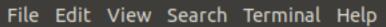
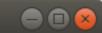
joe@dhcp:~\$ sudo apt install isc-dhcp-server



joe@dhcp:~\$ echo "Define the network range that DHCP should answer requests for"
Define the network range that DHCP should answer requests for

joe@dhcp:~\$





joe@dhcp:~\$ cd /etc/dhcp/

joe@dhcp:/etc/dhcp\$ sudo vi dhcpd.conf

```
File Edit View Search Terminal Help
```

```
# dhcpd.conf
# Sample configuration file for ISC dhcpd
# Attention: If /etc/ltsp/dhcpd.conf exists, that will be used as
# configuration file instead of this file.
# option definitions common to all supported networks...
option domain-name "thegummibear.com";
option domain-name-servers 144.38.192.2, 144.38.192.3;
default-lease-time 600;
max-lease-time 7200;
# 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;
```

- # If this DHCP server is the official DHCP server for the local
- # network, the authoritative directive should be uncommented.
- #authoritative;
- # Use this to send dhcp log messages to a different log file (you also
- # have to hack syslog.conf to complete the redirection).
- #log-facility local7;
- "dhcpd.conf" 111L, 3645C written



```
default-lease-time 600;
max-lease-time 7200;
# 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.)
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# If this DHCP server is the official DHCP server for the local
# network, the authoritative directive should be uncommented.
authoritative;
# Use this to send dhcp log messages to a different log file (you also
# have to hack syslog.conf to complete the redirection).
#log-facility local7;
# No service will be given on this subnet, but declaring it helps the
# DHCP server to understand the network topology.
#subnet 10.152.187.0 netmask 255.255.255.0 {
#}
# This is a very basic subnet declaration.
#subnet 10.254.239.0 netmask 255.255.255.224 {
# range 10.254.239.10 10.254.239.20;
# option routers rtr-239-0-1.example.org, rtr-239-0-2.example.org;
```

```
default-lease-time 600;
max-lease-time 7200;
# 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
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#subnet 10.254.239.0 netmask 255.255.255.224 {
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```

option routers rtr-239-0-1.example.org, rtr-239-0-2.example.org;

"dhcpd.conf" 111L, 3643C written

```
File Edit View Search Terminal Help
```

```
# behavior of the version 2 packages ('none', since DHCP v2 didn't
# have support for DDNS.)
ddns-update-style none;
# If this DHCP server is the official DHCP server for the local
# network, the authoritative directive should be uncommented.
authoritative;
# Use this to send dhcp log messages to a different log file (you also
# have to hack syslog.conf to complete the redirection).
log-facility local7;
# No service will be given on this subnet, but declaring it helps the
# DHCP server to understand the network topology.
subnet 144.38.199.32 netmask 255.255.255.240 {
 # what part of this range should be served dynamically?
 range 144.38.199.40 144.38.199.46;
 #override a global option if you want
 option domain-name-servers 8.8.8.8;
 #option domain-name "foobar.com";
 option subnet-mask 255.255.255.240;
 option routers 144.38.199.33;
```

I have deleted everything below this for clarity (it was all comments)

"dhcpd.conf" 44L, 1455C written

41,2



joe@dhcp:/etc/dhcp\$ sudo service isc-dhcp-server restart
joe@dhcp:/etc/dhcp\$

```
joe@dhcp:/etc/dhcp$ sudo tail /var/log/syslog
```

Jan 10 10:17:57 bionic-template dhcpd[9926]: For info, please visit https://www.isc.org/software/dhcp/

Jan 10 10:17:57 bionic-template dhcpd[9926]: Wrote 0 leases to leases file.

Jan 10 10:17:57 bionic-template sh[9926]: Wrote 0 leases to leases file.

Jan 10 10:17:57 bionic-template dhcpd[9926]: Listening on LPF/ens4/52:54:00:08:00:32/144.3 8.199.32/28

Jan 10 10:17:57 bionic-template sh[9926]: Listening on LPF/ens4/52:54:00:08:00:32/144.38.1 99.32/28

Jan 10 10:17:57 bionic-template dhcpd[9926]: Sending on LPF/ens4/52:54:00:08:00:32/144.3 8.199.32/28

Jan 10 10:17:57 bionic-template sh[9926]: Sending on LPF/ens4/52:54:00:08:00:32/144.38.1 99.32/28

Jan 10 10:17:57 bionic-template dhcpd[9926]: Sending on Socket/fallback/fallback-net Jan 10 10:17:57 bionic-template sh[9926]: Sending on Socket/fallback/fallback-net Jan 10 10:17:57 bionic-template dhcpd[9926]: Server starting service.

joe@dhcp:/etc/dhcp\$



joe@dhcp:/etc/dhcp\$ echo "Also, make sure your dhcp server is using a static address"
Also, make sure your dhcp server is using a static address

joe@dhcp:/etc/dhcp\$

```
File Edit View Search Terminal Help
joe@dhcp:/etc/dhcp$ echo "Also, make sure your dhcp server is using a static address"
Also, make sure your dhcp server is using a static address
joe@dhcp:/etc/dhcp$ cat /etc/netplan/01-netcfg.yaml
# This file describes the network interfaces available on your system
# For more information, see netplan(5).
network:
 version: 2
 renderer: networkd
 ethernets:
    ens4:
            #dhcp4: true
                  addresses: [ 144.38.199.34/28 ]
                  gateway4: 144.38.199.33
                  nameservers:
                       search: [ cs.dixie.edu ]
                       addresses:
                           - "144.38.192.2"
                           - "144.38.192.3"
joe@dhcp:/etc/dhcp$ echo "Yay"
```

Yay

joe@dhcp:/etc/dhcp\$