

Question 1-2:

```
[nadasamir@192 ~]$ nmcli connection show
NAME      UUID                                  TYPE      DEVICE
ens33     b31b63ef-2b05-38fb-bd73-8032eaa728f6 ethernet  ens33
[nadasamir@192 ~]$ nmcli connection show ens33
connection.id:          ens33
connection.uuid:        b31b63ef-2b05-38fb-bd73-8032eaa728f6
connection.stable-id:    --
connection.type:         802-3-ethernet
connection.interface-name: ens33
connection.autoconnect:  yes
connection.autoconnect-priority: -999
connection.autoconnect-retries: -1 (default)
connection.multi-connect: 0 (default)
connection.auth-retries: -1
connection.timestamp: 1691597813
connection.read-only: no
connection.permissions: --
connection.zone: --
connection.master: --
connection.slave-type: --
connection.autoconnect-slaves: -1 (default)
connection.secondaries: --
connection.gateway-ping-timeout: 0
```

Question 3:

```
[nadasamir@192 ~]$ nmcli device status
DEVICE  TYPE      STATE      CONNECTION
ens33   ethernet  connected  ens33
lo      loopback  unmanaged  --
```

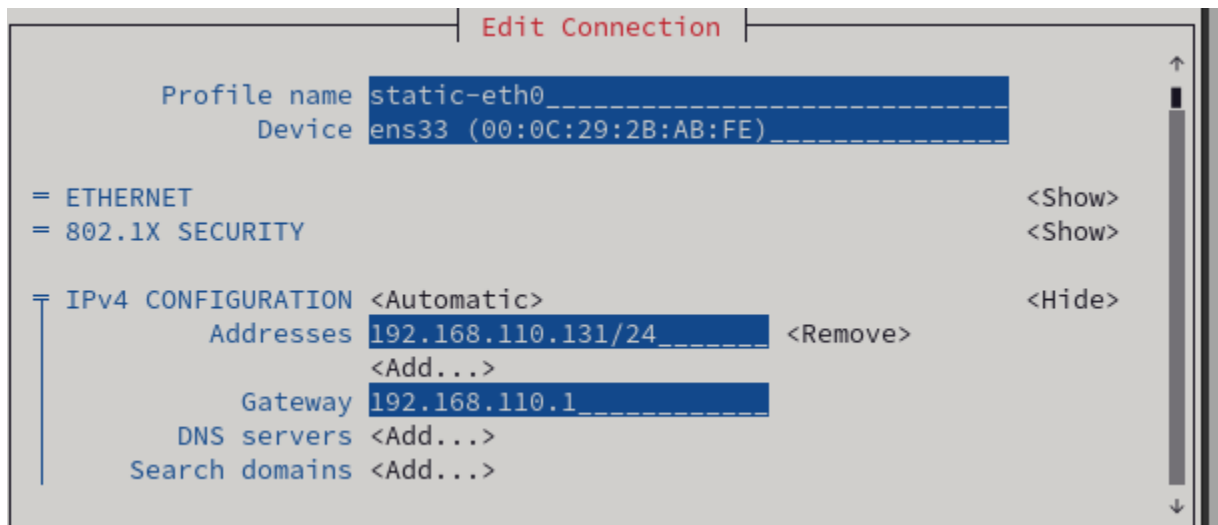
Question 4:

```
[nadasamir@192 ~]$ nmcli device show ens33
GENERAL.DEVICE: ens33
GENERAL.TYPE: ethernet
GENERAL.HWADDR: 00:0C:29:2B:AB:FE
GENERAL.MTU: 1500
GENERAL.STATE: 100 (connected)
GENERAL.CONNECTION: ens33
GENERAL.CON-PATH: /org/freedesktop/NetworkManager/ActiveConnection/1
WIRED-PROPERTIES.CARRIER: on
IP4.ADDRESS[1]: 192.168.110.129/24
IP4.GATEWAY: 192.168.110.2
IP4.ROUTE[1]: dst = 192.168.110.0/24, nh = 0.0.0.0, mt = 1024
IP4.ROUTE[2]: dst = 0.0.0.0/0, nh = 192.168.110.2, mt = 1024
IP4.DNS[1]: 192.168.110.2
IP4.DOMAIN[1]: localdomain
IP6.ADDRESS[1]: fe80::20c:29ff:fe2b:abfe/64
IP6.GATEWAY: --
IP6.ROUTE[1]: dst = fe80::/64, nh = ::, mt = 1024
```

