

Task A:

```
kali2 [Running]
celinaclarkevans@Kali: ~
File Actions Edit View Help
(celinaclarkevans@Kali)-[~]
$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
        inet6 fd17:625c:f037:2:b59f:eb09:4924:6ab8 prefixlen 64 scopeid 0x0<global>
    inet6 fd17:625c:f037:2:a00:27ff:fe50:4651 prefixlen 64 scopeid 0x0<global>
    inet6 fe80::a00:27ff:fe50:4651 prefixlen 64 scopeid 0x20<link>
        ether 08:00:27:50:46:51 txqueuelen 1000 (Ethernet)
        RX packets 9 bytes 3723 (3.6 Kib)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 30 bytes 4974 (4.8 Kib)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
        inet6 ::1 prefixlen 128 scopeid 0x10<host>
loop txqueuelen 1000 (Local Loopback)
    RX packets 8 bytes 480 (480.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 8 bytes 480 (480.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

(celinaclarkevans@Kali)-[~]
$
```

```
(celinaclarkevans@Kali)-[~]
$ route -n
Kernel IP routing table
Destination     Gateway         Genmask         Flags Metric Ref  Use Iface
0.0.0.0         10.0.2.2      0.0.0.0         UG    100    0      0 eth0
10.0.2.0        0.0.0.0       255.255.255.0  U     100    0      0 eth0

(celinaclarkevans@Kali)-[~]
$
```

```
(celinaclarkevans@Kali)-[~]
$ netstat -t
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address          Foreign Address        State
```

```
(celinaclarkevans@Kali)-[~]
$ ping -c 10 ubuntu.com
PING ubuntu.com (185.125.190.21) 56(84) bytes of data.

--- ubuntu.com ping statistics ---
10 packets transmitted, 0 received, 100% packet loss, time 9191ms
```

```
[(celinaclarkevans㉿Kali)-[~]
$ host www.odu.edu
www.odu.edu has address 35.170.140.174
```

```
[(celinaclarkevans㉿Kali)-[~]
$ cat /etc/hostname
Kali
```

```
[(celinaclarkevans㉿Kali)-[~]
$ cat /etc/resolv.conf
# Generated by NetworkManager
search mynetworksettings.com
nameserver 40.219.39.12
nameserver 192.168.1.1
nameserver fd17:625c:f037:2::3
```

```
[(celinaclarkevans㉿Kali)-[~]
$ sudo nano /etc/hostname
[sudo] password for celinaclarkevans:
[(celinaclarkevans㉿Kali)-[~]
$ sudo nano /etc/hosts
```

```
[(celinaclarkevans㉿cclar073)-[~]
$ cat /etc/hostname
cclar073
```

Task B:

```
[(celinaclarkevans㉿cclar073)-[~]
$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 192.168.1.200 netmask 255.255.255.0 broadcast 192.168.1.255
        inet6 2600:4040:1485:900:29fc:412d:1dd7:1412 prefixlen 64 scopeid 0x0<global>
        inet6 2600:4040:1485:900:a00:27ff:fe50:4651 prefixlen 64 scopeid 0x0<global>
        inet6 fe80::a00:27ff:fe50:4651 prefixlen 64 scopeid 0x20<link>
          ether 08:00:27:50:46:51 txqueuelen 1000 (Ethernet)
            RX packets 597 bytes 43805 (42.7 KiB)
            RX errors 0 dropped 121 overruns 0 frame 0
            TX packets 80 bytes 10182 (9.9 KiB)
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
        inet 127.0.0.1 netmask 255.0.0.0
        inet6 ::1 prefixlen 128 scopeid 0x10<host>
          loop txqueuelen 1000 (Local Loopback)
            RX packets 8 bytes 480 (480.0 B)
            RX errors 0 dropped 0 overruns 0 frame 0
            TX packets 8 bytes 480 (480.0 B)
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
(celinaclarkevans@cclar073)~]
$ route -n
Kernel IP routing table
Destination     Gateway     Genmask      Flags Metric Ref Use Iface
0.0.0.0         192.168.1.1 0.0.0.0      UG    100    0    0 eth0
192.168.1.0     0.0.0.0    255.255.255.0 U     100    0    0 eth0
```

*gateway and destination IPs are different

```
(celinaclarkevans@cclar073)~]
$ netstat -t
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address          Foreign Address        State
```

*no difference

```
(celinaclarkevans@cclar073)~]
$ ping -c 10 ubuntu.com
PING ubuntu.com (2620:2d:4000:1::26) 56 data bytes
64 bytes from website-content-cache-1.canonical.com (2620:2d:4000:1::26): icmp_seq=1 ttl=57 time=105 ms
64 bytes from website-content-cache-1.canonical.com (2620:2d:4000:1::26): icmp_seq=2 ttl=57 time=89.3 ms
64 bytes from website-content-cache-1.canonical.com (2620:2d:4000:1::26): icmp_seq=3 ttl=57 time=87.9 ms
64 bytes from website-content-cache-1.canonical.com (2620:2d:4000:1::26): icmp_seq=4 ttl=57 time=87.4 ms
64 bytes from website-content-cache-1.canonical.com (2620:2d:4000:1::26): icmp_seq=5 ttl=57 time=87.4 ms
64 bytes from website-content-cache-1.canonical.com (2620:2d:4000:1::26): icmp_seq=6 ttl=57 time=90.3 ms
64 bytes from website-content-cache-1.canonical.com (2620:2d:4000:1::26): icmp_seq=7 ttl=57 time=88.1 ms
64 bytes from website-content-cache-1.canonical.com (2620:2d:4000:1::26): icmp_seq=8 ttl=57 time=87.4 ms
64 bytes from website-content-cache-1.canonical.com (2620:2d:4000:1::26): icmp_seq=9 ttl=57 time=89.6 ms
64 bytes from website-content-cache-1.canonical.com (2620:2d:4000:1::26): icmp_seq=10 ttl=57 time=87.3 ms

--- ubuntu.com ping statistics ---
10 packets transmitted, 10 received, 0% packet loss, time 9014ms
rtt min/avg/max/mdev = 87.290/89.987/105.088/5.134 ms
```

*Transmitted packets were received

```
(celinaclarkevans@cclar073)~]
$ host www.odu.edu
www.odu.edu has address 35.170.140.174
```

*no difference

```
(celinaclarkevans@cclar073)~]
$ cat /etc/hostname
cclar073
```

*displays the new hostname

```
(celinaclarkevans@cclar073)~]
$ cat /etc/resolv.conf
# Generated by NetworkManager
search mynetworksettings.com
nameserver 192.168.1.1
nameserver 2600:4040:1485:900::1
```

*different nameservers