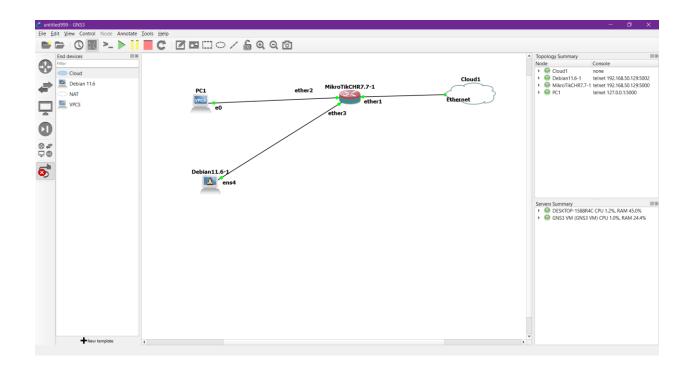
ΑΝΑΦΟΡΑ ΓΙΑ ΤΟ 3° ΕΡΓΑΣΤΗΡΙΟ ΣΤΑ ΔΙΚΤΥΑ ΥΠΟΛΟΓΙΣΤΩΝ

AM = 1070263

Ον/μο = ΣΠΥΡΟ ΣΟΥΛΙ

Έτος = 6°

<u>Υλοποίηση</u>



Παραμετροποίηση Mikrotik

```
| NeW | NeW | KKK | TITITITITI | KKK | | | | | | |
| NeW | NeW | KKK | KKK | KRARAR | OOOOOO | TIT | TIT | KKK |
| NeW | NeW | TIT | KKK | KKK | KRARAR | OOOOOO | TIT | TIT | KKK |
| NeW | NeW | TIT | KKK | KKK | KRARAR | OOOOOO | TIT | TIT | KKK | KKK |
| NeW | NeW | TIT | KKK | KKK | KRARAR | OOOOOO | TIT | TIT | KKK | KKK |
| NeW | NeW | TIT | KKK | KKK | KRARAR | OOOOOO | TIT | TIT | KKK | KKK |
| NikroTik RouterOS 7.7 (c) | 1999-2023 | https://www.mikrotik.com/

| Do you want to see the software license? [Y/n]: n

| Press FI for help

| Change your password |
| New | Password | TIT | TIT
```

Επειδή το ΑΜ μου είναι 1070263 η διεύθυνση πρέπει να είναι της μορφής 107.2.63.1/24 ώστε να την δεχτεί το mirkotik επιβεβαίωση με ip/address/print

```
apr/23/2023 14:44:31 system,error,critical router was rebooted without proper shu

tdown

[adding@itheruik] > ip. address crist
Calumers: ADDRESS, Nethook: _IntERFACE
# ADDRESS, ORTHOOK: _IntERFACE
107.11.63.1/24 107.11.63.0 ether2
1 107.11.63.1/24 107.11.63.0 ether2
1 107.11.63.1/24 107.11.63.0 ether2
[adding@itheruik] /App address print
[adding@itheruik] /App address print
[adding@itheruik] /App/address> remove
numbers: 0
107.11.63.1/24 107.11.63.0 ether2
[adding@itheruik] /App/address> print
[adding@itheruik] /App/add
```

/ip/dhcp-server/print και επιβεβαίωση

```
| April | Apri
```

1° Ερώτημα

Όλα τα ερωτήματα φαίνονται παρακάτω

```
[admin@tikroTik] > /ip/dhcp-server/print
Columns: NAME, INTERFACE, ADDRESS-POOL, LEASE-TIME
# NAME INTERFACE ADDRESS-POOL LEASE-TIME
0 dhcpl ether2 dhcp_pool0 10m
1 dhcp2 ether3 dhcp_pool1 10m
[admin@MikroTik] > ip/address/print
Columns: ADDRESS, NETWORK, INTERFACE
# ADDRESS NETWORK INTERFACE
0 107.2.63.1/24 107.2.63.0 ether2
1 107.2.64.1/24 107.2.64.0 ether3
 [admin@ kikroTik] > ip/route/print
Flags: D - DYNAMIC; A - ACTIVE; c, y - COPY
Columns: DST-ADDRESS, GATEWAY, DISTANCE
  DST-ADDRESS GATEWAY DISTANCE
DAC 107.2.63.0/24 ether2 0
DAC 107.2.64.0/24 ether3 0
  [admin@MikroTik] > ip/dhcp-client/print
Columns: INTERFACE, USE-PEER-DNS, ADD-DEFAULT-ROUTE, STATUS
 # INTERFACE USE-PEER-DNS ADD-DEFAULT-ROUTE STATUS
  0 ether1 yes yes
[admin@MikroTik] >
[admin@MikroTik] > ip/dhcp-server/pri
   olumns: NAME, INTERFACE, ADDRESS-POOL, LEASE-TIME
# NAME INTERFACE ADDRESS-POOL LEASE-TIME

0 dhcp1 ether2 dhcp_pool0 10m

1 dhcp2 ether3 dhcp_pool1 10m

[admin@MikroTik] > ping 8.8.8.8.

invalid value for argument address:

invalid value for argument inv6-address required

invalid value for argument inv6-address
  invalid value for argument ipv6-address
while resolving ip-address: could not get answer from dns server
[admin@HkroTik] > /tool/traceroute 8.8.8.8
Columns: LOSS, SENT, LAST
    LOSS SENT LAST
      100%
100%
                    32 timeout
32 timeout
                      31 timeout
  [admin@likroTik] > /tool/traceroute
address: 8.8.8.8 protocol-icmp
Script Error: action cancelled
   [admin@MikroTik] > /tool/traceraddress: 8.8.8.8 protocol-icmp
   Script Error: action cancelled
   admin@MikroTik] >
```

