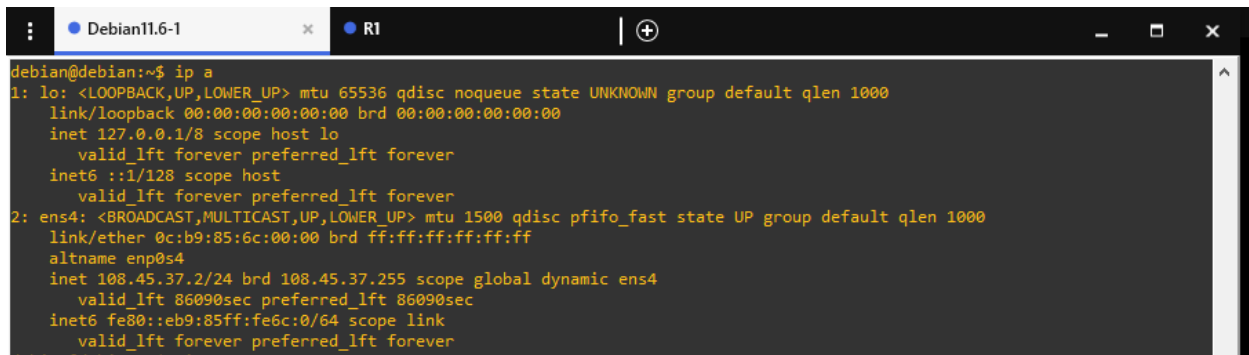


ΑΓΓΕΛΟΣ ΝΙΚΟΛΑΟΣ ΠΟΤΑΜΙΑΝΟΣ
ΑΜ 1084537
ΕΡΓΑΣΤΗΡΙΟ ΔΙΚΤΥΑ ΥΠΟΛΟΓΙΣΤΩΝ
ΑΚ ΕΤΟΣ 2022-2023
3ο ΕΞΑΜΗΝΟ ΣΠΟΥΔΩΝ

ΥΠΟΧΡΕΩΤΙΚΟ ΜΕΡΟΣ

Α) εκτελώ ip a



```
Debian11.6-1 R1
debian@debian:~$ ip a
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: ens4: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 0c:b9:85:6c:00:00 brd ff:ff:ff:ff:ff:ff
    altname enp0s4
    inet 108.45.37.2/24 brd 108.45.37.255 scope global dynamic ens4
        valid_lft 86090sec preferred_lft 86090sec
    inet6 fe80::eb9:85ff:fe6c:0/64 scope link
        valid_lft forever preferred_lft forever
```

