

<https://github.com/Meruyert98/network>

Network Parameters (15 points)

Using a terminal, check the network parameters configured on the virtual machine:

* MAC address

`ip link show`

```
airflow@slamova98-GL62M-7REX:~$ ip link show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN mode DEFAULT group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
2: enp3s0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc mq state DOWN mode DEFAULT group default qlen 1000
    link/ether 30:9c:23:18:a6:3f brd ff:ff:ff:ff:ff:ff
3: wlp2s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP mode DORMANT group default qlen 1000
    link/ether b4:d5:bd:a7:c3:76 brd ff:ff:ff:ff:ff:ff
4: br-96a8d281b912: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN mode DEFAULT group default
    link/ether 02:42:8f:5c:f6:f9 brd ff:ff:ff:ff:ff:ff
5: docker0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN mode DEFAULT group default
    link/ether 02:42:93:f7:77:a3 brd ff:ff:ff:ff:ff:ff
```

Ethernet interface (wlp2s0)

MAC address: **30:9c:23:18:a6:3f**

* Local ARP table

`arp -n`

`ip neigh`

```
airflow@slamova98-GL62M-7REX:~$ arp -n
Address                  HWtype  HWaddress           Flags Mask            Iface
192.168.0.1              ether    20:98:d8:09:d6:dd    C                     wlp2s0
airflow@slamova98-GL62M-7REX:~$ ip neigh
192.168.0.1 dev wlp2s0 lladdr 20:98:d8:09:d6:dd REACHABLE
```

* Network interfaces and associated IP addresses

`ip addr show`

```

airflow@slamova98-GL62M-7REX:~$ ip addr show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default 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: enp3s0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc mq state DOWN group default qlen 1000
    link/ether 30:9c:23:18:a6:3f brd ff:ff:ff:ff:ff:ff
3: wlp2s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
    link/ether b4:d5:bd:a7:c3:76 brd ff:ff:ff:ff:ff:ff
    inet 192.168.0.20/24 brd 192.168.0.255 scope global dynamic noprefixroute wlp2s0
        valid_lft 28362sec preferred_lft 28362sec
    inet6 fe80::bb10:1ea:4711:3c11/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
4: br-96a8d281b912: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN group default
    link/ether 02:42:8f:5c:f6:f9 brd ff:ff:ff:ff:ff:ff
    inet 172.18.0.1/16 brd 172.18.255.255 scope global br-96a8d281b912
        valid_lft forever preferred_lft forever
5: docker0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN group default
    link/ether 02:42:93:f7:77:a3 brd ff:ff:ff:ff:ff:ff
    inet 172.17.0.1/16 brd 172.17.255.255 scope global docker0
        valid_lft forever preferred_lft forever

```

* Route table

ip route show

```

airflow@slamova98-GL62M-7REX:~$ ip route show
default via 192.168.0.1 dev wlp2s0 proto dhcp metric 600
169.254.0.0/16 dev wlp2s0 scope link metric 1000
172.17.0.0/16 dev docker0 proto kernel scope link src 172.17.0.1 linkdown
172.18.0.0/16 dev br-96a8d281b912 proto kernel scope link src 172.18.0.1 linkdown
192.168.0.0/24 dev wlp2s0 proto kernel scope link src 192.168.0.20 metric 600

```

* List of open (listening) TCP ports

sudo netstat -tuln

```

airflow@slamova98-GL62M-7REX:~$ sudo netstat -tulnp
[sudo] password for airflow:
Active Internet connections (only servers)

