Отчет по демо

Расчет адресации

| Имя устройства | IPv4 | IPv6 |
|----------------|------------------------|-----------------------|
| CLI | Eth 0 – 192.168.0.4/24 | Eth 0 – 2000::a:7/120 |
| ISP | Eth 0 – 192.168.0.1/24 | Eth 0 – 2000::a:1/120 |
| | Eth 1 – 10.10.11.1/30 | Eth 1 – 2000::b:1/126 |
| | Eth 2 – 10.10.11.5/30 | Eth 2 – 2000::c:1/126 |
| HQ-R | Eth 0 – 10.10.11.2/30 | Eth 0 – 2000::b:2/62 |
| | Eth 1 – 192.168.1.1/28 | Eth1 - 2000::d:1/60 |
| HQ-SRV | Eth 0 – 192.168.1.5/28 | Eth 0 - 2000::d:8/60 |
| BR-R | Eth 0 – 10.10.11.6/30 | Eth 0 - 2000::b:6/62 |
| | Eth 1 – 192.168.2.1/29 | Eth 1 - 2000::e:1/61 |
| BR-SRV | Eth 0 – 192.168.2.6/29 | Eth 0 - 2000::e:9/61 |

Перед проверкой:

HQ-R, ISP, BR-R

adminer

qwerty2022!

su-

qwerty2022!

systemctl restart NetworkManager

systemctl restart frr.service

// для HQ-R: systemctl restart dhcpd.service

vtysh

conf

ip forwarding

ipv6 forwarding

int eth0

no sh

int eth1

no sh

// для ISP: int eth2

no sh

HQ-SRV

su-

qwerty2022!

systemctl restart samba

systemctl restart bind

Модуль 1

Задание 1

1.a. Присвоили имена устройствам в соответствии с топологией командой systemctl set-hostname "имя_устройства".

1.b. Таблица адресации

| Имя устройства | IPv4 | IPv6 |
|----------------|-------------------------|-----------------------|
| CLI | Eth 0 – 192.168.0.4/24 | Eth 0 – 2000::a:7/120 |
| ISP | Eth 0 – 192.168.0.1/24 | Eth 0 – 2000::a:1/120 |
| | Eth $1 - 10.10.11.1/30$ | Eth 1 – 2000::b:1/126 |
| | Eth $2 - 10.10.11.5/30$ | Eth 2 – 2000::c:1/126 |
| HQ-R | Eth $0 - 10.10.11.2/30$ | Eth 0 – 2000::b:2/62 |
| | Eth 1 – 192.168.1.1/28 | Eth1 - 2000::d:1/60 |
| HQ-SRV | Eth 0 – 192.168.1.5/28 | Eth 0 - 2000::d:8/60 |
| BR-R | Eth 0 – 10.10.11.6/30 | Eth 0 - 2000::b:6/62 |
| | Eth 1 – 192.168.2.1/29 | Eth 1 - 2000::e:1/61 |
| BR-SRV | Eth 0 – 192.168.2.6/29 | Eth 0 - 2000::e:9/61 |

1.c. Маска для Branch /29 = 8 хостов.

1.d. Маска для HQ/28 = 16 хостов.

Задание 2

Включили frr на HQ-R, BR-R.

```
🕎 DE_HQ-R на PC30104 - подключение к виртуальной машине
 Файл Действие Медиа Буфер обмена Вид Справка
GNU nano 7.2
This file tells the frr package which daemons to start
                                                                  /etc/frr/daemons
 Sample configurations for these daemons can be found in
  /usr/share/doc/frr/examples/.
  ATTENTION:
 When activating a daemon for the first time, a config file, even if it is empty, has to be present *and* be owned by the user and group "frr", else
  the daemon will not be started by /etc/init.d/frr. The permissions should
 be u=rw,g=r,o=.
When using "vtysh" such a config file is also needed. It should be owned by
 group "frrvty" and set to ug=rw,o= though. Check /etc/pam.d/frr, too.
 The watchfrr, zebra and staticd daemons are always started.
bgpd=yes
ospfd=yes
ospf6d=yes_
r i pd=no
r i pngd=no
isisd=no
pimd=no
pim6d=no
ldpd=no
nhrpd=no
e igrpd=no
babe ld=no
sharpd=no
pbrd=no
bfdd=no
fabricd=no
vrrpd=no
pathd=no
```

Включили forwarding HQ-R, BR-R, ISP.

```
🕎 DE_HQ-R на PC30104 - подключение к виртуальной машине
 Файл Действие Медиа Буфер обмена Вид Справка
GNU nano 7.2
                                                                      /etc/net/sysctl.conf
 This file was formerly part of /etc/sysctl.conf
### IPV4 networking options.
 IPv4 packet forwarding.
 This variable is special, its change resets all configuration parameters to their default state (RFC 1122 for hosts, RFC 1812 for
  routers).
net.ipv4.ip_forward = 1_
# Source validation by reversed path, as specified in RFC 1812.
  Recommended option for single homed hosts and stub network routers. Could cause troubles for complicated (not loop free) networks running a slow unreliable protocol (sort of RIP), or using static
net.ipv4.conf.default.rp_filter = 1
  If set to true, then the kernel will ignore ICMP ECHO requests sent
  to broadcast/multicast addresses, preventing the use of your system for "smurf" attacks.
net.ipv4.icmp_echo_ignore_broadcasts = 1
  TCP SYN cookies: http://cr.up.to/syncookies.html
```

