# Федеральное государственное автономное образовательное учреждение высшего образования

# Университет ИТМО

Дисциплина: Администрирование систем и сетей

# Лабораторная работа №2

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### Оглавление:

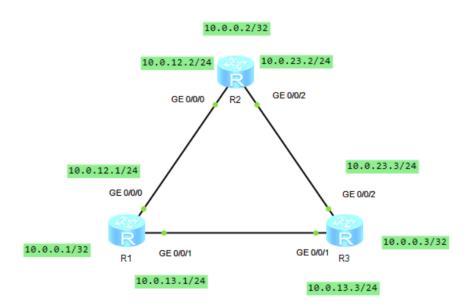
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# Цель работы:

Получить практические в следующих темах:

- Процедура настройки IPv4-адреса на интерфейсе
- Функции и значение loopback-интерфейсов
- Принципы генерирования прямых маршрутов
- Процедура настройки статических маршрутов и условия, при которых используются статические маршруты
- Процедура проверки возможности установления соединения сетевого уровня с помощью инструмента ping
  - Процедура настройки статических маршрутов и сценарии их применения

# Топология сети:



# План работы:

- 1. Настроить ІР-адресов для интерфейсов на маршрутизаторах
- 2. Настройка статических маршрутов для установления связи между маршрутизаторами

# Конфигурация оборудования:

Вывод ІР-адреса текущего интерфейса и таблицы маршрутизации:

<R1>display ip interface brief

\*down: administratively down

^down: standby (I): loopback (s): spoofing

The number of interface that is UP in Physical is 2

The number of interface that is DOWN in Physical is 2

The number of interface that is UP in Protocol is 1

The number of interface that is DOWN in Protocol is 3

Interface IP Address/Mask Physical Protocol

GigabitEthernet0/0/0	unassigned	up	down
GigabitEthernet0/0/1	unassigned	down	down
GigabitEthernet0/0/2	unassigned	down	down
NULLO	unassigned	up	up(s)

## Вывод таблицы маршрутизации на маршрутизаторе R1:

<R1>display ip routing-table

Route Flags: R - relay, D - download to fib

-----

Routing Tables: Public

Destinations: 4 Routes: 4

Destination/Mask	Proto	Pre	Cost	Flags	NextHop	Interface
127.0.0.0/8	Direct	0	0	D	127.0.0.1	InLoopBack0
127.0.0.1/32	Direct	0	0	D	127.0.0.1	InLoopBack0
127.255.255.255/32	Direct	0	0	D	127.0.0.1	InLoopBack0
255.255.255.255/32	Direct	0	0	D	127.0.0.1	InLoopBack0

## Настройка ІР-адресов для физических интерфейсов:

Маршрутизатор	Интерфейс	Р-адрес/маска
R1	GigabitEthernet0/0/1	10.0.13.1/24
	GigabitEthernet0/0/0	10.0.12.1/24
R2	GigabitEthernet0/0/0	10.0.12.2/24
	GigabitEthernet0/0/2	10.0.23.2/24
R3	GigabitEthernet0/0/1	10.0.13.3/24
	GigabitEthernet0/0/2	10.0.23.3/24

Процесс конфигурации оборудования:

<R1>system-view

[R1]interface GigabitEthernet0/0/1

[R1-GigabitEthernet0/0/1]ip address 10.0.13.1 24

[R1-GigabitEthernet0/0/1]quit

[R1]interface GigabitEthernet0/0/0

[R1-GigabitEthernet0/0/0]ip address 10.0.12.1 24

[R1i-GigabitEthernet0/0/0] quit

#### <R2>system-view

[R2]interface GigabitEthernet0/0/0

[R2-GigabitEthernet0/0/2]ip address 10.0.12.2 24

[R2-GigabitEthernet0/0/2]quit

[R2]interface GigabitEthernet0/0/2

[R2-GigabitEthernet0/0/2]ip address 10.0.23.2 24

[R2-GigabitEthernet0/0/2]quit

#### <R3>system-view

[R3]interface GigabitEthernet0/0/1

[R3-GigabitEthernet0/0/1]ip address 10.0.13.3 24

[R3i-GigabitEthernet0/0/1]quit

[R3]interface GigabitEthernet0/0/2

[R3-GigabitEthernet0/0/2]ip address 10.0.23.3 24

[R3-GigabitEthernet0/0/2]quit

### Проверка наличия связи:

#### $R1 \rightarrow R2$

<R1>ping 10.0.12.2

PING 10.0.12.2: 56 data bytes, press CTRL\_C to break

Reply from 10.0.12.2: bytes=56 Sequence=1 ttl=255 time=80 ms

Reply from 10.0.12.2: bytes=56 Sequence=2 ttl=255 time=30 ms

Reply from 10.0.12.2: bytes=56 Sequence=3 ttl=255 time=20 ms

Reply from 10.0.12.2: bytes=56 Sequence=4 ttl=255 time=30 ms

Reply from 10.0.12.2: bytes=56 Sequence=5 ttl=255 time=30 ms

--- 10.0.12.2 ping statistics ---

5 packet(s) transmitted

5 packet(s) received

0.00% packet loss round-trip min/avg/max = 20/38/80 ms

 $R1 \rightarrow R3$ 

<R1>ping 10.0.13.3

PING 10.0.13.3: 56 data bytes, press CTRL\_C to break

Reply from 10.0.13.3: bytes=56 Sequence=1 ttl=255 time=80 ms Reply from 10.0.13.3: bytes=56 Sequence=2 ttl=255 time=30 ms Reply from 10.0.13.3: bytes=56 Sequence=3 ttl=255 time=20 ms Reply from 10.0.13.3: bytes=56 Sequence=4 ttl=255 time=30 ms Reply from 10.0.13.3: bytes=56 Sequence=5 ttl=255 time=30 ms

--- 10.0.13.3 ping statistics --5 packet(s) transmitted
5 packet(s) received
0.00% packet loss
round-trip min/avg/max = 20/38/80 ms

## Таблица маршрутизации:

<R1>display ip routing-table

Route Flags: R - relay, D - download to fib

-----

Routing Tables: Public

Destinations: 10 Routes: 10

Destination/Mask	Proto Pre	Cost	Flags	NextHop	Interface
10.0.12.0/24	Direct 0	0	D	10.0.12.1	GigabitEthernet0/0/0
10.0.12.1/32	Direct 0	0	D	127.0.0.1	GigabitEthernet0/0/0
10.0.12.255/32	Direct 0	0	D	127.0.0.1	GigabitEthernet0/0/0

10.0.13.0/24	Direct 0	0	D	10.0.13.1	GigabitEthernet0/0/1
10.0.13.1/32	Direct 0	0	D	127.0.0.1	GigabitEthernet0/0/1
10.0.13.255/32	Direct 0	0	D	127.0.0.1	GigabitEthernet0/0/1
127.0.0.0/8	Direct 0	0	D	127.0.0.1	InLoopBack0
127.0.0.1/32	Direct 0	0	D	127.0.0.1	InLoopBack0
127.255.255.255/32	Direct 0	0	D	127.0.0.1	InLoopBack0
255.255.255.255/32	Direct 0	0	D	127.0.0.1	InLoopBack0

# Создание Loopback-интерфейсов:

Маршрутизатор	Интерфейс	IP-адрес/маска
R1	LoopBack0	10.0.1.1/32
R2	LoopBack0	10.0.1.2/32
R3	LoopBack0	10.0.1.3/32

