Exercise 39.3 Adding a Network Interface Alias/Address using **nmcli**

We are going to add an additional IPv4 address to your system and make it persistent. We will do this without editing files under /dev directly, using **nmcli**.

1. First obtain your current internet address and interface name:

```
$ sudo nmcli con
NAME            UUID                                   TYPE             DEVICE
Auto Ethernet   1c46bf37-2e4c-460d-8b20-421540f7d0e2   802-3-ethernet   ens33
virbr0          a84a332f-38e3-445a-a377-4363a8eb963f   bridge           virbr0
```

   shows the name of the connection is Auto Ethernet.

```
$ sudo nmcli con show "Auto Ethernet" | grep IP4.ADDRESS
IP4.ADDRESS[1]:                        172.16.2.135/24
```

   shows the address as 172.16.2.135 Note that this command shows all information about the connection and you could have specified the UUID instead of the NAME as in:

```
$ nmcli con show 1c46bf37-2e4c-460d-8b20-421540f7d0e2
```

2. Add a new address that your machine can be seen by:

```
$ sudo nmcli con modify "Auto Ethernet" +ipv4.addresses 172.16.2.140/24
```

3. Activate it and test to see if it is there:

```
$ sudo nmcli con up "Auto Ethernet"
Connection successfully activated (D-Bus active path: /org/freedesktop/NetworkManager/ActiveConnection/6)

$ ping -c 3 172.16.2.140
PING 172.16.2.140 (172.16.2.140) 56(84) bytes of data.
64 bytes from 172.16.2.140: icmp_seq=1 ttl=64 time=0.038 ms
64 bytes from 172.16.2.140: icmp_seq=2 ttl=64 time=0.034 ms
64 bytes from 172.16.2.140: icmp_seq=3 ttl=64 time=0.032 ms

--- 172.16.2.140 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 1998ms
rtt min/avg/max/mdev = 0.032/0.034/0.038/0.007 ms
```

4. Clean up by removing the alias:

```
$ sudo nmcli con modify  "Auto Ethernet" -ipv4.addresses 172.16.2.140/24
...
$ sudo nmcli con up "Auto Ethernet"
...
```