B) Εκτελώ ping 8.8.8.8

```
Debian11.6-1 x R1
debian@debian:~$ ping 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=127 time=147 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=127 time=74.1 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=127 time=44.0 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=127 time=47.8 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=127 time=59.3 ms
64 bytes from 8.8.8.8: icmp_seq=6 ttl=127 time=63.2 ms
64 bytes from 8.8.8.8: icmp_seq=7 ttl=127 time=53.3 ms
64 bytes from 8.8.8.8: icmp_seq=8 ttl=127 time=49.0 ms
64 bytes from 8.8.8.8: icmp_seq=9 ttl=127 time=52.7 ms
64 bytes from 8.8.8.8: icmp_seq=10 ttl=127 time=47.9 ms
64 bytes from 8.8.8.8: icmp_seq=11 ttl=127 time=61.7 ms
64 bytes from 8.8.8.8: icmp_seq=12 ttl=127 time=53.0 ms
64 bytes from 8.8.8.8: icmp_seq=13 ttl=127 time=53.3 ms
64 bytes from 8.8.8.8: icmp_seq=14 ttl=127 time=51.8 ms
64 bytes from 8.8.8.8: icmp_seq=15 ttl=127 time=54.8 ms
64 bytes from 8.8.8.8: icmp_seq=16 ttl=127 time=48.6 ms
64 bytes from 8.8.8.8: icmp_seq=17 ttl=127 time=46.8 ms
64 bytes from 8.8.8.8: icmp_seq=18 ttl=127 time=49.8 ms
64 bytes from 8.8.8.8: icmp_seq=19 ttl=127 time=55.7 ms
64 bytes from 8.8.8.8: icmp_seq=20 ttl=127 time=47.4 ms
64 bytes from 8.8.8.8: icmp_seq=21 ttl=127 time=45.4 ms
64 bytes from 8.8.8.8: icmp_seq=22 ttl=127 time=50.8 ms
64 bytes from 8.8.8.8: icmp_seq=23 ttl=127 time=46.9 ms
64 bytes from 8.8.8.8: icmp_seq=24 ttl=127 time=53.3 ms
64 bytes from 8.8.8.8: icmp_seq=25 ttl=127 time=47.8 ms
64 bytes from 8.8.8.8: icmp_seq=26 ttl=127 time=54.1 ms
64 bytes from 8.8.8.8: icmp_seq=27 ttl=127 time=46.4 ms
64 bytes from 8.8.8.8: icmp_seq=28 ttl=127 time=52.0 ms
64 bytes from 8.8.8.8: icmp_seq=29 ttl=127 time=61.8 ms
64 bytes from 8.8.8.8: icmp_seq=30 ttl=127 time=56.9 ms
64 bytes from 8.8.8.8: icmp_seq=31 ttl=127 time=53.8 ms
64 bytes from 8.8.8.8: icmp_seq=32 ttl=127 time=48.8 ms
64 bytes from 8.8.8.8: icmp_seq=33 ttl=127 time=52.5 ms
64 bytes from 8.8.8.8: icmp_seq=34 ttl=127 time=44.9 ms
64 bytes from 8.8.8.8: icmp_seq=35 ttl=127 time=53.5 ms
64 bytes from 8.8.8.8: icmp_seq=36 ttl=127 time=44.4 ms
64 bytes from 8.8.8.8: icmp_seq=37 ttl=127 time=46.9 ms
64 bytes from 8.8.8.8: icmp_seq=38 ttl=127 time=47.1 ms
64 bytes from 8.8.8.8: icmp_seq=39 ttl=127 time=57.6 ms
64 bytes from 8.8.8.8: icmp_seq=40 ttl=127 time=54.2 ms
64 bytes from 8.8.8.8: icmp_seq=41 ttl=127 time=220 ms
64 bytes from 8.8.8.8: icmp_seq=42 ttl=127 time=52.3 ms
64 bytes from 8.8.8.8: icmp_seq=43 ttl=127 time=48.4 ms
64 bytes from 8.8.8.8: icmp_seq=44 ttl=127 time=66.0 ms
64 bytes from 8.8.8.8: icmp_seq=45 ttl=127 time=45.8 ms
64 bytes from 8.8.8.8: icmp_seq=46 ttl=127 time=50.8 ms
64 bytes from 8.8.8.8: icmp_seq=47 ttl=127 time=65.2 ms
64 bytes from 8.8.8.8: icmp_seq=48 ttl=127 time=47.3 ms
64 bytes from 8.8.8.8: icmp_seq=49 ttl=127 time=49.4 ms
64 bytes from 8.8.8.8: icmp_seq=50 ttl=127 time=52.7 ms
64 bytes from 8.8.8.8: icmp_seq=51 ttl=127 time=52.8 ms
64 bytes from 8.8.8.8: icmp_seq=52 ttl=127 time=53.4 ms
64 bytes from 8.8.8.8: icmp_seq=53 ttl=127 time=45.5 ms
64 bytes from 8.8.8.8: icmp_seq=54 ttl=127 time=56.8 ms
64 bytes from 8.8.8.8: icmp_seq=55 ttl=127 time=51.3 ms
^C
--- 8.8.8.8 ping statistics ---
55 packets transmitted, 55 received, 0% packet loss, time 54082ms
rtt min/avg/max/mdev = 43.953/57.063/220.239/26.267 ms
debian@debian:~$
```

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Γ) Εκτελώ sudo traceroute 8.8.8.8

```
debian@debian:~$ sudo traceroute 8.8.8.8
traceroute to 8.8.8.8 (8.8.8.8), 30 hops max, 60 byte packets
 1  lo0-100.WASHDC-VFTTP-318.verizon-gni.net (108.45.37.1)  16.904 ms  16.665 ms  16.649 ms
 2  192.168.5.2 (192.168.5.2)  16.639 ms  16.616 ms  26.342 ms
 3  * * *
 4  * * *
 5  * * *
 6  * * *
 7  * * *
 8  * * *
 9  * * *
10  * * *
11  * * *
12  * * *
13  * * *
14  * * *
15  * * *
16  * * *
17  * * *
18  * * *
19  * * *
20  * * *
21  * * *
22  * * *
23  * * *
24  * * *
25  * * *
26  * * *
27  * * *
28  * * *
29  * * *
30  * * *
debian@debian:~$
```

