┌──(kali㉿kali)-[~]

└─$ 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 fe80::8b60:2487:954e:10f9 prefixlen 64 scopeid 0x20<link>

ether 08:00:27:22:46:4f txqueuelen 1000 (Ethernet)

RX packets 11 bytes 1817 (1.7 KiB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 37 bytes 4190 (4.0 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 0x10<host>

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)-[~]

└─$ sudo ifconfig eth0 192.168.1.1

[sudo] password for kali:

┌──(kali㉿kali)-[~]

└─$ sudo ifconfig eth0 down

┌──(kali㉿kali)-[~]

└─$ sudo ifconfig eth0 hw ether 00:11:22:33:44:55

┌──(kali㉿kali)-[~]

└─$ sudo ifconfig eth0 up

┌──(kali㉿kali)-[~]

└─$ ifconfig

eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet6 fe80::8b60:2487:954e:10f9 prefixlen 64 scopeid 0x20<link>

ether 00:11:22:33:44:55 txqueuelen 1000 (Ethernet)

RX packets 11 bytes 1817 (1.7 KiB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 47 bytes 5750 (5.6 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 0x10<host>

loop txqueuelen 1000 (Local Loopback)

RX packets 12 bytes 756 (756.0 B)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 12 bytes 756 (756.0 B)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

┌──(kali㉿kali)-[~]

└─$ iwconfig

lo no wireless extensions.

eth0 no wireless extensions.

┌──(kali㉿kali)-[~]

└─$ sudo dhclient eth0

PING 10.0.2.2 (10.0.2.2) 56(84) bytes of data.

--- 10.0.2.2 ping statistics ---

1 packets transmitted, 0 received, 100% packet loss, time 0ms

┌──(kali㉿kali)-[~]

└─$ ifconfig

eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet6 fe80::8b60:2487:954e:10f9 prefixlen 64 scopeid 0x20<link>

ether 00:11:22:33:44:55 txqueuelen 1000 (Ethernet)

RX packets 16 bytes 4237 (4.1 KiB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 127 bytes 20538 (20.0 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 0x10<host>

loop txqueuelen 1000 (Local Loopback)

RX packets 12 bytes 756 (756.0 B)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 12 bytes 756 (756.0 B)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

┌──(kali㉿kali)-[~]

└─$ dig waow.com ns

; <<>> DiG 9.18.4-2-Debian <<>> waow.com ns

;; global options: +cmd

;; Got answer:

;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 36944

;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:

; EDNS: version: 0, flags:; udp: 4096

;; QUESTION SECTION:

;waow.com. IN NS

;; ANSWER SECTION:

waow.com. 172800 IN NS ns-1020.awsdns-63.net.

waow.com. 172800 IN NS ns-1308.awsdns-35.org.

waow.com. 172800 IN NS ns-2012.awsdns-59.co.uk.

waow.com. 172800 IN NS ns-237.awsdns-29.com.

;; Query time: 32 msec

;; SERVER: 192.168.1.1#53(192.168.1.1) (UDP)

;; WHEN: Thu Sep 29 20:45:08 EDT 2022

;; MSG SIZE rcvd: 175

┌──(kali㉿kali)-[~]

└─$ dig waow.com mx

; <<>> DiG 9.18.4-2-Debian <<>> waow.com mx

;; global options: +cmd

;; Got answer:

;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 57285

;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:

; EDNS: version: 0, flags:; udp: 4096

;; QUESTION SECTION:

;waow.com. IN MX

;; ANSWER SECTION:

waow.com. 300 IN MX 1 aspmx.l.google.com.

waow.com. 300 IN MX 10 alt3.aspmx.l.google.com.

waow.com. 300 IN MX 10 alt4.aspmx.l.google.com.

waow.com. 300 IN MX 5 alt1.aspmx.l.google.com.

waow.com. 300 IN MX 5 alt2.aspmx.l.google.com.

;; Query time: 84 msec

;; SERVER: 192.168.1.1#53(192.168.1.1) (UDP)

;; WHEN: Thu Sep 29 20:45:14 EDT 2022

;; MSG SIZE rcvd: 152

┌──(kali㉿kali)-[~]

└─$ sudo mousepad /etc/resolv.conf

\*\*\* Added “nameserver 8.8.8.8” to /etc/resolv.conf for above exercise \*\*\*