Настройка FRR на HQ-R.

```
hq-r.hq.work(config-if)# do show run
Building configuration...
Current configuration:
frr version 9.0.2
frr defaults traditional
hostname hq-r.hq.work
log file /var/log/frr/frr.log
interface eth0
 ip address 10.10.11.2/30
 ipv6 address 2000::b:2/62
exit
interface eth1
 ip address 192.168.1.1/28
 ipu6 address 2000::d:1/60
exit
router ospf
redistribute static
 network 10.10.11.0/30 area 0
network 192.168.1.0/28 area 0
exit
end
hq-r.hq.work(config-if)#
Состояние: Работает
```

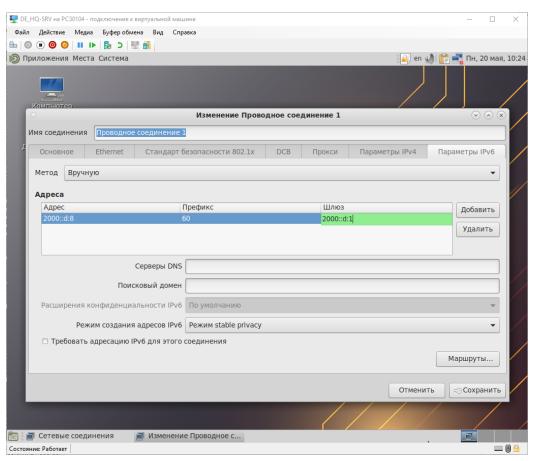
Настройка FRR на BR-R.

```
br-r.branch.work(config-if)# do show run
Building configuration...
Current configuration:
frr version 9.0.2
frr defaults traditional
hostname br-r.branch.work
log file /var/log/frr/frr.log
interface eth0
ip address 10.10.11.6/30
ipv6 address 2000::b:6/62
exit
interface eth1
 ip address 192.168.2.1/29
ipu6 address 2000::e:1/61
exit
router ospf
redistribute static
network 10.10.11.4/30 area 0
network 192.168.2.0/29 area 0
exit
br-r.branch.work(config-if)#
Состояние: Работает
```

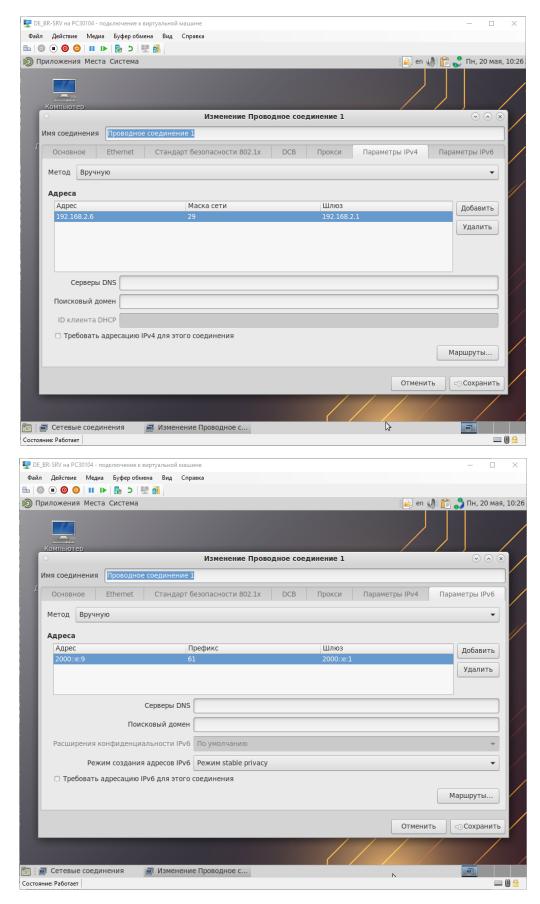
Настройка FRR на ISP.

```
isp(config-if)# do show run
Building configuration...
Current configuration:
.
frr version 9.0.2
frr defaults traditional
hostname isp
log file /var/log/frr/frr.log
interface eth0
 ip address 192.168.0.1/24
 ipu6 address 2000::a:1/120
exit
interface eth1
 ip address 10.10.11.1/30
ipv6 address 2000::b:1/126
 exit
 interface eth2
 ip address 10.10.11.5/30
 ipu6 address 2000::c:1/126
.
router ospf
redistribute static
 network 10.10.11.0/30 area 0 network 10.10.11.4/30 area 0 network 192.168.0.0/24 area 0
 exit
router ospf6
exit
end
isp(config-if)#
Состояние: Работает
```