```

Proto	Recv-Q	Send-Q	Local Address	Foreign Address	State	PID/Program name
tcp	0	0	127.0.0.1:11369	0.0.0.0:*	LISTEN	8440/daxz
tcp	0	0	127.0.0.1:27017	0.0.0.0:*	LISTEN	1805/mongod
tcp	0	0	127.0.0.1:3306	0.0.0.0:*	LISTEN	2024/mysqld
tcp	0	0	127.0.0.1:5939	0.0.0.0:*	LISTEN	3038/teamviewer
tcp	0	0	127.0.0.1:55668	0.0.0.0:*	LISTEN	8440/daxz
tcp	0	0	127.0.0.53:53	0.0.0.0:*	LISTEN	968/systemd-resolve
tcp	0	0	0.0.0.0:22	0.0.0.0:*	LISTEN	1824/sshd
tcp	0	0	127.0.0.1:631	0.0.0.0:*	LISTEN	7297/cupsd
tcp	0	0	127.0.0.1:5432	0.0.0.0:*	LISTEN	2059/postgres
tcp	0	0	0.0.0.0:5433	0.0.0.0:*	LISTEN	2064/postgres
tcp	0	0	127.0.0.1:5434	0.0.0.0:*	LISTEN	2065/postgres
tcp6	0	0	:::80	:::*	LISTEN	2012/apache2
tcp6	0	0	:::22	:::*	LISTEN	1824/sshd
tcp6	0	0	:::631	:::*	LISTEN	7297/cupsd
tcp6	0	0	:::5433	:::*	LISTEN	2064/postgres
udp	0	0	0.0.0.0:59679	0.0.0.0:*		1440/avahi-daemon:
udp	0	0	224.0.0.251:5353	0.0.0.0:*		5493/chrome --enabl
udp	0	0	0.0.0.0:5353	0.0.0.0:*		1440/avahi-daemon:
udp	0	0	127.0.0.53:53	0.0.0.0:*		968/systemd-resolve
udp	0	0	0.0.0.0:68	0.0.0.0:*		2773/dhclient
udp	0	0	0.0.0.0:631	0.0.0.0:*		7298/cups-browsed
udp6	0	0	:::35495	:::*		1440/avahi-daemon:
udp6	0	0	:::5353	:::*		1440/avahi-daemon:

ss -tuln

```
airflow@slamova98-GL62M-7REX:~$ ss -tuln
NetidState Recv-Q Send-Q Local Address:Port Peer Address:Port
udp UNCONN 0 0 0.0.0.0:59679 0.0.0.0:*
udp UNCONN 0 0 224.0.0.251:5353 0.0.0.0:* users:(("chrome",pid=5493,fd=176))
udp UNCONN 0 0 0.0.0.0:5353 0.0.0.0:*
udp UNCONN 0 0 127.0.0.53%lo:53 0.0.0.0:*
udp UNCONN 0 0 0.0.0.0:68 0.0.0.0:*
udp UNCONN 0 0 0.0.0.0:631 0.0.0.0:*
udp UNCONN 0 0 [::]:35495 [::]:*
udp UNCONN 0 0 [::]:5353 [::]:*
tcp LISTEN 0 10 127.0.0.1:11369 0.0.0.0:*
tcp LISTEN 0 128 127.0.0.1:27017 0.0.0.0:*
tcp LISTEN 0 80 127.0.0.1:3306 0.0.0.0:*
tcp LISTEN 0 128 127.0.0.1:5939 0.0.0.0:*
tcp LISTEN 0 5 127.0.0.1:55668 0.0.0.0:*
tcp LISTEN 0 128 127.0.0.53%lo:53 0.0.0.0:*
tcp LISTEN 0 128 0.0.0.0:22 0.0.0.0:*
tcp LISTEN 0 5 127.0.0.1:631 0.0.0.0:*
tcp LISTEN 0 128 127.0.0.1:5432 0.0.0.0:*
tcp LISTEN 0 128 0.0.0.0:5433 0.0.0.0:*
tcp LISTEN 0 128 127.0.0.1:5434 0.0.0.0:*
tcp LISTEN 0 128 *:80 *:*
tcp LISTEN 0 128 [::]:22 [::]:*
tcp LISTEN 0 5 [::1]:631 [::]:*
tcp LISTEN 0 128 [::]:5433 [::]:*
```

Network Connectivity (15 points)

Using a terminal, check the network connectivity between the virtual machine and the internet (8.8.8.8 host):

1. Send 5 IMP packets and check the loss percentage and RTT.

ping -c 5 8.8.8.8

```
airflow@slamova98-GL62M-7REX:~$ ping -c 5 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=51 time=134 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=51 time=127 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=51 time=127 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=51 time=126 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=51 time=143 ms

--- 8.8.8.8 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4005ms
rtt min/avg/max/mdev = 126.914/131.841/143.086/6.292 ms
```

