ISP

systemctl restart network NetworkManager frr.service

vtysh

conf t

do sho run

ip forwarding

ipv6 forwarding

do wri

ex

ex

sysctl -a|grep forward

nano /etc/net/sysctl.conf

systemctl restart NetworkManager

systemctl restart frr.service

systemctl enable --now iperf3

HQ-R

systemctl restart network NetworkManager frr.service

apt-get update

apt-get install frr

nano /etc/frr/daemons

systemctl start frr

vtysh

conf t

interface eth0

ip address 10.10.11.2/30

ipv6 address 2000::b:2/126

interface eth1

ip address 192.168.1.1/27

ipv6 address 2000::d:1/123

router ospf

ospf router-id 1.1.1.1

network 10.10.11.0/30 area 0

network 192.168.1.0/28 area 0

do sho run

ip forwarding

ipv6 forwarding

do wri

ex

ex

sysctl -a|grep forward

nano /etc/net/sysctl.conf

systemctl restart NetworkManager

systemctl restart frr.service

apt-get install dhcp-server

nano /etc/dhcp/dhcpd.conf

#конфиг

option domain-name "HQ-R";

option domain-name-servers 192.168.1.1;

default-lease-time 6000;

max-lease-time 72000;

authoritative;

subnet 192.168.1.0 netmask 255.255.255.192 {

option routers 192.168.1.1;

}

#конфиг

nano /etc/sysconfig/dhcpd

chkconfig dhcpd on

service dhcpd start

systemctl status dhcpd

useradd network-admin -m -c "Network admin" -U

passwd network-admin

useradd admin -m -c "Admin" -U

passwd admin

P@ssw0rd

systemctl enable --now iperf3

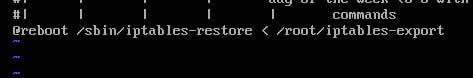
iperf3 -c 192.168.0.1 -f m --get-server-output

iptables -A FORWARD -i eth1 -s 192.168.0.0/24 -p tcp --dport [порт, указанный в задании] -j DROP

iptables-save > /root/iptables-export (любое имя и путь)

export EDITOR=nano

crontab -e



Ctrl + O, Enter, Ctrl + X

HQ-SRV

dnf install openssh-server

nano /etc/openssh/sshd\_config

# Раскомментируйте и измените следующую строку

PermitRootLogin yes

порт ssh прописать тот, который указан в задании

#

systemctl status ssh

systemctl restart sshd

BR-R

systemctl restart network NetworkManager frr.service

apt-get update

apt-get install frr

nano /etc/frr/daemons

systemctl start frr

vtysh

conf t

interface eth0

ip address 10.10.11.6/30

ipv6 address 2000::c:2/126

interface eth1

ip address 192.168.2.1/29

ipv6 address 2000::e:1/124

router ospf

ospf router-id 1.1.1.2

network 10.10.11.4/30 area 0

network 192.168.2.0/28 area 0

do sho run

ip forwarding

ipv6 forwarding

do wri

ex

ex

sysctl -a|grep forward

nano /etc/net/sysctl.conf

systemctl restart NetworkManager

systemctl restart frr.service

useradd branch-admin -m -c "Branch admin" -U

passwd branch-admin

useradd network-admin -m -c "Network admin" -U

passwd network-admin

#бэкапы

nano /var/backup-script/backup.sh

#конфиг для файла с бэкапом

echo "Start backup"

data=$(date +%d.%m.%Y-%H:%M:S)

mkdir /var/backup/$data

cp -r /etc/frr /var/backup/$data

cd -r /etc/nftables /var/backup/$data

cp -r /etc/NetworkManager/system-connections /var/backup/$data

cp -r /etc/dhcp /var/backup/$data

cd /var/backup

tar czfv "/.data/tar/gz" ./$data

rm -r /var/backup/$data

echo "Done"

#

chmod +x /var/backup-script/backup.sh

/var/backup-script/backup.sh

МОДУЛЬ 2

HQ-SRV

nano /etc/bind/options.conf

#

\*/

Listen-on { any; }

#

|  |  |  |  |
| --- | --- | --- | --- |
| Имя устройства | IPv4 | IPv6 | Имя интерфейса |
| CLI | 192.168.0.2/24 | 2000::а:2/120 |  |
| ISP | 192.168.0.1/24 | 2000::а:1/120 |  |
|  | 10.10.11.1/30 | 2000::b:1/126 |  |
|  | 10.10.11.5/30 | 2000::с:1/126 |  |
| HQ-R | 10.10.11.2/30 | 2000::b:2/126 |  |
|  | 192.168.1.0/27 | 2000::d:1/123 |  |
| HQ-SRV | 192.168.1.2/27 | 2000::d:2/123 |  |
| BR-R | 10.10.11.6/30 | 2000::c:2/126 |  |
|  | 192.168.2.1/28 | 2000::e:1/124 |  |
| BR-SRV | 192.168.2.2/28 | 2000::e:2/124 |  |

