

Команды которые юзал для демки 1 модуля

1 Задание:

```
hostnamectl set-hostname isp.au-team.irpo
```

```
hostnamectl set-hostname hq-rtr.au-team.irpo
```

```
hostnamectl set-hostname br-rtr.au-team.irpo
```

```
hostnamectl set-hostname hq-srv.au-team.irpo
```

```
hostnamectl set-hostname hq-cli.au-team.irpo
```

```
hostnamectl set-hostname br-srv.au-team.irpo
```

```
newgrp
```

```
https://ipmeter.ru/(калькулятор)
```

```
nmtui
```

```
systemctl restart networking
```

```
nano /etc/sysctl.conf
```

```
sysctl -p
```

2 Задание

```
подключить диск и нетворк
```

```
nano /etc/resolv.conf
```

```
domain tomintech.ru
```

```
search tomintech.ru
```

```
nameserver 10.99.99.97
```

```
sudo apt install iptables iptables-persistent (только для ISP)
```

```
iptables -t nat -A POSTROUTING -o ens192 -j MASQUERADE
```

```
netfilter-persistent save
```

3 задание (только на сервера)

```
useradd sshuser -u 1010 -U
```

```
passwd sshuser
```

```
usermod -aG sudo sshuser
```

```
visudo
```

```
sshuser ALL=(ALL) NOPASSWD: ALL
```

```
su sshuser
```

```
ctr+d выход
```

```
useradd net_admin -U (на BR-RTR HQ-RTR)
```

```
passwd net_admin
```

5 Задание

```
nano /etc/ssh/sshd_config ( на HQ-SRV и BR-SRV)
```

```
Меняем Port на 2024
```

```
MaxAuthTries на 2
```

```
password authentication yes
```

```
banner /etc/ssh/bannermotd
```

```
Match user sshuser
```

```
AllowUsers sshuser
```

```
nano /etc/ssh/bannermotd
```

```
Authorized access only
```

6 Задание

```
nmcli connection modify gre1 ip-tunnel.ttl 64
```

```
nmcli connection modify gre2 ip-tunnel.ttl 64
```

7 Задание

```
apt install frr ( на HQ-RTR)
```

```
с ISP прописать домен через nano /etc/resolv.conf и выключить нахуй все порты кроме wired connection
```

```
nano /etc/frr/daemons
```

```
systemctl enable --now frr
```

```
vtysh
```

```
systemctl restart frr
```

```
conf t
```

```
router ospf
```

```
passive-interface default
```

```
network 192.168.100.0/26 area 0
```

```
network 192.168.100.64/28 area 0
```

```
network 10.10.0.0/30 area 0
```

```
area 0 authentication
```

```
exit
```

```
interface gre1
```

```
no ip ospf network broadcast
```

```
no ip ospf passive
```

```
ip ospf authentication
```

```
ip ospf authentication-key password
```

```
exit
```

```
exit
```

```
write
```

9 Задание

```
sudo apt install isc-dhcp-server
```

```
nano /etc/default/isc-dhcp-server
```

```
(дописать ens и vlan (ens224.200))
```

```
nano /etc/dhcp/dhcpd.conf (меняем subnet 192.168.20.0 netmask 255.255.255.240
```

```
range 192.168.20.14
```

```
option domain-name "au-team.irpo";
```

```
option routers 192.168.20.1))
```

```
systemctl restart isc-dhcp-server.service
```

11 Задание

```
timedatectl set-timezone Asia/Tomsk
```

На BR-RTR Создаем gre2 с айпишником от ISP BR

На HQ-RTR Создаем gre1 с айпишником от ISP HQ

Модуль 2

задание 9 установка яндекс (на HQ-CLI)

```
https://krivoshein.site/kak-ustanovit-yandeks-brauzer-na-ubuntu-22-04-20-04/(ссайт для взятие трех команд, способ 2 через терминал)
```

```
wget https://browser.yandex.ru/download/?os=linux -O yandex-browser.deb
```

```
sudo dpkg -i yandex-browser.deb
```

```
sudo apt --fix-broken install
```

3 Задание

```
sudo apt update (На HQ-RTR)
```

```
sudo apt install chrony
```

```
sudo systemctl start chrony
```

```
sudo systemctl enable chrony
```

```
sudo systemctl status chrony
```

```
sudo nano /etc/chrony/chrony.conf
```

8 Задание

```
sudo apt install nginx (На HQ-RTR)
```

```
systemctl enable --now nginx
```

```
nano /etc/nginx/nginx.conf
```

Спускаемся в конец документа и перед последней фигурной скобкой { прописываем

```
server {
```

```
    listen 80;
```

```
    server_name moodle.au-team.irpo;
```

```
    location / {
```

```
        proxy_pass http://192.168.100.2:80;
```

```
    }
```

```
}
```

```
server {
```

```
    listen 80;
```

```
    server_name wiki.au-team.irpo;
```

```
    location / {
```

```
        proxy_pass http://192.168.200.2:8080;
```

```
    }
```

```
}
```

```
systemctl restart nginx
```

На HQ-CLI в браузере заходим по доменному имени

на Moodle – moodle.au-team.irpo

на MediaWiki – wiki.au-team.irpo

<https://rutube.ru/video/private/8fd1f7a9b3df0e98835f614e2c64ec1a/?p=O9AQM0xBumBXM914CJ00VQ>