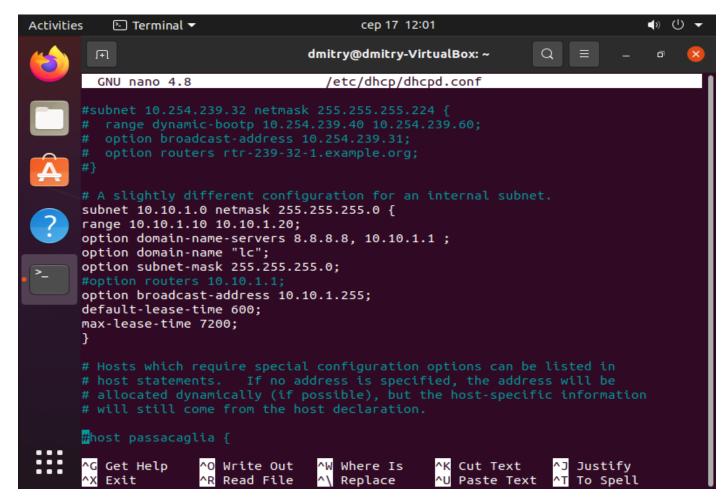
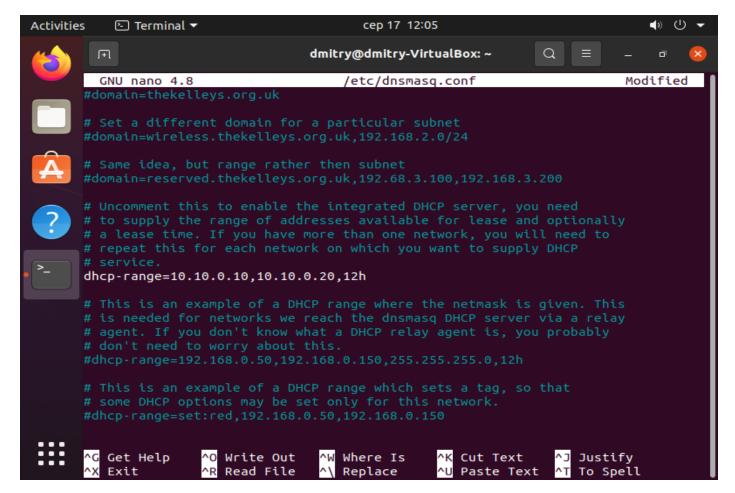
Configuring DHCP, DNS servers

