

Отчет по практической работе 18

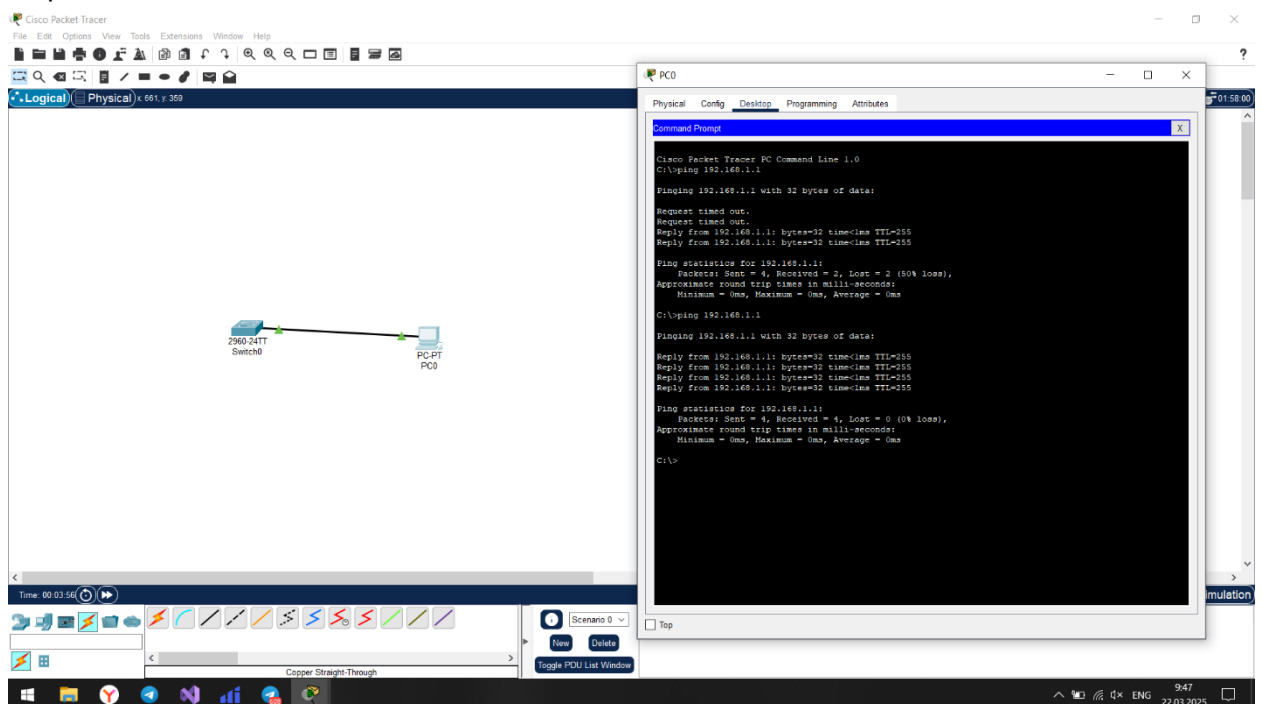
Землянский В. ИС223

Цель работы: настроить защищенный удаленный доступ к коммутатору с использованием ssh, а также отключить telnet.

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.
 - Включил telnet и подключился через telnet 192.168.1.1 проверил доступ.
 - Настроил ssh:
 - Установил доменное имя и сделал rsa ключ.
 - Создал пользователя admin с паролем admin123.
 - Запретил telnet разрешил только ssh.
 - Снова подключился через telnet доступ запрещен.
 - Подключился через ssh командой `ssh -l admin 192.168.1.1`.
 - Проверил удаленное управление, выполнил команды `show ip interface brief` и `show running-config`.