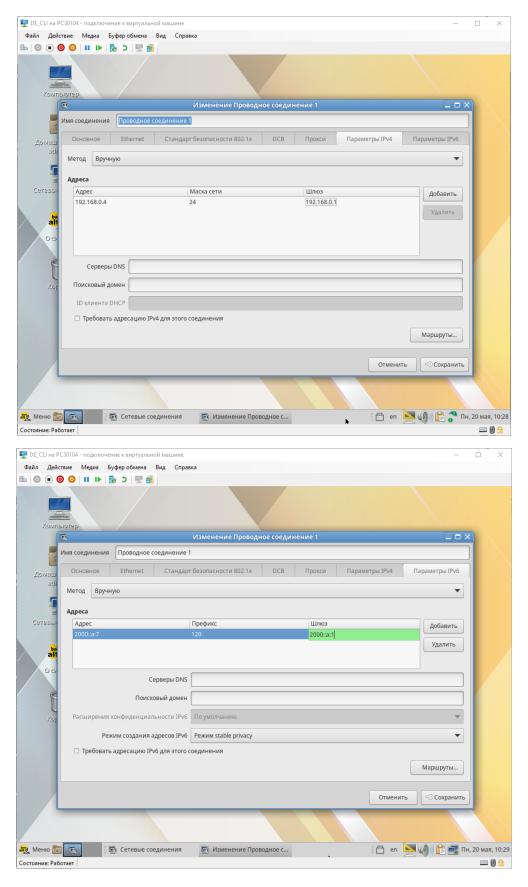
Настроили IPv6 на HQ-SRV.



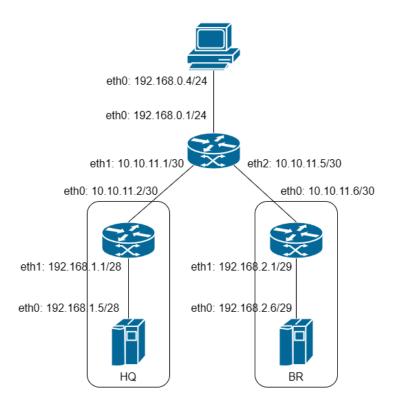
Настроили IPv4 и IPv6 на BR-SRV.



Настроили IPv4 и IPv6 на CLI.



2.а. Топология сети.



Задание 3

Узнали MAC интерфейса на HQ-SRV для выдачи ему фиксированного ір по DHCP.

```
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
    link/ether 00:15:5d:65:0a:7f brd ff:ff:ff:ff:ff
    inet6 2000::d:8/60 scope global noprefixroute
    valid_lft forever preferred_lft forever
    inet6 fe80::718d:ce3f:140:30f9/64 scope link noprefixroute
    valid_lft forever preferred_lft forever
[root@hq-srv ~]#
```

Настроили DHCP на HQ-R.

3.a. Зарезервирован адрес для HQ-SRV: 192.168.1.5

```
| Iroot@hq-r | The systemeth restart dhepd.service |
| Iroot@hq-r | The systemeth status dhepd.service |
| Iroot@hq-r | Th
```

Проверили эхо-запросы до CLI и BR-SRV.

```
тоот@hq-srv: /root

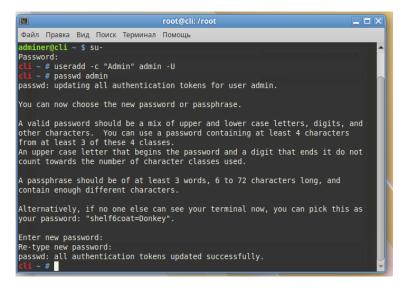
Файл Правка Вид Поиск Терминал Помощь

link/ether 00:15:5d:65:0a:7f brd ff:ff:ff:ff:ff
inet6 2000::d:8/б0 scope global noprefixroute
    valid lft forever preferred lft forever
inet6 fe80::718d:ca3f:140:30f9/64 scope link noprefixroute
    valid lft forever preferred lft forever
[root@hq-srv ~]# ping 192.168.0.4
PING 192.168.0.4 (192.168.0.4) 56(84) bytes of data.
64 bytes from 192.168.0.4: icmp_seq=1 ttl=62 time=0.940 ms
64 bytes from 192.168.0.4: icmp_seq=2 ttl=62 time=2.09 ms
64 bytes from 192.168.0.4: icmp_seq=3 ttl=62 time=2.12 ms
^C

---- 192.168.0.4 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2003ms
rtt min/avg/max/mdev = 0.940/1.717/2.124/0.549 ms
[root@hq-srv ~]# ping 192.168.2.6
PING 192.168.2.6 (192.168.2.6) 56(84) bytes of data.
64 bytes from 192.168.2.6: icmp_seq=1 ttl=61 time=1.23 ms
64 bytes from 192.168.2.6: icmp_seq=2 ttl=61 time=1.58 ms
64 bytes from 192.168.2.6: icmp_seq=2 ttl=61 time=1.50 ms
^C
---- 192.168.2.6 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2003ms
rtt min/avg/max/mdev = 1.229/1.436/1.584/0.150 ms
[root@hq-srv ~]# □
```

