

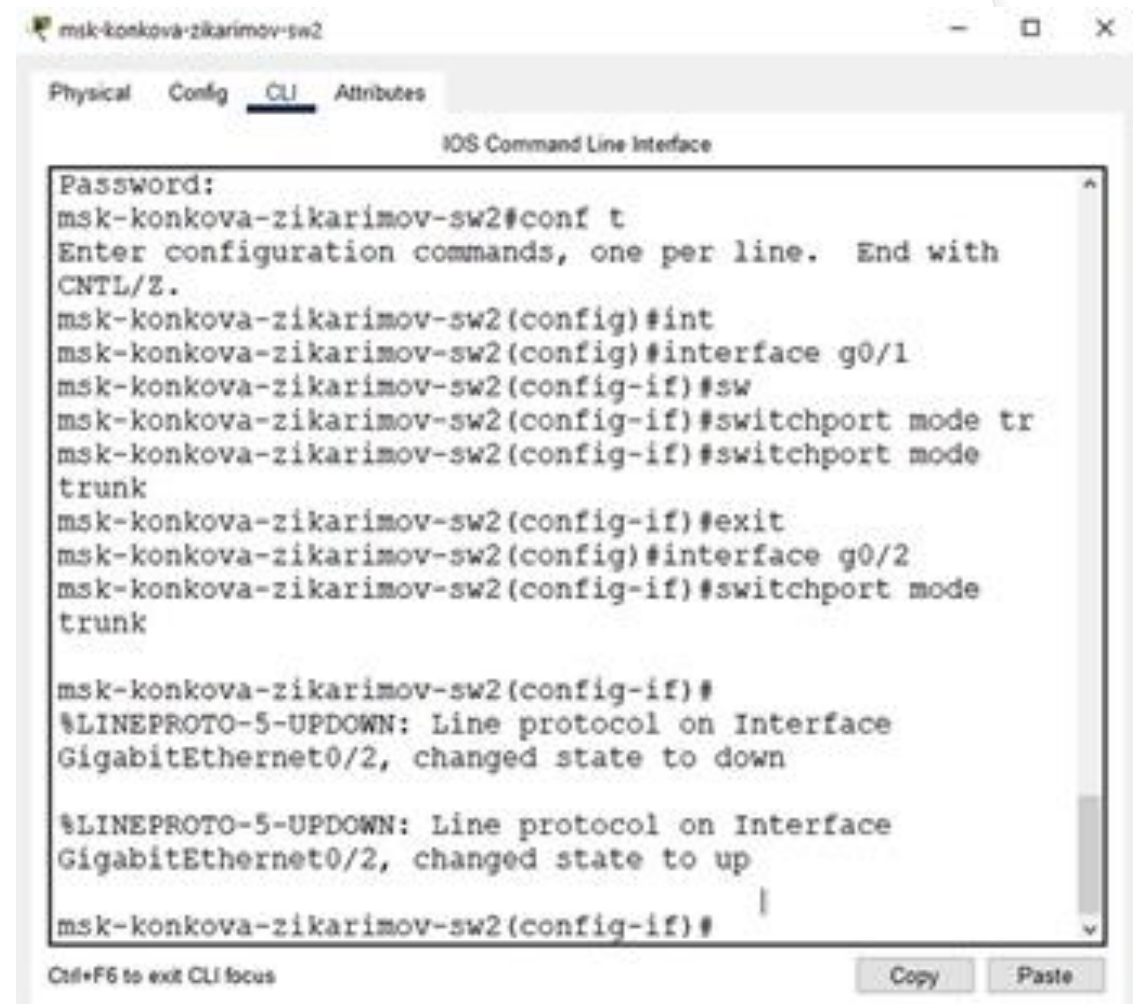


Конфигурирование VLAN

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Группа: НПИбд-01-18

Trunk-портов



```
msk-konkova-zikarimov-sw2
Physical Config CLI Attributes
IOS Command Line Interface
Password:
msk-konkova-zikarimov-sw2#conf t
Enter configuration commands, one per line. End with
CNTL/Z.
msk-konkova-zikarimov-sw2(config)#int
msk-konkova-zikarimov-sw2(config)#interface g0/1
msk-konkova-zikarimov-sw2(config-if)#sw
msk-konkova-zikarimov-sw2(config-if)#switchport mode tr
msk-konkova-zikarimov-sw2(config-if)#switchport mode
trunk
msk-konkova-zikarimov-sw2(config-if)#exit
msk-konkova-zikarimov-sw2(config)#interface g0/2
msk-konkova-zikarimov-sw2(config-if)#switchport mode
trunk

msk-konkova-zikarimov-sw2(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface
GigabitEthernet0/2, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface
GigabitEthernet0/2, changed state to up

msk-konkova-zikarimov-sw2(config-if)#
```

Ctrl+F6 to exit CLI focus

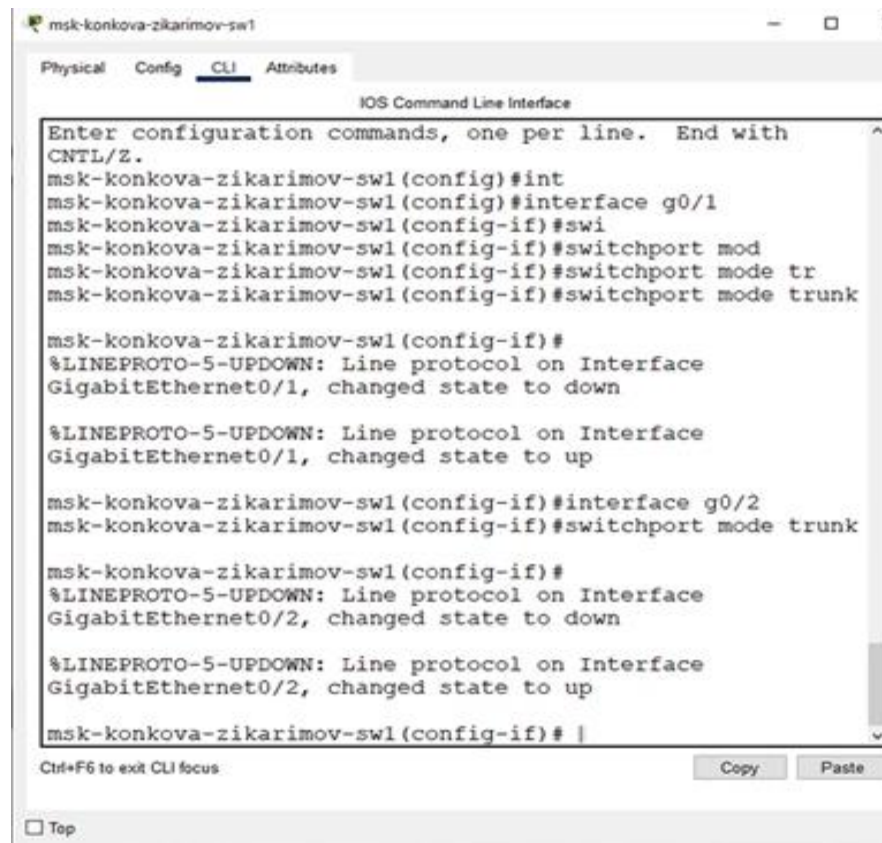
Copy Paste

```
msk-konkova-zikarimov-sw1(config)#interface f0/1
msk-konkova-zikarimov-sw1(config-if)#swit
msk-konkova-zikarimov-sw1(config-if)#switchport mode tru
msk-konkova-zikarimov-sw1(config-if)#switchport mode
trunk

msk-konkova-zikarimov-sw1(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface
FastEthernet0/1, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface
FastEthernet0/1, changed state to up

msk-konkova-zikarimov-sw1(config-if)#exit
```



```
msk-konkova-zikarimov-sw1
Physical Config CLI Attributes
IOS Command Line Interface
Enter configuration commands, one per line. End with
CNTL/Z.
msk-konkova-zikarimov-sw1(config)#int
msk-konkova-zikarimov-sw1(config)#interface g0/1
msk-konkova-zikarimov-sw1(config-if)#swi
msk-konkova-zikarimov-sw1(config-if)#switchport mod
msk-konkova-zikarimov-sw1(config-if)#switchport mode tr
msk-konkova-zikarimov-sw1(config-if)#switchport mode trunk

msk-konkova-zikarimov-sw1(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface
GigabitEthernet0/1, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface
GigabitEthernet0/1, changed state to up

msk-konkova-zikarimov-sw1(config-if)#interface g0/2
msk-konkova-zikarimov-sw1(config-if)#switchport mode trunk

msk-konkova-zikarimov-sw1(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface
GigabitEthernet0/2, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface
GigabitEthernet0/2, changed state to up

msk-konkova-zikarimov-sw1(config-if)# |
```