2. Discover the path (route) that packets take to reach the destination host.

traceroute 8.8.8.8

```

alrflow@slamova98-GL62M-7REX:~$ traceroute 8.8.8.8
traceroute to 8.8.8.8 (8.8.8.8), 30 hops max, 60 byte packets
 1 _gateway (192.168.0.1) 0.991 ms 0.956 ms 1.503 ms
 2 JZK-C01-BR05.2day.kz (80.241.35.38) 2.714 ms 2.710 ms 2.699 ms
 3 172.16.242.33 (172.16.242.33) 5.355 ms 6.089 ms 6.405 ms
 4 * * *
 5 172.16.242.2 (172.16.242.2) 2.984 ms 2.978 ms 2.968 ms
 6 * * *
 7 172.16.242.81 (172.16.242.81) 4.430 ms 4.407 ms 4.417 ms
 8 LAG11.GRT01.SNBAV.ALM (80.241.35.190) 2.431 ms 2.433 ms 2.425 ms
 9 * * *
10 * * *
11 87-245-230-108.retn.net (87.245.230.108) 91.663 ms 90.917 ms 90.946 ms
12 ae10-9.rt.tnr.hki.fi.retn.net (87.245.233.140) 127.133 ms 128.555 ms 128.550 ms
13 87.245.208.1 (87.245.208.1) 128.928 ms 127.767 ms 128.713 ms
14 * * *
15 dns.google (8.8.8.8) 127.020 ms 126.696 ms 126.731 ms

```

IP Parameters (20 points)

* For the given CIDR-192.168.0.0/26-using bitwise arithmetic, calculate:

CIDR notation 192.168.0.0/26 means:

- **IP Address:** 192.168.0.0
- **Subnet Mask:** /26 (26 bits are used for the network portion)

192.168.0.0 to binary:

- 192 → 11000000
- 168 → 10101000
- 0 → 00000000
- 0 → 00000000

The binary representation of 192.168.0.0 is:

11000000.10101000.00000000.00000000

* Netmask

The subnet mask has 26 bits for the network part (as specified by /26), and the remaining bits (32-26 = 6 bits) are for the host part. The netmask is thus:

- Network bits (26): 1
- Host bits (6): 0

So the subnet mask in binary will look like this:

11111111.11111111.11111111.11000000

Now, convert it to decimal:

- 11111111 → 255
- 11111111 → 255
- 11111111 → 255
- 11000000 → 192

Thus, the **Netmask** in decimal is: **255.255.255.192**

* **Network address**

The Network Address is obtained by performing a bitwise AND operation between the IP address and the subnet mask.

```
11000000.10101000.00000000.00000000 (IP)
AND
11111111.11111111.11111111.11000000 (Netmask)
-----
11000000.10101000.00000000.00000000 (Network Address)
```

This results in the Network Address: 192.168.0.0

* **Broadcast address**

The Broadcast Address is derived by performing a bitwise OR operation between the Network Address and the inverse of the subnet mask (inverted mask has 0 where the original mask had 1, and 1 where it had 0).

First, find the inverse of the subnet mask:

- Subnet Mask (binary): 11111111.11111111.11111111.11000000
- Inverted Mask (binary): 00000000.00000000.00000000.00111111

Now perform the bitwise OR between the Network Address and the Inverted Mask:

```
Network Address (binary): 11000000.10101000.00000000.00000000
Inverted Mask (binary):  00000000.00000000.00000000.00111111
-----
Broadcast Address (binary): 11000000.10101000.00000000.00111111
```

Convert it back to decimal:

- 11000000 → 192
- 10101000 → 168

- 00000000 → 0
- 00111111 → 63

Thus, the Broadcast Address is: **192.168.0.63**

* Number of hosts in the subnet

The number of hosts in the subnet is determined by the host bits. Since we have a /26 subnet (26 bits for the network), there are 6 bits left for the host portion.

The formula to calculate the number of hosts is: Number of Hosts = $2^n - 2$

Number of Hosts = $2^6 - 2 = 64 - 2 = 62$

Local Network Traffic (50 points)

Capture samples of local network traffic for different protocols (ARP, ICMP, TCP, and HTTP). Each subtask requires opening two terminal windows-one with a network sniffing tool launched with the required flags and another with the corresponding protocol tool.