Задание 4

Создали учетную запись Admin на CLI



Создали учетную запись Admin на HQ-SRV.

```
root@hq-srv: /root
                                                                                        \bigcirc \bigcirc \bigcirc
Файл Правка Вид Поиск Терминал Помощь
[root@hq-srv ~]# useradd -c "Admin" admin -U
[root@hq-srv ~]# passwd admin
passwd: updating all authentication tokens for user admin.
You can now choose the new password or passphrase.
A valid password should be a mix of upper and lower case letters, digits, and
other characters. You can use a password containing at least 7 characters from all of these classes, or a password containing at least 8 characters
from just 3 of these 4 classes.
An upper case letter that begins the password and a digit that ends it do not
count towards the number of character classes used.
A passphrase should be of at least 3 words, 11 to 72 characters long, and
contain enough different characters.
Alternatively, if no one else can see your terminal now, you can pick this as your password: "Cereal\$lisbon3Proud".
Enter new password:
Weak password: based on a dictionary word and not a passphrase.
Re-type new password: passwd: all authentication tokens updated successfully.
[root@hq-srv ~]#
```

Создали учетные записи Admin и Network admin на HQ-R.

```
Iroot@hq-r "IH useradd -c "Admin" admin -U
Iroot@hq-r "IH passud admin
passud: updating all authentication tokens for user admin.

You can now choose the new password or passphrase.

A valid password should be a mix of upper and lower case letters, digits, and other characters. You can use a password containing at least 7 characters from all of these classes, or a password containing at least 8 characters from just 3 of these 4 classes.

A muper case letter that begins the password and a digit that ends it do not count towards the number of character classes used.

A passphrase should be of at least 3 words, 11 to 72 characters long, and contain enough different characters.

Alternatively, if no one else can see your terminal now, you can pick this as your password: "Kenya_Bean-sugar".

Enter new password:

Meak password: based on a dictionary word and not a passphrase.

Re-type new password:

passwd: updating all authentication tokens updated successfully.

Iroot@hq-r "IH useradd -c "Network admin" network_admin -U
Iroot@hq-r "IH useradd -c "Network admin" network_admin.

You can now choose the new password or passphrase.

A valid password should be a mix of upper and lower case letters, digits, and other characters. You can use a password containing at least 7 characters from all of these classes, or a password containing at least 7 characters from just 3 of these 4 classes.

An upper case letter that begins the password and a digit that ends it do not count towards the number of character classes used.

Alternatively, if no one else can see your terminal now, you can pick this as your password: "stick@aid-ang".

Enter new password: "stick@aid-ang".

Enter new password: based on a dictionary word and not a passphrase.

Re-type new password: based on a dictionary word and not a passphrase.

Re-type new password: based on a dictionary word and not a passphrase.

Re-type new password: based on a dictionary word and not a passphrase.

Re-type new password: based on a dictionary word and not a passphrase.
```

Создали учетные записи Branch admin и Network admin на BR-SRV.

```
root@br-srv: /root
Файл Правка Вид Поиск Терминал Помощь
An upper case letter that begins the password and a digit that ends it do not
count towards the number of character classes used.
A passphrase should be of at least 3 words, 11 to 72 characters long, and
contain enough different characters.
Alternatively, if no one else can see your terminal now, you can pick this as
your password: "dublin*bamboo3course".
Enter new password:
Weak password: based on a dictionary word and not a passphrase.
Re-type new password:
passwd: all authentication tokens updated successfully.
[root@br-srv ~]# useradd -c "Network admin" network_admin -U
[root@br-srv ~]# passwd network_admin
passwd: updating all authentication tokens for user network_admin.
You can now choose the new password or passphrase.
A valid password should be a mix of upper and lower case letters, digits, and
other characters. You can use a password containing at least 7 characters from all of these classes, or a password containing at least 8 characters
from just 3 of these 4 classes.
An upper case letter that begins the password and a digit that ends it do not
count towards the number of character classes used.
A passphrase should be of at least 3 words, 11 to 72 characters long, and
contain enough different characters.
Alternatively, if no one else can see your terminal now, you can pick this as your password: "Sad7burma_token".
Weak password: based on a dictionary word and not a passphrase.
Re-type new password:
passwd: all authentication tokens updated successfully.
[root@br-srv ~]#
```

