.1      0.0.0.0           UG       0      0        0 eth0

root@ubuntu:/home/hero# cat /etc/resolv.conf
nameserver 202.9.85.3
nameserver 202.9.85.4
domain eepis-its.edu
search eepis-its.edu
root@ubuntu:/home/hero#
```

```
root@ubuntu:/home/hero# more /etc/apt/sources.list
## Uncomment the following two lines to add software from the 'backports'
## repository.
## N.B. software from this repository may not have been tested as
## extensively as that contained in the main release, although it includes
## newer versions of some applications which may provide useful features.
## Also, please note that software in backports WILL NOT receive any review
## or updates from the Ubuntu security team.
# deb http://id.archive.ubuntu.com/ubuntu/ jaunty-backports main restricted universe multiverse
# deb-src http://id.archive.ubuntu.com/ubuntu/ jaunty-backports main restricted universe multiverse
## Uncomment the following two lines to add software from Canonical's
## 'partner' repository.
## This software is not part of Ubuntu, but is offered by Canonical and the
## respective vendors as a service to Ubuntu users.
# deb http://archive.canonical.com/ubuntu jaunty partner
# deb-src http://archive.canonical.com/ubuntu jaunty partner

deb http://kebo.vlsm.org/ubuntu/ maverick main restricted universe multiverse
deb-src http://kebo.vlsm.org/ubuntu/ maverick main restricted universe multiverse
#deb http://security.ubuntu.com/ubuntu jaunty-security universe
#deb-src http://security.ubuntu.com/ubuntu jaunty-security universe
#deb http://security.ubuntu.com/ubuntu jaunty-security multiverse
#deb-src http://security.ubuntu.com/ubuntu jaunty-security multiverse
#deb http://kebo.vlsm.org/ubuntu jaunty main multiverse restricted universe
root@ubuntu:/home/hero#
```

```
root@ubuntu:/home/hero# apt-get update
Hit http://kebo.vlsm.org maverick Release.gpg
Ign http://kebo.vlsm.org maverick/main Translation-en_US
Ign http://kebo.vlsm.org maverick/restricted Translation-en_US
Ign http://kebo.vlsm.org maverick/universe Translation-en_US
Ign http://kebo.vlsm.org maverick/multiverse Translation-en_US
Hit http://kebo.vlsm.org maverick Release
Hit http://kebo.vlsm.org maverick/main Packages
Hit http://kebo.vlsm.org maverick/restricted Packages
Hit http://kebo.vlsm.org maverick/universe Packages
Hit http://kebo.vlsm.org maverick/multiverse Packages
Hit http://kebo.vlsm.org maverick/main Sources
Hit http://kebo.vlsm.org maverick/restricted Sources
Hit http://kebo.vlsm.org maverick/universe Sources
Hit http://kebo.vlsm.org maverick/multiverse Sources
Reading package lists... Done
root@ubuntu:/home/hero# apt-cache search bind|grep ^bind|more
bind9 - Internet Domain Name Server
bind9-doc - Documentation for BIND
bind9-host - Version of 'host' bundled with BIND 9.X
bind9utils - Utilities for BIND
bindfs - mirrors or overlays a local directory with altered permissions
bindgraph - DNS statistics RRDtool frontend for BIND9
bindwood - transitional dummy package
root@ubuntu:/home/hero#
```

PRAKTIKUM DNS

```
root@ubuntu: /var/cache/bind# apt-cache search bind9|grep ^bind9|more
bind9 - Internet Domain Name Server
bind9-doc - Documentation for BIND
bind9-host - Version of 'host' bundled with BIND 9.X
bind9utils - Utilities for BIND
root@ubuntu: /var/cache/bind# apt-get install bind9
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  bind9utils geopip-database libbind9-60 libdb4.8 libdns66 libgeoip1 libisc60 libisccc60 libiscfg60
  liblwres60 libxml2
Suggested packages:
  bind9-doc resolvconf geoip-bin
The following NEW packages will be installed:
  geopip-database libbind9-60 libdb4.8 libdns66 libgeoip1 libisc60 libisccc60 libiscfg60 liblwres60
The following packages will be upgraded:
  bind9 bind9utils libxml2
3 upgraded, 9 newly installed, 0 to remove and 1128 not upgraded.
Need to get 5739kB of archives.
After this operation, 10.2MB of additional disk space will be used.
Do you want to continue [Y/n]? Y
```

```
root@ubuntu: /etc/bind

// be authoritative for the localhost forward and reverse zones, and for
// broadcast zones as per RFC 1912

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

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# cat named.conf
```

```
root@ubuntu: /etc/bind
root@ubuntu:/etc/bind# cat named.conf.local
//di lab UPPM 10.252.12.244
zone "training.com" IN {
    type master;
    file "/var/cache/bind/db.training3";
};

zone "12.252.10.in-addr.arpa" IN {
    type master;
    file "/var/cache/bind/db.244";
};

root@ubuntu:/etc/bind#
```

```
root@ubuntu: /var/cache/bind
root@ubuntu:/etc/bind# cd /var/cache/bind/
root@ubuntu:/var/cache/bind# ls
db.179 db.231 db.57 db.72 db.training1 db.training3
db.183 db.244 db.69 db.training db.training2
root@ubuntu:/var/cache/bind# cat db.training3
;
; 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 10.252.12.244
mail IN A 10.252.12.244
milis IN A 10.252.12.244
php IN A 10.252.12.244
database IN A 10.252.12.244

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

```
root@ubuntu: /var/cache/bind
root@ubuntu:/var/cache/bind# cat db.244
;
; 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.
244 IN PTR ns1.training.com.
244 IN PTR www.training.com.
244 IN PTR mail.training.com.
244 IN PTR milis.training.com.
244 IN PTR php.training.com.
244 IN PTR database.training.com.
root@ubuntu:/var/cache/bind# cat /etc/resolv.conf
nameserver 10.252.12.244
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# nslookup 10.252.12.244
Server: 10.252.12.244
Address: 10.252.12.244#53

244.12.252.10.in-addr.arpa name = mail.training.com.
244.12.252.10.in-addr.arpa name = milis.training.com.
244.12.252.10.in-addr.arpa name = database.training.com.
244.12.252.10.in-addr.arpa name = ns1.training.com.
244.12.252.10.in-addr.arpa name = php.training.com.
244.12.252.10.in-addr.arpa name = www.training.com.

root@ubuntu:/var/cache/bind# nslookup www.training.com
Server: 10.252.12.244
Address: 10.252.12.244#53

Name: www.training.com
Address: 10.252.12.244

root@ubuntu:/var/cache/bind# nslookup mail.training.com
Server: 10.252.12.244
Address: 10.252.12.244#53

Name: mail.training.com
Address: 10.252.12.244

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

```
root@ubuntu:/var/cache/bind
root@ubuntu:/var/cache/bind# dig 10.252.12.244

; <<> DiG 9.5.1-P2 <<> 10.252.12.244
;; global options: printcmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 27360
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 13, ADDITIONAL: 14

;; QUESTION SECTION:
;10.252.12.244.                IN      A

;; ANSWER SECTION:
10.252.12.244.                0       IN      A      67.215.65.132

;; AUTHORITY SECTION:
289251 IN      NS      a.root-servers.net.
.      289251 IN      NS      k.root-servers.net.
.      289251 IN      NS      m.root-servers.net.
.      289251 IN      NS      d.root-servers.net.
.      289251 IN      NS      e.root-servers.net.
.      289251 IN      NS      g.root-servers.net.
.      289251 IN      NS      i.root-servers.net.
.      289251 IN      NS      j.root-servers.net.
.      289251 IN      NS      l.root-servers.net.
.      289251 IN      NS      f.root-servers.net.
.      289251 IN      NS      b.root-servers.net.
.      289251 IN      NS      h.root-servers.net.
.      289251 IN      NS      c.root-servers.net.

