

Part A-

```
└─$ sudo ifconfig
[sudo] password for apugh006:
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 fe80::a00:27ff:feb4:7c16 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:b4:7c:16 txqueuelen 1000 (Ethernet)
    RX packets 1 bytes 590 (590.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 19 bytes 2826 (2.7 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

└─$ sudo ifconfig
[sudo] password for apugh006:
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 fe80::a00:27ff:feb4:7c16 prefixlen 64 scopeid 0x20<link>
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    RX packets 1 bytes 590 (590.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 19 bytes 2826 (2.7 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
(apugh006@keezybox)-[~]
└─$ sudo netstat -rn
Kernel IP routing table
Destination    Gateway         Genmask         Flags   MSS Window  irtt Iface
0.0.0.0        10.0.2.2       0.0.0.0         UG      0 0        0 eth0
10.0.2.0       0.0.0.0        255.255.255.0   U       0 0        0 eth0
```

```
(apugh006@keezybox)-[~]
└─$ ping -c 10 ubuntu.com
PING ubuntu.com (185.125.190.21) 56(84) bytes of data:
64 bytes from website-content-cache-2.ps5.canonical.com (185.125.190.21): icmp_seq=1 ttl=49 time=82.4 ms
64 bytes from website-content-cache-2.ps5.canonical.com (185.125.190.21): icmp_seq=2 ttl=49 time=81.5 ms
64 bytes from website-content-cache-2.ps5.canonical.com (185.125.190.21): icmp_seq=3 ttl=49 time=81.5 ms
64 bytes from website-content-cache-2.ps5.canonical.com (185.125.190.21): icmp_seq=4 ttl=49 time=80.7 ms
64 bytes from website-content-cache-2.ps5.canonical.com (185.125.190.21): icmp_seq=5 ttl=49 time=83.9 ms
64 bytes from website-content-cache-2.ps5.canonical.com (185.125.190.21): icmp_seq=6 ttl=49 time=81.7 ms
64 bytes from website-content-cache-2.ps5.canonical.com (185.125.190.21): icmp_seq=7 ttl=49 time=81.0 ms
64 bytes from website-content-cache-2.ps5.canonical.com (185.125.190.21): icmp_seq=8 ttl=49 time=82.1 ms
64 bytes from website-content-cache-2.ps5.canonical.com (185.125.190.21): icmp_seq=9 ttl=49 time=81.9 ms
64 bytes from website-content-cache-2.ps5.canonical.com (185.125.190.21): icmp_seq=10 ttl=49 time=81.3 ms

— ubuntu.com ping statistics —
10 packets transmitted, 10 received, 0% packet loss, time 9147ms
rtt min/avg/max/mdev = 80.662/81.783/83.904/0.850 ms
```

```
(apugh006@keezybox)-[~]
└─$ host www.odu.edu
www.odu.edu has address 35.170.140.174
```

```
(apugh006@keezybox)-[~]
└─$ cat /etc/hostname
keezybox
```

```
(apugh006@keezybox)-[~]
$ cat /etc/resolv.conf
# Generated by NetworkManager
search wlan.odu.edu
nameserver 8.8.8.8
nameserver 4.4.4.4
```

```
(apugh006@keezybox)-[/etc]
$ cat /etc/hostname
Apugh006
```

```
(apugh006@Apugh006)-[/etc]
$ sudo reboot
```

Part B

```
(apugh006@Apugh006)-[~]
$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.254.234.83 netmask 255.255.0.0 broadcast 10.254.255.255
    inet6 fe80::a00:27ff:feb4:7c16 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:b4:7c:16 txqueuelen 1000 (Ethernet)
    RX packets 31 bytes 2706 (2.6 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 23 bytes 3650 (3.5 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
(apugh006@Apugh006)-[~]
$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.254.234.83 netmask 255.255.0.0 broadcast 10.254.255.255
    inet6 fe80::a00:27ff:feb4:7c16 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:b4:7c:16 txqueuelen 1000 (Ethernet)
    RX packets 31 bytes 2706 (2.6 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 23 bytes 3650 (3.5 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
(apugh006@Apugh006)-[~]
$ netstat -rn
Kernel IP routing table
Destination        Gateway           Genmask          Flags   MSS Window  irtt Iface
0.0.0.0            10.254.0.1       0.0.0.0          UG      0 0        0 eth0
10.254.0.0         0.0.0.0          255.255.0.0      U       0 0        0 eth0
```