

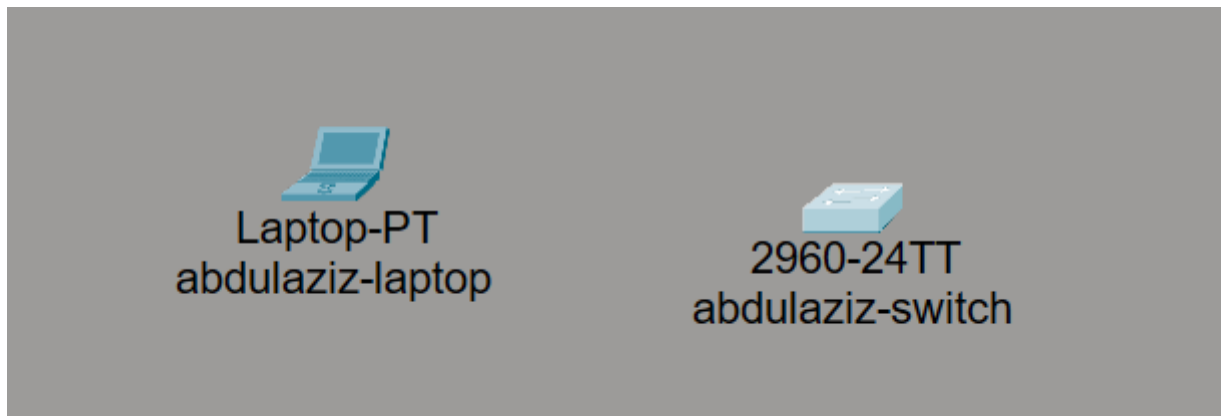
Practice 1 – Basics of working with the interface of Cisco equipment. Remote connection to network equipment.

