







Команды:

ДЛЯ R1:

enable

configure

interface FastEthernet 0/0

ip address 192.168.1.3 255.255.255.0

interface FastEthernet 1/0

ip address 192.168.3.3 255.255.255.0

interface FastEthernet 2/0

ip address 192.168.2.3 255.255.255.0

устанавливаем статическую маршрутизацию для тех, у кого цель lan 3, отправлять на адрес порта eth 0/0 Route 2

ip route 192.168.3.0 255.255.255.0 192.168.3.2

interface FastEthernet 0/0

ip helper-address 192.168.3.2

interface FastEthernet 2/0

ip helper-address 192.168.3.2

ДЛЯ R2:

enable

configure

присваиваем адрес порту

interface FastEthernet 0/0

ip address 192.168.3.2 255.255.255.0

wr memory

ip dhep pool LAN1pool

network 192.168.1.0 255.255.255.0

default-router 192.168.1.3

dns-server 192.168.1.3

lease 20

создаем пул для lan2 из которого будем черпать адреса.

ip dhep pool LAN2pool

network 192.168.2.0 255.255.255.0

устанавливаем адрес, куда нужно перенаправить запрос

default-router 192.168.2.3

dns-server 192.168.2.3

время жизни адреса в днях

lease 20

Исключаем эти адреса из пула, они уже заданы для интерфейсов маршрутизатора:

ip dhcp excluded-address 192.168.1.3

ip dhcp excluded-address 192.168.2.3

Устанавливаем статическую маршрутизацию, чтоб запросы, которые идут в подсети 1.0 или 2.0 перенаправлялись на первый маршрутизатор eth 1/0 ip route 192.168.1.0 255.255.255.0 192.168.3.3 ip route 192.168.2.0 255.255.255.0 192.168.3.3

PC1> ip dhcp – Запросили адрес DORA IP 192.168.1.1/24 GW 192.168.1.3

PC1> ping 192.168.1.2 пинганули другие пк

84 bytes from 192.168.1.2 icmp_seq=1 ttl=64 time=15.409 ms

84 bytes from 192.168.1.2 icmp_seq=2 ttl=64 time=7.350 ms

84 bytes from 192.168.1.2 icmp_seq=3 ttl=64 time=7.844 ms

84 bytes from 192.168.1.2 icmp_seq=4 ttl=64 time=0.669 ms

84 bytes from 192.168.1.2 icmp_seq=5 ttl=64 time=0.869 ms

PC1> ping 192.168.2.2

84 bytes from 192.168.2.2 icmp seq=1 ttl=63 time=27.965 ms

84 bytes from 192.168.2.2 icmp seq=2 ttl=63 time=15.176 ms

84 bytes from 192.168.2.2 icmp_seq=3 ttl=63 time=15.227 ms

84 bytes from 192.168.2.2 icmp_seq=4 ttl=63 time=15.147 ms

84 bytes from 192.168.2.2 icmp seq=5 ttl=63 time=14.738 ms

PC1> ping 192.168.2.1

84 bytes from 192.168.2.1 icmp_seq=1 ttl=63 time=30.007 ms 84 bytes from 192.168.2.1 icmp_seq=2 ttl=63 time=18.135 ms 84 bytes from 192.168.2.1 icmp_seq=3 ttl=63 time=21.842 ms 84 bytes from 192.168.2.1 icmp_seq=4 ttl=63 time=15.524 ms 84 bytes from 192.168.2.1 icmp_seq=5 ttl=63 time=15.109 ms

PC2> ip dhcp

DDORA IP 192.168.1.2/24 GW 192.168.1.3

PC2> ping 192.168.1.1

84 bytes from 192.168.1.1 icmp_seq=1 ttl=64 time=0.627 ms 84 bytes from 192.168.1.1 icmp_seq=2 ttl=64 time=0.688 ms 84 bytes from 192.168.1.1 icmp_seq=3 ttl=64 time=0.562 ms 84 bytes from 192.168.1.1 icmp_seq=4 ttl=64 time=1.906 ms 84 bytes from 192.168.1.1 icmp_seq=5 ttl=64 time=0.654 ms

PC2> ping 192.168.2.1

84 bytes from 192.168.2.1 icmp_seq=1 ttl=63 time=11.660 ms 84 bytes from 192.168.2.1 icmp_seq=2 ttl=63 time=15.221 ms 84 bytes from 192.168.2.1 icmp_seq=3 ttl=63 time=15.543 ms 84 bytes from 192.168.2.1 icmp_seq=4 ttl=63 time=15.038 ms 84 bytes from 192.168.2.1 icmp seq=5 ttl=63 time=15.047 ms