Скрины:



Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 421 / 434

2960-24TT Switch0 PC PT PC0

Time: 00:04:24

Copper Straight-Through

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
Top Assembly Revision Number : A0
Version ID : V02
CLEI Code Number : C08310082A
Hardware Board Revision Number : 0A01

Switch Ports Model SW Version SW Image
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* 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)
Technical Support: http://www.cisco.com/techsupport
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Compiled Wed 26-Jun-13 02:14 by smpuyen

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

Copy Paste

Realtime Simulation

9:48 22.03.2025

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 447 / 497

2960-24TT Switch0 PC PT PC0

Time: 00:05:30

Copper Straight-Through

PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
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.
Request timed out.
Reply from 192.168.1.1: bytes=32 time=1ms TTL=255
Reply from 192.168.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time=1ms TTL=255
Reply from 192.168.1.1: bytes=32 time=1ms TTL=255
Reply from 192.168.1.1: bytes=32 time=1ms TTL=255
Reply from 192.168.1.1: bytes=32 time=1ms TTL=255

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

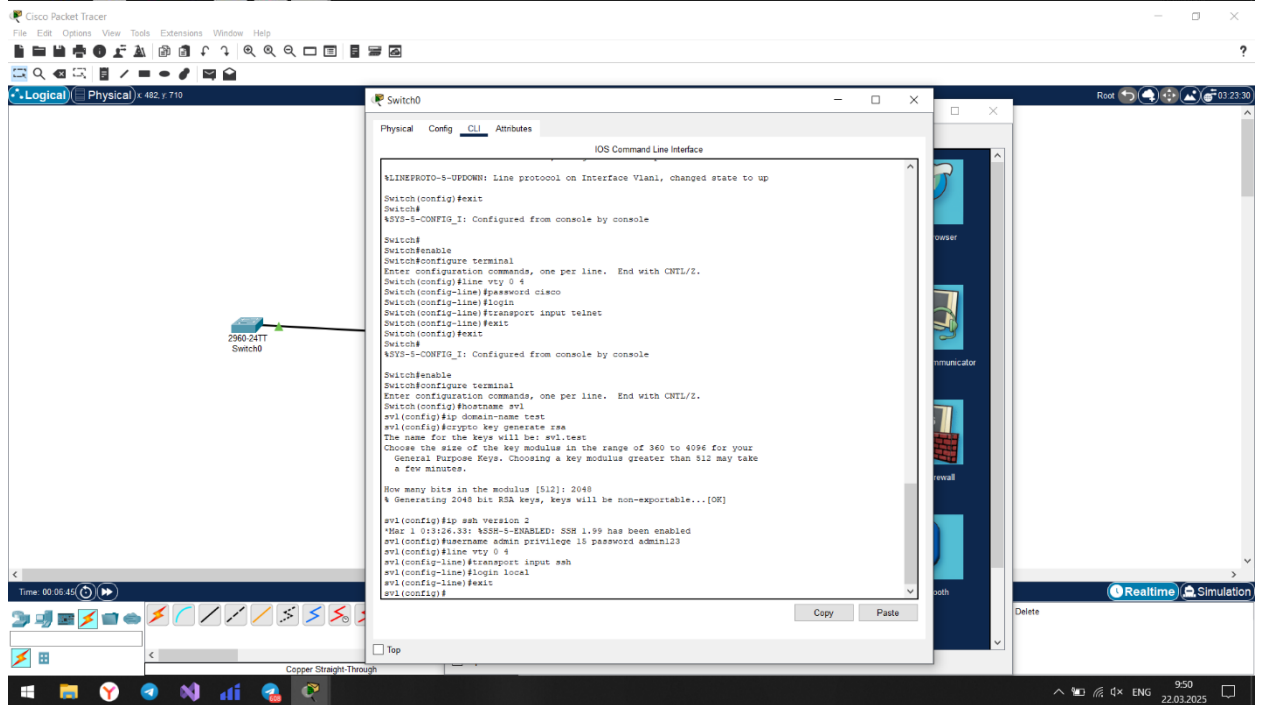
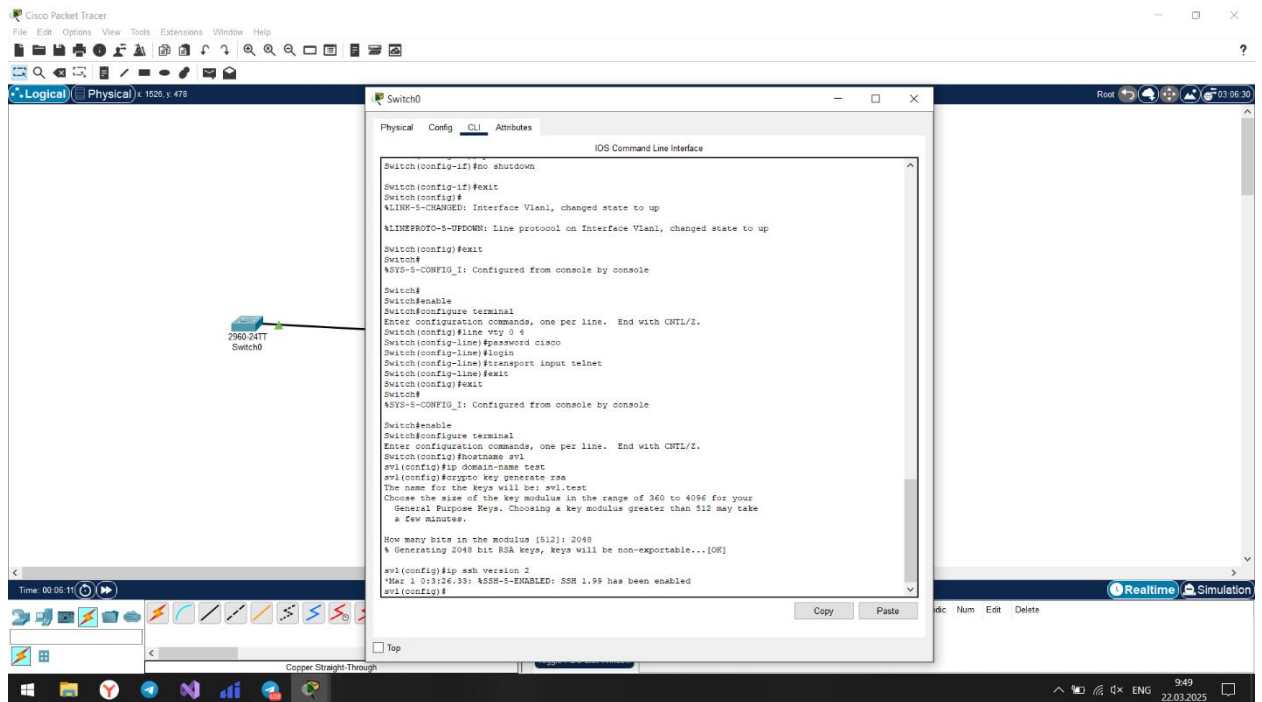
User Access Verification

