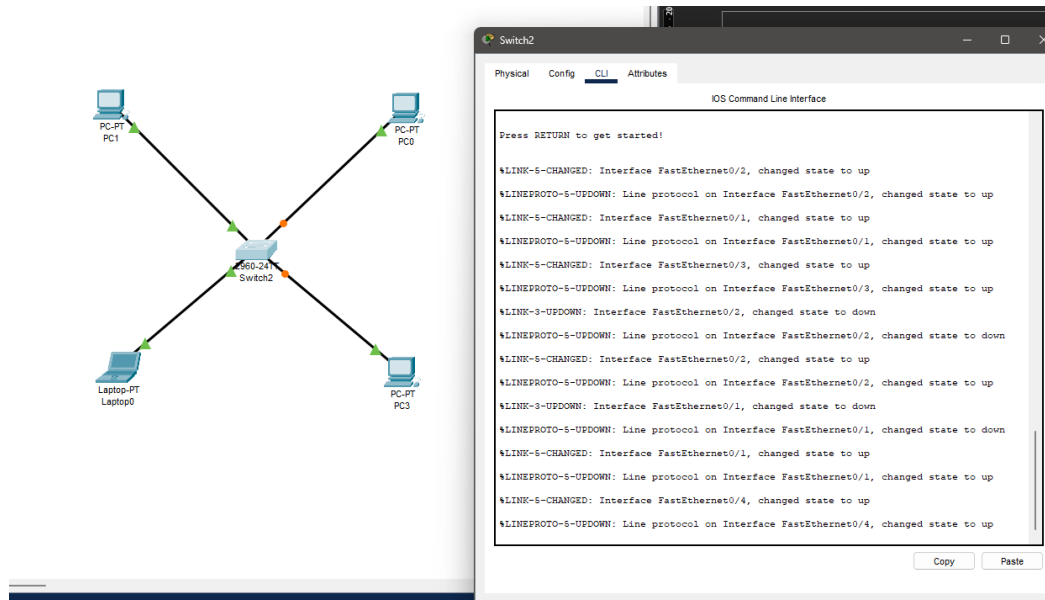


Практическая работа 4 – Работа с терминалом (CLI)

1. Создаем рабочую области и переходим в консоль коммутатора.



2. Команда ? – список команд

```
Switch>?  
Exec commands:  
  connect      Open a terminal connection  
  disable      Turn off privileged commands  
  disconnect    Disconnect an existing network connection  
  enable        Turn on privileged commands  
  exit          Exit from the EXEC  
  logout        Exit from the EXEC  
  ping          Send echo messages  
  resume        Resume an active network connection  
  show          Show running system information  
  ssh           Open a secure shell client connection  
  telnet        Open a telnet connection  
  terminal      Set terminal line parameters  
  traceroute    Trace route to destination  
Switch>
```

3. Команда show.

```
Switch>show ?
  arp          Arp table
  cdp          CDP information
  clock        Display the system clock
  crypto       Encryption module
  dtp          DTP information
  etherchannel EtherChannel information
  flash:       display information about flash: file system
  history      Display the session command history
  interfaces   Interface status and configuration
  ip           IP information
  lldp         LLDP information
  mac          MAC configuration
  mac-address-table MAC forwarding table
  mls          Show MultiLayer Switching information
  privilege    Show current privilege level
  sessions     Information about Telnet connections
  ssh          Status of SSH server connections
  tcp          Status of TCP connections
  terminal     Display terminal configuration parameters
  users        Display information about terminal lines
  version      System hardware and software status
  vlan         VTP VLAN status
--More--
```

4. Команда enabled – переход в привилегированный режим
5. Команда configure terminal – переход в привилегированный режим

```
Switch>
Switch>en
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#
```

6. Команда enable password * - устанавливаем пароль на терминал.

```
Enter configuration commands, one per line
Switch(config)#enable password spartak78
```

7. Команда enable secret * - в отличие от прошлой команды хранит пароль в зашифрованном виде.

```
level 150 level 150 level 150 password
Switch(config)#enable secret spartak78
The enable secret you have chosen is the same as your enable password.
This is not recommended. Re-enter the enable secret.
Switch(config)#enable secret spartak56
Switch(config)#
```

8. Команда write memory – сохраняет изменения в конфигурации.

```
Switch# write memory
Building configuration...
[OK]
Switch#
```

9. Команда reload – перезагрузка устройства.

```
Switch#reload
Proceed with reload? [confirm]
C2960 Boot Loader (C2960-HBOOT-M) Version 12.2(25r)FX, RELEASE SOFTWARE (fc4)
Cisco WS-C2960-24TT (RC32300) processor (revision C0) with 21039K bytes of memory.
2960-24TT starting...
Base ethernet MAC Address: 0002.1677.D770
Xmodem file system is available.
Initializing Flash...
flashfs[0]: 2 files, 0 directories
flashfs[0]: 0 orphaned files, 0 orphaned directories
flashfs[0]: Total bytes: 64016384
flashfs[0]: Bytes used: 4671610
flashfs[0]: Bytes available: 59344774
flashfs[0]: flashfs fsck took 1 seconds.
...done Initializing Flash.

Boot Sector Filesystem (bs:) installed, fsid: 3
Parameter Block Filesystem (pb:) installed, fsid: 4

Loading "flash:/2960-lanbasek9-mz.150-2.SE4.bin"...
##### [OK]
Smart Init is enabled
smart init is sizing iomem
      TYPE      MEMORY_REQ
TOTAL: 0x00000000
```

```
Base reset from power on
1 Virtual Ethernet interface
24 FastEthernet interfaces
2 Gigabit Ethernet interfaces
The password-recovery mechanism is enabled.
64K bytes of flash-simulated non-volatile configuration memory.
Base ethernet MAC Address      : 00:02:16:77:D7:70
Motherboard assembly number    : 73-10390-03
Power supply part number       : 341-0097-02
Motherboard serial number      : FOC10093R12
Power supply serial number     : AZS1007032H
Model revision number          : B0
Motherboard revision number    : B0
Model number                   : WS-C2960-24TT-L
System serial number           : FOC1010X104
Top Assembly Part Number       : 800-27221-02
Top Assembly Revision Number   : A0
Version ID                     : V02
CLEI Code Number               : COM3L00BRA
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)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Wed 26-Jun-13 02:49 by mnnguyen
```

Press RETURN to get started!

10. Пару команд из консоли.

```
Switch#dir
Directory of flash:/

 1  -rw-     4670455      <no date>  2960-lanbasek9-mz.150-2.SE4.bin
 2  -rw-         1155      <no date>  config.text

64016384 bytes total (59344774 bytes free)
Switch#
```

```
* incomplete command.
Switch(config)#hostname master
master(config)#
```