Ctrl+F6 to exit CLI focus

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Top

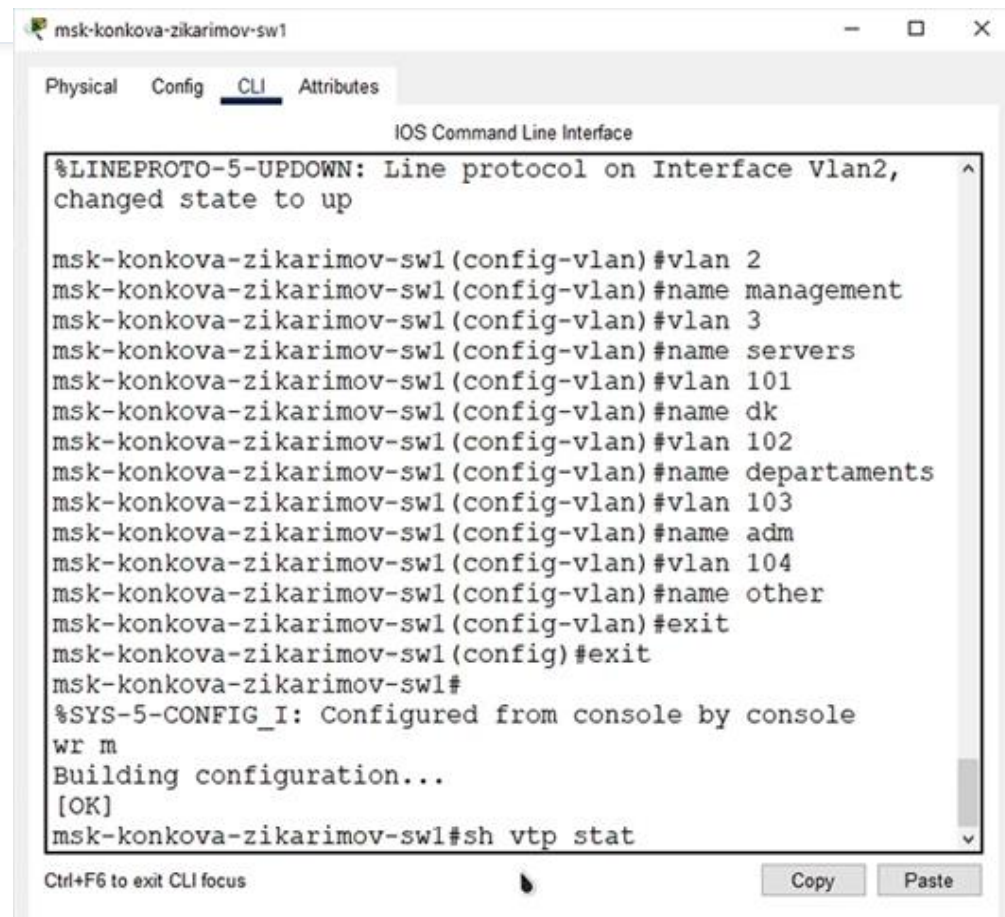
VTP-сервер



```
msk-konkova-zikarimov-sw1
Physical Config CLI Attributes
IOS Command Line Interface
Building configuration...
[OK]
msk-konkova-zikarimov-sw1#en
msk-konkova-zikarimov-sw1#conf t
Enter configuration commands, one per line. End with
CNTL/Z.
msk-konkova-zikarimov-sw1(config)#vtp mode server
Device mode already VTP SERVER.
msk-konkova-zikarimov-sw1(config)#vtp domain dontskaya
Changing VTP domain name from NULL to dontskaya
msk-konkova-zikarimov-sw1(config)#vtp passw
msk-konkova-zikarimov-sw1(config)#vtp password cisco
Setting device VLAN database password to cisco
msk-konkova-zikarimov-sw1(config)#vlan 2
msk-konkova-zikarimov-sw1(config-vlan)#
%LINK-5-CHANGED: Interface Vlan2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan2,
changed state to up

msk-konkova-zikarimov-sw1(config-vlan)#vlan 2
msk-konkova-zikarimov-sw1(config-vlan)#name management
msk-konkova-zikarimov-sw1(config-vlan)#v
```



```
msk-konkova-zikarimov-sw1
Physical Config CLI Attributes
IOS Command Line Interface
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan2,
changed state to up

msk-konkova-zikarimov-sw1(config-vlan)#vlan 2
msk-konkova-zikarimov-sw1(config-vlan)#name management
msk-konkova-zikarimov-sw1(config-vlan)#vlan 3
msk-konkova-zikarimov-sw1(config-vlan)#name servers
msk-konkova-zikarimov-sw1(config-vlan)#vlan 101
msk-konkova-zikarimov-sw1(config-vlan)#name dk
msk-konkova-zikarimov-sw1(config-vlan)#vlan 102