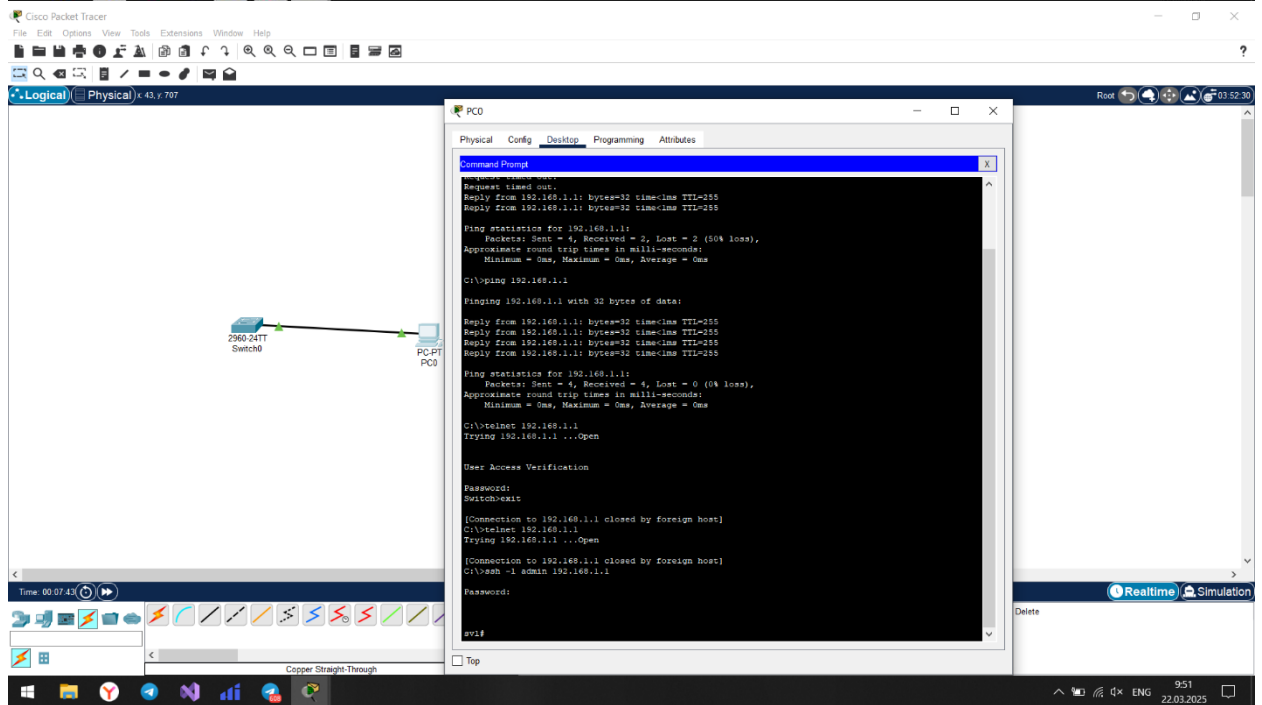
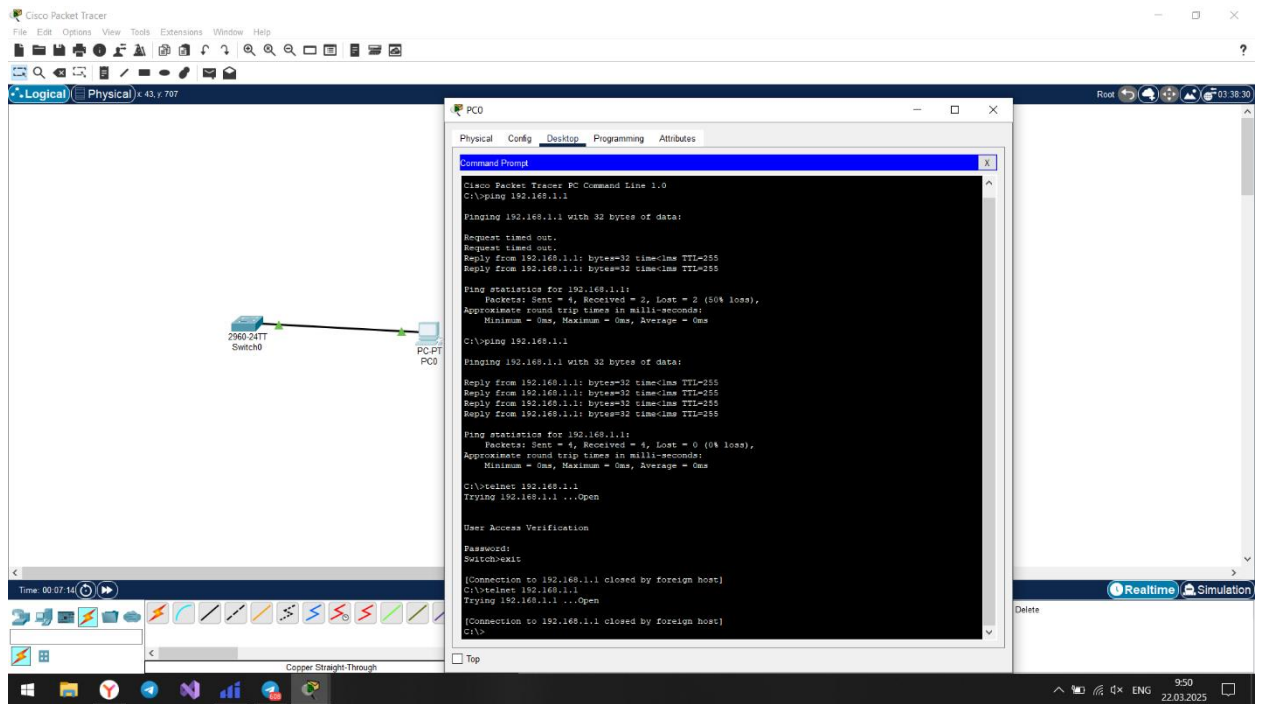
Password:
Switch#exit

[Connection to 192.168.1.1 closed by foreign host]
C:\>
```

Realtime Simulation

9:49 22.03.2025





Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical (x 43) / 707

2960-24TT Switch0 PC0/1

PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
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
password cisco
login local
transport input ssh
line vty 5 15
login
!
!
!
end

svi#
svi#
```

Time: 00:00:41

Copper Straight-Through

Realtime Simulation

Delete

9:52 22.03.2025