and dynamic routing using OSPF protocol

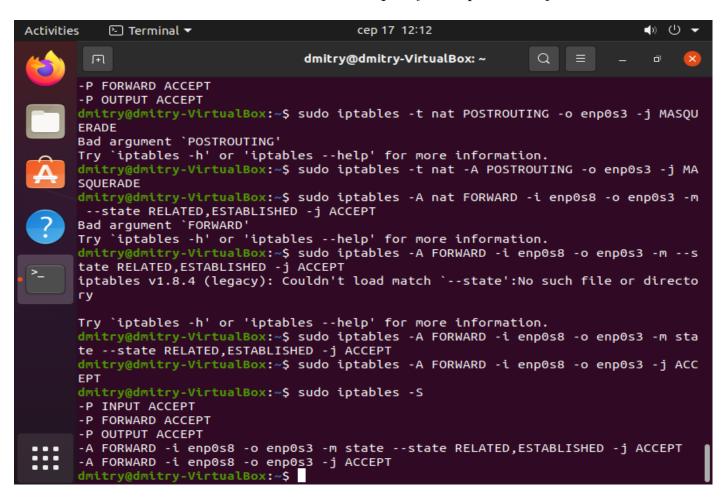
PART 1



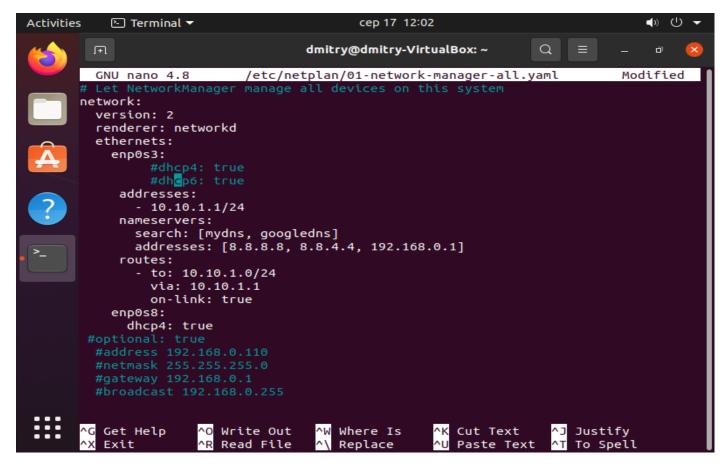
Screenshot 1 – dhcp.conf настройка сервера



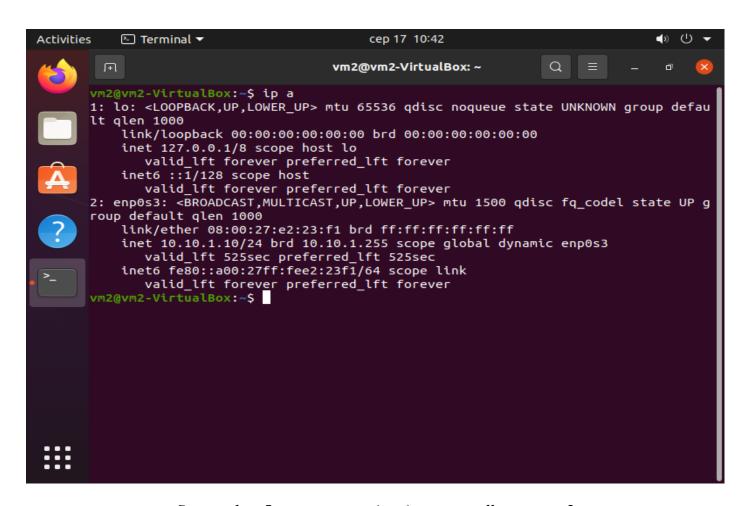
Screenshot 2 – dnsmasq.conf настройка dhcp



