

Ministerul Educației, al Culturii și Cercetării al Republicii
Moldova

Universitatea Tehnică a Moldovei

Departamentul Informatică și Ingineria Sistemelor

RAPORT

Lucrarea de laborator nr. 4.2

ASR

A efectuat:

st. gr. C-171

D. Melniciuc

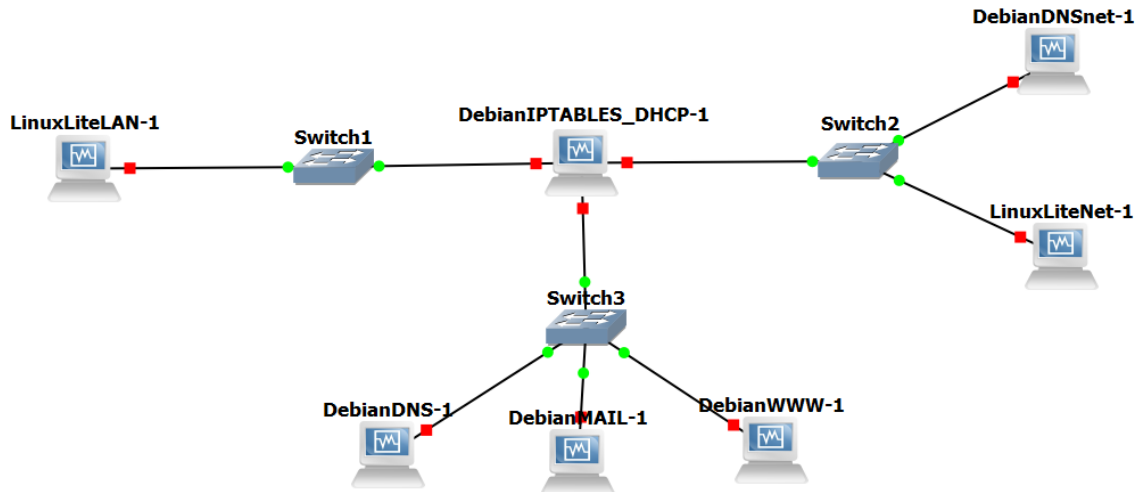
A verificat:

dr., conf.univ.

M. Pavlov

Chișinău 2020

Schema:



Instalam DHCP-server

```
osboxes@osboxes: ~  
File Edit View Search Terminal Help  
osboxes@osboxes:~$ su -  
Password:  
root@osboxes:~# apt install isc-dhcp-server  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following extra packages will be installed:  
  isc-dhcp-client isc-dhcp-common  
Suggested packages:  
  resolvconf isc-dhcp-server-ldap  
The following NEW packages will be installed:  
  isc-dhcp-server  
The following packages will be upgraded:  
  isc-dhcp-client isc-dhcp-common  
2 upgraded, 1 newly installed, 0 to remove and 367 not upgraded.  
Need to get 382 kB/844 kB of archives.  
After this operation, 1,041 kB of additional disk space will be used.  
Do you want to continue? [Y/n] y  
Get:1 http://security.debian.org/ jessie/updates/main isc-dhcp-server amd64 4.3.1-6+deb  
8u4 [382 kB]  
Fetched 382 kB in 0s (554 kB/s)  
Reading changelogs... Done  
Preconfiguring packages ...  
(Reading database ... 133282 files and directories currently installed.)  
Preparing to unpack .../isc-dhcp-client_4.3.1-6+deb8u4_amd64.deb ...  
Unpacking isc-dhcp-client (4.3.1-6+deb8u4) over (4.3.1-6+deb8u3) ...  
Preparing to unpack .../isc-dhcp-common_4.3.1-6+deb8u4_amd64.deb ...
```

```
osboxes@osboxes: ~
File Edit View Search Terminal Help
GNU nano 2.2.6 File: /etc/dhcp/dhcpd.conf

# option routers rtr-239-0-1.example.org, rtr-239-0-2.example.org;
#}

# This declaration allows BOOTP clients to get dynamic addresses,
# which we don't really recommend.

#subnet 10.254.239.32 netmask 255.255.255.224 {
# range dynamic-bootp 10.254.239.40 10.254.239.60;
# option broadcast-address 10.254.239.31;
# option routers rtr-239-32-1.example.org;
#}

# A slightly different configuration for an internal subnet.
#subnet 10.5.5.0 netmask 255.255.255.224 {
# range 10.5.5.26 10.5.5.30;
# option domain-name-servers ns1.internal.example.org;
# option domain-name "internal.example.org";
# option routers 10.5.5.1;
# option broadcast-address 10.5.5.31;
# default-lease-time 600;
# max-lease-time 7200;
#}

^G Get Help      ^O WriteOut     ^R Read File    ^Y Prev Page    ^K Cut Text     ^C Cur Pos
^X Exit          ^J Justify      ^W Where Is     ^V Next Page    ^U UnCut Text   ^T To Spell
```

```
osboxes@osboxes:~$ ping 10.10.10.1
PING 10.10.10.1 (10.10.10.1) 56(84) bytes of data.
64 bytes from 10.10.10.1: icmp_seq=1 ttl=64 time=1.28 ms
64 bytes from 10.10.10.1: icmp_seq=2 ttl=64 time=1.40 ms
^C
--- 10.10.10.1 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 1.287/1.344/1.402/0.068 ms
osboxes@osboxes:~$ ping 170.180.190.3
PING 170.180.190.3 (170.180.190.3) 56(84) bytes of data.
64 bytes from 170.180.190.3: icmp_seq=1 ttl=63 time=3.39 ms
64 bytes from 170.180.190.3: icmp_seq=2 ttl=63 time=2.70 ms
64 bytes from 170.180.190.3: icmp_seq=3 ttl=63 time=2.79 ms
^C
--- 170.180.190.3 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2003ms
rtt min/avg/max/mdev = 2.708/2.963/3.392/0.311 ms
osboxes@osboxes:~$ ping 170.180.190.130
PING 170.180.190.130 (170.180.190.130) 56(84) bytes of data.
64 bytes from 170.180.190.130: icmp_seq=1 ttl=63 time=4.02 ms
64 bytes from 170.180.190.130: icmp_seq=2 ttl=63 time=2.46 ms
64 bytes from 170.180.190.130: icmp_seq=3 ttl=63 time=2.46 ms
64 bytes from 170.180.190.130: icmp_seq=4 ttl=63 time=2.77 ms
^C
--- 170.180.190.130 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3004ms
rtt min/avg/max/mdev = 2.462/2.934/4.028/0.644 ms
osboxes@osboxes:~$
```

Configuram fisierule

```
@      IN      SOA      dns.lab.local. root.localhost. (
12345 ; Serial
1D ; Refresh
1H ; Retry
1W ; Expire
3H ) ; Minimum

      IN NS dns.lab.local.
      IN NS dns1.lab.local.
www.lab.local IN A 170.180.190.131
mail.lab.local IN A 170.180.190.132
```

```
@ IN SOA lab.local. root.lab.local. (
12345 ; Serial
1D ; Refresh
1H ; Retry
1W ; Expire
3H ) ; Minimum
```

```
IN NS dns.lab.local.
dns IN PTR 170.180.190.130
dns1 IN PTR std19.lab.local.
14 IN PTR std14.lab.local.
14 IN PTR std14.lab.local.
```

```
osboxes@osboxes:~$ ifconfig
enp0s3  Link encap:Ethernet  HWaddr 08:00:27:c3:e7:cd
        inet addr:10.10.10.3  Bcast:10.10.10.255  Mask:255.255.255.0
        inet6 addr: fe80::4e6e:33f2:2172:66/64 Scope:Link
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:156 errors:0 dropped:0 overruns:0 frame:0
        TX packets:118 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1000
        RX bytes:14361 (14.3 KB)  TX bytes:15587 (15.5 KB)

lo      Link encap:Local Loopback
        inet addr:127.0.0.1  Mask:255.0.0.0
        inet6 addr: ::1/128 Scope:Host
        UP LOOPBACK RUNNING  MTU:65536  Metric:1
        RX packets:480 errors:0 dropped:0 overruns:0 frame:0
        TX packets:480 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1
        RX bytes:38128 (38.1 KB)  TX bytes:38128 (38.1 KB)
```