Создали учетные записи Branch admin и Network admin на BR-R.

```
Irootebr-r "IN useradd -c "Branch admin" branch_admin -U
Irootebr-r "IN passud branch_admin
passud: updating all authentication tokens for user branch_admin.

You can now choose the new password or passphrase.

A valid password should be a mix of upper and lower case letters, digits, and other characters. You can use a password containing at least 7 characters from all of these classes, or a password containing at least 8 characters from just 3 of these 4 classes.

An upper case letter that begins the password and a digit that ends it do not count towards the number of character classes used.

A passphrase should be of at least 3 words, 11 to 72 characters long, and contain enough different characters.

Alternatively, if no one else can see your terminal now, you can pick this as your password: "script9wolves=Bully".

Enter new password:

Weak password: based on a dictionary word and not a passphrase.

Re-type new password:

Passwd: all authentication tokens updated successfully.

Irootebr-r "IN useradd -c "Network admin" network_admin -U
Irootebr-r "IN passwd network_admin passwd: updating all authentication tokens for user network_admin.

You can now choose the new password or passphrase.

A valid password should be a mix of upper and lower case letters, digits, and other characters. You can use a password containing at least 7 characters from just 3 of these 4 classes. or a password containing at least 7 characters from just 3 of these 4 classes.

A passphrase should be of at least 3 words, 11 to 72 characters long, and contain enough different characters.

Alternatively, if no one else can see your terminal now, you can pick this as your password: just your password: based on a dictionary word and not a passphrase.

Re-type new password:

Enter new password:

Alternatively, if no one clse can see your terminal now, you can pick this as your password: based on a dictionary word and not a passphrase.

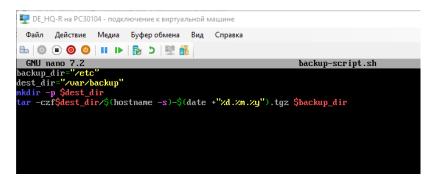
Re-type new password:
```

Замерили пропускную способность сети между двумя узлами HQ-R-ISP по средствам утилиты iperf 3.

```
[root@isp ~]# iperf3 -c 10.10.11.2
Connecting to host 10.10.11.2, port 5201
[ 5] local 10.10.11.1 port 48010 connected to 10.10.11.2 port 5201
                                           Bitrate
  ID1 Interval
                            Transfer
                                                             Retr
         0.00 - 1.00
   51
                            2.44 GBytes
                                           21.0 Gbits/sec
                                                                    3.12 MBytes
                      sec
         1.00-2.00
                            2.49 GBytes
   51
                                           21.4 Gbits/sec
                                                                    3.12 MButes
                      sec
   51
51
                           2.47 GBytes
2.40 GBytes
        2.00-3.00
3.00-4.00
                                                               0
                                                                    3.12 MBytes
                                           21.2 Gbits/sec
                      sec
                      sec
                                           20.6 Gbits/sec
                                                                    3.12 MBytes
         4.00-5.00
                            2.31 GBytes
                                           19.8 Gbits/sec
                                                               0
                                                                    3.12 MBytes
                      sec
   51
        5.00-6.00
                                                               0
                      sec
                           2.39 GBytes
                                           20.5 Gbits/sec
                                                                    3.12 MBytes
                           2.37 GBytes
2.40 GBytes
         6.00 - 7.00
                      sec
                                           20.3 Gbits/sec
                                                                    3.12 MBytes
         7.00-8.00
                                           20.7 Gbits/sec
                                                                    3.12 MBytes
                      sec
   51
         8.00-9.00
                           2.42 GBytes
                                           20.8 Gbits/sec
                                                                    3.12 MBytes
                      sec
   51
         9.00-10.00 sec 2.29 GBytes
                                           19.7 Gbits/sec
                                                                    3.12 MBytes
  ID1 Interval
                            Transfer
                                           Bitrate
                                                             Retr
         0.00-10.00 sec 24.0 GBytes
                                          20.6 Gbits/sec
                                                               0
                                                                                sender
         0.00-10.00 sec 24.0 GBytes 20.6 Gbits/sec
                                                                                receiver
iperf Done
```

Задание 6

Создали backup скрипты для сохранения конфигурации сетевых устройств HQ-R и BR-R.



Запустили скрипт и проверили сохраненные файлы на HQ-R командой: tar -tf /var/backup/имя-машины-дд.мм.гг.tgz | less

```
DE FICE as PCSTOCE - Inguine Companies and submitted

OBAR - Restrictive Meyos Sydep observe Bug Capassa

State Companies of the State of Capassa

State Companies of Capassa Capassa

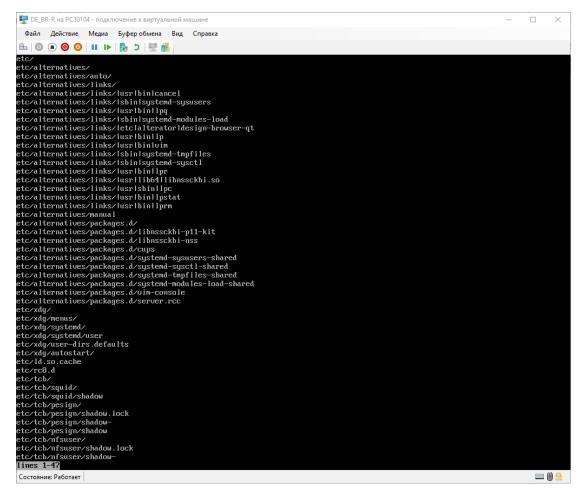
state Companies of Capassa

state Companies Capassa

state Capanies Capassa

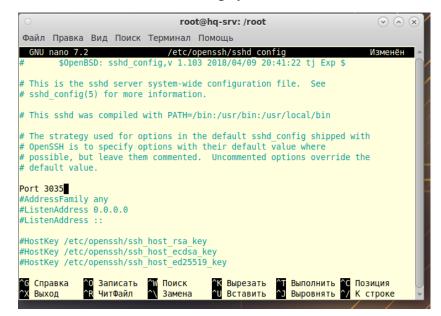
state Ca
```