Screenshot 3 – настройка iptables для dhcp сервера



Screenshot 4 – netplan настройка dhcp сервера



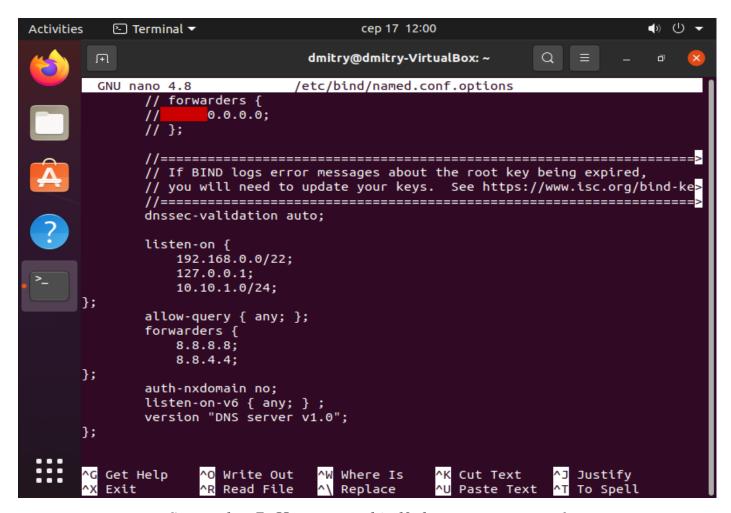
Screenshot 5 – получение ір адреса от dhcp на vm2

```
cep 17 10:50

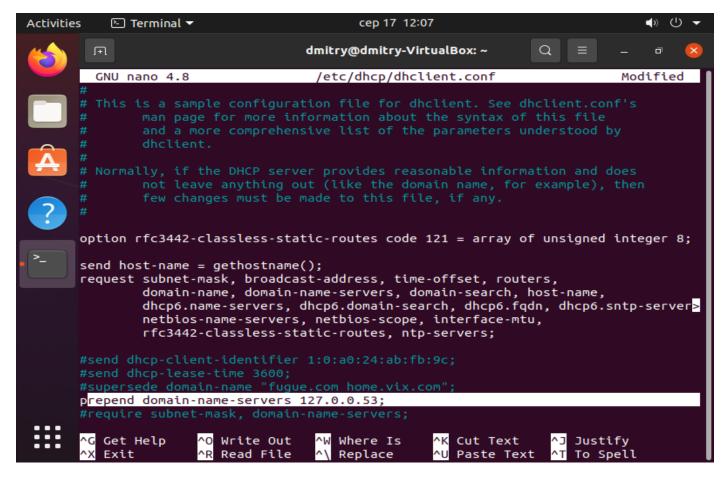
    Terminal ▼

Activities
                                                                     Q
                                        vm3@vm3-VirtualBox: ~
           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: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP g
       roup default qlen 1000
           link/ether 08:00:27:4a:6b:4c brd ff:ff:ff:ff:ff
inet 10.10.1.11/24 brd 10.10.1.255 scope global dynamic noprefixroute enp0s
              valid_lft 581sec preferred_lft 581sec
           inet6 fe80::c1a:818b:10cb:8b6b/64 scope link noprefixroute
              valid_lft forever preferred_lft forever
       3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP g
      roup default qlen 1000
           link/ether 08:00:27:a4:aa:4a brd ff:ff:ff:ff:ff:ff
           inet6 fe80::d647:bcb6:8b66:2d4/64 scope link noprefixroute
              valid_lft forever preferred_lft forever
       vm3@vm3-VirtualBox:~$ dig google.com
       ^Cvm3@vm3-VirtualBox:~$ nslookup epam.com 8.8.8.8
       ^C
       vm3@vm3-VirtualBox:~$ nslookup epam.com 10.10.1.1
                        10.10.1.1
       Server:
       Address:
                        10.10.1.1#53
       Non-authoritative answer:
       Name: epam.com
       Address: 3.214.134.159
       vm3@vm3-VirtualBox:~$
```

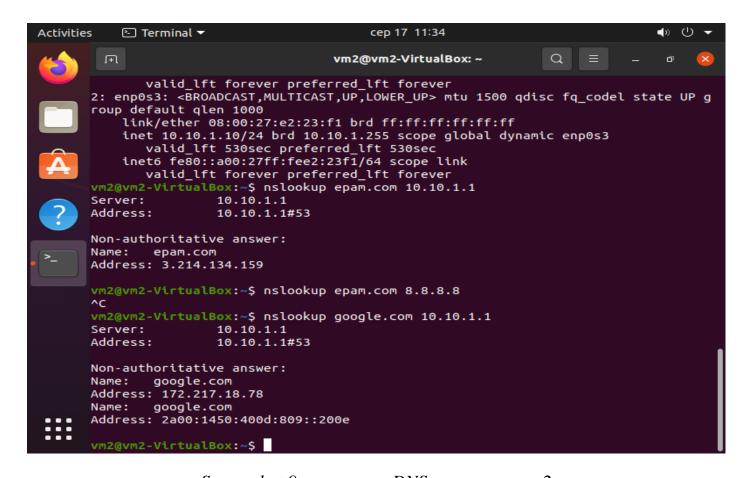
 $Screenshot\ 6-\Pi$ олучение ip om dhcp на vm3 и проверка dns



Screenshot 7- Настройка bind9 dns сервера на vm1



Screenshot 8- настройка dns через dhcpclient.conf



Screenshot 9 – проверка DNS сервера на vm2