

KanREN DHCP Seminar November 7-9, 2005

Configuring Remote Subnets

To configure a DHCP server to grant addresses on multiple subnets, the router should be configured to relay DHCP messages from the remote subnets to the server. On a Cisco router, that looks like this:

```
interface Vlan11
  ip address 192.168.11.254 255.255.255.0
  ip helper-address 192.168.10.253
```

This has already been configured for the classroom green network.

Next, define the new subnet to the server. Create a new configuration file called *dhcpd.conf-subnets*, and enter your new subnet declaration.

```
subnet 192.168.11.0 netmask 255.255.255.0 {
  option routers 192.168.11.254;

  range 192.168.11.32 192.168.11.63;
}
```

Then include the subnets file into the main configuration file:

```
# Include subnet declarations
include "dhcpd.conf-subnets";
```

Test your configuration, then activate your changes.

```
lab1:/var/dhcp # dhcpd -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 dhcpd.pid`
lab1:/var/dhcp # dhcpd
```

Now move your client to the green network and make sure you can get an IP address and reach the Internet.

Success!