<R1>system-view

[R1]interface LoopBack0

[R1-LoopBack0]ip address 10.0.1.1 32

[R1-LoopBack0]quit

<R2>system-view

[R2]interface LoopBack0

[R2-LoopBack0]ip address 10.0.1.2 32

[R2-LoopBack0]quit

<R3>system-view

[R3]interface LoopBack0

[R3-LoopBack0]ip address 10.0.1.3 32

[R3-LoopBack0]quit

# Таблица маршрутизации для R1:

<R1>display ip routing-table

Route Flags: R - relay, D - download to fib

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Routing Tables: Public

Destinations: 11 Routes: 11

Destination/Mask	Proto	Pre	Cost	Flags	NextHop	Interface
10.0.1.1/32	Direct	0	0	D	127.0.0.1	LoopBack0
10.0.12.0/24	Direct	0	0	D	10.0.12.1	GigabitEthernet0/0/0
10.0.12.1/32	Direct	0	0	D	127.0.0.1	GigabitEthernet0/0/0
10.0.12.255/32	Direct	0	0	D	127.0.0.1	GigabitEthernet0/0/0
10.0.13.0/24	Direct	0	0	D	10.0.13.1	GigabitEthernet0/0/1
10.0.13.1/32	Direct	0	0	D	127.0.0.1	GigabitEthernet0/0/1
10.0.13.255/32	Direct	0	0	D	127.0.0.1	GigabitEthernet0/0/1
127.0.0.0/8	Direct	0	0	D	127.0.0.1	InLoopBack0
127.0.0.1/32	Direct	0	0	D	127.0.0.1	InLoopBack0
127.255.255.255/32	Direct	0	0	D	127.0.0.1	InLoopBack0
255.255.255.255/32	Direct	0	0	D	127.0.0.1	InLoopBack0

<R1>ping -a 10.0.1.1 10.0.1.2

PING 10.0.1.2: 56 data bytes, press CTRL\_C to break

Request time out

--- 10.0.1.2 ping statistics ---

5 packet(s) transmitted

0 packet(s) received

100.00% packet loss

### Настройка статических маршрутов:

<R1>system-view

[R1]ip route-static 10.0.1.2 32 10.0.12.2

[R1]ip route-static 10.0.1.3 32 10.0.13.3

[R1]display ip routing-table

Route Flags: R - relay, D - download to fib

-----

Routing Tables: Public

Destinations: 13 Routes: 13

Destination/Mask	Proto	Pre	Cost	Flags	NextHop	Interface
10.0.1.1/32	Direct	0	0	D	127.0.0.1	LoopBack0
10.0.1.2/32	Static	60	0	RD	10.0.12.2	GigabitEthernet0/0/0
10.0.1.3/32	Static	60	0	RD	10.0.13.3	GigabitEthernet0/0/1
10.0.12.0/24	Direct	0	0	D	10.0.12.1	GigabitEthernet0/0/0
10.0.12.1/32	Direct	0	0	D	127.0.0.1	GigabitEthernet0/0/0
10.0.12.255/32	Direct	0	0	D	127.0.0.1	GigabitEthernet0/0/0
10.0.13.0/24	Direct	0	0	D	10.0.13.1	GigabitEthernet0/0/1
10.0.13.1/32	Direct	0	0	D	127.0.0.1	GigabitEthernet0/0/1
10.0.13.255/32	Direct	0	0	D	127.0.0.1	GigabitEthernet0/0/1
127.0.0.0/8	Direct	0	0	D	127.0.0.1	InLoopBack0
127.0.0.1/32	Direct	0	0	D	127.0.0.1	InLoopBack0
127.255.255.255/32	Direct	0	0	D	127.0.0.1	InLoopBack0
255.255.255.255/32	Direct	0	0	D	127.0.0.1	InLoopBack0

<R1>ping -a 10.0.1.1 10.0.1.2

PING 10.0.1.2: 56 data bytes, press CTRL\_C to break

Request time out

--- 10.0.1.2 ping statistics ---

5 packet(s) transmitted

0 packet(s) received

100.00% packet loss

[R2]ip route-static 10.0.1.1 32 10.0.12.1 [R2]ip route-static 10.0.1.3 32 10.0.23.3

<R1>ping -a 10.0.1.1 10.0.1.2

PING 10.0.1.2: 56 data bytes, press CTRL\_C to break

Reply from 10.0.1.2: bytes=56 Sequence=1 ttl=255 time=20 ms Reply from 10.0.1.2: bytes=56 Sequence=2 ttl=255 time=20 ms