Student name: Bakhramov Abdulaziz

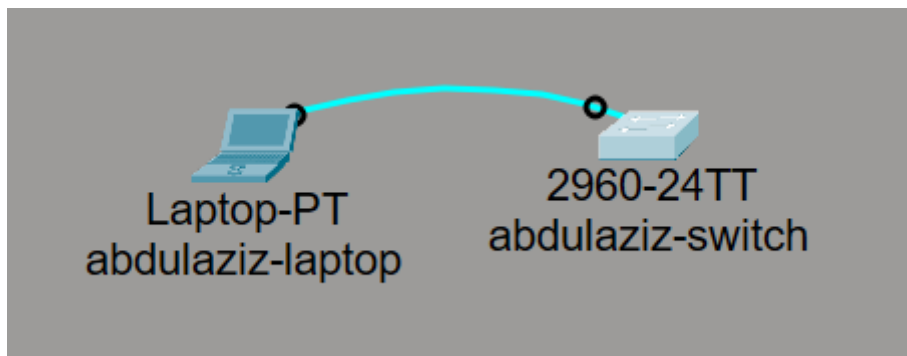
Student ID: 24B031692

Group: Mon 11:00-13:00

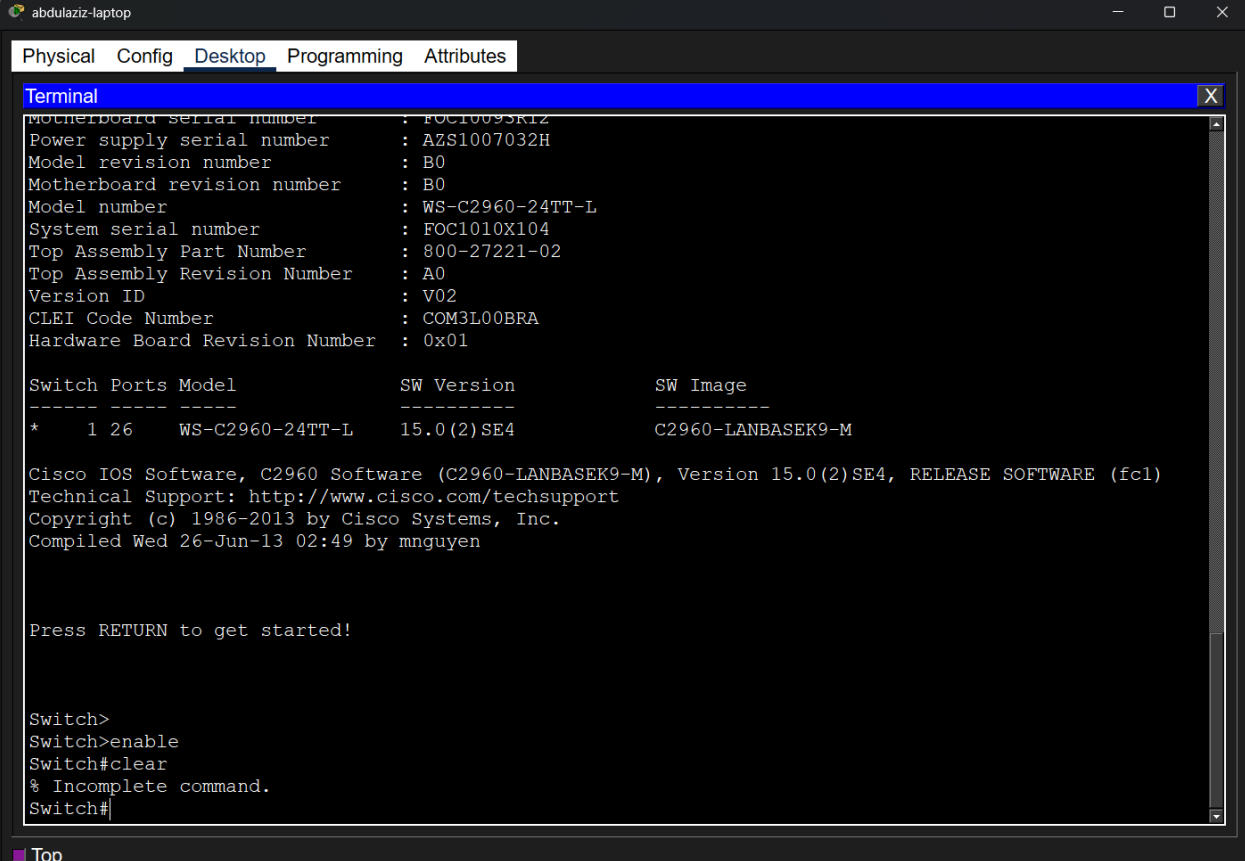
1. Drag a PC and a Cisco 2960 switch onto the workspace.



