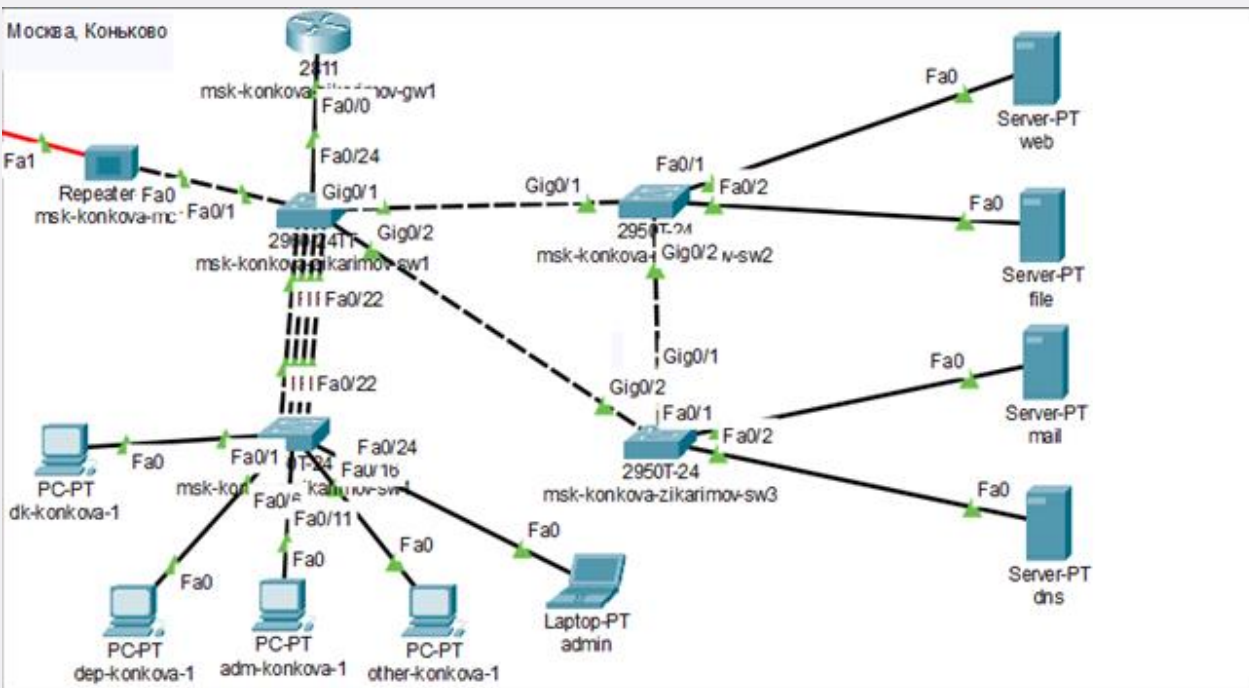


# **Настройка списков управления доступом (ACL)**

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# Последовательность выполнения работы