* ARP:

1. Launch the network sniffing tool in ARP protocol filtering mode with DNS resolving disabled.

Show all interfaces: **tcpdump -D**

```
airflow@slamova98-GL62M-7REX:~$ tcpdump -D
1.wlp2s0 [Up, Running]
2.any (Pseudo-device that captures on all interfaces) [Up, Running]
3.lo [Up, Running, Loopback]
4.enp3s0 [Up]
5.docker0 [Up]
6.br-96a8d281b912 [Up]
7.bluetooth0 (Bluetooth adapter number 0)
8.nflog (Linux netfilter log (NFLOG) interface)
9.nfqueue (Linux netfilter queue (NFQUEUE) interface)
10.usbmon1 (USB bus number 1)
11.usbmon2 (USB bus number 2)
```

Open a terminal and launch Wireshark or tcpdump with an ARP filter and DNS resolution disabled:

`sudo tcpdump -i wlp2s0 arp -n`

```
airflow@slamova98-GL62M-7REX:~$ sudo tcpdump -i wlp2s0 arp -n
[sudo] password for airflow:
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on wlp2s0, link-type EN10MB (Ethernet), capture size 262144 bytes
```

2. Clear the local ARP cache.

`sudo ip -s -s neigh flush all`

```
airflow@slamova98-GL62M-7REX:~$ sudo ip -s -s neigh flush all
192.168.0.1 dev wlp2s0 lladdr 20:98:d8:09:d6:dd ref 1 used 4055/0/4055 probes 4
REACHABLE
192.168.0.11 dev wlp2s0 lladdr be:ae:c2:04:3c:0c used 3527/3587/3527 probes 0 ST
ALE

*** Round 1, deleting 2 entries ***
*** Flush is complete after 1 round ***
```

3. Send an ICMP request to the default gateway.

`Ip route | grep default`
`ping -c 1 192.168.0.1`

```
airflow@slamova98-GL62M-7REX:~$ ip route | grep default
default via 192.168.0.1 dev wlp2s0 proto dhcp metric 600
airflow@slamova98-GL62M-7REX:~$ ping -c 1 192.168.0.1
PING 192.168.0.1 (192.168.0.1) 56(84) bytes of data.
64 bytes from 192.168.0.1: icmp_seq=1 ttl=64 time=1.25 ms

--- 192.168.0.1 ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 1.259/1.259/1.259/0.000 ms
```

4. Make a screenshot of the network sniffing tool showing the commands used with the flags and the ARP request/response in the output.

```
airflow@slamova98-GL62M-7REX:~$ sudo tcpdump -i wlp2s0 arp -n
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on wlp2s0, link-type EN10MB (Ethernet), capture size 262144 bytes
00:05:22.930255 ARP, Request who-has 192.168.0.1 tell 192.168.0.20, length 28
00:05:22.931053 ARP, Reply 192.168.0.1 is-at 20:98:d8:09:d6:dd, length 28
00:05:38.280795 ARP, Request who-has 192.168.0.11 tell 192.168.0.1, length 28
```

ICMP:

1. Launch the network sniffing tool in ICMP protocol filtering mode.

`sudo tcpdump -i wlp2s0 icmp -n`


```
airflow@slamova98-GL62M-7REX:~$ sudo tcpdump -i wlp2s0 icmp -n
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on wlp2s0, link-type EN10MB (Ethernet), capture size 262144 bytes
```

2. Send 5 ICMP packets to 8.8.8.8.

`ping -c 5 8.8.8.8`

```
airflow@slamova98-GL62M-7REX:~$ ping -c 5 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=51 time=124 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=51 time=188 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=51 time=221 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=51 time=120 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=51 time=165 ms

--- 8.8.8.8 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4003ms
rtt min/avg/max/mdev = 120.875/164.330/221.940/38.409 ms
```

