

KanREN DHCP Seminar November 7-9, 2005

Configuring Client Options

The ISC server specifies optional information to pass to the client using the `option <option-name> <option-value>` syntax. A list of supported options is available in Appendix D of *The DHCP Handbook* by Droms and Lemon, and in the Unix man page for `dhcp-options`.

Two options are already in use in the classroom configuration—the DNS domain name and DNS nameserver list:

```
# Define domain name and nameservers for entire lab.
option domain-name "kanren.net";
option domain-name-servers 164.113.130.1, 164.113.207.250,
    164.113.92.251, 164.113.31.235;
```

Unfortunately, there are very few other options that are easy to demonstrate without additional infrastructure that's not available here. For the sake of an example, configure a NETBIOS (WINS) nameserver to send to your client. Add the following to your main configuration file in the global section:

```
# Pass a NETBIOS nameserver option to the client.
option netbios-name-servers 192.168.10.253;
```

Test your configuration, then activate your changes.

```
lab1:/var/dhcp # dhcpcd -t
Internet Systems Consortium DHCP Server V3.0.4b2
Copyright 2004-2005 Internet Systems Consortium.
All rights reserved.
For info, please visit http://www.isc.org/sw/dhcp/
lab1:/var/dhcp # kill `cat dhcpcd.pid`
lab1:/var/dhcp # dhcpcd
```

If you renew the lease on your client, it should receive the new setting. I'm not sure whether there's a way to view that on a Mac, but on a Windows machine, you should see it as one of the entries under `ipconfig /all`.