Question 5: using nmcli

```
[root@192 ~]# nmcli connection add type ethernet ifname ens33 con-name static-eth0
ipv4.addresses 192.168.11.131/24 ipv4.gateway 192.168.110.1
Connection 'static-eth0' (7d1d0e1d-cc83-46bc-a82e-3642045413cf) successfully added.
[root@192 ~]#
```

Using nmtui



Question 6:

```
nadasamir@192 ~]$ nmcli connection modify static-eth0 ipv4.dns 8.8.8.8
nadasamir@192 ~]$
```

Question 7:

```
[nadasamir@192 ~]$ nmcli connection up static-eth0
Connection successfully activated (D-Bus active path: /org/freedesktop/NetworkManager/ActiveConnection/2)
```

Question 8:

```
[nadasamir@192 ~]$ nmcli connection show --active
NAME          UUID                                  TYPE      DEVICE
static-eth0    31046071-86d5-4329-a46f-9999fd5d988b ethernet  ens33
```

Question 9:

```
[nadasamir@192 ~]$ ip addr show ens33
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:0c:29:2b:ab:fe brd ff:ff:ff:ff:ff:ff
    altname enp2s1
    inet 192.168.110.131/24 brd 192.168.110.255 scope global noprefixroute ens33
        valid_lft forever preferred_lft forever
    inet 192.168.110.129/24 brd 192.168.110.255 scope global secondary dynamic noprefixroute ens33
        valid_lft 1651sec preferred_lft 1651sec
    inet6 fe80::8f8d:1ba3:a167:a86f/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
```

Question 10:

```
[nadasamir@192 ~]$ ip route show default
default via 192.168.110.1 dev ens33 proto static metric 100
```

Question 11:

```
[nadasamir@192 ~]$ ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=128 time=50.5 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=128 time=71.9 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=128 time=52.6 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=128 time=51.4 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=128 time=52.2 ms
64 bytes from 8.8.8.8: icmp_seq=6 ttl=128 time=52.0 ms
```

Question 12:

```
[nadasamir@192 ~]$ nmcli connection modify ens33 connection.autoconnect no
[nadasamir@192 ~]$
```

Question 14:

```
[nadasamir@192 ~]$ nmcli connection show
```

NAME	UUID	TYPE	DEVICE
static-eth0	96e6abd5-5582-40df-8d68-35015bbc7935	ethernet	ens33
ens33	b31b63ef-2b05-38fb-bd73-8032eaa728f6	ethernet	--

```
[nadasamir@192 ~]$
```

Question 15: changing the ip to 192.168.110.136/24

```
[connection]
id=static-eth0
uuid=96e6abd5-5582-40df-8d68-35015bbc7935
type=ethernet
interface-name=ens33

[ethernet]

[ipv4]
address1=192.168.110.136/24,192.168.110.1
method=auto

[ipv6]
addr-gen-mode=default
method=auto

[proxy]
-- INSERT --
```

10,25 All

Question 16:

```
[root@192 ~]# nmcli connection reload static-eth0
[root@192 ~]# nmcli connection show static-eth0 | grep ipv4
```

ipv4.method:	auto
ipv4.dns:	--
ipv4.dns-search:	--
ipv4.dns-options:	--
ipv4.dns-priority:	0
ipv4.addresses:	192.168.110.136/24
ipv4.gateway:	192.168.110.1
ipv4.routes:	

Question 17&18:

```
[root@192 ~]# hostname
SystemAdmin
[root@192 ~]# hostnamectl status
  Static hostname: n/a
  Transient hostname: SystemAdmin
  Icon name: computer-vm
  Chassis: vm
  Machine ID: 58ac76ed316e42dabee3874d127ae366
  Boot ID: 281dd2e9d612414d848ffb41cc0ab73b
  Virtualization: vmware
  Operating System: CentOS Stream 9
  CPE OS Name: cpe:/o:centos:centos:9
  Kernel: Linux 5.14.0-202.el9.x86_64
  Architecture: x86-64
  Hardware Vendor: VMware, Inc.
  Hardware Model: VMware Virtual Platform
```

Question 19:

```
[root@192 ~]# hostname SYSADMIN
[root@192 ~]# hostname
SYSADMIN
```



Question 20:

```
[root@192 ~]# cat /etc/hostname
SYSADMIN
[root@192 ~]#
```