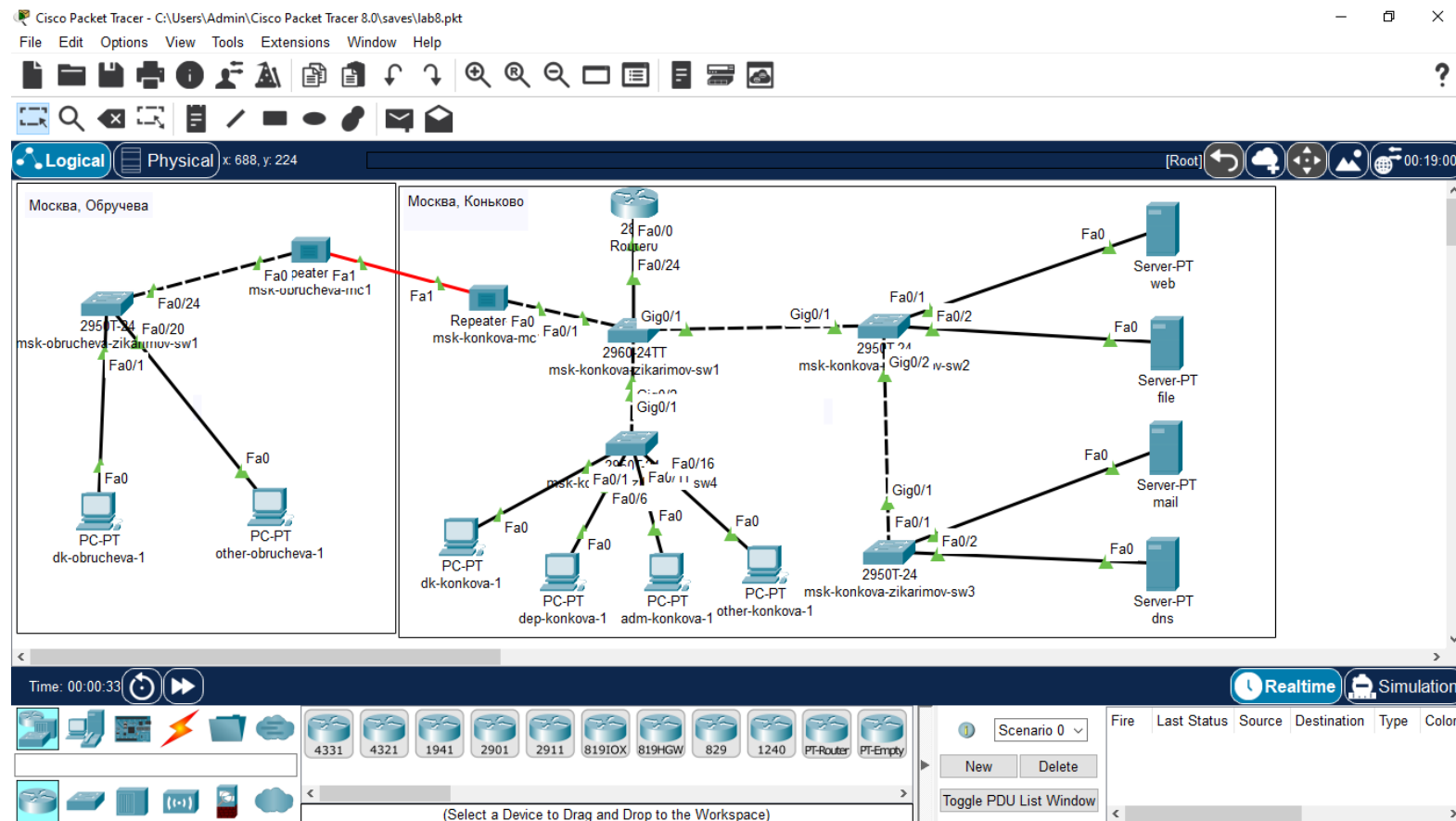


Настройка сетевых сервисов. DNSР

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Группа: НПИбд-01-18

Последовательность выполнения работы



Physical Config **Services** Desktop Programming Attributes

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS**
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- IoT
- VM Management
- Radius EAP