2. Connect Laptop (RS-232) to Switch (Console) using console cable



3. Accessing Switch via Terminal



The screenshot shows a terminal window titled 'abdulaziz-laptop' with tabs for Physical, Config, Desktop, Programming, and Attributes. The 'Terminal' tab is active, displaying the boot sequence of a Cisco WS-C2960-24TT-L switch. The output includes hardware details, the IOS version (15.0(2)SE4), and the SW image (C2960-LANBASEK9-M). The prompt is 'Switch>'. The user enters 'enable', and the prompt changes to 'Switch#'. The user then enters 'clear', which results in an error message: '% Incomplete command.' The prompt returns to 'Switch#'. A 'Top' button is visible at the bottom left.

```
Physical Config Desktop Programming Attributes
Terminal
Motherboard serial number      : FOC10093K12
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

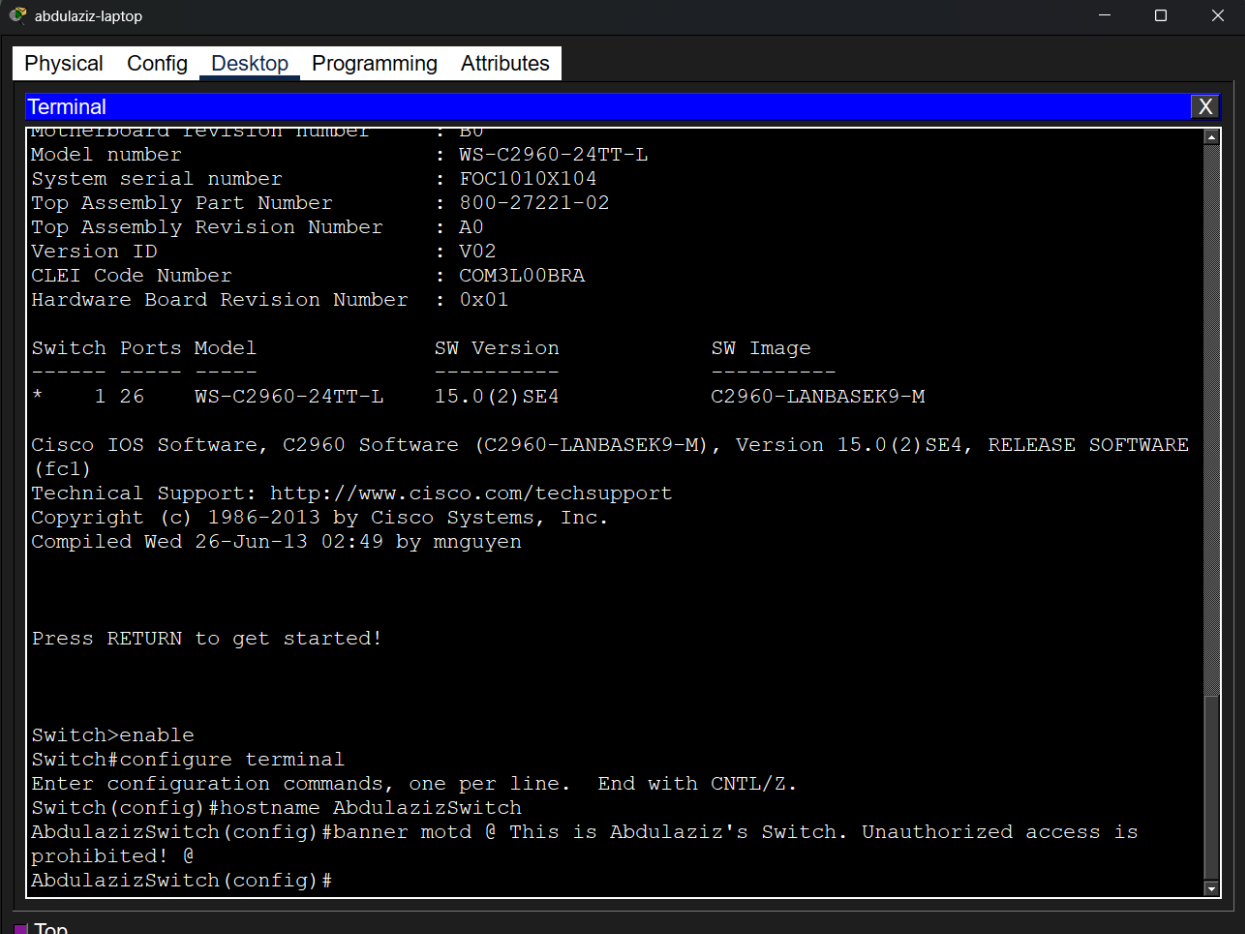
Cisco IOS Software, C2960 Software (C2960-LANBASEK9-M), Version 15.0(2)SE4, RELEASE SOFTWARE (fc1)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Wed 26-Jun-13 02:49 by mnguyen

Press RETURN to get started!

Switch>
Switch>enable
Switch#clear
% Incomplete command.
Switch#
```

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4. Setup hostname and banner