Запустили скрипт и проверили сохраненные файлы на BR-R



Задание 7 и 8

Настроили ssh для подключения по порту 3035 на HQ-SRV.



Настроили контроль трафика через iptables для перенаправления портов с 22 на 3035 и запретили подключение по ssh для CLI.

```
[root@hq-srv ~]# iptables -t nat -A PREROUTING -p tcp --dport 22 -j REDIRECT --t
o-port 3035
[root@hq-srv ~]# iptables -I INPUT 1 -p tcp -s 192.168.0.4 --dport 3035 -j DROP
[root@hq-srv ~]# iptables-save > /root/iptables-export
[root@hq-srv ~]# export EDITOR=nano
[root@hq-srv ~]#
```

Проверили подключение с BR-SRV.

```
аdmin@hq-srv:/home/admin

Файл Правка Вид Поиск Терминал Помощь

[adminer@br-srv ~]$ su-
Password:
[root@br-srv ~]# ssh admin@192.168.1.5
admin@192.168.1.5's password:
Last login: Mon May 20 11:00:59 2024 from 192.168.2.6

[admin@hq-srv ~]$ ■
```

Проверили возможность подключения с CLI, подключение не происходило.

```
cli ~ # ssh admin@192.168.1.5
```

Модуль 2

Задание 1

Написали конфиг для зон DNS на HQ-SRV

```
zone "hq.work" {
        type master;
        file "hq.db";
zone "branch.work" {
        type master;
        file "branch.db";
zone "1.168.192.in-addr.arpa" {
        type master;
        file "1.db";
zone "2.168.192.in-addr.arpa" {
        type master;
        file "2.db";
  Справка
                Записать
                           W Поиск
                                           Вырезать
                                                        Выполнить С Позиция
^Х Выход
                                           Вставить
                ЧитФайл
                             Замена
                                                        Выровнять
                                                                  ^/ К строке
```

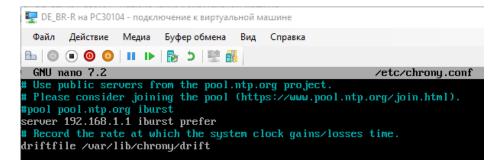
Проверили прямые и обратные зоны, обратной зоны для BR-SRV (192.168.2.6) нет по заданию.

```
[root@hq-srv ~]# host br-r.branch.work
br-r.branch.work has address 192.168.2.1
[root@hq-srv ~]# host 192.168.2.6
Host 6.2.168.192.in-addr.arpa. not found: 3(NXDOMAIN)
[root@hq-srv ~]# host 192.168.1.5
5.1.168.192.in-addr.arpa domain name pointer hq-srv.hq.work.
[root@hq-srv ~]#
```

Задание 2

Настроили конфиг для NTP на HQ-R

Настраиваем конфиг NTP для клиентов: BR-R, HQ-SRV, BR-SRV, CLI



Проверили подключенных клиентов NTP на HQ-R

```
[root@hq-r ~]# chronyc clients
                                NTP
                                      Drop Int IntL Last
Hostname
                                                               Cmd
                                                                      Drop Int Last
localhost.localdomain
10.10.11.6
                                              6
                                                                 0
                                                                         0
                                  7
192.168.1.5
                                         0
                                                                 0
                                                                         0
                                              6
                                                        14
192.168.2.6
                                                                         0
                                         0
                                                                 0
192.168.0.4
[root@hq-r
Состояние: Работает
```

Проверили stratum и установленное московское время UTC +3, в задании требуется московское время с UTC +4, что сделать невозможно.

Задание 4

Обоснование: Выбор Samba в качестве контроллера домена обеспечивает интеграцию Linux-систем в сети Windows, обеспечивает безопасное управление ресурсами в сети и снижает затраты на создание и поддержку контроллера домена. Также на базе samba в дальнейшем планируется развёртка сетевых ресурсов организации, что позволит в рамках одного программного решения реализовать несколько практических задач.