msk-konkova-zikarimov-sw1(config-vlan)#name departaments
msk-konkova-zikarimov-sw1(config-vlan)#vlan 103
msk-konkova-zikarimov-sw1(config-vlan)#name adm
msk-konkova-zikarimov-sw1(config-vlan)#vlan 104
msk-konkova-zikarimov-sw1(config-vlan)#name other
msk-konkova-zikarimov-sw1(config-vlan)#exit
msk-konkova-zikarimov-sw1(config)#exit
msk-konkova-zikarimov-sw1#
%SYS-5-CONFIG_I: Configured from console by console
wr m
Building configuration...
[OK]
msk-konkova-zikarimov-sw1#sh vtp stat
```

VTP-клиенты

```
msh-konkova-zikarimov-sw2#conf t
Enter configuration commands, one per line. End with
CNTL/Z.
msh-konkova-zikarimov-sw2(config)#vtp mode client
Setting device to VTP CLIENT mode.
msh-konkova-zikarimov-sw2(config)#vtp password cisco
Setting device VLAN database password to cisco
msh-konkova-zikarimov-sw2(config)#
%LINK-5-CHANGED: Interface Vlan2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan2,
changed state to up

msh-konkova-zikarimov-sw2(config)#exit
msh-konkova-zikarimov-sw2#
%SYS-5-CONFIG_I: Configured from console by console
wr m
Building configuration...
[OK]
msh-konkova-zikarimov-sw2#
```

Ctrl+F6 to exit CLI focus

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msh-konkova-zikarimov-sw2

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Fa0/10, Fa0/11, Fa0/12
Fa0/14, Fa0/15, Fa0/16
Fa0/18, Fa0/19, Fa0/20
Fa0/22, Fa0/23, Fa0/24
2 management active
3 servers active
101 dk active
102 departaments active
103 adm active
104 other active
1002 fddi-default active
1003 token-ring-default active
1004 fddinet-default active
1005 trnet-default active