The screenshot shows the same terminal window as before, but now in configuration mode. The user has entered 'enable' and 'configure terminal'. The prompt is now 'Switch(config)#'. The user enters 'hostname AbdulazizSwitch', and the prompt changes to 'AbdulazizSwitch(config)#'. The user then enters 'banner motd @ This is Abdulaziz's Switch. Unauthorized access is prohibited! @', and the prompt returns to 'AbdulazizSwitch(config)#'. A 'Top' button is visible at the bottom left.

```
Physical Config Desktop Programming Attributes
Terminal
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

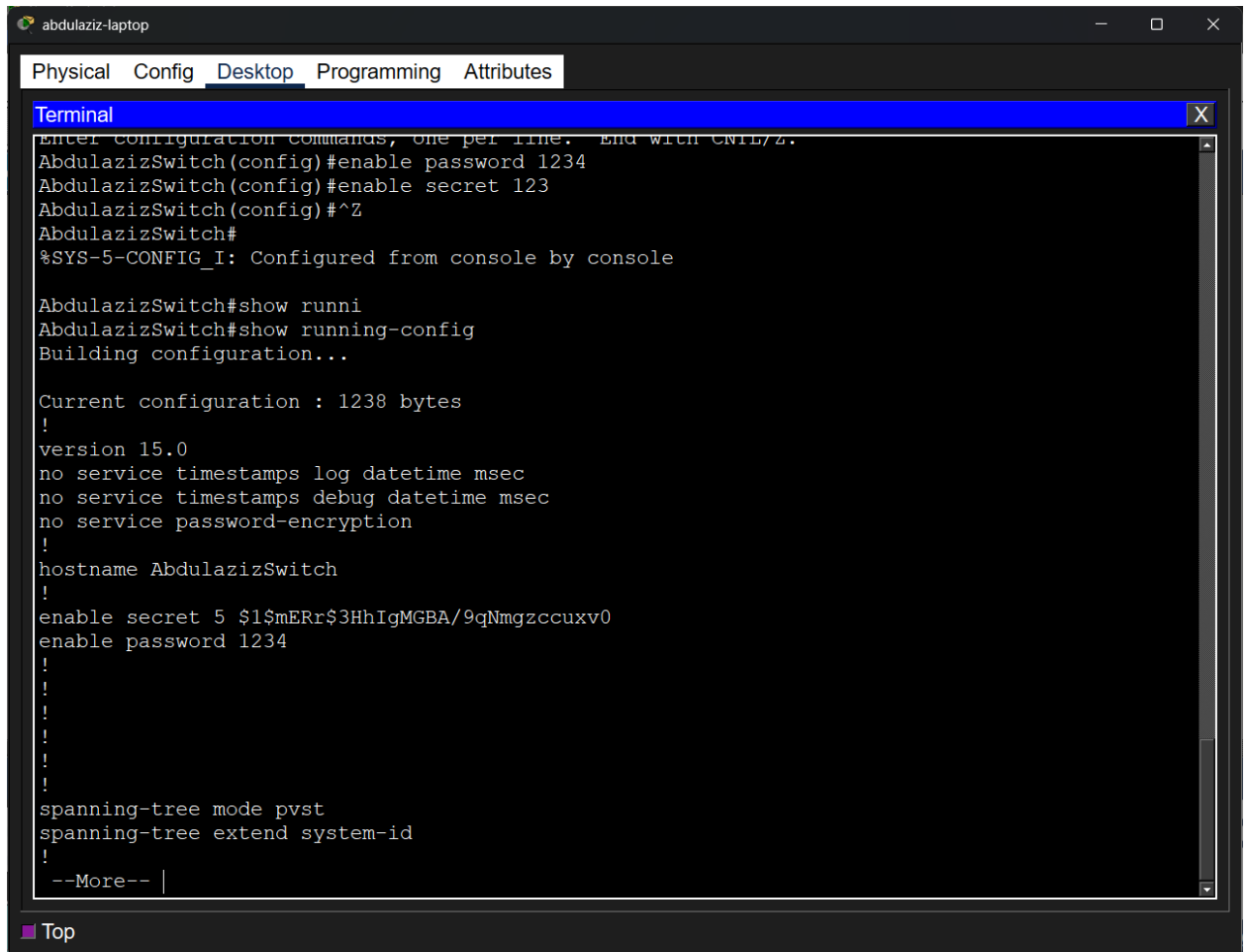
Cisco IOS Software, C2960 Software (C2960-LANBASEK9-M), Version 15.0(2)SE4, RELEASE SOFTWARE (fc1)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Wed 26-Jun-13 02:49 by mnguyen

Press RETURN to get started!

Switch>enable
Switch#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#hostname AbdulazizSwitch
AbdulazizSwitch(config)#banner motd @ This is Abdulaziz's Switch. Unauthorized access is
prohibited! @
AbdulazizSwitch(config)#
```