Παραμετροποίηση PC1

```
Welcome to Virtual PC Simulator, version 0.6.2
Dedicated to Daling.
Build time: Apr 10 2019 02:42:20
Copyright (c) 2007-2014, Paul Meng (mirnshi@gmail.com)
All rights reserved.
VPCS is free software, distributed under the terms of the "BSD" licence.
Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.
 Press '?' to get help.
 Executing the startup file
 PC1> show ip
NAME : PC1[1]
IP/MASK : 0.0.0.0/0
GATEWAY : 0.0.0.0
DNS :
MAC : 00:50:79:66:68:00
LPORT : 10002
RHOST:PORT : 127.0.0.1:10003
MTU: : 1500
 PC1> dhcp
DORA IP 107.2.63.254/24 GW 107.2.63.1
 PC1> save
Saving startup configuration to startup.vpc
. done
 PC1>
```

2° Ερώτημα

Όλα τα ερωτήματα φαίνονται παρακάτω

```
PCID show ip

NWE : PCI[1]

TP/WSC : 187.2.63.154/24

GATRAW : 187.2.63.1

GWC SERURE : 187.2.63
```

Χρειαζόμαστε αυτην την εντολή

```
/ip firewall nat add chain=srcnat action=masquerade out-
interface=Public
```

. Δεν θα είναι δυνατή η πρόσβαση από το Διαδίκτυο στις Τοπικές διευθύνσεις. Εάν θέλετε να επιτρέψετε συνδέσεις με τον διακομιστή στο τοπικό δίκτυο, θα πρέπει να χρησιμοποιήσετε τη Μετάφραση Διεύθυνσης Δικτύου προορισμού (NAT).

3° Ερώτημα

ip a

ping 8.8.8.8

sudo traceroute 8.8.8.8

```
ebian login: debian
  Password:
 Login incorrect
debian login: debian
  Linux debian 5.10.0-20-cloud-amd64 #1 SMP Debian 5.10.158-2 (2022-12-13) x86_64
 The programs included with the Debian GNU/Linux system are free software;
  the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
debian@debian:^$ sudo -s
root@debian:/home/debian# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
link/loopback 00:00:00:00:00:00:00 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:0b:5f:f9:00:00 brd ff:ff:ff:ff:ff:ff
           altname enp0s4 inet 107.2.64.254/24 brd 107.2.64.255 scope global dynamic ens4
valid_lft 494sec preferred_lft 494sec
inet6 fe80::e0b:5fff:fef9:0/64 scope link
valid_lft forever preferred_lft forever
root@debian:/home/debian# ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
From 107.2.64.1 icmp_seq=1 Destination Net Unreachable
From 107.2.64.1 icmp_seq=2 Destination Net Unreachable
From 107.2.64.1 icmp_seq=3 Destination Net Unreachable
From 107.2.64.1 icmp_seq=4 Destination Net Unreachable
From 107.2.64.1 icmp_seq=5 Destination Net Unreachable
From 107.2.64.1 icmp_seq=7 Destination Net Unreachable
From 107.2.64.1 icmp_seq=9 Destination Net Unreachable
From 107.2.64.1 icmp_seq=9 Destination Net Unreachable
From 107.2.64.1 icmp_seq=9 Destination Net Unreachable
From 107.2.64.1 icmp_seq=12 Destination Net Unreachable
From 107.2.64.1 icmp_seq=12 Destination Net Unreachable
                  valid_lft 494sec preferred_lft 494sec
[1]+ Stopped ping 8.8.8.8
root@debian:/home/debian# sudo traceroute 8.8.8.8
traceroute to 8.8.8.8 (8.8.8.8), 30 hops max, 60 byte packets
1 107.2.64.1 (107.2.64.1) 1.362 ms !N * *
root@debian:/home/debian#
```

Εκτελέστε: ssh admin@ και επιβεβαιώστε και πάλι τα συνθηματικά σας.

```
Failed to fetch http://deb.debian.org/debian/dists/bullseye/InRelease Temporary failure resolving 'deb.debian.org'
: Failed to fetch http://security.debian.org/debian-security/dists/bullseye-security/InRelease Temporary failure resolving 'security.debian.org'

root@debian:/home/debians sudo apt_get install telnet
Reading saskage lists... Once
Reading saskage lists... Once
Reading state information... Done
Readi
```