PC2> ping 192.168.2.2

84 bytes from 192.168.2.2 icmp_seq=1 ttl=63 time=13.330 ms 84 bytes from 192.168.2.2 icmp_seq=2 ttl=63 time=15.278 ms 84 bytes from 192.168.2.2 icmp_seq=3 ttl=63 time=15.143 ms 84 bytes from 192.168.2.2 icmp_seq=4 ttl=63 time=14.580 ms 84 bytes from 192.168.2.2 icmp_seq=5 ttl=63 time=15.386 ms

PC3> ip dhcp

DDORA IP 192.168.2.2/24 GW 192.168.2.3

PC3> ping 192.168.1.1

84 bytes from 192.168.1.1 icmp_seq=1 ttl=63 time=16.359 ms 84 bytes from 192.168.1.1 icmp_seq=2 ttl=63 time=14.840 ms 84 bytes from 192.168.1.1 icmp_seq=3 ttl=63 time=14.331 ms 84 bytes from 192.168.1.1 icmp_seq=4 ttl=63 time=14.863 ms 84 bytes from 192.168.1.1 icmp_seq=5 ttl=63 time=14.488 ms

PC3> ping 192.168.1.2

84 bytes from 192.168.1.2 icmp_seq=1 ttl=63 time=27.401 ms 84 bytes from 192.168.1.2 icmp_seq=2 ttl=63 time=15.181 ms 84 bytes from 192.168.1.2 icmp_seq=3 ttl=63 time=14.916 ms 84 bytes from 192.168.1.2 icmp_seq=4 ttl=63 time=14.290 ms 84 bytes from 192.168.1.2 icmp_seq=5 ttl=63 time=15.990 ms

PC3> ping 192.168.2.1

84 bytes from 192.168.2.1 icmp_seq=1 ttl=64 time=0.536 ms 84 bytes from 192.168.2.1 icmp_seq=2 ttl=64 time=0.624 ms 84 bytes from 192.168.2.1 icmp_seq=3 ttl=64 time=0.549 ms 84 bytes from 192.168.2.1 icmp_seq=4 ttl=64 time=0.550 ms 84 bytes from 192.168.2.1 icmp_seq=5 ttl=64 time=1.622 ms PC4> ip dhcp DDORA IP 192.168.2.1/24 GW 192.168.2.3

PC4> ping 192.168.1.1

84 bytes from 192.168.1.1 icmp_seq=1 ttl=63 time=14.667 ms 84 bytes from 192.168.1.1 icmp_seq=2 ttl=63 time=15.380 ms 84 bytes from 192.168.1.1 icmp_seq=3 ttl=63 time=15.056 ms 84 bytes from 192.168.1.1 icmp_seq=4 ttl=63 time=14.479 ms 84 bytes from 192.168.1.1 icmp_seq=5 ttl=63 time=15.221 ms

PC4> ip dhcp

DORA IP 192.168.2.1/24 GW 192.168.2.3

PC4> ping 192.168.1.1

84 bytes from 192.168.1.1 icmp_seq=1 ttl=63 time=14.657 ms 84 bytes from 192.168.1.1 icmp_seq=2 ttl=63 time=15.083 ms 84 bytes from 192.168.1.1 icmp_seq=3 ttl=63 time=14.747 ms 84 bytes from 192.168.1.1 icmp_seq=4 ttl=63 time=15.205 ms 84 bytes from 192.168.1.1 icmp_seq=5 ttl=63 time=14.736 ms

PC4> ping 192.168.1.2

84 bytes from 192.168.1.2 icmp_seq=1 ttl=63 time=15.782 ms 84 bytes from 192.168.1.2 icmp_seq=2 ttl=63 time=15.781 ms 84 bytes from 192.168.1.2 icmp_seq=3 ttl=63 time=14.618 ms 84 bytes from 192.168.1.2 icmp_seq=4 ttl=63 time=17.462 ms 84 bytes from 192.168.1.2 icmp_seq=5 ttl=63 time=14.925 ms

PC4> ping 192.168.2.2

84 bytes from 192.168.2.2 icmp_seq=1 ttl=64 time=3.912 ms 84 bytes from 192.168.2.2 icmp_seq=2 ttl=64 time=7.549 ms 84 bytes from 192.168.2.2 icmp_seq=3 ttl=64 time=3.781 ms 84 bytes from 192.168.2.2 icmp_seq=4 ttl=64 time=2.302 ms 84 bytes from 192.168.2.2 icmp_seq=5 ttl=64 time=6.978 ms