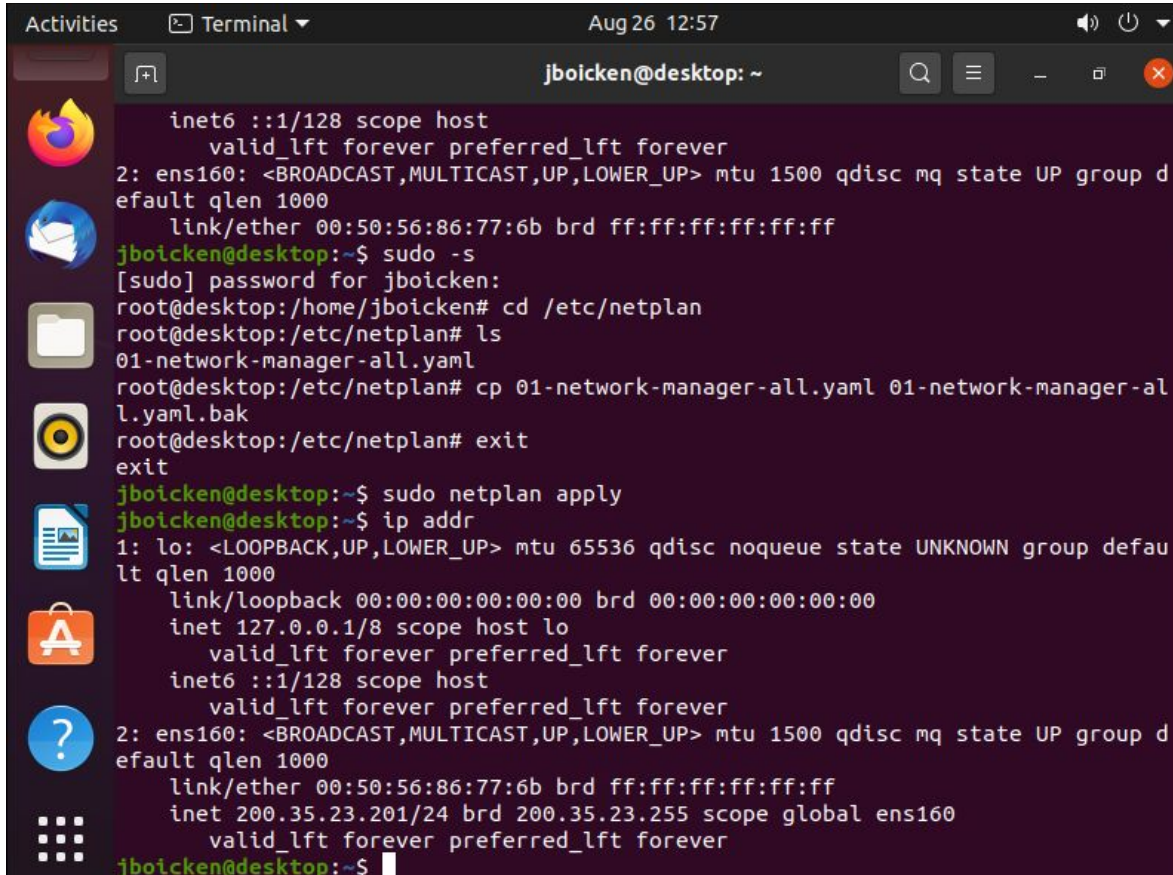


“\$ ip addr” Image:

