KanREN DHCP Seminar November 7-9, 2005

Server Setup Procedures

First, login to your server. Because you'll be experimenting with your network settings throughout the seminar, each station has a serial connection that can always be used to login to your server, even if your network isn't currently usable. Connect your serial port to the console server and start a communications program (Windows HyperTerminal, Mac ZTerm) at 9600 8N1. Press Return a few times until you get a prompt. Type

telnet <your server IP>

and you should get a server login prompt. Login as the user "dhcp" using the password "FrIedlEb", then type "su -" and reenter the same password. So far, it should look something like this:

```
Terminal-Keith>telnet 192.168.10.253
Trying 192.168.10.253 ... Open

OpenBSD/i386 (lab1.kanren.net) (ttyp0)

User not authenticated. Using plaintext username and password
login: dhcp
Password:
OpenBSD 3.7 (GENERIC) #0: Mon Aug  8 14:36:18 CDT 2005

Welcome to OpenBSD: The proactively secure Unix-like operating system.

lab1.kanren.net: KanREN's lab/testing server
lab1:/home/dhcp $ su -
Password:
lab1:/root #
```

Next, create the directory for building the software and download the source code:

```
lab1:/root # cd /usr/local
lab1:/usr/local # mkdir src
lab1:/usr/local # cd src
lab1:/usr/local/src # wget ftp://ftp.isc.org/isc/dhcp/dhcp-3.0.4b2.tar.gz
--09:54:02--  ftp://ftp.isc.org/isc/dhcp/dhcp-3.0.4b2.tar.gz
           => `dhcp-3.0.4b2.tar.gz'
Resolving ftp.isc.org... done.
Connecting to ftp.isc.org[2001:4f8:0:2::18]:21... failed: No route to host.
Connecting to ftp.isc.org[204.152.184.110]:21... connected.
Logging in as anonymous ... Logged in!
==> SYST ... done.    ==> PWD ... done.
==> TYPE I ... done.  ==> CWD /isc/dhcp ... done.
==> PASV ... done.    ==> RETR dhcp-3.0.4b2.tar.gz ... done.
Length: 879,844 (unauthoritative)

100%[====================================>] 879,844      319.53K/s    ETA
00:00

09:54:05 (319.53 KB/s) - `dhcp-3.0.4b2.tar.gz' saved [879844]

lab1:/usr/local/src # ls
```

```
dhcp-3.0.4b2.tar.gz
```

Unpack the source code, change into the source directory, backup the site configuration file, and download a tailored site configuration file.

```
lab1:/usr/local/src # tar xzf dhcp-3.0.4b2.tar.gz
lab1:/usr/local/src # ls
dhcp-3.0.4b2/              dhcp-3.0.4b2.tar.gz

lab1:/usr/local/src # cd dhcp-3.0.4b2/
lab1:/usr/local/src/dhcp-3.0.4b2 # ls
LICENSE         README          configure*      dst/            relay/
Makefile        RELNOTES        contrib/        includes/       server/
Makefile.conf   client/         dhcpctl/        minires/        site.conf
Makefile.dist   common/         doc/            omapip/         tests/
lab1:/usr/local/src/dhcp-3.0.4b2 # mv site.conf site.conf-orig
lab1:/usr/local/src/dhcp-3.0.4b2 # wget http://www.neufeld.newton.ks.us/dhc
p/site.conf
--10:14:55--  http://www.neufeld.newton.ks.us/dhcp/site.conf
           => `site.conf'
Resolving www.neufeld.newton.ks.us... done.
Connecting to www.neufeld.newton.ks.us[64.217.128.57]:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 831 [text/plain]

100%[====================================>] 831           811.52K/s    ETA
00:00

10:14:55 (811.52 KB/s) - `site.conf' saved [831/831]
```

Run the configuration script and start the build process.

```
lab1:/usr/local/src/dhcp-3.0.4b2 # ./configure
System Type: openbsd
Making links in common
Making links in minires
Making links in dst
Making links in omapip
Making links in server
Making links in client
Making links in relay
Making links in dhcpctl
lab1:/usr/local/src/dhcp-3.0.4b2 # make
[lots and lots of output]
```

Install the newly-built server into the system locations.

```
lab1:/usr/local/src/dhcp-3.0.4b2 # make install
[lots and lots of output]
```

Congratulations! The server is built, installed, and ready to configure and start using!