Провели первичную настройку DNS для Samba и проверили параметры домена.

```
root@hq-srv: /root
Файл Правка Вид Поиск Терминал Помощь
INFO 2024-05-20 11:34:51,027 pid:4076 /usr/lib64/samba-dc/python3.9/samba/provis
                                            S-1-5-21-3096581237-4018584607-3480
ion/__init__.py #502: DOMAIN SID:
152206
[root@hq-srv ~]# systemctl enable --now samba
Synchronizing state of samba.service with SysV service script with /lib/systemd/
systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable samba
Created symlink /etc/systemd/system/multi-user.target.wants/samba.service → /lib
/systemd/system/samba.service.
[root@hq-srv ~]# systemctl enable --now bind
Synchronizing state of bind.service with SysV service script with /lib/systemd/s
vstemd-svsv-install.
Executing: /lib/systemd/systemd-sysv-install enable bind
[root@hq-srv ~]# cp /var/lib/samba/private/krb5.conf /etc/krb5.conf
cp: переписать '/etc/krb5.conf'?
[root@hq-srv ~]# samba-tool domain info 127.0.0.1
Forest
                 : demo.first
Domain
                : demo.first
Netbios domain : DEMO
DC name
                : hq-srv.demo.first
DC netbios name : HQ-SRV
                : Default-First-Site-Name
Server site
Client site
                 : Default-First-Site-Name
[root@hq-srv ~]#
```

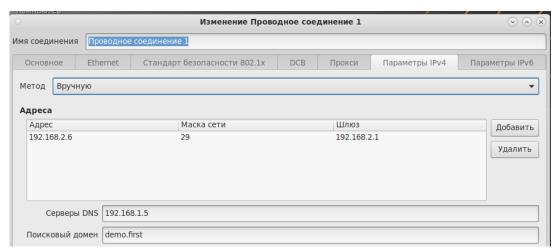
Проверили работу зон DNS

Зашли в домен под administrator

```
[root@hq-srv ¬]# kinit administrator@DEMO.FIRST
Password for administrator@DEMO.FIRST:
Warning: Your password will expire in 41 days on Пн 01 июл 2024 11:34:48
[root@hq-srv ~]# ∏
```

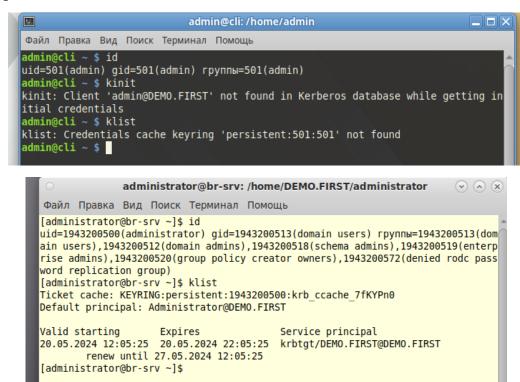
3.a. Вводим CLI и BR-SRV в домен demo.first

| | | Изменение Проводн | юе соедин | ение 1 | | |
|---|---|--------------------------|-------------|-------------|----------------|----------------|
| мя соединения | оводное соединен | ие 1 | | | | |
| Основное Eti | hernet Станд | дарт безопасности 802.1х | DCB | Прокси | Параметры IPv4 | Параметры IPv6 |
| Метод Вручную | | | | | | - |
| Адреса | | | | | | |
| Адрес | | Маска сети | | Шлюз | | Добавить |
| 192.168.0.4 | | 24 | | 192.168.0.1 | 192.168.0.1 | |
| | | | | | | Удалить |
| | | | | | | |
| Серверы DNS | 192.168.1.5 demo.first | | | | | |
| | | | | | | |
| | demo.first | stanı | | | | |
| Поисковый домен ID клиента DHCP Дом | demo.first | | | | 1 | |
| Поисковый домен ID клиента DHCP Дом | demo.first | DEMO.FIRST | | | | |
| Поисковый домен ID клиента DHCP Дом | demo.first | | | | | |
| Поисковый домен ID клиента DHCP Дом Дом Рабо | demo.first | DEMO.FIRST DEMO | | | | |
| Поисковый домен ID клиента DHCP Дом Дом Рабо | demo.first мен Active Direction ен: рчая группа: | DEMO.FIRST DEMO | urity Servi | ces Daemon | | |

