Homework: Dynamic Host Configuration Protocol (DHCP)

Assumed Centos 8 minimal install stream in VirtualBox in TestVM1 and TestVM2

On the TestVM1:

```
$ in I
2: enp0s3: <BROADCAST, MULTICAST, UP, LOWER UP> mtu 1500 gdisc fg codel state UP mode
DEFAULT group default glen 1000
   link/ether 08:00:27:fe:94:09 brd ff:ff:ff:ff:ff
$ sudo nmcli con modify enp0s3 ipv4.addresses 192.168.2.99 192.168.168.192 ipv4.method
manual ipv4.gateway 192.168.2.253
$ sudo nmcli con mod enp0s3 autoconnect yes
$ sudo nmcli con up enp0s3
$ echo nameserver 8.8.8.8 > /etc/reslov.conf
$ sudo dnf -y update
$ sudo dnf -y install dhcp-server
$ sudo vi /etc/dhcp/dhcpd.conf
option domain-name "my-devops-school.com";
option domain-name-servers ns1.my-devops-school.com;
```

```
authoritative:
default-lease-time 600:
max-lease-time 7200;
subnet 192.168.168.0 netmask 255.255.255.0 {
    range dynamic-bootp 192.168.168.193 192.168.168.200;
    option broadcast-address 192.168.168.255;
    option routers 192.168.168.192;
$ sudo systemctl enable --now dhcpd
 sudo firewall-cmd --add-service=dhcp --permanent
 sudo firewall-cmd -reload
$ sudo dnf -y install net-tools
$ sudo netstat -tuanp | grep dhcpd
                   0 0.0.0.0:67
udp
On the TestVM2
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER UP> mtu 1500 gdisc fg codel state UP mode DEFAULT
group default glen 1000
    link/ether 08:00:27:91:be:21 brd ff:ff:ff:ff:ff:ff
```

```
On the TestVM1
dhcpd.conf:
host myclient {
    hardware ethernet 08:00:27:91:be:21;
    fixed-address 192.168.168.200;
}
$ sudo systemctl restart dhcpd
On the TestVM2
$ dhclient
```