

Lab 11 Network Basics Configuration.pdf

Step 1-3

```
File Actions Edit View Help
(corey@coreystokes)-[~]
$ 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:f037:2:1d01:7777:b83:bc0 prefixlen 64 scopeid 0<global>
    inet6 fe80::a00:27ff:fe72:e132 prefixlen 64 scopeid 0<link>
    inet6 fd17:625c:f037:2:a00:27ff:fe72:e132 prefixlen 64 scopeid 0<global>
    ether 08:00:27:72:e1:32 txqueuelen 1000 (Ethernet)
    RX packets 10 bytes 3809 (3.7 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 32 bytes 5201 (5.0 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 0<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

(corey@coreystokes)-[~]
$ 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 10.0.2.2 255.255.255.0 U 100 0 0 eth0

(corey@coreystokes)-[~]
$ ip route
default via 10.0.2.2 dev eth0 proto dhcp src 10.0.2.15 metric 100
10.0.2.0/24 dev eth0 proto kernel scope link src 10.0.2.15 metric 100

(corey@coreystokes)-[~]
$
```

Step 4-7

```
File Actions Edit View Help
(corey@coreystokes)-[~]
$ netstat -tn
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address Foreign Address State

(corey@coreystokes)-[~]
$ ping -c 10 ubuntu.com
PING ubuntu.com (185.125.188.126) 56(84) bytes of data.
host ww
--- ubuntu.com ping statistics ---
10 packets transmitted, 0 received, 100% packet loss, time 9192ms

(corey@coreystokes)-[~]
$ host www.odu.edu
www.odu.edu has address 35.170.140.174

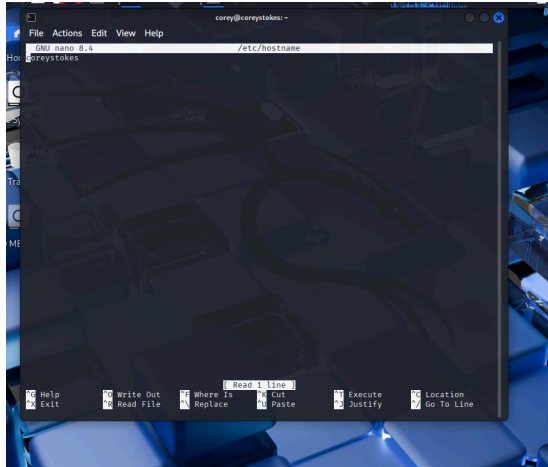
(corey@coreystokes)-[~]
$ cat /etc/hostname
coreystokes

(corey@coreystokes)-[~]
$ cat /etc/resolv.conf
# Generated by NetworkManager
search wlan.odu.edu
nameserver 128.82.95.20

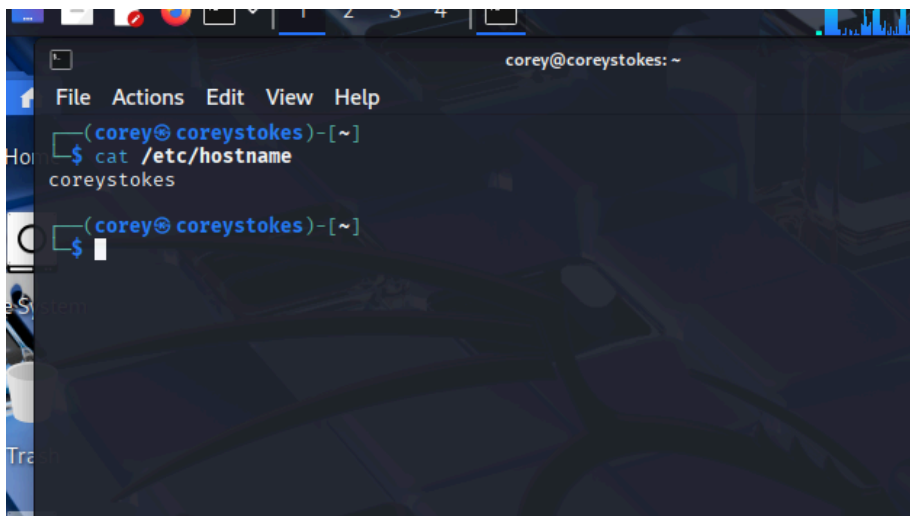
(corey@coreystokes)-[~]
$ sudo nano /etc/hostname
[sudo] password for corey:
```

Step 8

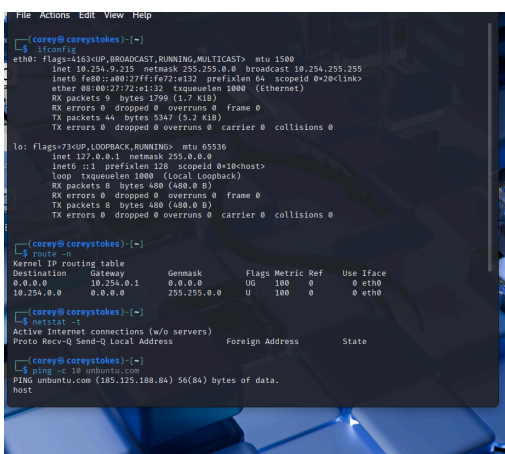
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After I rebooted it

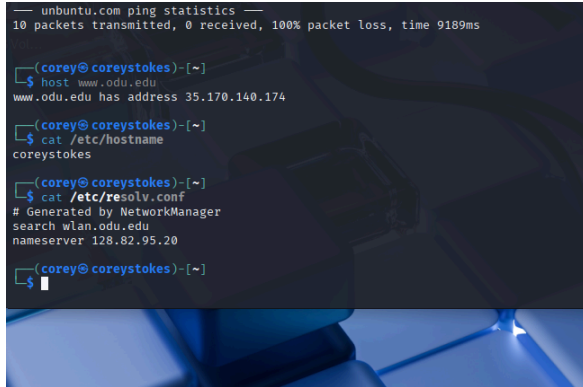


Task B



1-

Lab 11 Network Basics Configuration.pdf

A terminal window with a dark background and blue text. The prompt is '(corey@coreystokes)~'. The first command is '\$ host www.odu.edu', which outputs 'www.odu.edu has address 35.170.140.174'. The second command is '\$ cat /etc/hostname', which outputs 'coreystokes'. The third command is '\$ cat /etc/resolv.conf', which outputs '# Generated by NetworkManager', 'search wlan.odu.edu', and 'nameserver 128.82.95.20'. The prompt is now '\$'.

```
— ubuntu.com ping statistics —  
10 packets transmitted, 0 received, 100% packet loss, time 9189ms  
  
(corey@coreystokes)~  
$ host www.odu.edu  
www.odu.edu has address 35.170.140.174  
  
(corey@coreystokes)~  
$ cat /etc/hostname  
coreystokes  
  
(corey@coreystokes)~  
$ cat /etc/resolv.conf  
# Generated by NetworkManager  
search wlan.odu.edu  
nameserver 128.82.95.20  
  
(corey@coreystokes)~  
$
```

Vm 128.82.95.20

Gateway 10.254.0.1

1. DNS server changes from VirtualBox DNS to the actual network's DNS.
2. Ping behavior may change due to network restrictions.
3. VM becomes visible on the LAN like a normal device.