- Настройка доступа к web-серверу по порту tcp 80
- Добавление списка управления доступом к интерфейсу
- Дополнительный доступ для администратора по протоколам Telnet и FTP
- Настройка доступа к почтовому серверу
- Настройка доступа к DNS-серверу
- Разрешение icmp-запросов
- Настройка доступа для сети Other
- Настройка доступа администратора к сети сетевого оборудования

```
msk-konkova-zikarimov-gw1(config)#ip ac
msk-konkova-zikarimov-gw1(config)#ip access-list ex
msk-konkova-zikarimov-gw1(config)#ip access-list extended
servers-out
msk-konkova-zikarimov-gw1(config-ext-nacl)#remark web
msk-konkova-zikarimov-gw1(config-ext-nacl)#permit tcp any
host 10.128.0.2 eq 80
```

```
msk-konkova-zikarimov-gw1(config)#ip access-list extended
servers-out
msk-konkova-zikarimov-gw1(config-ext-nacl)#permit tcp
host 10.128.6.200 host 10.128.0.2 range 20 ftp
msk-konkova-zikarimov-gw1(config-ext-nacl)#permit tcp
host 10.128.6.200 host 10.128.0.2 eq telnet
msk-konkova-zikarimov-gw1(config-ext-nacl)#exit
```

```
msk-konkova-zikarimov-gw1(config)#int
msk-konkova-zikarimov-gw1(config)#interface f0/0.3
msk-konkova-zikarimov-gw1(config-subif)#ip ac
msk-konkova-zikarimov-gw1(config-subif)#ip access-group
servers-out out
msk-konkova-zikarimov-gw1(config-subif)#exit
```

```
admin
Physical Config Desktop Programming Attributes
Command Prompt

Ping statistics for 10.128.0.4:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ftp 10.128.0.2
Trying to connect...10.128.0.2
Connected to 10.128.0.2
220- Welcome to PT Ftp server
Username:cisco
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>

C:\>ftp 10.128.0.3
Trying to connect...10.128.0.3
Connected to 10.128.0.3
220- Welcome to PT Ftp server
Username:cisco
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>

C:\>
```

```
admin
Physical Config Desktop Programming Attributes
Command Prompt

C:\>ping 10.128.0.3

Pinging 10.128.0.3 with 32 bytes of data:

Request timed out.
Reply from 10.128.0.3: bytes=32 time=12ms TTL=127
Reply from 10.128.0.3: bytes=32 time=1ms TTL=127
Reply from 10.128.0.3: bytes=32 time<1ms TTL=127

Ping statistics for 10.128.0.3:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 12ms, Average = 4ms

C:\>ping 10.128.0.4

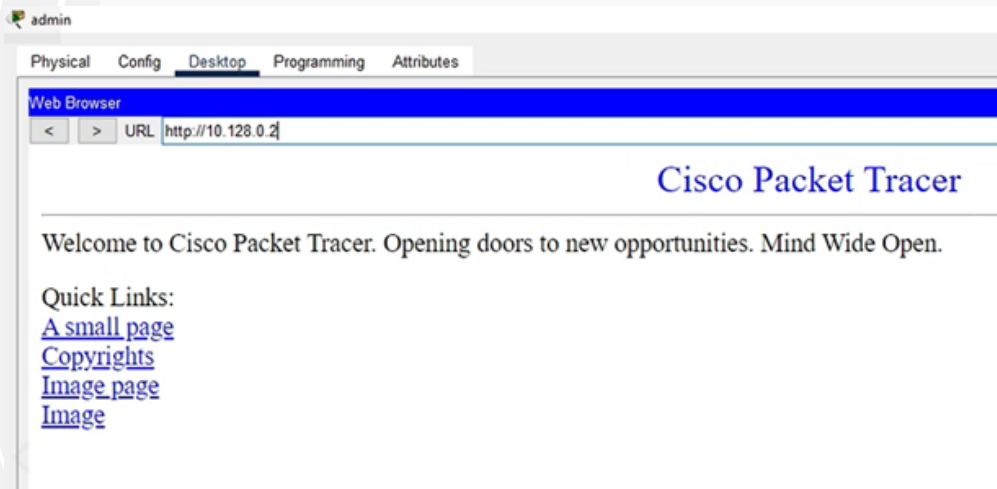
Pinging 10.128.0.4 with 32 bytes of data:

Request timed out.
Reply from 10.128.0.4: bytes=32 time<1ms TTL=127
Reply from 10.128.0.4: bytes=32 time<1ms TTL=127
Reply from 10.128.0.4: bytes=32 time<1ms TTL=127

Ping statistics for 10.128.0.4:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ftp
```

**Проверка корректности установленных правил доступа**



```
network 10.128.0.0 255.255.255.0
```

```
default-router 10.128.5.1
```

```
dns-server 10.128.0.5
```

```
ip dhcp pool other
```

```
msk-konkova-zikarimov-gw1#sh ru ac
```

```
msk-konkova-zikarimov-gw1#sh ac
```

```
msk-konkova-zikarimov-gw1#sh access-lists
```

```
Extended IP access list servers-out
```

```
10 permit icmp any any (36 match(es))
```

```
20 permit tcp any host 10.128.0.2 eq www (32 match(es))
```

```
30 permit tcp host 10.128.6.200 host 10.128.0.2 eq telnet
```

```
40 permit tcp host 10.128.6.200 host 10.128.0.2 range 20 ftp (9 match(es))
```

```
50 permit tcp 10.128.0.0 0.0.255.255 host 10.128.0.3 eq 445
```

```
60 permit tcp any host 10.128.0.3 range 20 ftp (21 match(es))
```

```
70 permit tcp any host 10.128.0.4 eq smtp
```

```
80 permit tcp any host 10.128.0.4 eq pop3
```

```
90 permit udp 10.128.0.0 0.0.255.255 host 10.128.0.5 eq domain (6 match(es))
```

```
100 permit tcp host 10.128.6.201 host 10.128.0.2 range 20 ftp
```

```
110 permit tcp host 10.128.6.201 host 10.128.0.2 eq telnet
```

```
Extended IP access list other-in
```

```
10 permit ip host 10.128.6.200 any (43 match(es))
```

```
20 permit ip host 10.128.6.201 any
```

```
Extended IP access list management-out
```

```
10 permit ip host 10.128.6.200 10.128.1.0 0.0.0.255
```

```
20 permit ip host 10.128.6.201 10.128.1.0 0.0.0.255
```

```
msk-konkova-zikarimov-gw1#
```