VLAN Type SAID MTU Parent RingNo BridgeNo Stp
BrdgMode Trans1 Trans2
-----
--More--
```

Ctrl+F6 to exit CLI focus

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Конфигурация диапазона портов

```
msk-konkova-zikarimov-sw4(config)#interface range f0/1 - 5
msk-konkova-zikarimov-sw4(config-if-range)#sw
msk-konkova-zikarimov-sw4(config-if-range)#switchport mode ac
msk-konkova-zikarimov-sw4(config-if-range)#switchport mode access
msk-konkova-zikarimov-sw4(config-if-range)#switchpor
msk-konkova-zikarimov-sw4(config-if-range)#switchport acc
msk-konkova-zikarimov-sw4(config-if-range)#switchport access vlan 101
msk-konkova-zikarimov-sw4(config-if-range)#ex
msk-konkova-zikarimov-sw4(config)#interface range f0/6 - 10
msk-konkova-zikarimov-sw4(config-if-range)#switchport mode access
msk-konkova-zikarimov-sw4(config-if-range)#switchport access vlan 102
msk-konkova-zikarimov-sw4(config-if-range)#ex
msk-konkova-zikarimov-sw4(config)#interface range f0/11 - 15
msk-konkova-zikarimov-sw4(config-if-range)#switchport mode access
msk-konkova-zikarimov-sw4(config-if-range)#switchport access vlan 103
msk-konkova-zikarimov-sw4(config-if-range)#ex
msk-konkova-zikarimov-sw4(config)#interface range f0/16 - 24
msk-konkova-zikarimov-sw4(config-if-range)#switchport mode access
msk-konkova-zikarimov-sw4(config-if-range)#switchport access vlan 104
msk-konkova-zikarimov-sw4(config-if-range)#
```

Ctrl+F6 to exit CLI focus

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```
msk-obrucheva-zikarimov-sw1(config)#interface range f0/1
- 15
msk-obrucheva-zikarimov-sw1(config-if-range)#swit
msk-obrucheva-zikarimov-sw1(config-if-range)#switchport
mode acc
msk-obrucheva-zikarimov-sw1(config-if-range)#switchport
mode access
msk-obrucheva-zikarimov-sw1(config-if-range)#swi
msk-obrucheva-zikarimov-sw1(config-if-range)#switchport
acc
msk-obrucheva-zikarimov-sw1(config-if-range)#switchport
access vlan 101
msk-obrucheva-zikarimov-sw1(config-if-range)#ex
msk-obrucheva-zikarimov-sw1(config)#int
msk-obrucheva-zikarimov-sw1(config)#interface f0/20
msk-obrucheva-zikarimov-sw1(config-if)#switchport mode
access
msk-obrucheva-zikarimov-sw1(config-if)#sw
msk-obrucheva-zikarimov-sw1(config-if)#switchport acce
msk-obrucheva-zikarimov-sw1(config-if)#switchport access
vlan 104
msk-obrucheva-zikarimov-sw1(config-if)#
```

Ctrl+F6 to exit CLI focus

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IP-адреса

web

Physical Config Services Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Global Settings

Display Name web

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway 10.128.0.1

DNS Server

Gateway/DNS IPv6

☐ Automatic

☒ Static

Default Gateway

DNS Server

web

Physical Config Services Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

FastEthernet0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 000C.CFAB.E3B0