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5. Set password and secret

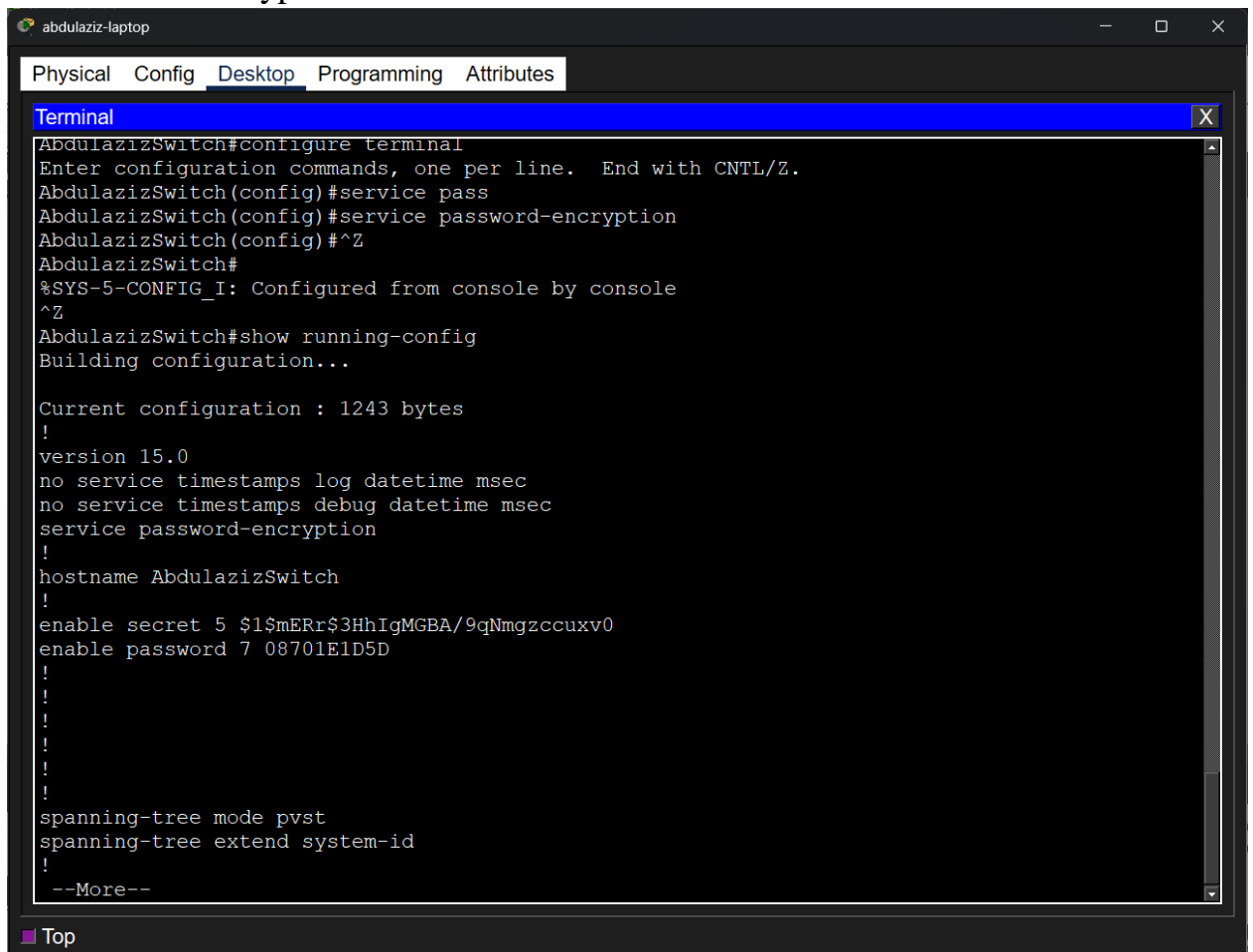


```
abdulaziz-laptop
Physical Config Desktop Programming Attributes
Terminal
Enter configuration commands, one per line. End with CNTL/Z.
AbdulazizSwitch(config)#enable password 1234
AbdulazizSwitch(config)#enable secret 123
AbdulazizSwitch(config)#^Z
AbdulazizSwitch#
%SYS-5-CONFIG_I: Configured from console by console

AbdulazizSwitch#show runni
AbdulazizSwitch#show running-config
Building configuration...

Current configuration : 1238 bytes
!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname AbdulazizSwitch
!
enable secret 5 $1$mERr$3HhIgMGBA/9qNmgzccuxv0
enable password 1234
!
!
!
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
--More--
```