Reply from 10.0.1.2: bytes=56 Sequence=3 ttl=255 time=10 ms

Reply from 10.0.1.2: bytes=56 Sequence=4 ttl=255 time=20 ms

```
--- 10.0.1.2 ping statistics ---
  5 packet(s) transmitted
 5 packet(s) received
  0.00% packet loss
  round-trip min/avg/max = 10/20/30 ms
[R3]ip route-static 10.0.1.1 32 10.0.13.1
[R3]ip route-static 10.0.1.2 32 10.0.23.2
<R2>ping -a 10.0.1.2 10.0.1.3
 PING 10.0.1.3: 56 data bytes, press CTRL_C to break
  Reply from 10.0.1.3: bytes=56 Sequence=1 ttl=255 time=20 ms
  Reply from 10.0.1.3: bytes=56 Sequence=2 ttl=255 time=30 ms
  Reply from 10.0.1.3: bytes=56 Sequence=3 ttl=255 time=20 ms
  Reply from 10.0.1.3: bytes=56 Sequence=4 ttl=255 time=20 ms
  Reply from 10.0.1.3: bytes=56 Sequence=5 ttl=255 time=20 ms
 --- 10.0.1.3 ping statistics ---
  5 packet(s) transmitted
  5 packet(s) received
 0.00% packet loss
  round-trip min/avg/max = 20/22/30 ms
<R3>ping -a 10.0.1.3 10.0.1.2
 PING 10.0.1.2: 56 data bytes, press CTRL_C to break
  Reply from 10.0.1.2: bytes=56 Sequence=1 ttl=255 time=20 ms
  Reply from 10.0.1.2: bytes=56 Sequence=2 ttl=255 time=10 ms
  Reply from 10.0.1.2: bytes=56 Sequence=3 ttl=255 time=30 ms
  Reply from 10.0.1.2: bytes=56 Sequence=4 ttl=255 time=20 ms
  Reply from 10.0.1.2: bytes=56 Sequence=5 ttl=255 time=20 ms
 --- 10.0.1.2 ping statistics ---
  5 packet(s) transmitted
  5 packet(s) received
  0.00% packet loss
  round-trip min/avg/max = 10/20/30 ms
```

### Создание резервных маршрутов:

[R1]ip route-static 10.0.1.2 32 10.0.13.3 preference 100 [R2]ip route-static 10.0.1.1 32 10.0.23.3 preference 100

[R1]display ip routing-table

Route Flags: R - relay, D - download to fib

-----

Routing Tables: Public

Destinations: 13 Routes: 13

Destination/Mask	Proto	Pre	Cost	Flags	NextHop	Interface
10.0.1.1/32	Direct	0	0	D	127.0.0.1	LoopBack0
10.0.1.2/32	Static	60	0	RD	10.0.12.2	GigabitEthernet0/0/0
10.0.1.3/32	Static	60	0	RD	10.0.13.3	GigabitEthernet0/0/1
10.0.12.0/24	Direct	0	0	D	10.0.12.1	GigabitEthernet0/0/0
10.0.12.1/32	Direct	0	0	D	127.0.0.1	GigabitEthernet0/0/0
10.0.12.255/32	Direct	0	0	D	127.0.0.1	GigabitEthernet0/0/0
10.0.13.0/24	Direct	0	0	D	10.0.13.1	GigabitEthernet0/0/1
10.0.13.1/32	Direct	0	0	D	127.0.0.1	GigabitEthernet0/0/1
10.0.13.255/32	Direct	0	0	D	127.0.0.1	GigabitEthernet0/0/1
127.0.0.0/8	Direct	0	0	D	127.0.0.1	InLoopBack0
127.0.0.1/32	Direct	0	0	D	127.0.0.1	InLoopBack0
127.255.255.255/32	Direct	0	0	D	127.0.0.1	InLoopBack0
255.255.255.255/32	Direct	0	0	D	127.0.0.1	InLoopBack0

[R2]display ip routing-table

Route Flags: R - relay, D - download to fib

-----

Routing Tables: Public

Destinations: 13 Routes: 13

Destination/Mask	Proto Pre	Cost	Flags	NextHop	Interface
10.0.1.1/32	Static 60	0	RD	10.0.12.1	GigabitEthernet0/0/0
10.0.1.2/32	Direct 0	0	D	127.0.0.1	LoopBack0
10.0.1.3/32	Static 60	0	RD	10.0.23.3	GigabitEthernet0/0/2
10.0.12.0/24	Direct 0	0	D	10.0.12.2	GigabitEthernet0/0/0
10.0.12.2/32	Direct 0	0	D	127.0.0.1	GigabitEthernet0/0/0
10.0.12.255/32	Direct 0	0	D	127.0.0.1	GigabitEthernet0/0/0
10.0.23.0/24	Direct 0	0	D	10.0.23.2	GigabitEthernet0/0/2

