Brandon Harris 11/21/2024 Linux For Cybersecurity

Task A

Mode Lotting (Free NAT

Screenshot for questions 1 - 4

(kali@kali)-[~]
\$ ifconfig
eth0: flags=4163 <up,broadcast,running,multicast> mtu 1500</up,broadcast,running,multicast>
inet 192.168.233.142 netmask 255.255.255.0 broadcast 192.168.233.255
inet6 fe80::7fb1:d70e:fe29:5569 prefixlen 64 scopeid 0×20 <link/>
ether 00:0c:29:35:be:6f txgueuelen 1000 (Ethernet)
RX packets 106 bytes 8166 (7.9 KiB)
In System RX errors 0 dropped 0 overruns 0 frame 0
TX packets 56 bytes 5920 (5.7 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73 <up,loopback,running> mtu 65536</up,loopback,running>
inet 127.0.0.1 netmask 255.0.0.0
inet6 ::1 prefixlen 128 scopeid 0×10 <host></host>
Home loop txqueuelen 1000 (Local Loopback)
RX packets 4 bytes 240 (240.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 4 bytes 240 (240.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
(kali@kali)-[~]).sh
└─\$ route Kernel IP routing table
Destination Gateway Genmask Flags Metric Ref Use Iface
default 192.168.233.2 0.0.0.0 UG 100 0 0 eth0
192.168.233.0 0.0.0.0 255.255.255.0 U 100 0 0 etho
(kali@kali)-[~]
s netstat -at
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address Foreign Address State
(kali⊛kali)-[~]
└\$ ping -c 10 ubuntu.com
PING ubuntu.com (185.125.190.20) 56(84) bytes of data.
64 bytes from website-content-cache-1.ps5.canonical.com (185.125.190.20): icmp_seq=1 ttl=128 time=81.2 ms
64 bytes from website-content-cache-1.ps5.canonical.com (185.125.190.20): icmp_seq=2 ttl=128 time=81.0 ms
64 bytes from website-content-cache-1.ps5.canonical.com (185.125.190.20): icmp_seq=3 ttl=128 time=80.0 ms
64 bytes from website-content-cache-1.ps5.canonical.com (185.125.190.20): icmp_seq=4 ttl=128 time=83.2 ms
64 bytes from website-content-cache-1.ps5.canonical.com (185.125.190.20): icmp_seq=5 ttl=128 time=82.2 ms
64 bytes from website-content-cache-1.ps5.canonical.com (185.125.190.20): icmp_seq=6 ttl=128 time=82.0 ms
64 bytes from website-content-cache-1.ps5.canonical.com (185.125.190.20): icmp_seq=7 ttl=128 time=81.6 ms 64 bytes from website-content-cache-1.ps5.canonical.com (185.125.190.20): icmp_seq=8 ttl=128 time=82.3 ms
64 bytes from website-content-cache-1.ps5.canonical.com (185.125.190.20): icmp_seq=8 ttt=128 time=82.3 ms 64 bytes from website-content-cache-1.ps5.canonical.com (185.125.190.20): icmp_seq=9 ttt=128 time=82.2 ms
64 bytes from website-content-cache-1.ps5.canonical.com (165.125.190.20): icmp_seq=9 ttt=128 time=83.3 ms
of bytes from website-content-tache-i.pstanonicat.com (165.123.190.20). itmp_seq=10 titl=128 time=63.3 ms
ubuntu.com ping statistics
10 packets transmitted, 10 received, 0% packet loss, time 9013ms
rtt min/avg/max/mdev = 79.970/81.885/83.255/0.949 ms

Screenshot for questions 5 - 7



Screenshot for question 8

Task B Mode

Network Adapter Bridged (Automatic)

Screenshot for question 1



The differences That I noticed is that the MAC address had changed and their is no IPV4 address and network mask.

Screenshot for question 2



Their now no routing table entry

Screenshot for question 3



There is no difference because I have not active tcp connection to the machine

Screenshot for question 4



The ping command does not work

Screenshot for question 5



The host command fails

Screenshot for question 6 and 7



The hostname remains the same while the nameserver is also the same