

Отчет по практической работе 17

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Цель работы: настроить telnet с разными уровнями доступа пользователей и защиту паролей.

1. Ход выполнения работы

- Создал сеть из одного коммутатора и одного ПК.
- Назначил ip адреса:
 - pc0 – 192.168.1.10, шлюз 192.168.1.1.
 - switch – 192.168.1.1.
 - Проверил доступность коммутатора с ПК с помощью ping.
 - Создал пользователей с разными правами:
 - user (уровень 1, только просмотр).
 - admin (уровень 15, полный доступ).
 - Настроил telnet, разрешил вход только зарегистрированным пользователям.
 - Подключился к коммутатору через telnet 192.168.1.1, используя логины user и admin, глянул права.
 - Попробовал выполнить команду enable под пользователем user – доступ запрещен.
 - Под пользователем admin enable сработал, получен полный доступ.
 - Создал пользователя student с паролем secret, проверил, что он зашифрован в show running-config.

Скрины:

The first screenshot shows a Cisco Packet Tracer workspace with a 2960-24TT switch connected to a PC-PT. A PC0 window is open, displaying a command prompt where a ping command has been executed. The output shows successful ping results from 192.168.1.1 to 192.168.1.1.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Request timed out.
Reply from 192.168.1.1: bytes=32 time=1ms TTL=125
Reply from 192.168.1.1: bytes=32 time=1ms TTL=125
Reply from 192.168.1.1: bytes=32 time=1ms TTL=125

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>
```

The second screenshot shows the same workspace with the switch configuration window open. The configuration includes enabling the switch, configuring the Vlan1 interface with IP address 192.168.1.1, and enabling the interface.

```
Physical Config CLI Attributes
IOS Command Line Interface

Top Assembly Revision Number : A0
Version ID : V02
CIS Code Number : COM300BKA
Hardware Board Revision Number : 0x01

Switch Ports Model SW Version SW Image
-----
* 1 26 WS-C2960-24TT-L 15.0(2)SE4 C2960-LANBASEK9-M

Cisco IOS Software, C2960 Software (C2960-LANBASEK9-M), Version 15.0(2)SE4, RELEASE SOFTWARE (fc1)
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Compiled Wed 26-Jun-13 02:49 by mnquyen

Press RETURN to get started!

VLINE-S-CHANGED: Interface FastEthernet0/1, changed state to up
VLINEPROTO-S-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Switch>enable
Switch>configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface vlan 1
Switch(config-if)#ip address 192.168.1.1 255.255.255.0
Switch(config-if)#no shutdown

Switch(config-if)#exit
Switch(config)#
VLINE-S-CHANGED: Interface Vlan1, changed state to up
VLINEPROTO-S-UPDOWN: Line protocol on Interface Vlan1, changed state to up

Switch(config)#exit
Switch#
VSP-S-CONFIG_I: Configured from console by console
Switch#
```

Cisco Packet Tracer - C:\Users\yakyl\Cisco Packet Tracer 8.2.2\saves\17.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical: 278 / 799

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
Power supply serial number : A2D1007032H
Model revision number : B0
Motherboard revision number : B0
Model number : WS-C2960-24TT-L
System serial number : FOC1010X104
Top Assembly Part Number : 000-27221-02
Top Assembly Revision Number : A0
Version ID : V02
CLEI Code Number : CM3100BBA
Hardware Board Revision Number : 0W01

Switch Ports Model SW Version SW Image
-----
* 1 26 WS-C2960-24TT-L 15.0(2)SE4 C2960-LANBASEK9-M

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Press RETURN to get started!

VLINE-S-CHANGED: Interface FastEthernet0/1, changed state to up
VLINEPROTO-S-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
VLINEPROTO-S-UPDOWN: Line protocol on Interface Vlan1, changed state to up

Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#username user privilege 1 password user123
Switch(config)#username admin privilege 15 password admin123
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#
```

Copy Paste Delete

Time: 00:00:56

ISR4331

Realtime Simulation

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical: 428 / 259

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
%SYS-5-CONFIG_I: Configured from console by console

Switch#
Switch#exit

Switch con0 is now available

Press RETURN to get started.

Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#line vty 0 4
Switch(config-line)#login local
Switch(config-line)#transport input telnet
Switch(config-line)#exit
Switch(config)#
```

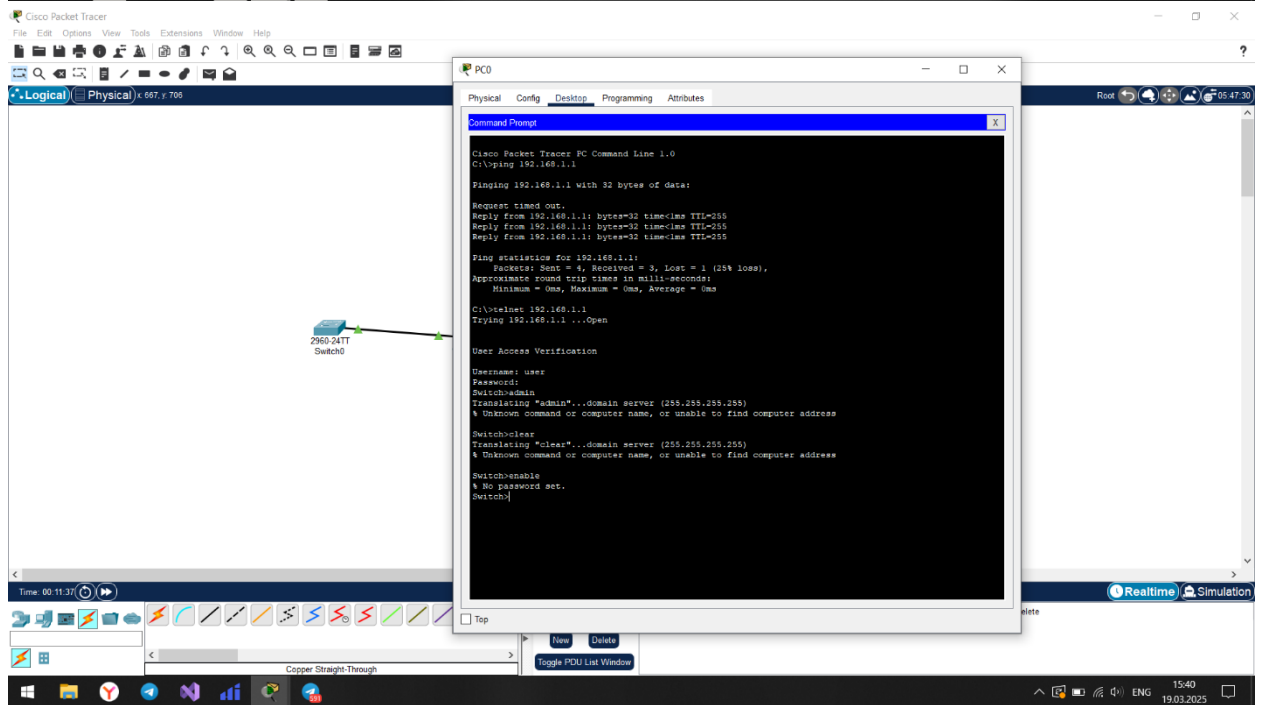
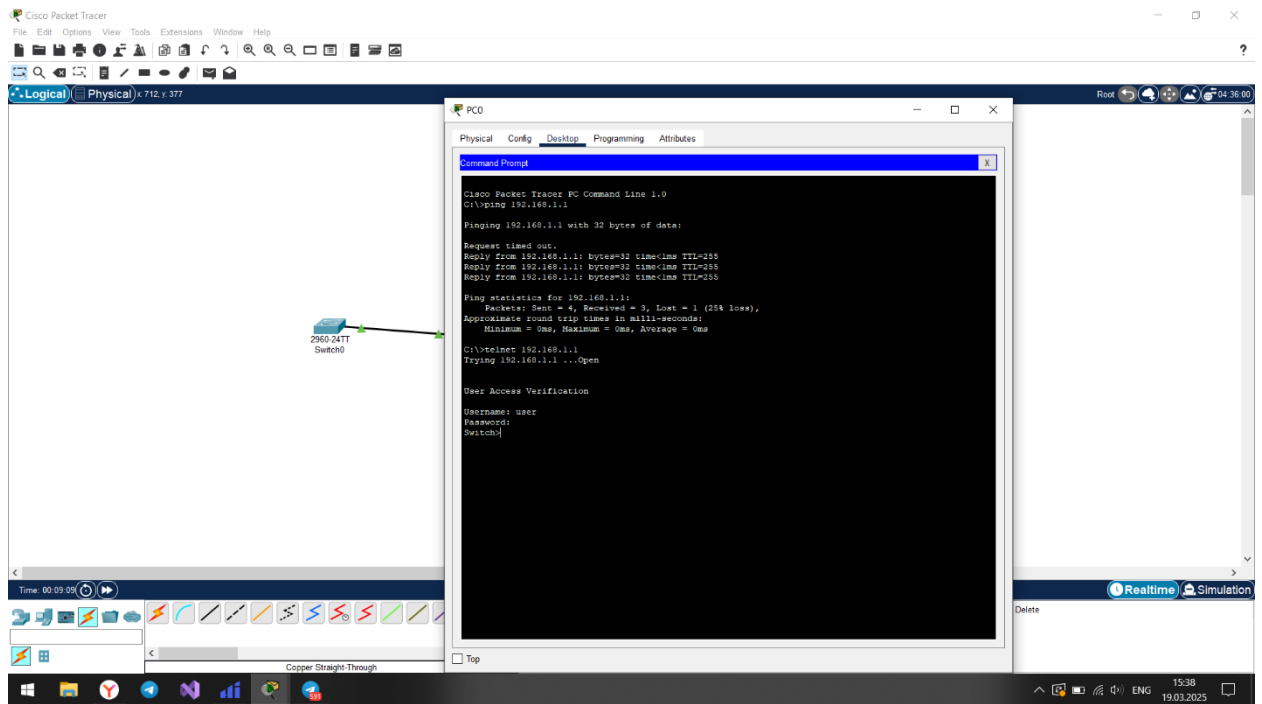
Copy Paste Delete

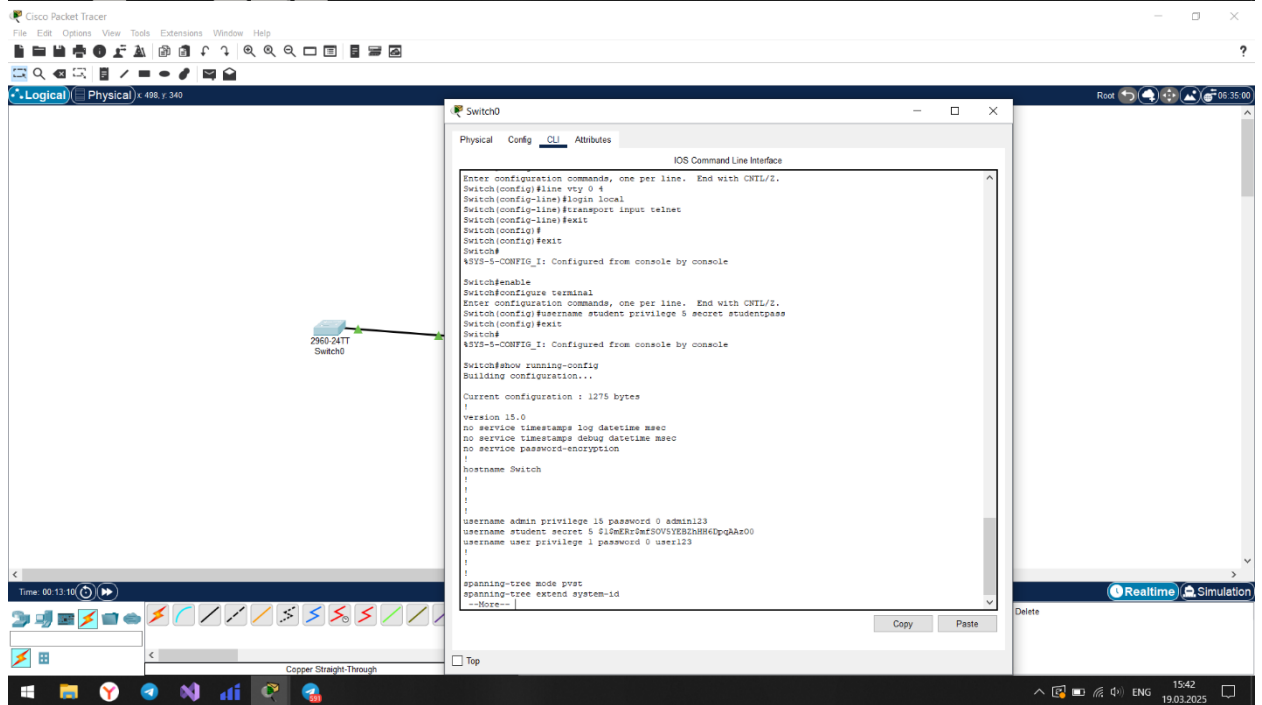
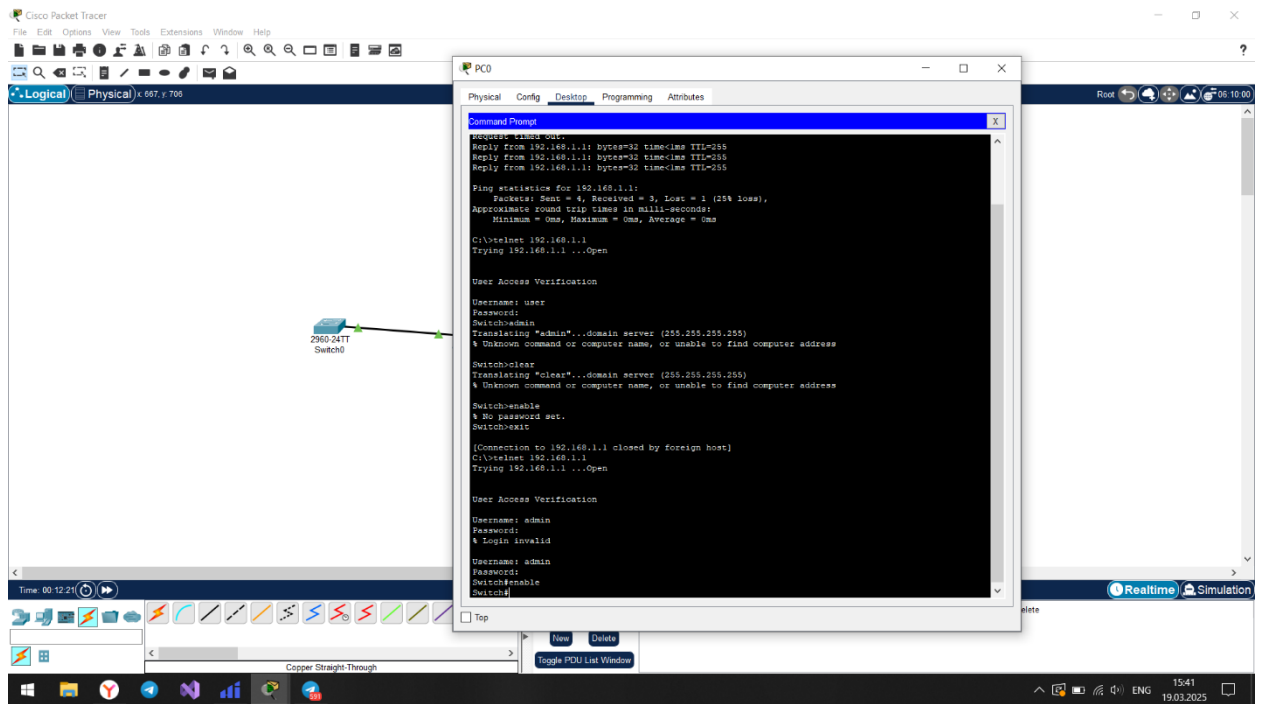
Time: 00:00:41

Copper Straight-Through

Realtime Simulation

15:37 19.03.2025





Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 498 r 340

2960 24TT Switch0

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
interface FastEthernet0/16
!
interface FastEthernet0/17
!
interface FastEthernet0/18
!
interface FastEthernet0/19
!
interface FastEthernet0/20
!
interface FastEthernet0/21
!
interface FastEthernet0/22
!
interface FastEthernet0/23
!
interface FastEthernet0/24
!
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
!
interface Vlan1
ip address 192.168.1.1 255.255.255.0
!
!
line con 0
!
line vty 0 4
login local
transport input telnet
line vty 5 15
!
!
end
```

Copy Paste

Time: 00:13:36

Copper Straight-Through

Realtime Simulation

Delete

15:42 19.03.2025