3. Make a screenshot of the network sniffing tool showing the commands used with the flags and the echo request/reply messages in the output.

```
airflow@slamova98-GL62M-7REX:~$ sudo tcpdump -i wlp2s0 icmp -n
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on wlp2s0, link-type EN10MB (Ethernet), capture size 262144 bytes
00:11:06.826249 IP 192.168.0.20 > 8.8.8.8: ICMP echo request, id 28499, seq 1, length 64
00:11:06.951037 IP 8.8.8.8 > 192.168.0.20: ICMP echo reply, id 28499, seq 1, length 64
00:11:07.828284 IP 192.168.0.20 > 8.8.8.8: ICMP echo request, id 28499, seq 2, length 64
00:11:08.017175 IP 8.8.8.8 > 192.168.0.20: ICMP echo reply, id 28499, seq 2, length 64
00:11:08.828276 IP 192.168.0.20 > 8.8.8.8: ICMP echo request, id 28499, seq 3, length 64
00:11:09.050168 IP 8.8.8.8 > 192.168.0.20: ICMP echo reply, id 28499, seq 3, length 64
00:11:09.828198 IP 192.168.0.20 > 8.8.8.8: ICMP echo request, id 28499, seq 4, length 64
00:11:09.949039 IP 8.8.8.8 > 192.168.0.20: ICMP echo reply, id 28499, seq 4, length 64
00:11:10.830192 IP 192.168.0.20 > 8.8.8.8: ICMP echo request, id 28499, seq 5, length 64
00:11:10.995228 IP 8.8.8.8 > 192.168.0.20: ICMP echo reply, id 28499, seq 5, length 64
```

* TCP, HTTP:

1. Launch the network sniffing tool and set the filters to show only traffic for port 80 and the host

"neverssl.com." Make sure you enable printing ASCII representation for each packet.

`sudo tcpdump -i wlp2s0 port 80 and host neverssl.com -A`

```
airflow@slamova98-GL62M-7REX:~$ sudo tcpdump -i wlp2s0 port 80 and host neverssl.com -A
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on wlp2s0, link-type EN10MB (Ethernet), capture size 262144 bytes
```

2. Send an HTTP request to <http://neverssl.com/>.

`curl http://neverssl.com/`


```

airflow@slamova98-GL62M-7REX:~$ curl http://neverssl.com/
<html>
  <head>
    <title>NeverSSL - Connecting ... </title>
    <style>
      body {
        font-family: Montserrat, helvetica, arial, sans-serif;
        font-size: 16x;
        color: #444444;
        margin: 0;
      }
      h2 {
        font-weight: 700;
        font-size: 1.6em;
        margin-top: 30px;
      }
      p {

```

3. Make a screenshot of the network sniffing tool showing the commands used with the flags and the output with a TCP three-way handshake and HTTP request headers.

```

airflow@slamova98-GL62M-7REX:~$ curl http://neverssl.com/
<html>
  <head>
    <title>NeverSSL - Connecting ... </title>
    <style>
      body {
        font-family: Montserrat, helvetica, arial, sans-serif;
        font-size: 16x;
        color: #444444;
        margin: 0;
      }
      h2 {
        font-weight: 700;
        font-size: 1.6em;
        margin-top: 30px;
      }
      p {
        line-height: 1.6em;
      }
      .container {
        max-width: 650px;
        margin: 20px auto 20px auto;
        padding-left: 15px;
        padding-right: 15px;
      }
      .header {
        background-color: #42C0FD;
        color: #FFFFFF;
        padding: 10px 0 10px 0;
        font-size: 2.2em;
      }