;; ADDITIONAL SECTION:
a.root-servers.net. 48650 IN      A      198.41.0.4
```

PRAKTIKUM FTP

```
root@ubuntu: /var/cache/bind# apt-get update
Hit http://kebo.vlsm.org maverick/Release.gpg
Ign http://kebo.vlsm.org maverick/main Translation-en_US
Ign http://kebo.vlsm.org maverick/restricted Translation-en_US
Ign http://kebo.vlsm.org maverick/universe Translation-en_US
Ign http://kebo.vlsm.org maverick/multiverse Translation-en_US
Hit http://kebo.vlsm.org maverick/Release
Hit http://kebo.vlsm.org maverick/main Packages
Hit http://kebo.vlsm.org maverick/restricted Packages
Hit http://kebo.vlsm.org maverick/universe Packages
Hit http://kebo.vlsm.org maverick/multiverse Packages
Hit http://kebo.vlsm.org maverick/main Sources
Hit http://kebo.vlsm.org maverick/restricted Sources
Hit http://kebo.vlsm.org maverick/universe Sources
Hit http://kebo.vlsm.org maverick/multiverse Sources
Reading package lists... Done
root@ubuntu: /var/cache/bind# apt-cache search ftp|grep ^proftp|more
proftpd-basic - Versatile, virtual-hosting FTP daemon - binaries
proftpd-dev - Versatile, virtual-hosting FTP daemon - development files
proftpd-doc - Versatile, virtual-hosting FTP daemon - documentation
proftpd-mod-ldap - Versatile, virtual-hosting FTP daemon - LDAP module
proftpd-mod-mysql - Versatile, virtual-hosting FTP daemon - MySQL module
proftpd-mod-odbc - Versatile, virtual-hosting FTP daemon - ODBC module
proftpd-mod-pgsql - Versatile, virtual-hosting FTP daemon - PostgreSQL module
proftpd-mod-sqlite - Versatile, virtual-hosting FTP daemon - SQLite3 module
proftpd - versatile, virtual-hosting FTP daemon
root@ubuntu: /var/cache/bind#
```

```
root@ubuntu: /var/cache/bind# apt-cache search ftp|grep ^proftp|more
proftpd-basic - Versatile, virtual-hosting FTP daemon - binaries
proftpd-dev - Versatile, virtual-hosting FTP daemon - development files
proftpd-doc - Versatile, virtual-hosting FTP daemon - documentation
proftpd-mod-ldap - Versatile, virtual-hosting FTP daemon - LDAP module
proftpd-mod-mysql - Versatile, virtual-hosting FTP daemon - MySQL module
proftpd-mod-odbc - Versatile, virtual-hosting FTP daemon - ODBC module
proftpd-mod-pgsql - Versatile, virtual-hosting FTP daemon - PostgreSQL module
proftpd-mod-sqlite - Versatile, virtual-hosting FTP daemon - SQLite3 module
proftpd - versatile, virtual-hosting FTP daemon
root@ubuntu: /var/cache/bind# apt-get install proftpd
Reading package lists... Done
Building dependency tree
Reading state information... Done
proftpd is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 1131 not upgraded.
root@ubuntu: /var/cache/bind#
```

```
root@ubuntu: /var/cache/bind# nmap localhost
Starting Nmap 4.76 ( http://nmap.org ) at 2011-11-04 07:09 WIT
Warning: Hostname localhost resolves to 2 IPs. Using 127.0.0.1.
Interesting ports on localhost (127.0.0.1):
Not shown: 985 closed ports
PORT      STATE SERVICE
21/tcp    open  ftp
22/tcp    open  ssh
25/tcp    open  smtp
53/tcp    open  domain
80/tcp    open  http
110/tcp   open  pop3
111/tcp   open  rpcbind
139/tcp   open  netbios-ssn
143/tcp   open  imap
445/tcp   open  microsoft-ds
631/tcp   open  ipp
901/tcp   open  samba-swat
2049/tcp   open  nfs
3306/tcp   open  mysql
5900/tcp   open  vnc

Nmap done: 1 IP address (1 host up) scanned in 0.10 seconds
root@ubuntu: /var/cache/bind# /etc/init.d/proftpd restart
* Stopping ftp server: proftpd
* Starting ftp server: proftpd
- mod_tls/2.1.2: compiled using OpenSSL version 'OpenSSL 0.9.8g 19 Oct 2007' headers, but linked to Ope
nSSL version 'OpenSSL 0.9.8c 01 Jun 2010' library
root@ubuntu: /var/cache/bind#
```

```
root@ubuntu: /var/cache/bind
root@ubuntu: /var/cache/bind# ifconfig eth0
eth0      Link encap:Ethernet  HWaddr 00:0c:29:4e:0b:db
          inet addr:10.252.12.244  Bcast:10.252.12.255  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:8783 errors:0 dropped:0 overruns:0 frame:0
          TX packets:5180 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:895327 (895.3 KB)  TX bytes:749171 (749.1 KB)
          Interrupt:18 Base address:0x2000

root@ubuntu: /var/cache/bind# ftp 10.252.12.244
Connected to 10.252.12.244.
220 ProFTPD 1.3.1 Server (Debian) [::ffff:10.252.12.244]
Name (10.252.12.244:hero): hero
331 Password required for hero
Password:
230 User hero logged in.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp>
```

```
root@ubuntu: /var/cache/bind
Connected to 10.252.12.244.
220 ProFTPD 1.3.1 Server (Debian) [::ffff:10.252.12.244]
Name (10.252.12.244:hero): hero
331 Password required for hero
Password:
230 User hero logged in.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
200 PORT command successful
150 Opening ASCII mode data connection for file list
drwxr-xr-x  3 hero  hero      4096 Nov 27  2010 adminduk
drwxr-xr-x  3 root  root      4096 Dec 14  2010 backup
drwxr-xr-x  3 hero  hero      4096 Nov 30  2010 coba
drwxr-xr-x  2 hero  hero      4096 Nov 25  2010 Desktop
drwxr-xr-x  2 hero  hero      4096 Nov 25  2010 Documents
-rw-r--r--  1 hero  hero      357 Nov 25  2010 examples.desktop
drwx----- 2 hero  hero      4096 Nov 22  2010 library java
drwx----- 5 hero  hero      4096 Dec 15  2010 Maildir
drwxr-xr-x  2 hero  hero      4096 Nov 25  2010 Music
-rwx--x--x  1 hero  hero      250245120 Jul  2  2010 netbeans-6.9-ml-linux.sh
drwxr-xr-x  4 hero  hero      4096 Nov 27  2010 NetBeansProjects
drwxr-xr-x  2 hero  hero      4096 Nov 25  2010 Pictures
drwx----- 6 hero  hero      4096 Jan  8  2011 program
drwxr-xr-x  2 hero  hero      4096 Nov 25  2010 Public
drwxr-xr-x  2 hero  hero      4096 Oct  7  13:02 public_html
drwxr-xr-x  2 hero  hero      4096 Nov 25  2010 Templates
drwxr-xr-x  2 hero  hero      4096 Nov 25  2010 Videos
drwxr-xr-x  2 hero  hero      4096 Nov 26  2010 xml
226 Transfer complete
ftp>
```

