# Лабораторная работа № 7. Адресация IPv4 и IPv6. Настройка DHCP

Студент: Оулед Салем Яссин

Группа: НПИбд02-20

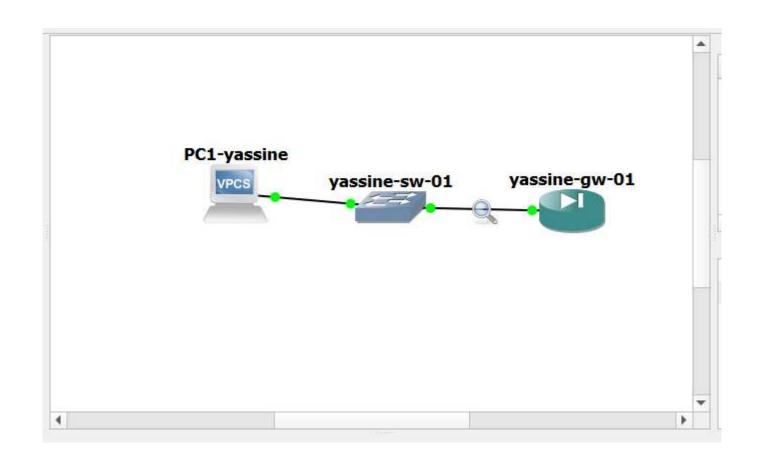
#### Цель работы

• Получение навыков настройки службы DHCP на сетевом оборудовании для распределения адресов IPv4 и IPv6.

#### Задания для выполнения

- Настройка DHCP в случае IPv4
- Настройка DHCP в случае IPv6

# Настройка DHCP в случае IPv4

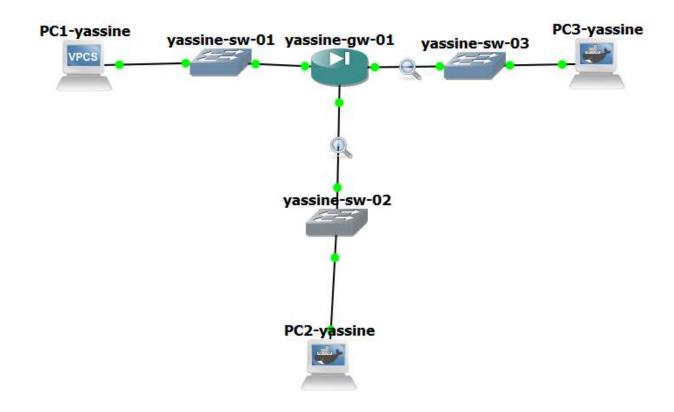




```
yassine-gw-01 - PuTTV
                                                                                                                                                                                            yassine-gw-01 - PuTTY
                                                                               - 0
                                                                                                       K. This image will be named: yassine opying squashfs image... opying kernel and initrd images...
   This image will be named: yassine
 pying squashfs image...
  pying kernel and initrd images...
                                                                                                         /opt/vyatta/etc/config/config.boot
/opt/vyatta/etc/config.boot.default
   /opt/vyatta/etc/config/config.boot
/opt/vyatta/etc/config.boot.default
  ich one should I copy to sda? [/opt/vyatta/etc/config/config.boot]:
  pyling /opt/wystta/etc/config/config.boot to sda.
                                                                                                        ter password for administrator account
                                                                                                        ter password for user 'vyos':
                                                                                                        etype password for user 'wyos':
need to install the GRUB boot loader.
 type password for user 'wyos':
  need to install the GRUE boot loader.
                                                                                                       found the following drives on your system:
sda 8589MB
adb 1MB
 found the following drives on your system:
 sda 8589MB
sdb 1MB
                                                                                                       hich drive should GROM modify the boot partition on? [sda]:
  ich drive should GRUM modify the boot partition on? [sda]:
  tting up grub: OK
                                                                                                        tting up grub: OK
```

yassine@yas	ssine-gw-0:	1:~\$ show dho	p server	statistics			
Pool	Size Le	eases Avai	lable U	sage			
assine	252		252 0	ŧ			
yassine@ya:	ssine-gw-0:	l:~\$ show dho	p server	leases			
IP address l Hostna		re address	State	Lease start	Lease expiration	Remaining	Poo
yassine@yas	ssine-gw-0	10-5					

## Настройка DHCP в случае IPv6



```
O: flags=4163<UP, BECADCAST, BUNNING, MOLYICAST>. mts 1500.
       ether da:ca:da:25:27:60 txqueuelen 1000 (Rthermet)
      RX packets 0 bytes 560 (968,0 b)
RX errors 0 dropped 0 overrino 0 frame 0
RX packets 14 bytes 1092 (1.0 KiB)
hi: flags-4161kUP, BROADCAST, BUNNING, MULTICASTS MED 1500
      iseté fe80::7034:44ff:fedé:27c1 prafixion 64 scopeid Ba20clinko
ether 72:34:44:d6:27:c1 twopeneles 1800 (Ethernet)
      RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0,0 B)
  flags-73-thy, indphace, summinus min 65536
       loop taquenelen 1000 (Lucal Loopbuck)
      BX packets 0 bytes 0 (0.0 B)
BX errors 0 dropped 0 overruns 0 frame 0
 nel IFve routing table
                                                                        Flag Met Nef Use If
                                     Next Hop-
                                                                        triccae 1024 I 0 eth
 D::7034:44ff:fed6:27c1/128 |:
D::dRos:daff:fe25:3760/128 |:
at@PC2-yanninut/#
```

```
Configuration path: [service nonter-advert innerfaces with prefix 20001:/6

(enfiguration path: service numer-advert [innerfaces with prefix 20001:/6

(enfiguration path: service numer-advert [innerfaces with prefix 20001:/6

(enfiguration path: service numer-advert innerface with prefix 20001:/64

(configuration path: [service numer-advert interface with prefix 20001:/64] all mody saists

(edit]

Assimplyanolae-qu-618 set service numer-advert interface with prefix 20001:/66] all mody saists

(edit]

Assimplyanolae-qu-618 set service numer-advert interface with other-config-flag) a tradit exists

(edit)

Assimplyanolae-qu-618 set dervice dropwi-nerver shared-setwork-name passine-max saless

Dentiquration path: [dervice dropwi-nerver shared-setwork-name yearine-stales] all sizes and a saless

Configuration path: [service dropwi-nerver shared-setwork-name yearine-stales] all sizes and a saless

Configuration path: [service dropwi-nerver shared-setwork-name yearine-stales] all sizes and a saless and a sales and a
```

```
caseine@yaseine=gw-01; configure
[ent1]
assine@yaseine=gw-01; set interfaces ethernet eth1 address 2000::1/64
[edit]
assine@yaseine=gw-01; set interfaces ethernet eth2 address 2001::1/64
[edit]
assine@yaseine=gw-01; show interfaces
ethernet eth0 (
    address 10.0.0.1/24
    hw-id 0c:6a:be:b6:00:00
]
sthernet eth1 (
    address 2000::1/64
    hw-id 0c:6a:be:b6:00:01
]
ethernet eth2 [
    address 2000::1/64
    bw-id 0c:6a:be:b6:00:02
]
[copback to (
    )
[edit]
assaine@yaseine=gw-01; sawe
Invalid command: [sawew]
[edit]
assaine@yaseine=gw-01; sawe
awing configuration to '/config/config.boot'...
[edit]
assaine@yaseine=gw-01; sawe
```

### **ВЫВОД**

• Я получил навыков настройки службы DHCP на сетевом оборудовании для распределения адресов IPv4 и IPv6.