10.0.23.2/32	Direct 0	0	D	127.0.0.1	GigabitEthernet0/0/2
10.0.23.255/32	Direct 0	0	D	127.0.0.1	GigabitEthernet0/0/2
127.0.0.0/8	Direct 0	0	D	127.0.0.1	InLoopBack0
127.0.0.1/32	Direct 0	0	D	127.0.0.1	InLoopBack0
127.255.255.255/32	Direct 0	0	D	127.0.0.1	InLoopBack0
255.255.255/32	Direct 0	0	D	127.0.0.1	InLoopBack0

Выключение интерфейса для активации резервного маршрута:

[R1]interface GigabitEthernet 0/0/0 [R1-GigabitEthernet0/0/0]shutdown

[R1]display ip routing-table

Route Flags: R - relay, D - download to fib

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Routing Tables: Public

Destinations: 10 Routes: 10

Destination/Mask	Proto Pre	Cost	Flags	NextHop	Interface
10.0.1.1/32	Direct 0	0	D	127.0.0.1	LoopBack0
10.0.1.2/32	Static 100	0	RD	10.0.13.3	GigabitEthernet0/0/1
10.0.1.3/32	Static 60	0	RD	10.0.13.3	GigabitEthernet0/0/1
10.0.13.0/24	Direct 0	0	D	10.0.13.1	GigabitEthernet0/0/1
10.0.13.1/32	Direct 0	0	D	127.0.0.1	GigabitEthernet0/0/1
10.0.13.255/32	Direct 0	0	D	127.0.0.1	GigabitEthernet0/0/1
127.0.0.0/8	Direct 0	0	D	127.0.0.1	InLoopBack0
127.0.0.1/32	Direct 0	0	D	127.0.0.1	InLoopBack0
127.255.255.255/32	Direct 0	0	D	127.0.0.1	InLoopBack0
255.255.255.255/32	Direct 0	0	D	127.0.0.1	InLoopBack0

<R2>display ip routing-table

Route Flags: R - relay, D - download to fib

-----

Routing Tables: Public

Destinations: 10 Routes: 10

Destination/Mask	Proto Pre	Cost	Flags	NextHop	Interface
10.0.1.1/32	Static 100	0	RD	10.0.23.3	GigabitEthernet0/0/2
10.0.1.2/32	Direct 0	0	D	127.0.0.1	LoopBack0

10.0.1.3/32	Static 60	0	RD	10.0.23.3	GigabitEthernet0/0/2
10.0.23.0/24	Direct 0	0	D	10.0.23.2	GigabitEthernet0/0/2
10.0.23.2/32	Direct 0	0	D	127.0.0.1	GigabitEthernet0/0/2
10.0.23.255/32	Direct 0	0	D	127.0.0.1	GigabitEthernet0/0/2
127.0.0.0/8	Direct 0	0	D	127.0.0.1	InLoopBack0
127.0.0.1/32	Direct 0	0	D	127.0.0.1	InLoopBack0
127.255.255.255/32	Direct 0	0	D	127.0.0.1	InLoopBack0
255.255.255.255/32	Direct 0	0	D	127.0.0.1	InLoopBack0

<R1>ping -a 10.0.1.1 10.0.1.2

PING 10.0.1.2: 56 data bytes, press CTRL\_C to break

Reply from 10.0.1.2: bytes=56 Sequence=1 ttl=254 time=20 ms Reply from 10.0.1.2: bytes=56 Sequence=2 ttl=254 time=30 ms Reply from 10.0.1.2: bytes=56 Sequence=3 ttl=254 time=20 ms Reply from 10.0.1.2: bytes=56 Sequence=4 ttl=254 time=30 ms

Reply from 10.0.1.2: bytes=56 Sequence=5 ttl=254 time=30 ms

--- 10.0.1.2 ping statistics ---

5 packet(s) transmitted

5 packet(s) received

0.00% packet loss

round-trip min/avg/max = 20/26/30 ms

<R1>tracert -a 10.0.1.1 10.0.1.2

traceroute to 10.0.1.2(10.0.1.2), max hops: 30 ,packet length: 40,press CTRL\_C to break

1 10.0.13.3 30 ms 10 ms 20 ms

2 10.0.23.2 30 ms 40 ms 20 ms

### Включение интерфейсов и удаление настроенных маршрутов:

<R1>system-view

Enter system view, return user view with Ctrl+Z.