```
root@ubuntu: /var/cache/bind
drwx----- 5 hero  hero      4096 Dec 15  2010 Maildir
drwxr-xr-x  2 hero  hero      4096 Nov 25  2010 Music
-rwx--x--x  1 hero  hero      250245120 Jul  2  2010 netbeans-6.9-ml-linux.sh
drwxr-xr-x  4 hero  hero      4096 Nov 27  2010 NetBeansProjects
drwxr-xr-x  2 hero  hero      4096 Nov 25  2010 Pictures
drwx----- 6 hero  hero      4096 Jan  8  2011 program
drwxr-xr-x  2 hero  hero      4096 Nov 25  2010 Public
drwxr-xr-x  2 hero  hero      4096 Oct  7  13:02 public_html
drwxr-xr-x  2 hero  hero      4096 Nov 25  2010 Templates
drwxr-xr-x  2 hero  hero      4096 Nov 25  2010 Videos
drwxr-xr-x  2 hero  hero      4096 Nov 26  2010 xml
226 Transfer complete
ftp> ?
Commands may be abbreviated.  Commands are:
!      debug      mdir      qc          send
$      dir         mget      sendport   site
account disconnect  mkdir     put         size
append  exit         mls       pwd         status
ascii  form        mode      quit        struct
bell   get          modtime   quote       system
binary glob         mput      recv        sunique
bye    hash         newer     reget       tenex
case   help        nmap      rstatus     tick
cd     idle        nlst      rhelp       trace
cdup   image       ntrans    rename      type
chmod  lcd         open      reset       user
close  ls           prompt    restart     umask
cr     macdef      passive   rmdir       verbose
delete mdelete     proxy     runique     ?
ftp>
```

```
root@ubuntu:/var/cache/bind# ftp 10.252.12.244
Connected to 10.252.12.244.
220 ProFTPD 1.3.1 Server (Debian) [::ffff:10.252.12.244]
Name (10.252.12.244:hero): hero
331 Password required for hero
Password:
230 User hero logged in
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> put ?
local: ? remote: ?
local: ?: No such file or directory
ftp> ? put
put          send one file
ftp> ? get
get          receive file
ftp> █
```

PRAKTIKUM WEB SERVER

```
root@ubuntu:/home/hero# apt-get update
Hit http://kebo.vlsm.org maverick Release.gpg
Ign http://kebo.vlsm.org maverick/main Translation-en_US
Ign http://kebo.vlsm.org maverick/restricted Translation-en_US
Ign http://kebo.vlsm.org maverick/universe Translation-en_US
Ign http://kebo.vlsm.org maverick/multiverse Translation-en_US
Hit http://kebo.vlsm.org maverick Release
Hit http://kebo.vlsm.org maverick/main Packages
Hit http://kebo.vlsm.org maverick/restricted Packages
Hit http://kebo.vlsm.org maverick/universe Packages
Hit http://kebo.vlsm.org maverick/multiverse Packages
Hit http://kebo.vlsm.org maverick/main Sources
Hit http://kebo.vlsm.org maverick/restricted Sources
Hit http://kebo.vlsm.org maverick/universe Sources
Hit http://kebo.vlsm.org maverick/multiverse Sources
Reading package lists... Done
root@ubuntu:/home/hero# █
```

```
root@ubuntu:/home/hero# apt-cache search apache|grep ^apache|more
apache2 - Apache HTTP Server metapackage
apache2-doc - Apache HTTP Server documentation
apache2-mpm-event - Apache HTTP Server - event driven model
apache2-mpm-prefork - Apache HTTP Server - traditional non-threaded model
apache2-mpm-worker - Apache HTTP Server - high speed threaded model
apache2-prefork-dev - Apache development headers - non-threaded MPM
apache2-threaded-dev - Apache development headers - threaded MPM
apache2-utils - utility programs for web servers
apache2.2-bin - Apache HTTP Server common binary files
apache2.2-common - Apache HTTP Server common files
apache2-mpm-itk - multiuser MPM for Apache 2.2
apache2-suexec - Standard suexec program for Apache 2 mod_suexec
apache2-suexec-custom - Configurable suexec program for Apache 2 mod_suexec
apachetop - Realtime Apache monitoring tool
root@ubuntu:/home/hero# █
```



```
root@ubuntu: /home/hero
root@ubuntu:/home/hero#
root@ubuntu:/home/hero# apt-get install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  php5-common
Use 'apt-get autoremove' to remove them.
The following extra packages will be installed:
  apache2-mpm-worker apache2.2-bin apache2.2-common binutils gcc-4.5-base
  libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap libc-bin
  libc-dev-bin libc6 libc6-dev libdb4.8 libsdl3-0 libstdc++6 libuuid1
  libxml2 php5-common
Suggested packages:
  apache2-doc apache2-suexec apache2-suexec-custom binutils-doc glibc-doc
  php5-suhoas
Recommended packages:
  manpages-dev
The following packages will be REMOVED:
  apache2-mpm-prefork libapache2-mod-php5 libc6-i686 squirrelmail
  squirrelmail-locales
The following NEW packages will be installed:
  apache2-mpm-worker apache2.2-bin gcc-4.5-base libaprutil1-dbd-sqlite3
  libaprutil1-ldap libc-bin libc-dev-bin libc6-dev-bin libdb4.8
The following packages will be upgraded:
  apache2 apache2.2-common binutils libapr1 libaprutil1 libc6 libc6-dev
```

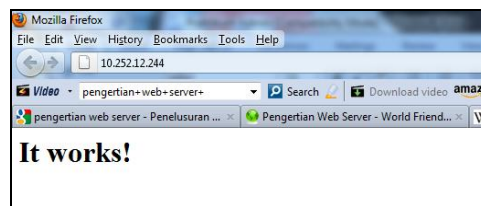
```
root@ubuntu: /home/hero
root@ubuntu:/home/hero# nmap localhost
Starting Nmap 4.76 ( http://nmap.org ) at 2011-11-04 08:20 WIT
Warning: Hostname localhost resolves to 2 IPs. Using 127.0.0.1.
Interesting ports on localhost (127.0.0.1):
Not shown: 985 closed ports
PORT      STATE SERVICE
21/tcp    open  ftp
22/tcp    open  ssh
25/tcp    open  smtp
53/tcp    open  domain
80/tcp    open  http
110/tcp   open  pop3
111/tcp   open  rpcbind
139/tcp   open  netbios-ssn
143/tcp   open  imap
445/tcp   open  microsoft-ds
631/tcp   open  ipp
901/tcp   open  samba-swat
2049/tcp  open  nfs
3306/tcp  open  mysql
5900/tcp  open  vnc
Nmap done: 1 IP address (1 host up) scanned in 0.18 seconds
root@ubuntu:/home/hero#
```

```
root@ubuntu: /etc/apache2/sites-available
root@ubuntu:/etc/apache2# ls
apache2.conf  envvars      magic          mods-enabled  sites-available
conf.d        httpd.conf   mods-available ports.conf    sites-enabled
root@ubuntu:/etc/apache2# cd sites-available/
root@ubuntu:/etc/apache2/sites-available# ls
default default.dpkg-dist default-ssl hero mail milis www
root@ubuntu:/etc/apache2/sites-available# a2dissite www
Site www disabled.
Run '/etc/init.d/apache2 reload' to activate new configuration!
root@ubuntu:/etc/apache2/sites-available# a2ensite www
Enabling site www.
Run '/etc/init.d/apache2 reload' to activate new configuration!
root@ubuntu:/etc/apache2/sites-available# /etc/init.d/apache2 reload
* Reloading web server config apache2
Warning: DocumentRoot [/var/www/mail] does not exist
Warning: DocumentRoot [/var/www/mail] does not exist
Warning: DocumentRoot [/var/www/mail] does not exist
root@ubuntu:/etc/apache2/sites-available#
```

