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CYSE 270

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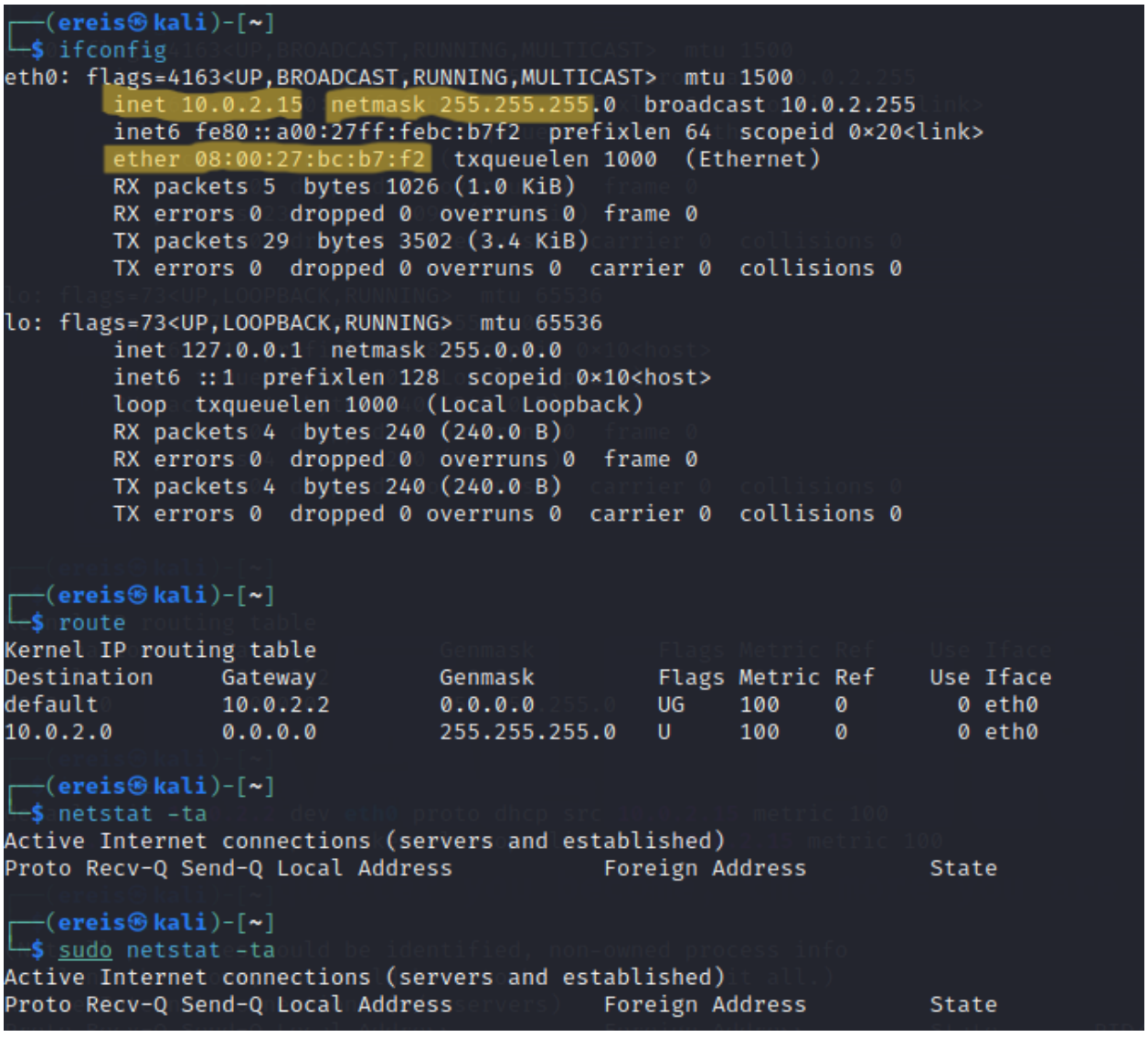
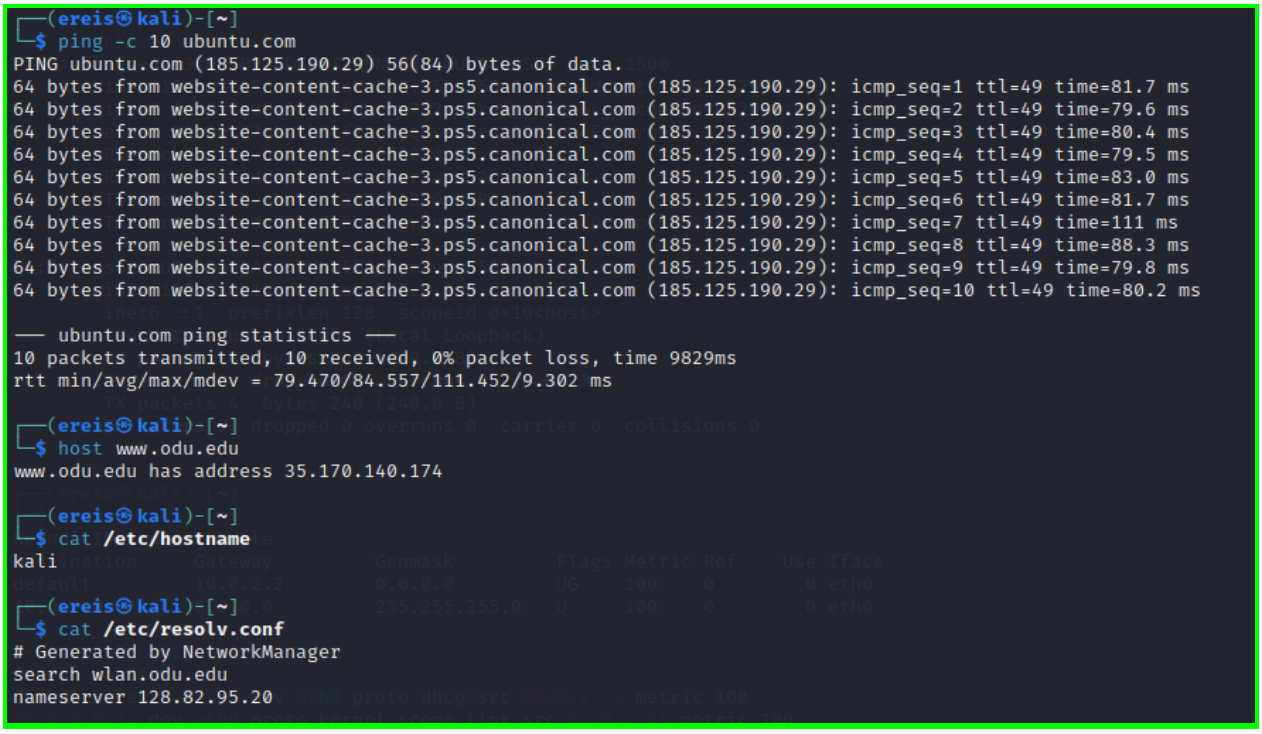
Assignment 11 - Basic Network Configuration