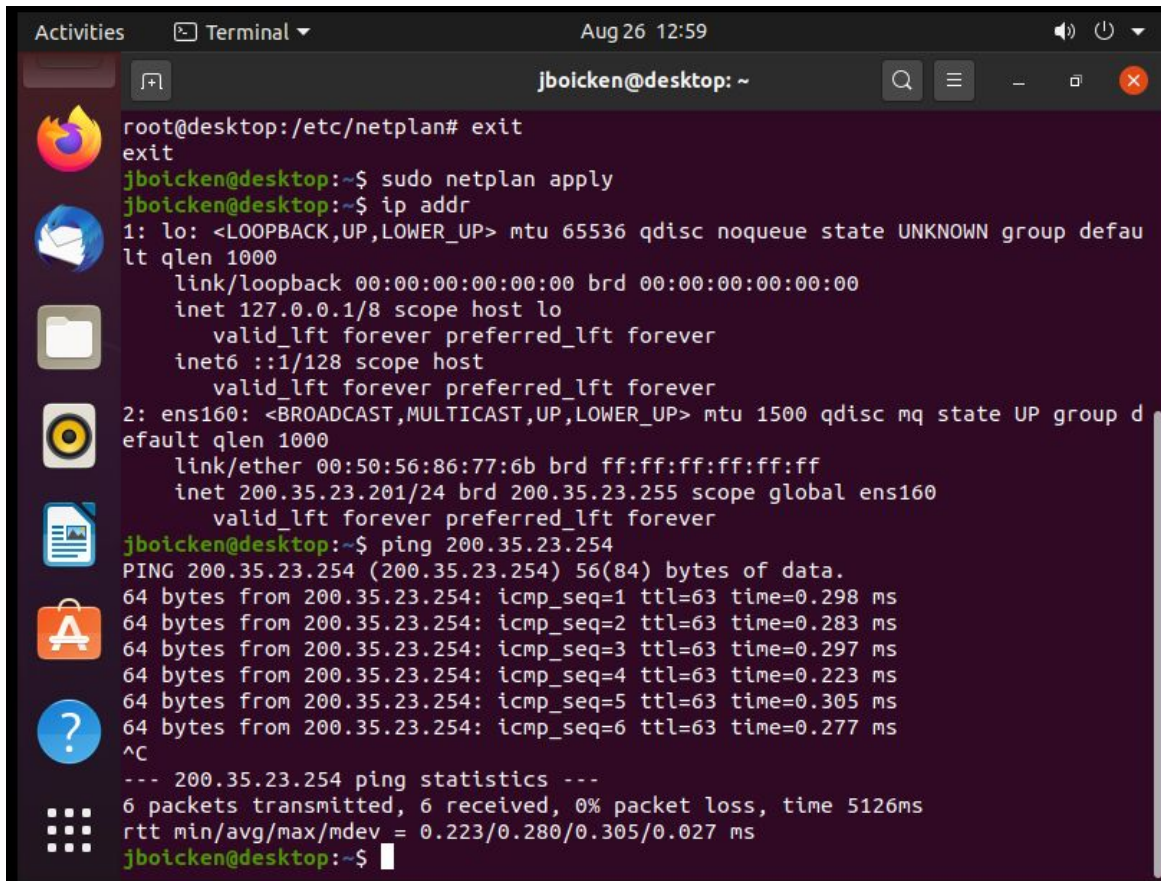


```

Activities  Terminal  Aug 26 12:57
jboicken@desktop: ~

inet6 ::1/128 scope host
    valid_lft forever preferred_lft forever
2: ens160: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group d
efault qlen 1000
    link/ether 00:50:56:86:77:6b brd ff:ff:ff:ff:ff:ff
jboicken@desktop:~$ sudo -s
[sudo] password for jboicken:
root@desktop:/home/jboicken# cd /etc/netplan
root@desktop:/etc/netplan# ls
01-network-manager-all.yaml
root@desktop:/etc/netplan# cp 01-network-manager-all.yaml 01-network-manager-al
l.yaml.bak
root@desktop:/etc/netplan# exit
exit
jboicken@desktop:~$ sudo netplan apply
jboicken@desktop:~$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group defau
lt qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens160: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group d
efault qlen 1000
    link/ether 00:50:56:86:77:6b brd ff:ff:ff:ff:ff:ff
    inet 200.35.23.201/24 brd 200.35.23.255 scope global ens160
        valid_lft forever preferred_lft forever
jboicken@desktop:~$
  
```

Ping Image:

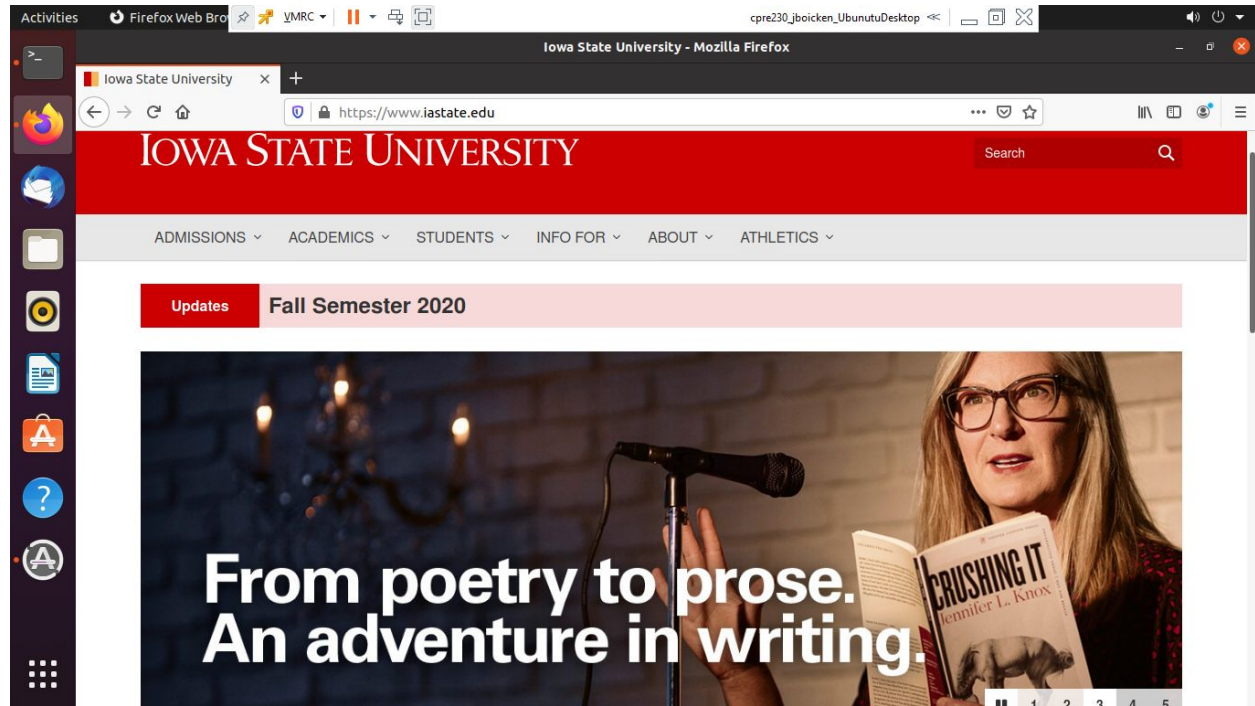


```

Activities  Terminal  Aug 26 12:59
jboicken@desktop: ~

root@desktop:/etc/netplan# exit
exit
jboicken@desktop:~$ sudo netplan apply
jboicken@desktop:~$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group defau
lt qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens160: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group d
efault qlen 1000
    link/ether 00:50:56:86:77:6b brd ff:ff:ff:ff:ff:ff
    inet 200.35.23.201/24 brd 200.35.23.255 scope global ens160
        valid_lft forever preferred_lft forever
jboicken@desktop:~$ ping 200.35.23.254
PING 200.35.23.254 (200.35.23.254) 56(84) bytes of data.
64 bytes from 200.35.23.254: icmp_seq=1 ttl=63 time=0.298 ms
64 bytes from 200.35.23.254: icmp_seq=2 ttl=63 time=0.283 ms
64 bytes from 200.35.23.254: icmp_seq=3 ttl=63 time=0.297 ms
64 bytes from 200.35.23.254: icmp_seq=4 ttl=63 time=0.223 ms
64 bytes from 200.35.23.254: icmp_seq=5 ttl=63 time=0.305 ms
64 bytes from 200.35.23.254: icmp_seq=6 ttl=63 time=0.277 ms
^C
--- 200.35.23.254 ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5126ms
rtt min/avg/max/mdev = 0.223/0.280/0.305/0.027 ms
jboicken@desktop:~$
  
```

<https://www.iastate.edu> Image w/ fixed screen resolution:



Questions:

File	Why is editing this file necessary when setting up my server?
/etc/netplan/01-netcfg.yaml	This file sets up network configurations through Ubuntu's netplan abstraction layer. It allows me to specify which backend to use, networkd or NetworkManager and set up a multitude of different devices like wifi or ethernet. For me, on my lab server, editing this file is needed in order to properly set up ethernet configuration of the machine by setting the IP address, labeling the default gateway, and assigning the dns as the first in the air gap.
/etc/environment	This file creates system wide environment variables for every user. We utilized this because it allows me to then set up variables of X_proxy for every user on a system. For me, on my lab server, editing this file is needed in order to proxy http/s & ftp through the first system in ISERink/ISEAGE's air gap.
/etc/profile	This file is simply just a script that by default run every script in /etc/profile.d. This script is used to set up system wide environment variables more "efficiently", i.e. less writing. For me, on my lab server, editing this file is used to set up the no_proxy env var for each ip given to me. This range being 200.35.23.1 to 200.35.23.254.