```
root@ubuntu: /etc/apache2/sites-available
<VirtualHost *:80>
    ServerAdmin webmaster@localhost
    ServerName www.training.com
    DocumentRoot /var/www/www
    <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
--More-- (57%)
```



```
root@ubuntu: /
root@ubuntu:~# /etc/init.d/dhcp3-server restart
* Stopping DHCP server dhcpd3
* Starting DHCP server dhcpd3
* check syslog for diagnostics.

root@ubuntu:~# cat /etc/dhcp3/dhcpd.conf
#
# Sample configuration file for ISC dhcpd for Debian
#
# Attention: If /etc/ltsp/dhcpd.conf exists, that will be used as
# configuration file instead of this file.
#
# $Id: dhcpd.conf,v 1.1.1.1 2002/05/21 00:07:44 peloy Exp $
#
# The ddns-updates-style parameter controls whether or not the server
# will
# attempt to do a DNS update when a lease is confirmed. We default to
# the
# behavior of the version 2 packages ('none', since DHCP v2 didn't
# have support for DDNS.)
ddns-update-style none;

# option definitions common to all supported networks...
option domain-name "example.org";
option domain-name-servers ns1.example.org, ns2.example.org;
```

```
root@ubuntu:/  
root@ubuntu:/# apt-cache search squid|grep ^squid|more  
squid - Internet object cache (WWW proxy cache)  
squid-common - Internet object cache (WWW proxy cache) - common files  
squid-langpack - Localized error pages for Squid  
squid-cgi - A full featured Web Proxy cache (HTTP proxy) - control CGI  
squid-deb-proxy - Squid proxy configuration optimized for deb packages  
squid-deb-proxy-client - Automatic proxy discovery for apt based on avahi  
squid-prefetch - Simple page-prefetch for Squid web proxy  
squid3 - A full featured Web Proxy cache (HTTP proxy)  
squid3-common - A full featured Web Proxy cache (HTTP proxy) - common files  
squid3-dbg - A full featured Web Proxy cache (HTTP proxy) - Debug symbols  
squidclient - A full featured Web Proxy cache (HTTP proxy) - control utility  
squidguard - filter and redirector plugin for Squid  
squidguard-doc - filter and redirector plugin for Squid - Documentation  
squidtaild - Squid log monitoring program  
squidview - monitors and analyses squid access.log files  
root@ubuntu:/# apt-get install squid  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following packages were automatically installed and are no longer required:  
  php5-common  
Use 'apt-get autoremove' to remove them.  
The following extra packages will be installed:  
  squid-common squid-langpack  
Suggested packages:  
  squidclient squid-cgi logcheck-database resolvconf winbind  
The following NEW packages will be installed:  
  squid squid-common squid-langpack  
0 upgraded, 3 newly installed, 0 to remove and 1115 not upgraded.  
Need to get 1343kB of archives.  
After this operation, 8372kB of additional disk space will be used.  
Do you want to continue [Y/n]? █
```

PRAKTIKUM PROXY SERVER

```
root@ubuntu:/  
root@ubuntu:/# cat /etc/apt/sources.list  
  
deb http://kebo.vlsm.org/ubuntu/ maverick main restricted universe multiverse  
deb-src http://kebo.vlsm.org/ubuntu/ maverick main restricted universe multiverse  
#deb http://kebo.vlsm.org/debian/ lenny main  
#deb-src http://kebo.vlsm.org/debian/ lenny main  
#deb http://kebo.eepis-its.edu/debian-multimedia/ stable main  
  
root@ubuntu:/# 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:16974 errors:0 dropped:0 overruns:0 frame:0  
TX packets:5249 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:1000  
RX bytes:23677613 (23.6 MB) TX bytes:375400 (375.4 KB)  
Interrupt:18 Base address:0x2000  
  
root@ubuntu:/#
```

```
root@ubuntu:/  
root@ubuntu:/# apt-get update  
Hit http://kebo.vlsm.org maverick Release.gpg  
Ign http://kebo.vlsm.org maverick/main Translation-en_US  
Ign http://kebo.vlsm.org maverick/restricted Translation-en_US  
Ign http://kebo.vlsm.org maverick/universe Translation-en_US  
Ign http://kebo.vlsm.org maverick/multiverse Translation-en_US  
Hit http://kebo.vlsm.org maverick Release  
Hit http://kebo.vlsm.org maverick/main Packages  
Hit http://kebo.vlsm.org maverick/restricted Packages  
Hit http://kebo.vlsm.org maverick/universe Packages  
Hit http://kebo.vlsm.org maverick/multiverse Packages  
Hit http://kebo.vlsm.org maverick/main Sources  
Hit http://kebo.vlsm.org maverick/restricted Sources  
Hit http://kebo.vlsm.org maverick/universe Sources  
Hit http://kebo.vlsm.org maverick/multiverse Sources  
Reading package lists... Done  
root@ubuntu:/#
```

```
root@ubuntu:/  
root@ubuntu:/# apt-cache search squid|grep ^squid|more  
squid - Internet object cache (WWW proxy cache)  
squid-common - Internet object cache (WWW proxy cache) - common files  
squid-langpack - Localized error pages for Squid  
squid-ogi - A full featured Web Proxy cache (HTTP proxy) - control CGI  
squid-deb-proxy - Squid proxy configuration optimized for deb packages  
squid-deb-proxy-client - Automatic proxy discovery for apt based on avahi  
squid-prefetch - Simple page-prefetch for Squid web proxy  
squid3 - A full featured Web Proxy cache (HTTP proxy)  
squid3-common - A full featured Web Proxy cache (HTTP proxy) - common files  
squid3-dbg - A full featured Web Proxy cache (HTTP proxy) - Debug symbols  
squidclient - A full featured Web Proxy cache (HTTP proxy) - control utility  
squidguard - filter and redirector plugin for Squid  
squidguard-doc - filter and redirector plugin for Squid - Documentation  
squidtaild - Squid log monitoring program  
squidview - monitors and analyses squid access.log files  
root@ubuntu:/#
```

#apt-get install squid3

```
root@ubuntu:/# apt-get -f install
Reading package lists... Done
Building dependency tree
Reading state information... Done
0 upgraded, 0 newly installed, 0 to remove and 1114 not upgraded.
1 not fully installed or removed.
After this operation, 0B of additional disk space will be used.
Setting up squid (2.7.STABLE9-2ubuntu5) ...
status: Unknown job: squid
start: Unknown job: squid
dpkg: error processing squid (--configure):
subprocess post-installation script returned error exit status 1
Errors were encountered while processing:
 squid
E: Sub-process /usr/bin/dpkg returned an error code (1)
root@ubuntu:/#
```

Sub-Process /usr/bin/dpkg returned an error code (1)

I just installed Debian, and I am upgrading to unstable. When I do the command apt-get upgrade I receive the an error saying Sub-Process /usr/bin/dpkg returned an error code (1).

this is the the screen leading up to the error:

```
Preparing to replace console-common 0.7.38 (using .../console-common_0.7.40_all.deb) ...
dpkg: error processing /var/cache/apt/archives/console-common_0.7.40_all.deb (--unpack):
subprocess pre-installation script returned error exit status 9
Loading /etc/console/boottime.kmap.gz
Preparing to replace libkrb53 1.3.2-2 (using .../libkrb53_1.3.3-1_i386.deb) ...
Unpacking replacement libkrb53
Preparing to replace libpam-runtime 0.76-16 (using .../libpam-runtime_0.76-19_all.deb) ...
Unpacking replacement libpam-runtime ...
Errors were encountered while processing:
 /var/cache/apt/archives/console-common_0.7.40_all.deb
E: Sub-process /usr/bin/dpkg returned an error code (1)
```

I am a newbie, so please be specific in your reply. Thanks a lot for your help in advance.

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#2

After you get that error, try apt-get -f install to force an install of the files that didn't get loaded because of the error. Then try apt-get upgrade again, apt-get -f install back and forth until only the package that has the error is left.