DNS

DNS Service ☒ On ☐ Off

Resource Records

Name Type **A Record**

Address

Add Save Remove

No.	Name	Type	Detail
0	dns.donskaya.rudn.ru	A Record	10.128.0.5
1	file.donskaya.rudn.ru	A Record	10.128.0.3
2	mail.donskaya.rudn.ru	A Record	10.128.0.4
3	www.donskaya.rudn.ru	A Record	10.128.0.2

Physical **Config** Services Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Global Settings

Display Name

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway

DNS Server

Gateway/DNS IPv6

☐ Automatic

☒ Static

Default Gateway

DNS Server

Physical **Config** Services Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address

IP Configuration

☐ DHCP

☒ Static

IPv4 Address

Subnet Mask

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local Address

Настройка сервиса DNS

Настройка DHCP-сервиса на маршрутизаторе

```
msk-konkova-zikarimov-gwl#sh ip dhcp pool
```

Pool dk :

```
Utilization mark (high/low) : 100 / 0
Subnet size (first/next)      : 0 / 0
Total addresses               : 254
Leased addresses              : 0
Excluded addresses            : 8
Pending event                  : none
```

1 subnet is currently in the pool

Current index	IP address range	Leased/Excluded/Total
10.128.3.1	10.128.3.1 - 10.128.3.254	0 / 8 / 254

Pool departments :

```
Utilization mark (high/low) : 100 / 0
Subnet size (first/next)      : 0 / 0
Total addresses               : 254
Leased addresses              : 0
Excluded addresses            : 8
Pending event                  : none
```