Task A.



Steps 1 - 3

Used the ifconfig command to display IP and Mac Address, as well as the netmask as highlighted above. Then proceeded to use the route command to show the current route table. Finally used the netstat command to display active TCP connections.



Steps 4 - 7

Used the “ping -c 10 ubuntu.com” to send 10 packets to ubuntu.com. I then used the host command on www.odu.edu to perform the DNS query. After that, I used the cat command to display the hostname, and then used the same command to display the resolv.conf information.

```
┌──(ereis㉿kali)-[~]
└─$ vi /etc/hostname

┌──(ereis㉿kali)-[~]
└─$ chmod +w /etc/hostname
chmod: changing permissions of '/etc/hostname': Operation not permitted
┌──(ereis㉿kali)-[~]
└─$ sudo chmod +w /etc/hostname
[sudo] password for ereis:
┌──(ereis㉿kali)-[~]
└─$ vi /etc/hostname
┌──(ereis㉿kali)-[~]
└─$ sudo vi /etc/hostname
```

Step 8 -

I edited the hostname file to change the ownership from kali to my MIDAS “ereis”. A problem arose where I had to use the sudo command as I could not execute the command otherwise.

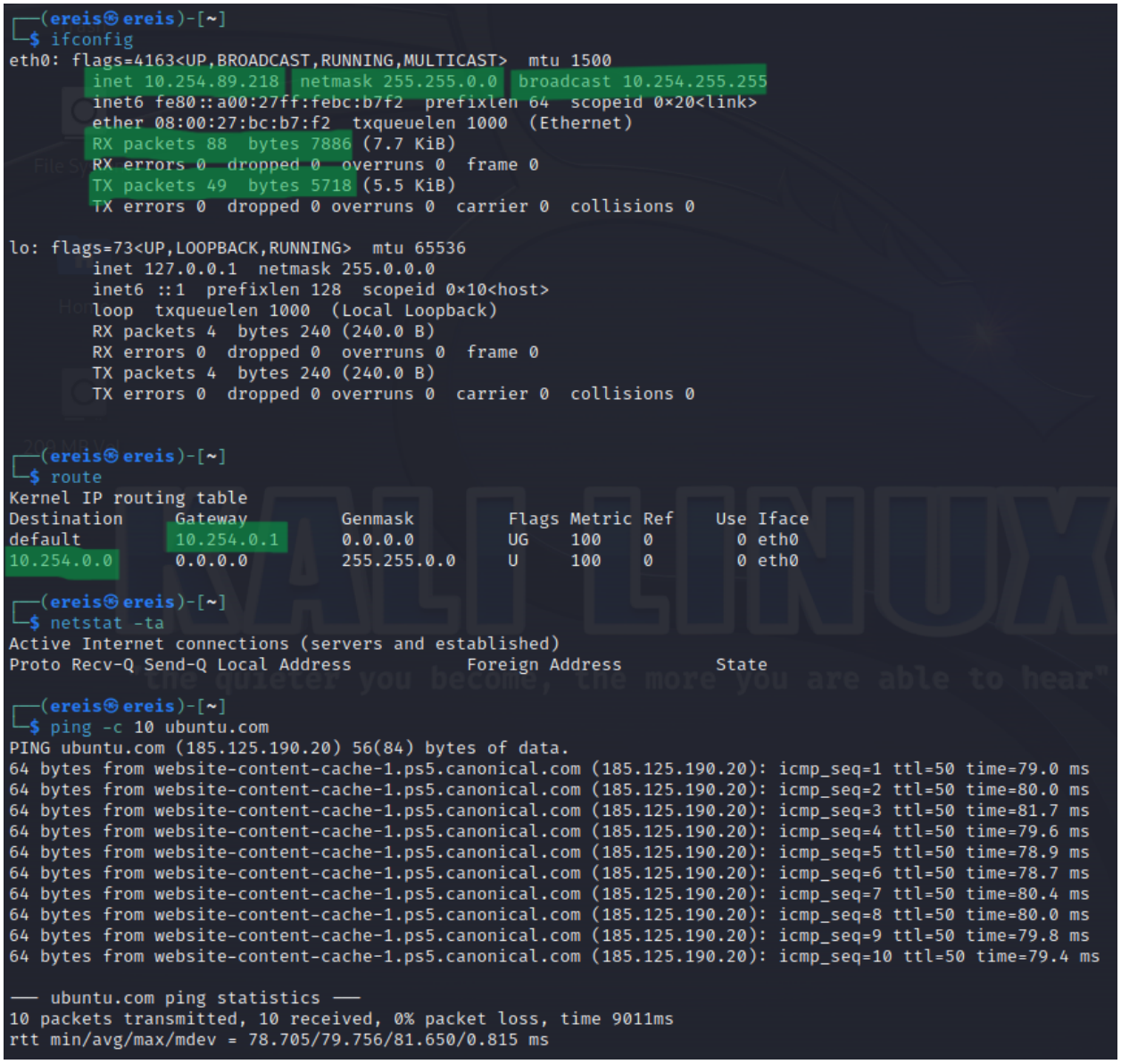
```
┌──(ereis㉿ereis)-[~]
└─$ cat /etc/hostname
ereis

┌──(ereis㉿ereis)-[~]
└─$
```

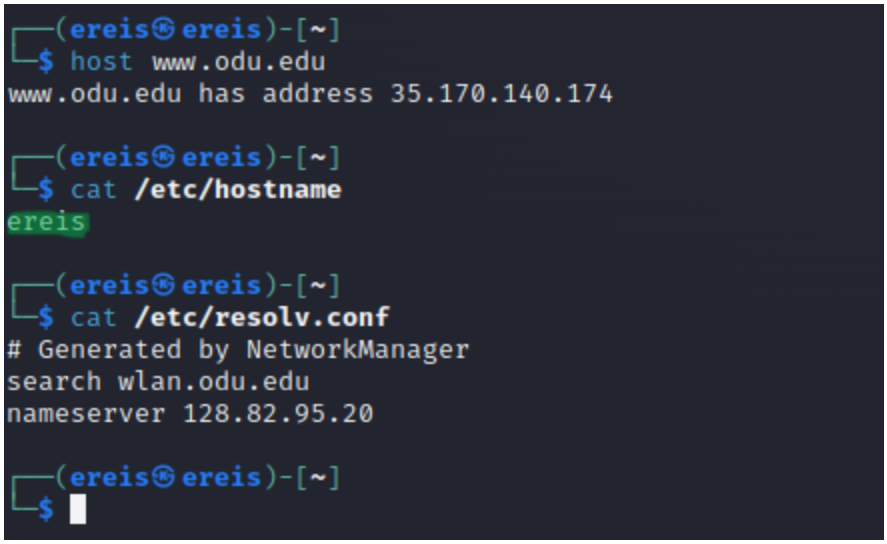
Step 8 cont. -

This is the same cat command used in previous steps, but after a system reboot.

Task B.



Above are the repeated steps from Task A. 1 - 4. Highlighted are the changes that I noticed while looking at the two screenshots. Changes were made to the netmask, MAC Address and the IP Address. Another thing that had changes was the current route table, which showed changes to the destination and gateways.



Finally is the last few steps of Task A. The only noticeable change was made to the /etc/hostname file which had been made in the previous Task.