```
root@ubuntu:/# apt-get -f install
python-launchpad-integration python-libxml2 python-newt python-notify
python-pkg-resources python-problem-report python-rdflib python-smbc
python-software-properties python-support python-usb python-xapian python-xdg
python-xkit rakeontool rarian-compat rdesktop reiserfsprogs raync samba-doc
sane-utils sgml-data shared-mime-info smartdimmer software-properties-gtk ssh
ssh-askpass-gnome ssl-cert strace sudo sysklogd system-config-printer-gnome
sysvinit-utils tangerine-icon-theme tar taskel taskel-data tcl8.4 tcltk tcltopdmp
telnet time toshset ttf-arabeyes ttf-bengali-fonts ttf-bitstream-vera
ttf-dejavu-core ttf-freefont ttf-indic-fonts-core ttf-kannada-fonts ttf-lao
ttf-opensymbol ttf-oriya-fonts ttf-sazanami-gothic ttf-sazanami-mincho
ttf-telugu-fonts ttf-thai-tlwg ttf-unfonts-core ttf-wqy-zenhei tzdata tzdata-java
ubuntu-docs ubuntu-keyring ubuntu-sounds ubuntu-wallpapers ucf uno-libs3 unzip
update-motd update-notifier-common ure usbutils usplash-theme-ubuntu uuid-runtime
vim vim-common vim-runtime vim-tiny w3m wamerican wbritish whiptail whois
wireless-crdm wodim x11-apps x11-session-utils x11-xfs-utils x11-xkb-utils
x11-xserver-utils x11proto-core-dev x11proto-input-dev x11proto-kb-dev xauth
xbitmaps xcursor-themes xdg-user-dirs xdg-user-dirs-gtk xdg-utils xfonts-100dpi
xfonts-75dpi xfonts-base xfonts-encodings xfonts-scalable xfonts-utils xinetd
xinput xinput-xkb-data xml-core xserver-common xsltproc xtrans-dev zip zlib1g
640 upgraded, 0 newly installed, 0 to remove and 474 not upgraded.
1 not fully installed or removed.
Need to get 261MB of archives.
After this operation, 76.0MB of additional disk space will be used.
Do you want to continue [Y/n]?
```

```
root@ubuntu:/# apt-get -f install
Get:16 http://kebo.vlsm.org maverick/main libbz2-1.0 1.0.5-4ubuntu1 [45.1kB]
Get:17 http://kebo.vlsm.org maverick/main perl 5.10.1-12ubuntu2 [3757kB]
Get:18 http://kebo.vlsm.org maverick/main libperl5.10 5.10.1-12ubuntu2 [632kB]
Get:19 http://kebo.vlsm.org maverick/main perl-base 5.10.1-12ubuntu2 [977kB]
Get:20 http://kebo.vlsm.org maverick/main liblocale-gettext-perl 1.05-6 [21.7kB]
Get:21 http://kebo.vlsm.org maverick/main libtext-iconv-perl 1.7-2 [18.3kB]
Get:22 http://kebo.vlsm.org maverick/main libtext-charwidth-perl 0.04-6 [11.8kB]
Get:23 http://kebo.vlsm.org maverick/main libtext-wrap18n-perl 0.06-7 [9010B]
Get:24 http://kebo.vlsm.org maverick/main debconf-118n 1.5.32ubuntu3 [186kB]
Get:25 http://kebo.vlsm.org maverick/main debconf 1.5.32ubuntu3 [150kB]
Get:26 http://kebo.vlsm.org maverick/main libpam0g 1.1.1-4ubuntu1 [91.6kB]
Get:27 http://kebo.vlsm.org maverick/main libselinux1 2.0.94-1 [83.3kB]
Get:28 http://kebo.vlsm.org maverick/main base-passwd 3.5.22 [40.5kB]
Get:29 http://kebo.vlsm.org maverick/main base-files 5.0.0ubuntu23 [79.3kB]
Get:30 http://kebo.vlsm.org maverick/main libpam-modules 1.1.1-4ubuntu1 [322kB]
Get:31 http://kebo.vlsm.org maverick/main passwd 1:4.1.4.2-1ubuntu3 [875kB]
Get:32 http://kebo.vlsm.org maverick/main adduser 3.112ubuntu1 [120kB]
Get:33 http://kebo.vlsm.org maverick/main libpopt0 1.16-1 [33.9kB]
Get:34 http://kebo.vlsm.org maverick/main logrotate 3.7.8-6ubuntu1 [43.7kB]
Get:35 http://kebo.vlsm.org maverick/main libncurses5 5.7+20100626-0ubuntu1 [192kB]
Get:36 http://kebo.vlsm.org maverick/main ncurses-bin 5.7+20100626-0ubuntu1 [319kB]
Get:37 http://kebo.vlsm.org maverick/main lsb-base 4.0-0ubuntu6 [25.6kB]
Get:38 http://kebo.vlsm.org maverick/main openssl 0.9.8o-1ubuntu4 [400kB]
5% [Waiting for headers] 1693kB/s 2min 26s
```

```
root@ubuntu: /
Package configuration

#####
#####* Configuring libpam0g #####
#####
Most services that use PAM need to be restarted to use modules built for this
new version of libpam. Please review the following space-separated list of
init.d scripts for services to be restarted now, and correct it if needed.

Services to restart for PAM library upgrade:
squid3 samba proftpd gdm cups cron courier-authdaemon atd

<Ok>
#####
```

```
root@ubuntu: /
Unpacking replacement libpam0g ...
Setting up libpam0g (1.1.1-4ubuntu1) ...
Checking for services that may need to be restarted...Checking init scripts...

Restarting services possibly affected by the upgrade:
squid3: stopping...starting...done.
samba: stopping...starting...done.
proftpd: stopping...starting...done.
gdm: reloading...done.
cups: stopping...starting...done.
cron: stopping...starting...done.
courier-authdaemon: stopping...starting...done.
atd: stopping...starting...done.

Services restarted successfully.

Processing triggers for libc-bin ...
ldconfig deferred processing now taking place
(Reading database ... 117414 files and directories currently installed.)
Preparing to replace libselinux1 2.0.65-3build1 (using .../libselinux1_2.0.94-1_i386.d
eb) ...
Unpacking replacement libselinux1 ...
```

```
root@ubuntu: /
Registering documents with scrollkeeper...
Setting up base-passwd (3.5.22) ...