IP Configuration

☐ DHCP

☒ Static

IPv4 Address 10.128.0.2

Subnet Mask 255.255.255.0

IPv6 Configuration

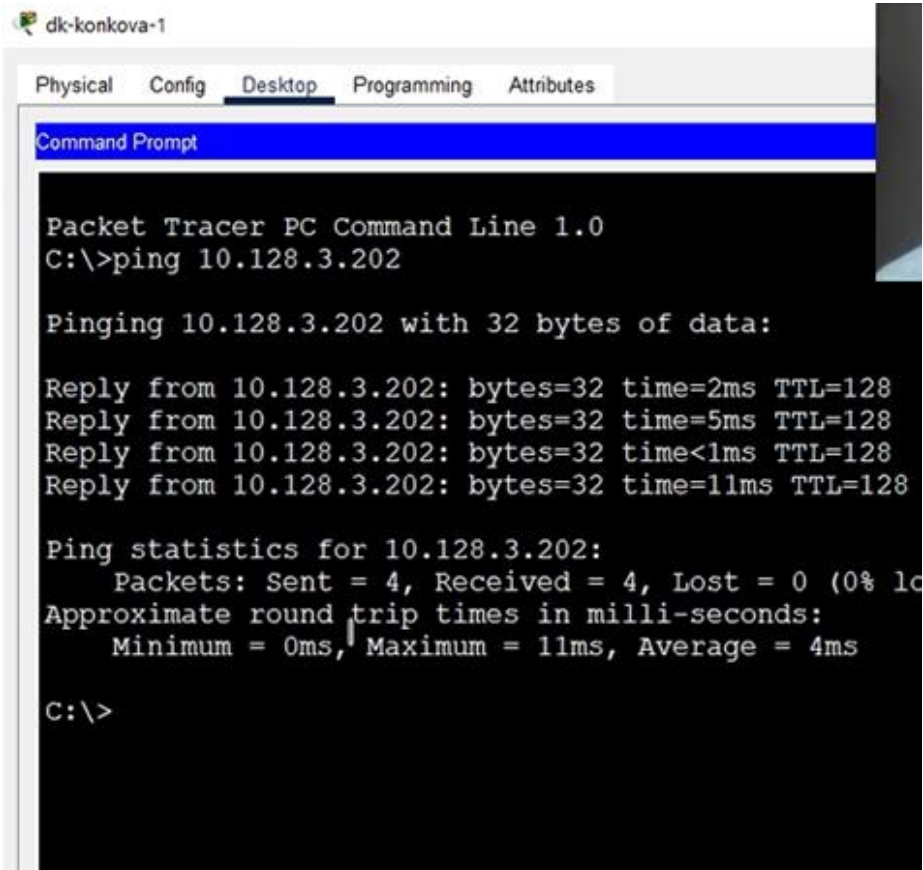
☐ Automatic

☒ Static

IPv6 Address

Link Local Address FE80::20C:CFFF:FEAB:E3B0

Доступность устройств



dk-konkova-1

Physical Config Desktop Programming Attributes

Command Prompt

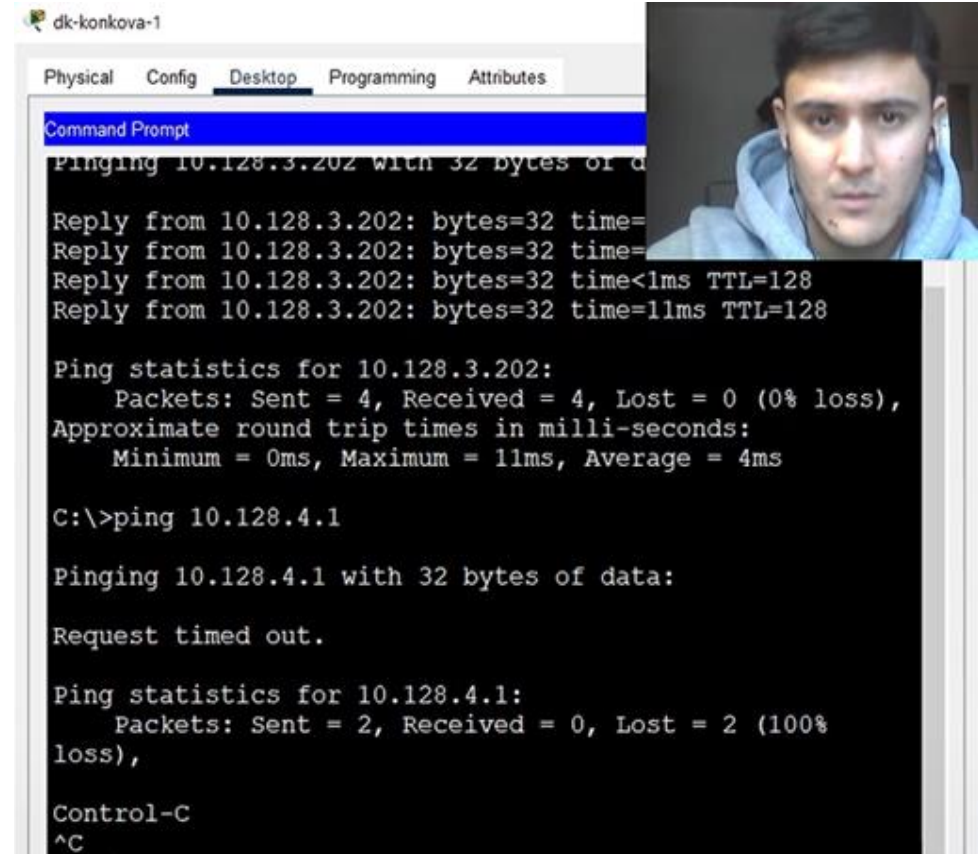
```
Packet Tracer PC Command Line 1.0
C:\>ping 10.128.3.202

Pinging 10.128.3.202 with 32 bytes of data:

Reply from 10.128.3.202: bytes=32 time=2ms TTL=128
Reply from 10.128.3.202: bytes=32 time=5ms TTL=128
Reply from 10.128.3.202: bytes=32 time<1ms TTL=128
Reply from 10.128.3.202: bytes=32 time=11ms TTL=128

Ping statistics for 10.128.3.202:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 11ms, Average = 4ms

C:\>
```



dk-konkova-1

Physical Config Desktop Programming Attributes

Command Prompt

```
Pinging 10.128.3.202 with 32 bytes of data:

Reply from 10.128.3.202: bytes=32 time=
Reply from 10.128.3.202: bytes=32 time=
Reply from 10.128.3.202: bytes=32 time<1ms TTL=128
Reply from 10.128.3.202: bytes=32 time=11ms TTL=128

Ping statistics for 10.128.3.202:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 11ms, Average = 4ms

C:\>ping 10.128.4.1

Pinging 10.128.4.1 with 32 bytes of data:

Request timed out.

Ping statistics for 10.128.4.1:
    Packets: Sent = 2, Received = 0, Lost = 2 (100%
    loss),

Control-C
^C
```

Cisco Packet Tracer - C:\Users\Admin\Cisco Packet Tracer 8.0\save\lab5.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x 276, y 253

Simulation Panel

Event List

Vis. Time(sec)

Reset Simulation ☒ Constant Delay Captured to: (no captures)

Play Controls

Event List Filters - Visible Events

ICMP

Edit Filters Show All/None

PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete

Time: 00:26:06.603

PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

PowerDirector



Cisco Packet Tracer - C:\Users\Admin\Cisco Packet Tracer 8.0\save\lab5.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x 772, y 189

Simulation Panel

Event List

Vis. Time(sec)

0.000 -- dk-konkov... ICMP

2.002 -- dk-konkov... ICMP

Reset Simulation ☒ Constant Delay Captured to: 2.002 s

Play Controls

Event List Filters - Visible Events

ICMP

Edit Filters Show All/None

PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Failed	dk-kon...	other-obrucheva-1	ICMP		0.000	N	0	(edit)	(delete)

Time: 00:26:08.605

PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

PowerDirector