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Δ) Συνδεομαι μεσω telnet με username 1084537 και κωδικό 1084537

```
Get:1 http://deb.debian.org/debian bullseye/main amd64 telnet amd64 0.17-42 [71.1 kB]
Fetched 71.1 kB in 0s (195 kB/s)
Selecting previously unselected package telnet.
(Reading database ... 19889 files and directories currently installed.)
Preparing to unpack .../telnet_0.17-42_amd64.deb ...
Unpacking telnet (0.17-42) ...
Setting up telnet (0.17-42) ...
update-alternatives: using /usr/bin/telnet.netkit to provide /usr/bin/telnet (telnet) in auto mode
Processing triggers for man-db (2.9.4-2) ...
debian@debian:~$ telnet 108.45.37.1
Trying 108.45.37.1...
Connected to 108.45.37.1.
Escape character is '^['.

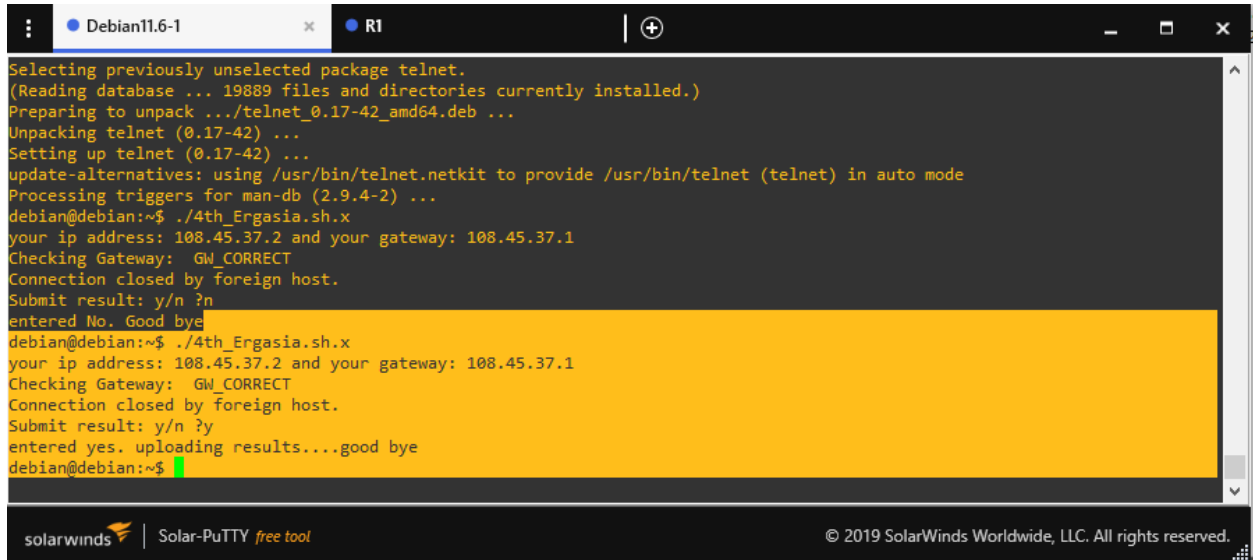
User Access Verification

Username: 1084537
Password:
1084537#
```

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ΠΡΟΑΙΡΕΤΙΚΟ ΚΟΜΜΑΤΙ

ΕΚΤΕΛΩ ΤΙΣ ΟΔΗΓΙΕΣ



```
Debian11.6-1 x R1
Selecting previously unselected package telnet.
(Reading database ... 19889 files and directories currently installed.)
Preparing to unpack .../telnet_0.17-42_amd64.deb ...
Unpacking telnet (0.17-42) ...
Setting up telnet (0.17-42) ...
update-alternatives: using /usr/bin/telnet.netkit to provide /usr/bin/telnet (telnet) in auto mode
Processing triggers for man-db (2.9.4-2) ...
debian@debian:~$ ./4th_Ergasia.sh.x
your ip address: 108.45.37.2 and your gateway: 108.45.37.1
Checking Gateway:  GW_CORRECT
Connection closed by foreign host.
Submit result: y/n ?n
entered No. Good bye
debian@debian:~$ ./4th_Ergasia.sh.x
your ip address: 108.45.37.2 and your gateway: 108.45.37.1
Checking Gateway:  GW_CORRECT
Connection closed by foreign host.
Submit result: y/n ?y
entered yes. uploading results....good bye
debian@debian:~$
```

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