(Reading database ... 117414 files and directories currently installed.)
Preparing to replace base-files 5ubuntu4 (using .../base-files_5.0.0ubuntu23_i386.deb)
...
Unpacking replacement base-files ...
Replacing files in old package dpkg ...
Processing triggers for man-db ...
Setting up base-files (5.0.0ubuntu23) ...
Installing new version of config file /etc/debian version ...
Installing new version of config file /etc/issue ...
Installing new version of config file /etc/issue.net ...
Installing new version of config file /etc/lsb-release ...

(Reading database ... 117417 files and directories currently installed.)
Preparing to replace libpam-modules 1.0.1-9ubuntu1 (using .../libpam-modules_1.1.1-4ub
untu1_i386.deb) ...
Unpacking replacement libpam-modules ...
Processing triggers for man-db ...
Setting up libpam-modules (1.1.1-4ubuntu1) ...
Installing new version of config file /etc/security/namespace.init ...
```

```
root@ubuntu: /
dpkg: error processing squid (--configure):
 subprocess post-installation script returned error exit status 1
Errors were encountered while processing:
squid
E: Sub-process /usr/bin/dpkg returned an error code (1)
root@ubuntu: /# apt-get remove squid
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
samba-doc
Use 'apt-get autoremove' to remove them.
The following packages will be REMOVED:
squid
0 upgraded, 0 newly installed, 1 to remove and 474 not upgraded.
1 not fully installed or removed.
After this operation, 1946kB disk space will be freed.
Do you want to continue [Y/n]?
(Reading database ... 122336 files and directories currently installed.)
Removing squid ...
status: Unknown job: squid
Processing triggers for man-db ...
Processing triggers for ufw ...
root@ubuntu: /#
```

```
root@ubuntu: /
root@ubuntu: /# nmap localhost

Starting Nmap 4.76 ( http://nmap.org ) at 2011-11-05 11:08 WIT
Warning: Hostname localhost resolves to 2 IPs. Using 127.0.0.1.
Interesting ports on localhost (127.0.0.1):
Not shown: 986 closed ports
PORT      STATE SERVICE
21/tcp    open  ftp
22/tcp    open  ssh
25/tcp    open  smtp
53/tcp    open  domain
80/tcp    open  http
110/tcp   open  pop3
111/tcp   open  rpcbind
139/tcp   open  netbios-ssn
143/tcp   open  imap
445/tcp   open  microsoft-ds
631/tcp   open  ipp
901/tcp   open  samba-swat
2049/tcp  open  nfs
3306/tcp  open  mysql

Nmap done: 1 IP address (1 host up) scanned in 0.09 seconds
root@ubuntu: /#
```

```
root@ubuntu: /
root@ubuntu: /# /etc/init.d/squid3 start
* Starting Squid HTTP Proxy 3.x squid3
* Creating Squid HTTP Proxy 3.x cache structure
2011/11/05 11:09:06| Creating Swap Directories

[ OK ]

root@ubuntu: /# nmap localhost

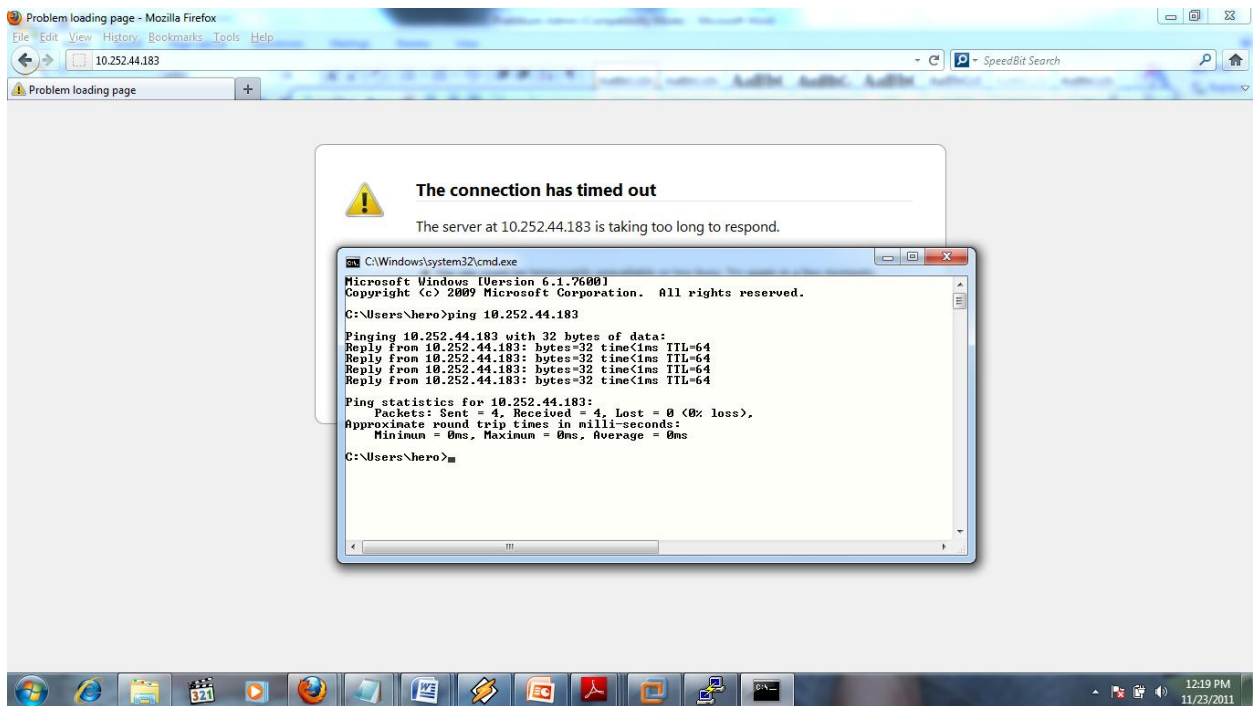
Starting Nmap 4.76 ( http://nmap.org ) at 2011-11-05 11:09 WIT
Warning: Hostname localhost resolves to 2 IPs. Using 127.0.0.1.
Interesting ports on localhost (127.0.0.1):
Not shown: 985 closed ports
PORT      STATE SERVICE
21/tcp    open  ftp
22/tcp    open  ssh
25/tcp    open  smtp
53/tcp    open  domain
80/tcp    open  http
110/tcp   open  pop3
111/tcp   open  rpcbind
139/tcp   open  netbios-ssn
143/tcp   open  imap
445/tcp   open  microsoft-ds
631/tcp   open  ipp
901/tcp   open  samba-swat
2049/tcp  open  nfs
3128/tcp  open  squid-http
3306/tcp  open  mysql