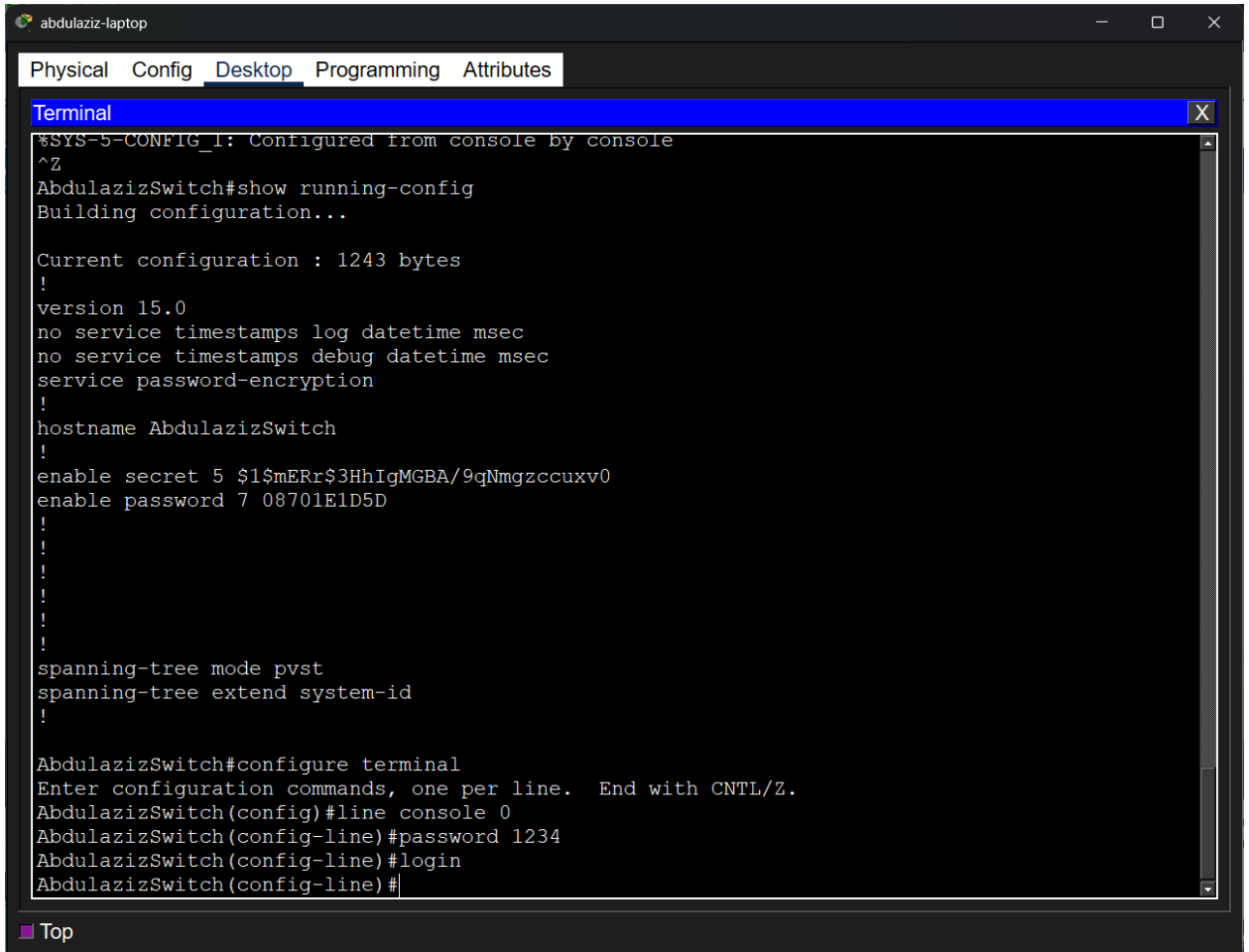
6. Password encryption



```
abdulaziz-laptop
Physical Config Desktop Programming Attributes
Terminal
AbdulazizSwitch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
AbdulazizSwitch(config)#service pass
AbdulazizSwitch(config)#service password-encryption
AbdulazizSwitch(config)#^Z
AbdulazizSwitch#
%SYS-5-CONFIG_I: Configured from console by console
^Z
AbdulazizSwitch#show running-config
Building configuration...

Current configuration : 1243 bytes
!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname AbdulazizSwitch
!
enable secret 5 $1$mERr$3HhIgMGBA/9qNmgzccuxv0
enable password 7 08701E1D5D
!
!
!
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
--More--
```

7. Set up authorization to connect to the console.



The screenshot shows a terminal window titled 'abdulaziz-laptop' with tabs for Physical, Config, Desktop, Programming, and Attributes. The 'Terminal' tab is active, displaying the following commands and output:

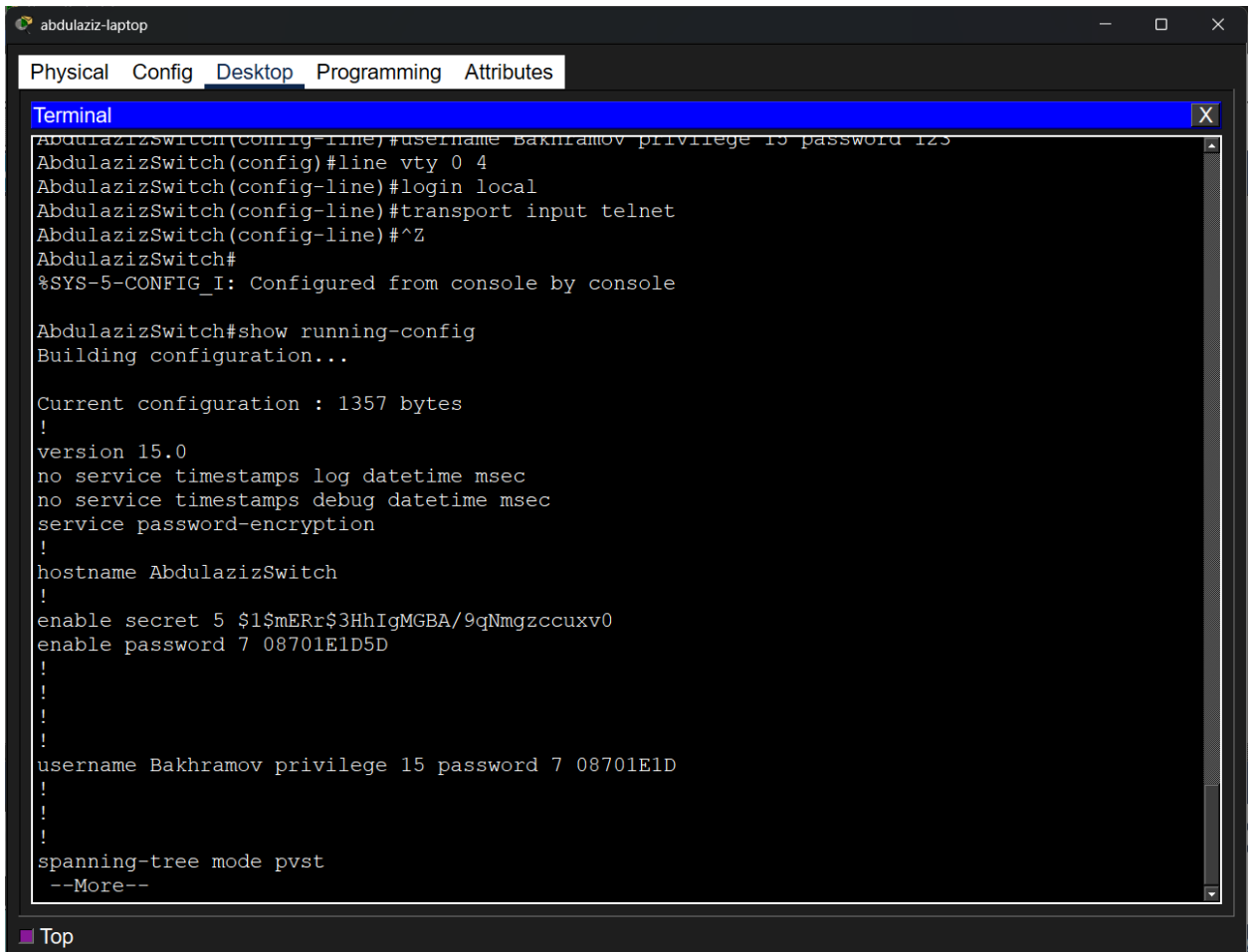
```
%SYS-5-CONFIG_I: Configured from console by console
^Z
AbdulazizSwitch#show running-config
Building configuration...

Current configuration : 1243 bytes
!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname AbdulazizSwitch
!
enable secret 5 $1$mERr$3HhIgMGBA/9qNmzgzcuxv0
enable password 7 08701E1D5D
!
!
!
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!

AbdulazizSwitch#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
AbdulazizSwitch(config)#line console 0
AbdulazizSwitch(config-line)#password 1234
AbdulazizSwitch(config-line)#login
AbdulazizSwitch(config-line)#
```

At the bottom of the terminal window, there is a 'Top' button.