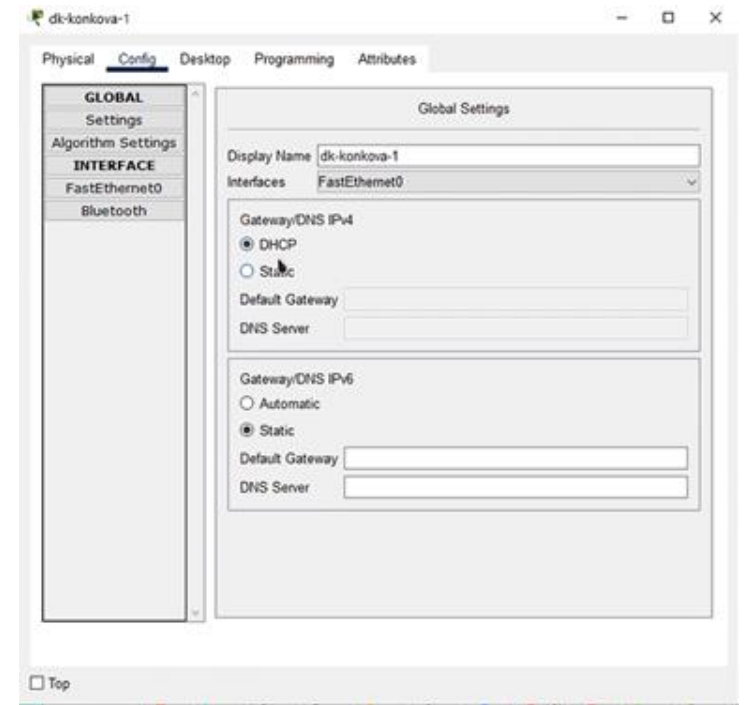
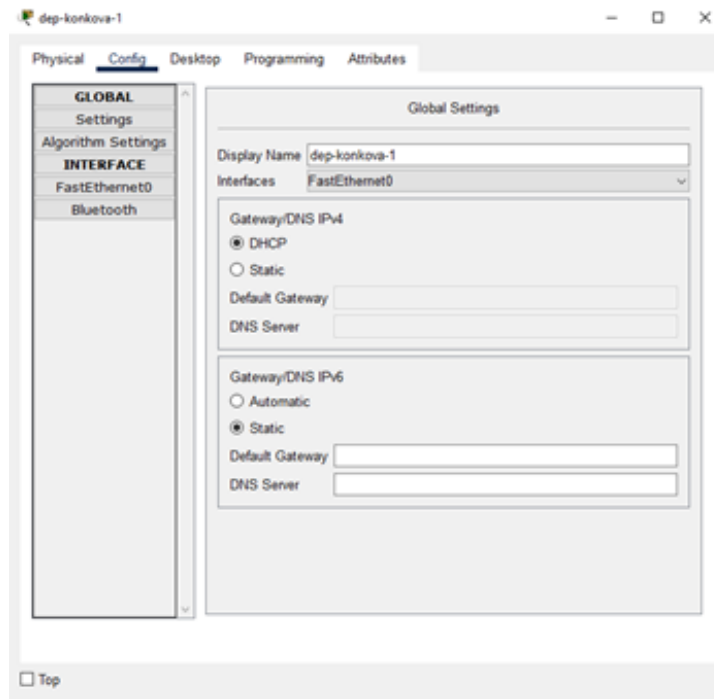
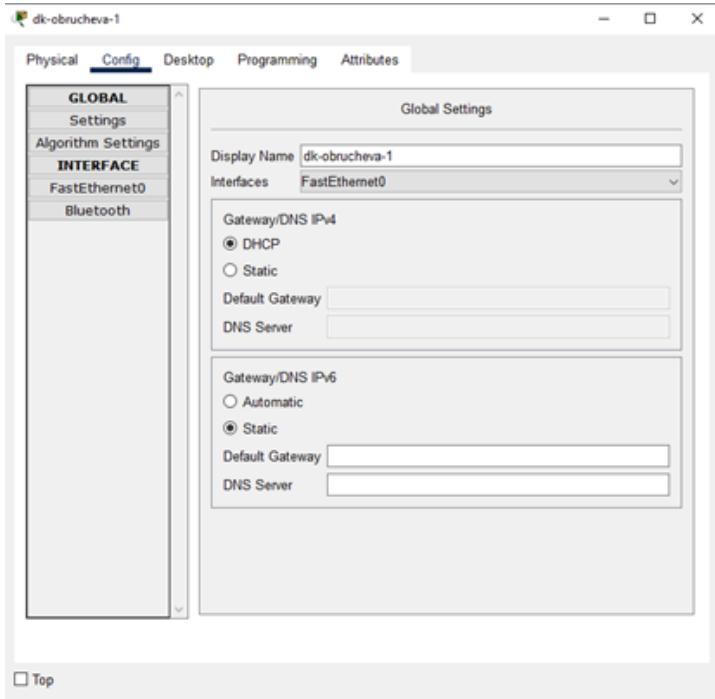
1 subnet is currently in the pool

Current index	IP address range	Leased/Excluded/Total
---------------	------------------	-----------------------

```
msk-konkova-zikarimov-gwl(config)#ip dhcp pool departments
msk-konkova-zikarimov-gwl(dhcp-config)#network 10.128.4.0 255.255.255.0
msk-konkova-zikarimov-gwl(dhcp-config)#default-router 10.128.4.1
msk-konkova-zikarimov-gwl(dhcp-config)#dns-server 10.128.0.5
msk-konkova-zikarimov-gwl(dhcp-config)#exit
msk-konkova-zikarimov-gwl(config)#ip dhcp excluded-address 10.128.4.1 10.128.4.29
msk-konkova-zikarimov-gwl(config)#ip dhcp excluded-address 10.128.4.200 10.128.4.254
msk-konkova-zikarimov-gwl(config)#ip dhcp pool adm
msk-konkova-zikarimov-gwl(dhcp-config)#network 10.128.5.0 255.255.255.0
msk-konkova-zikarimov-gwl(dhcp-config)#default-router 10.128.5.1
msk-konkova-zikarimov-gwl(dhcp-config)#dns-server 10.128.0.5
msk-konkova-zikarimov-gwl(dhcp-config)#exit
msk-konkova-zikarimov-gwl(config)#ip dhcp excluded-address 10.128.5.1 10.128.5.29
msk-konkova-zikarimov-gwl(config)#ip dhcp excluded-address 10.128.5.200 10.128.5.254
msk-konkova-zikarimov-gwl(config)#ip dhcp pool other
msk-konkova-zikarimov-gwl(dhcp-config)#network 10.128.6.0 255.255.255.0
msk-konkova-zikarimov-gwl(dhcp-config)#default-router 10.128.6.1
msk-konkova-zikarimov-gwl(dhcp-config)#dns-server 10.128.0.5
msk-konkova-zikarimov-gwl(dhcp-config)#exit
msk-konkova-zikarimov-gwl(config)#ip dhcp excluded-address 10.128.6.1 10.128.6.29
msk-konkova-zikarimov-gwl(config)#ip dhcp excluded-address 10.128.6.200 10.128.6.254
msk-konkova-zikarimov-gwl(config)#
```