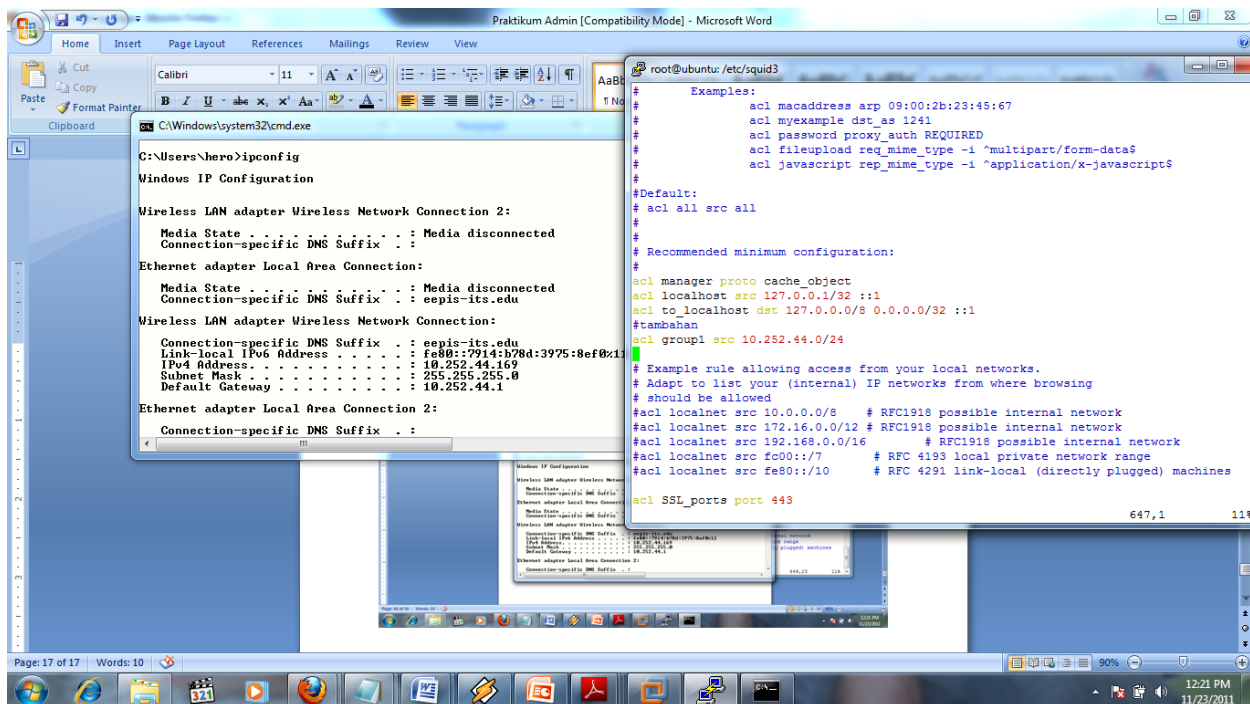
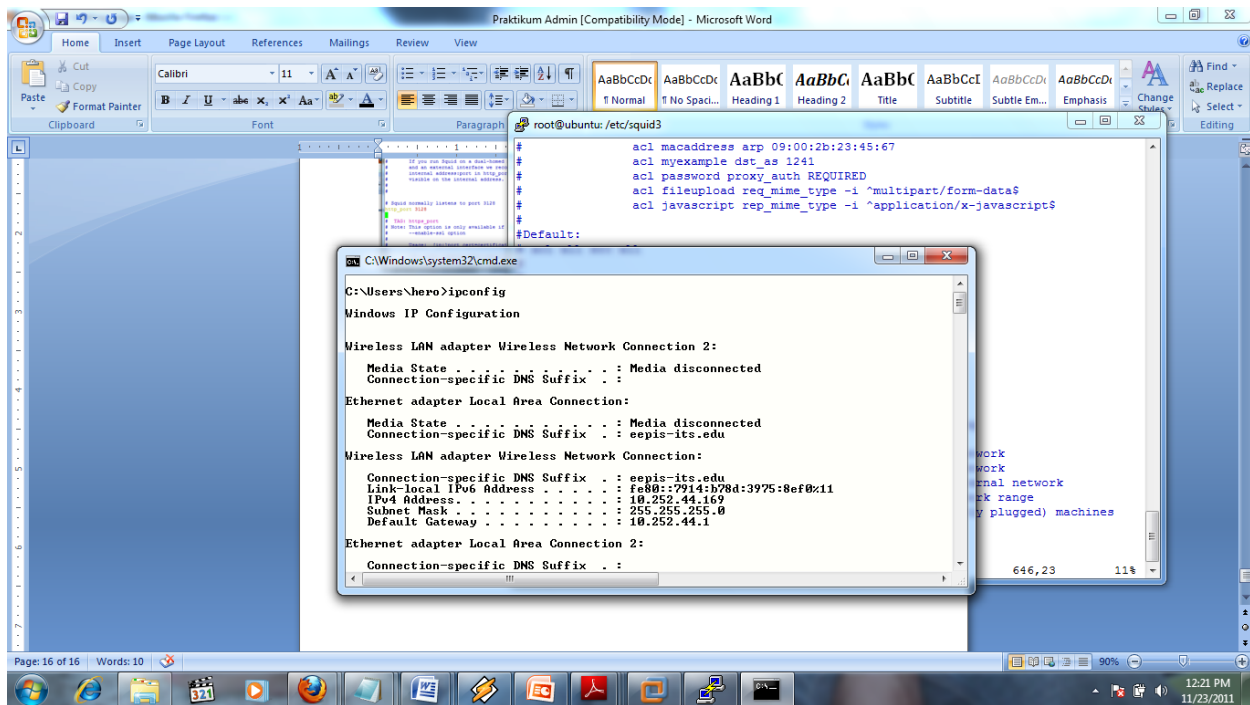
Nmap done: 1 IP address (1 host up) scanned in 0.21 seconds
root@ubuntu: /#
```

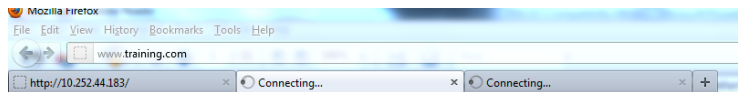
```
root@ubuntu: /etc/squid3
root@ubuntu: /# cd /etc/squi
squid/      squid3/      squirrelmail/
root@ubuntu: /# cd /etc/squid3/
root@ubuntu: /etc/squid3# ls
errorpage.css  mntauth.conf  squid.conf
root@ubuntu: /etc/squid3# cp squid.conf squid.conf.asli
root@ubuntu: /etc/squid3#
```