```

```

airflow@slamova98-GL62M-7REX:~$ sudo tcpdump -i wlp2s0 port 80 and host neverssl.com -A
10 packets received by filter
0 packets dropped by kernel
airflow@slamova98-GL62M-7REX:~$ sudo tcpdump -i wlp2s0 port 80 and host neverssl.com -A
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on wlp2s0, link-type EN10MB (Ethernet), capture size 262144 bytes
00:17:36.050178 IP slamova98-GL62M-7REX.37902 > ec2-34-223-124-45.us-west-2.compute.amazonaws.com.http:
Flags [S], seq 2660278567, win 29200, options [mss 1460,sackOK,TS val 1093711121 ecr 0,nop,wscale 7], le
ngth 0
E..<D.@.0..=..."|....P...'......f.....
A0.....
00:17:36.350905 IP ec2-34-223-124-45.us-west-2.compute.amazonaws.com.http > slamova98-GL62M-7REX.37902:
Flags [S.], seq 4008099556, ack 2660278568, win 26847, options [mss 1420,sackOK,TS val 3986968251 ecr 109
3711121,nop,wscale 7], length 0
E..<.0.@.0....."|.....P.....(..h.".....
..N.A0.....
00:17:36.350948 IP slamova98-GL62M-7REX.37902 > ec2-34-223-124-45.us-west-2.compute.amazonaws.com.http:
Flags [.], ack 1, win 229, options [nop,nop,TS val 1093711422 ecr 3986968251], length 0
E..4D.@.@.0....."|....P....(..=.....^.....
A0>..N.
00:17:36.351101 IP slamova98-GL62M-7REX.37902 > ec2-34-223-124-45.us-west-2.compute.amazonaws.com.http:
Flags [P.], seq 1:77, ack 1, win 229, options [nop,nop,TS val 1093711422 ecr 3986968251], length 76: HT
P: GET / HTTP/1.1
E...D.@.@....."|....P....(..=.....6.....
A0>..N.GET / HTTP/1.1
Host: neverssl.com
User-Agent: curl/7.58.0
Accept: */*
00:17:36.655863 IP ec2-34-223-124-45.us-west-2.compute.amazonaws.com.http > slamova98-GL62M-7REX.37902:
Flags [.], ack 77, win 210, options [nop,nop,TS val 3986968552 ecr 1093711422], length 0

```

```

airflow@slamova98-GL62M-7REX:~$ sudo tcpdump -i wlp2s0 port 80 and host neverssl.com -A
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on wlp2s0, link-type EN10MB (Ethernet), capture size 262144 bytes
00:17:36.050178 IP slamova98-GL62M-7REX.37902 > ec2-34-223-124-45.us-west-2.compute.amazonaws.com.http: Flags [S], seq 2660278567, win 29200, options [mss 1460,sackOK,TS val 1093711121 ecr 0,nop,wscale 7], length 0
E..<D.@.@..=....".|-...P...'......f.....
A0.....
00:17:36.350905 IP ec2-34-223-124-45.us-west-2.compute.amazonaws.com.http > slamova98-GL62M-7REX.37902: Flags [S.], seq 400899556, ack 2660278568, win 26847, options [mss 1420,sackOK,TS val 3986968251 ecr 1093711121,nop,wscale 7], length 0
E..<..@.@.....".|-.....P....=....(..h.".....
..N.A0.....
00:17:36.350948 IP slamova98-GL62M-7REX.37902 > ec2-34-223-124-45.us-west-2.compute.amazonaws.com.http: Flags [.], ack 1, win 229, options [nop,nop,TS val 1093711422 ecr 3986968251], length 0
E..4D.@.@...D.....".|-...P...(..=.....^.....
A0.>..N.
00:17:36.351101 IP slamova98-GL62M-7REX.37902 > ec2-34-223-124-45.us-west-2.compute.amazonaws.com.http: Flags [P.], seq 1:77, ack 1, win 229, options [nop,nop,TS val 1093711422 ecr 3986968251], length 76: HTTP: GET / HTTP/1.1
E...D.@.@.....".|-...P...(..=.....6.....
A0.>..N.GET / HTTP/1.1
Host: neverssl.com
User-Agent: curl/7.58.0
Accept: /*/*

00:17:36.655863 IP ec2-34-223-124-45.us-west-2.compute.amazonaws.com.http > slamova98-GL62M-7REX.37902: Flags [.], ack 77, win 210, options [nop,nop,TS val 3986968552 ecr 1093711422], length 0
E..4gV@.....".|-.....P....=....t.....
..O.A0.>
00:17:36.655914 IP ec2-34-223-124-45.us-west-2.compute.amazonaws.com.http > slamova98-GL62M-7REX.37902: Flags [.], seq 1:1409, ack 77, win 210, options [nop,nop,TS val 3986968552 ecr 1093711422], length 1408: HTTP: HTTP/1.1 200 OK
E...gW@....#" .|-.....P....=....t.....-.....
..O.A0.>HTTP/1.1 200 OK

```