[R1]interface GigabitEthernet0/0/0

[R1-GigabitEthernet0/0/0]undo shutdown

[R1-GigabitEthernet0/0/0]quit

[R1]undo ip route-static 10.0.1.2 255.255.255.255 10.0.13.3 preference 100

[R1]undo ip route-static 10.0.1.2 255.255.255.255 10.0.12.2

[R1]display ip routing-table

Route Flags: R - relay, D - download to fib

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Routing Tables: Public

Destinations: 12 Routes: 12

Destination/Mask	Proto Pre	Cost	Flags	NextHop	Interface
10.0.1.1/32	Direct 0	0	D	127.0.0.1	LoopBack0
10.0.1.3/32	Static 60	0	RD	10.0.13.3	GigabitEthernet0/0/1
10.0.12.0/24	Direct 0	0	D	10.0.12.1	GigabitEthernet0/0/0
10.0.12.1/32	Direct 0	0	D	127.0.0.1	GigabitEthernet0/0/0
10.0.12.255/32	Direct 0	0	D	127.0.0.1	GigabitEthernet0/0/0
10.0.13.0/24	Direct 0	0	D	10.0.13.1	GigabitEthernet0/0/1
10.0.13.1/32	Direct 0	0	D	127.0.0.1	GigabitEthernet0/0/1
10.0.13.255/32	Direct 0	0	D	127.0.0.1	GigabitEthernet0/0/1
127.0.0.0/8	Direct 0	0	D	127.0.0.1	InLoopBack0
127.0.0.1/32	Direct 0	0	D	127.0.0.1	InLoopBack0
127.255.255.255/32	Direct 0	0	D	127.0.0.1	InLoopBack0
255.255.255/32	Direct 0	0	D	127.0.0.1	InLoopBack0

## Настройка маршрута по-умолчанию:

[R1]ip route-static 0.0.0.0 0 10.0.12.2

[R1] display ip routing-table

Route Flags: R - relay, D - download to fib

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Routing Tables: Public

Destinations: 13 Routes: 13

Destination/Mask	Proto Pre Cost	Flags	NextHop	Interface
0.0.0.0/0	Static 60 0	RD	10.0.12.2	GigabitEthernet0/0/0
10.0.1.1/32	Direct 0 0	D	127.0.0.1	LoopBack0
10.0.1.3/32	Static 60 0	RD	10.0.13.3	GigabitEthernet0/0/1
10.0.12.0/24	Direct 0 0	D	10.0.12.1	GigabitEthernet0/0/0
10.0.12.1/32	Direct 0 0	D	127.0.0.1	GigabitEthernet0/0/0
10.0.12.255/32	Direct 0 0	D	127.0.0.1	GigabitEthernet0/0/0
10.0.13.0/24	Direct 0 0	D	10.0.13.1	GigabitEthernet0/0/1
10.0.13.1/32	Direct 0 0	D	127.0.0.1	GigabitEthernet0/0/1

10.0.13.255/32	Direct 0	0	D	127.0.0.1	GigabitEthernet0/0/1
127.0.0.0/8	Direct 0	0	D	127.0.0.1	InLoopBack0
127.0.0.1/32	Direct 0	0	D	127.0.0.1	InLoopBack0
127.255.255.255/32	Direct 0	0	D	127.0.0.1	InLoopBack0
255.255.255.255/32	Direct 0	0	D	127.0.0.1	InLoopBack0

#### Проверка связи:

```
<R1>ping -a 10.0.1.1 10.0.1.2
PING 10.0.1.2: 56 data bytes, press CTRL_C to break
Reply from 10.0.1.2: bytes=56 Sequence=1 ttl=255 time=30 ms
Reply from 10.0.1.2: bytes=56 Sequence=2 ttl=255 time=20 ms
Reply from 10.0.1.2: bytes=56 Sequence=3 ttl=255 time=20 ms
Reply from 10.0.1.2: bytes=56 Sequence=4 ttl=255 time=20 ms
Reply from 10.0.1.2: bytes=56 Sequence=5 ttl=255 time=20 ms
```

--- 10.0.1.2 ping statistics --5 packet(s) transmitted
5 packet(s) received
0.00% packet loss
round-trip min/avg/max = 20/22/30 ms

# Вывод:

Во время выполнения лабораторной работы мы:

- познакомились с работой в eNSP
- настроили IPv4 адреса на интерфейсах, loopback адреса, статические маршруты и резервные маршруты.