```
root@ubuntu: /etc/squid3
# WELCOME TO SQUID 3.1.6
# -----
#
# This is the default Squid configuration file. You may wish
# to look at the Squid home page (http://www.squid-cache.org/)
# for the FAQ and other documentation.
#
# The default Squid config file shows what the defaults for
# various options happen to be. If you don't need to change the
# default, you shouldn't uncomment the line. Doing so may cause
# run-time problems. In some cases "none" refers to no default
# setting at all, while in other cases it refers to a valid
# option - the comments for that keyword indicate if this is the
# case.
#
# Configuration options can be included using the "include" directive.
# Include takes a list of files to include. Quoting and wildcards is
# supported.
#
# For example,
#
# include /path/to/included/file/squid.acl.config
#
# Includes can be nested up to a hard-coded depth of 16 levels.
# This arbitrary restriction is to prevent recursive include references
# from causing Squid entering an infinite loop whilst trying to load
# configuration files.
#
# 8,1 Top
```

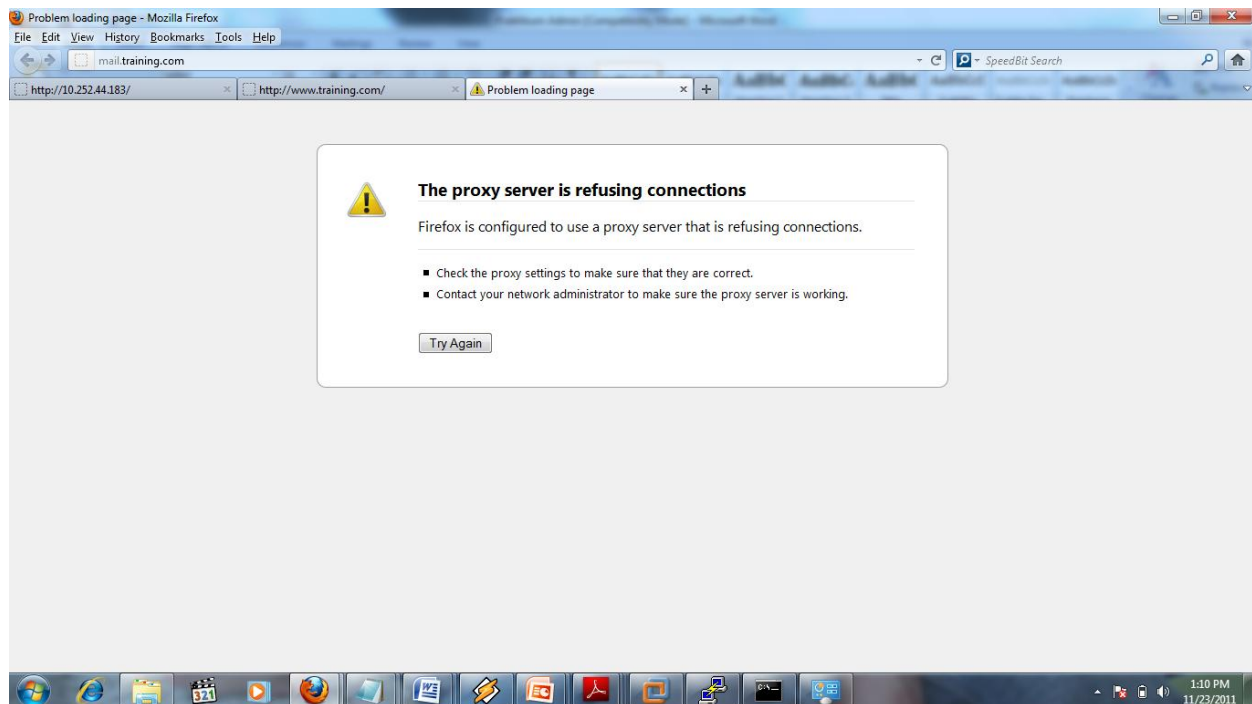
```
root@ubuntu: /etc/squid3
# The ssl_bump option is required to fully enable
# the SslBump feature.
#
# name= Specifies a internal name for the port. Defaults to
# the port specification (port or addr:port)
#
# topkeepalive[=idle,interval,timeout]
# Enable TCP keepalive probes of idle connections.
# In seconds; idle is the initial time before TCP starts
# probing the connection, interval how often to probe, and
# timeout the time before giving up.
#
# If you run Squid on a dual-homed machine with an internal
# and an external interface we recommend you to specify the
# internal address:port in http_port. This way Squid will only be
# visible on the internal address.
#
# Squid normally listens to port 3128
http_port 3128
# TAG: https_port
# Note: This option is only available if Squid is rebuilt with the
# --enable-ssl option
#
# Usage: [ip:]port cert=certificate.pem [key=key.pem] [options...]
#
# The socket address where Squid will listen for HTTPS client
1076,0-1 194
```







```
C:\Windows\system32\cmd.exe
C:\Users\hero>ping www.training.com
Pinging www.training.com [10.252.44.183] with 32 bytes of data:
Reply from 10.252.44.183: bytes=32 time<1ms TTL=64
Reply from 10.252.44.183: bytes=32 time<1ms TTL=64
Ping statistics for 10.252.44.183:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
Control-C
^C
C:\Users\hero>ping mail.training.com
Pinging mail.training.com [10.252.44.183] with 32 bytes of data:
Reply from 10.252.44.183: bytes=32 time<1ms TTL=64
Ping statistics for 10.252.44.183:
    Packets: Sent = 1, Received = 1, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
Control-C
^C
C:\Users\hero>
```

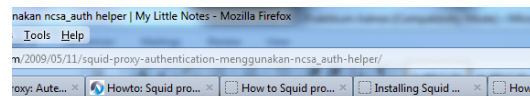


```
root@ubuntu: /etc/squid3
# match against a named cache_peer entry
# set unique name= on cache_peer lines for reliable use.
#
acl aclname time [day-abbrevs] [h1:m1-h2:m2]
# [fast]
# day-abbrevs:
#   S - Sunday
#   M - Monday
#   T - Tuesday
#   W - Wednesday
#   H - Thursday
#   F - Friday
#   A - Saturday
# h1:m1 must be less than h2:m2
#
acl aclname url_regex [-i] ^http:// ...
# regex matching on whole URL [fast]
## tambahan
acl situs2 url_regex -i www.training.com
#
acl aclname uripath_regex [-i] \.gif$ ...
# regex matching on URL path [fast]
```



```
root@ubuntu:/etc/squid3# ls /usr/lib/squid3/
digest_ldap_auth      ntlm_smb_lm_auth      squid_kerb_auth_test
digest_pw_auth         pam_auth               squid_ldap_auth
diakd                  pop3.pl                squid_ldap_group
getpwnam_auth          sasl_auth              squid_radius_auth
ip_user_check          smb_auth               squid_session
mnt_auth               smb_auth.pl            squid_unix_group
ncsa_auth              smb_auth.sh            unlinkd
negotiate_kerb_auth     squid_db_auth          wbinform_group.pl
negotiate_kerb_auth_test squid_kerb_auth         vp_auth
root@ubuntu:/etc/squid3# ls /usr/lib/squid3/ncsa_auth
/usr/lib/squid3/ncsa_auth
root@ubuntu:/etc/squid3# ls
errorpage.css  mntauth.conf  passwd  squid.conf  squid.conf.asli
root@ubuntu:/etc/squid3# ls passwd
passwd
root@ubuntu:/etc/squid3#
```

```
#
#
# Examples:
#
##Recommended minimum configuration per scheme:
##auth_param negotiate program <uncomment and complete this line to activate>
##auth_param negotiate children 5
##auth_param negotiate keep_alive on
##
##auth_param ntlm program <uncomment and complete this line to activate>
##auth_param ntlm children 5
##auth_param ntlm keep_alive on
##
##auth_param digest program <uncomment and complete this line>
##auth_param digest children 5
##auth_param digest realm Squid proxy-caching web server
##auth_param digest nonce_max_count 5 minutes
##auth_param digest nonce_max_duration 30 minutes
##auth_param digest nonce_max_count 50
##
##auth_param basic program <uncomment and complete this line>
##auth_param basic children 5
##auth_param basic realm Squid proxy-caching web server
##auth_param basic credentialsttl 2 hours
#Default:
# none
# TAG: authenticate_cache_garbage_interval
# The time period between garbage collection across the username cache.
298,3 48
```



/usr/lib/squid/ncsa_auth

Step # 3: Configure ncsa_auth for squid proxy authentication

Now open /etc/squid/squid.conf file

```
# vi /etc/squid/squid.conf
```

Append (or modify) following configuration directive:

```
auth_param basic program /usr/lib/squid/ncsa_auth /etc/squid/passwd
auth_param basic children 5
auth_param basic realm Squid proxy-caching web server
auth_param basic credentialsttl 2 hours
auth_param basic casesensitive off
```

Also find out your ACL section and append/modify

```
acl ncsa_users proxy_auth REQUIRED
http_access allow ncsa_users
```

Save and close the file.

Where,

- **auth_param basic program /usr/lib/squid/ncsa_auth**
/etc/squid/passwd : Specify squid password file and helper program location
- **auth_param basic children 5** : The number of authenticator