Ctrl+F6 to exit CLI focus

Ctrl+F6 to exit CLI focus



Замена статического распределение адресов на динамическое

Проверка выделения адресов оконечным устройствам

1-1

```
Config Desktop Programming Attributes
Prompt

t Tracer PC Command Line 1.0
pconfig /all

thernet0 Connection:(default port)

nnection-specific DNS Suffix...
ysical Address.....: 0002.165A.7D8E
nk-local IPv6 Address.....: FE80::202:16FF:FE5A:7D8E
v6 Address.....: ::
v4 Address.....: 10.128.3.31
bnet Mask.....: 255.255.255.0
fault Gateway.....: ::
                  10.128.3.1
CP Servers.....: 10.128.3.1
CPv6 IAID.....:
CPv6 Client DUID.....: 00-01-00-01-46-66-7D-4C-00-02-16-5A-7D-8E
S Servers.....: ::
                  10.128.0.5

ooth Connection:

nnection-specific DNS Suffix...
ysical Address.....: 00D0.BCB9.EE3C
nk-local IPv6 Address.....: ::
re-- |
```

1-1

```
Config Desktop Programming Attributes
Prompt

t Tracer PC Command Line 1.0
pconfig /all

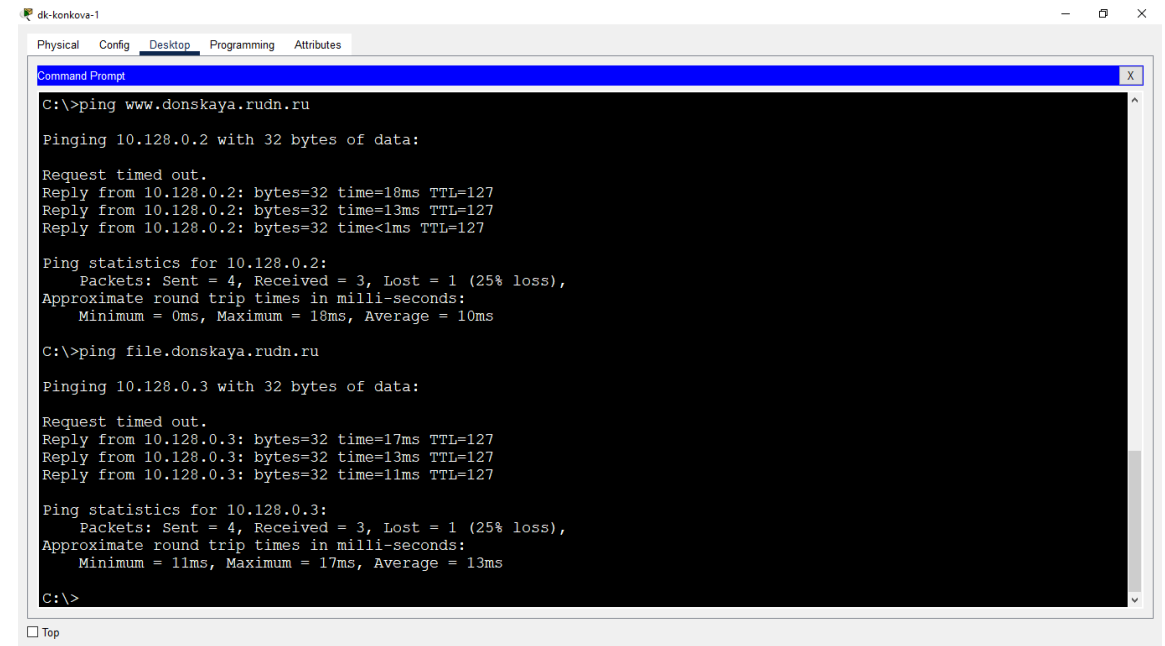
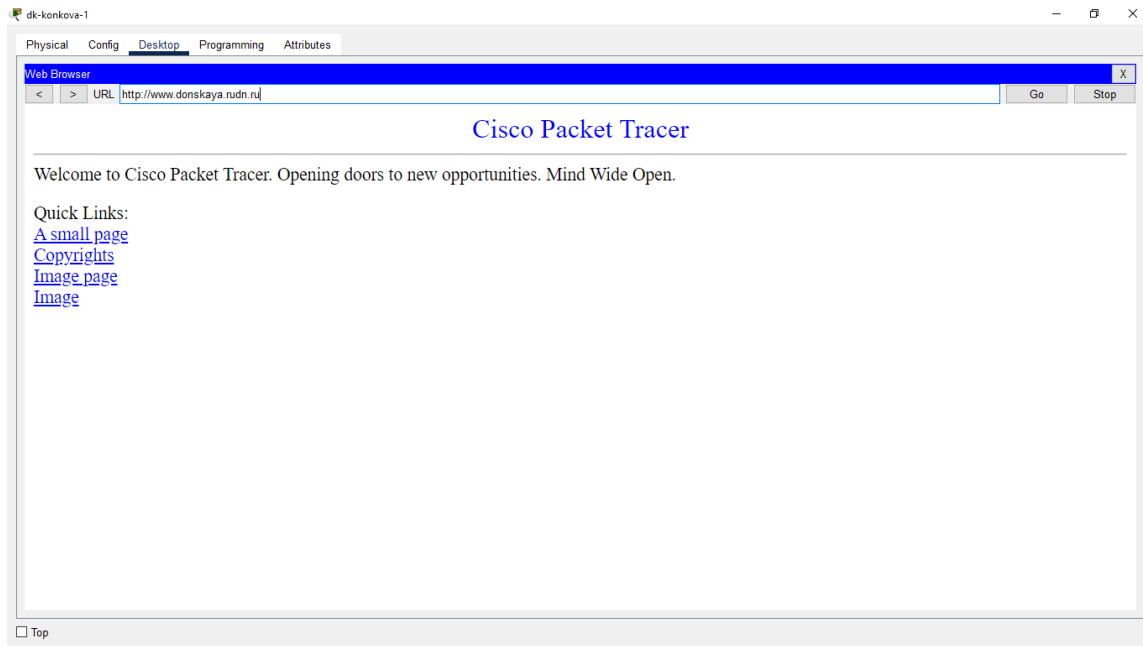
thernet0 Connection:(default port)

nnection-specific DNS Suffix...
ysical Address.....: 00E0.A327.637D
nk-local IPv6 Address.....: FE80::2E0:A3FF:FE27:637D
v6 Address.....: ::
v4 Address.....: 10.128.3.30
bnet Mask.....: 255.255.255.0
fault Gateway.....: ::
                  10.128.3.1
CP Servers.....: 10.128.3.1
CPv6 IAID.....:
CPv6 Client DUID.....: 00-01-00-01-49-B0-87-3C-00-E0-A3-27-63-7D
S Servers.....: ::
                  10.128.0.5

ooth Connection:

nnection-specific DNS Suffix...
ysical Address.....: 0001.423C.BE13
nk-local IPv6 Address.....: ::
re--
```

Проверка доступность устройств



Режим симуляции