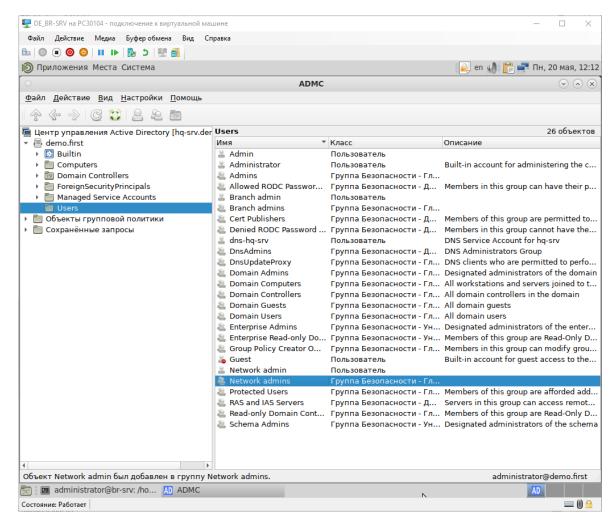


| Центр | управления системой (от суперпол | ызователя) 📀 🛆 |
|------------------|--|------------------------------|
| вная Режим экспе | рта 🗶 Выход | ? Справк |
| Рабочая группа: | demo | |
| Имя компьютера: | br-srv | |
| | SSSD (System Security Services Daemon) Winbind (NSS daemon for NT servers) | |
| ○ Домен FreeIPA | | |
| Внимание: Не ус | гановлен пакет task-auth-freeipa. Аутентифи | кация в домене FreelPA недос |
| Домен: | de | |
| Имя компьютера: | br- Информация | |
| Настройки SSSD | Добро пожаловать в домен DEMO.FIRST. | |
| Внимание! | ₩ OK | |
| Изменение домен | а заработает только после перезагрузк | и компьютера |
| Восстановить фа | йлы конфигурации по умолчанию (smb.con | f, krb5.conf, sssd.conf). |
| | | |

Проверили находится ли пользователь в домене на CLI и BR-SRV



В Samba создали пользователей добавили их в соответствующие группы



3.b. Отслеживание пользователей в домене

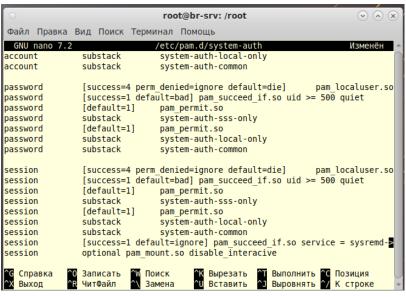


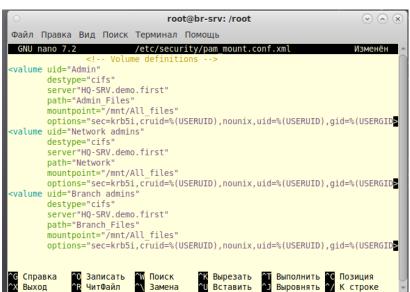
Задание 5

Написали конфиг для общих папок в домене для групп пользователей

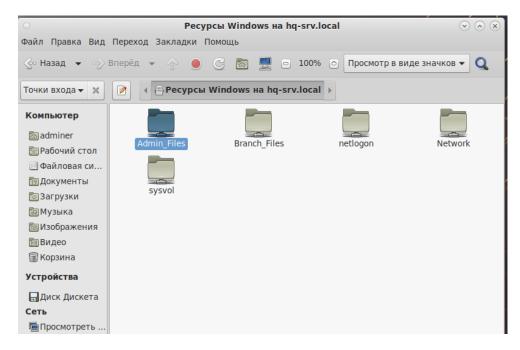
```
root@hq-srv: /root
                                                                              \bigcirc \bigcirc \bigcirc
Файл Правка Вид Поиск Терминал Помощь
                                                                            Изменён
GNU nano 7.2
                                  /etc/samba/smb.conf
        path = /var/lib/samba/sysvol/demo.first/scripts
        read only = No
[Branch_Files]
       path=/opt/branch
        writable = yes
        read only = no
        valid users = @"DEMO\Branch admins"
        path=/opt/network
        writable = yes
        read only = no
        valid users = @"DEMO\Network admins"
       path=/opt/admin
        writable = yes
        read only = no
        valid users = @"DEMO\Admins"
                                                       ^T Выполнить ^C Позиция ^J Выровнять ^/ К строке
             ^О Записать
                            ^W Поиск
                                            Вырезать
                           ^\ Замена
             ^R ЧитФайл
                                          ^U Вставить
```

Монтируем папки

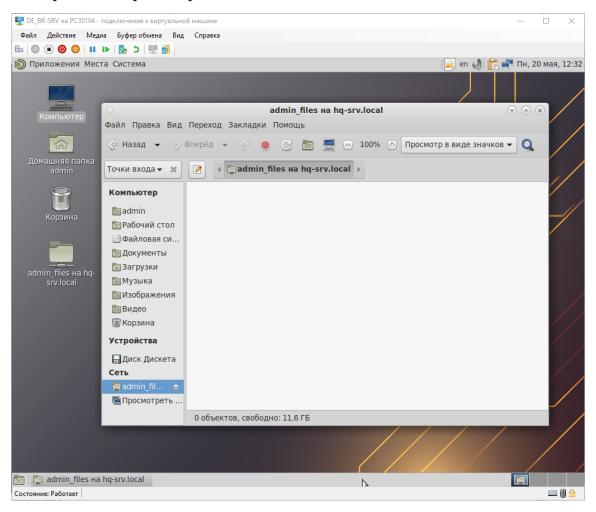




Все общие папки видны в сетевом пространстве



Проверяем что пользователь admin может без дополнительной аутентификации просматривать Admin_Files



При попытке открыть другие папки требуется авторизация под нужным пользователем