8. Set up a user account



The screenshot shows a terminal window titled 'abdulaziz-laptop' with tabs for Physical, Config, Desktop, Programming, and Attributes. The 'Terminal' tab is active, displaying the following commands and output:

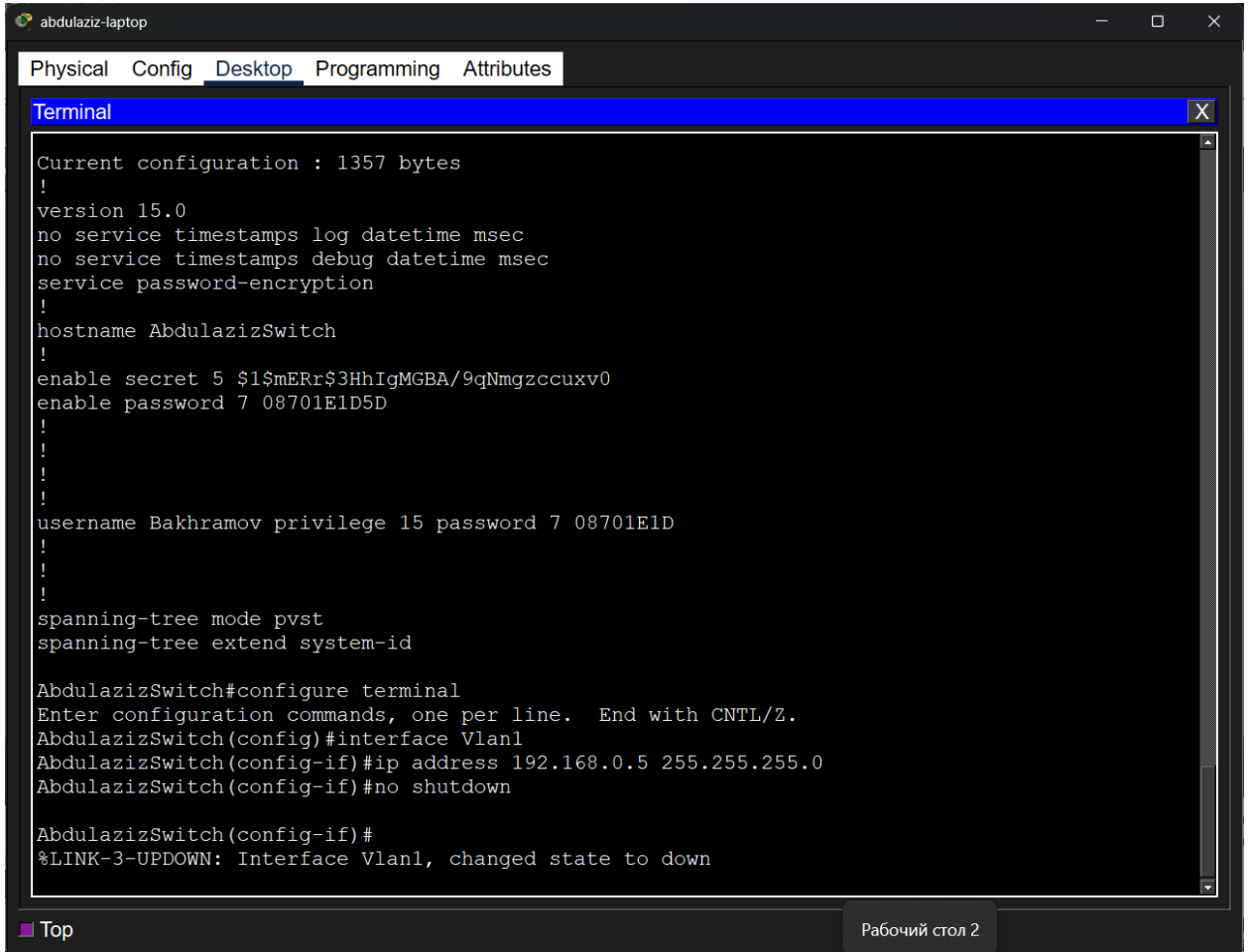
```
AbdulazizSwitch(config-line)#username Bakhramov privilege 15 password 123
AbdulazizSwitch(config)#line vty 0 4
AbdulazizSwitch(config-line)#login local
AbdulazizSwitch(config-line)#transport input telnet
AbdulazizSwitch(config-line)#^Z
AbdulazizSwitch#
%SYS-5-CONFIG_I: Configured from console by console

AbdulazizSwitch#show running-config
Building configuration...

Current configuration : 1357 bytes
!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname AbdulazizSwitch
!
enable secret 5 $1$mERr$3HhIgMGBA/9qNmzgzcuxv0
enable password 7 08701E1D5D
!
!
!
!
!
!
username Bakhramov privilege 15 password 7 08701E1D
!
!
!
spanning-tree mode pvst
--More--
```

At the bottom of the terminal window, there is a 'Top' button.

9. Configuring IP Address for Remote Access



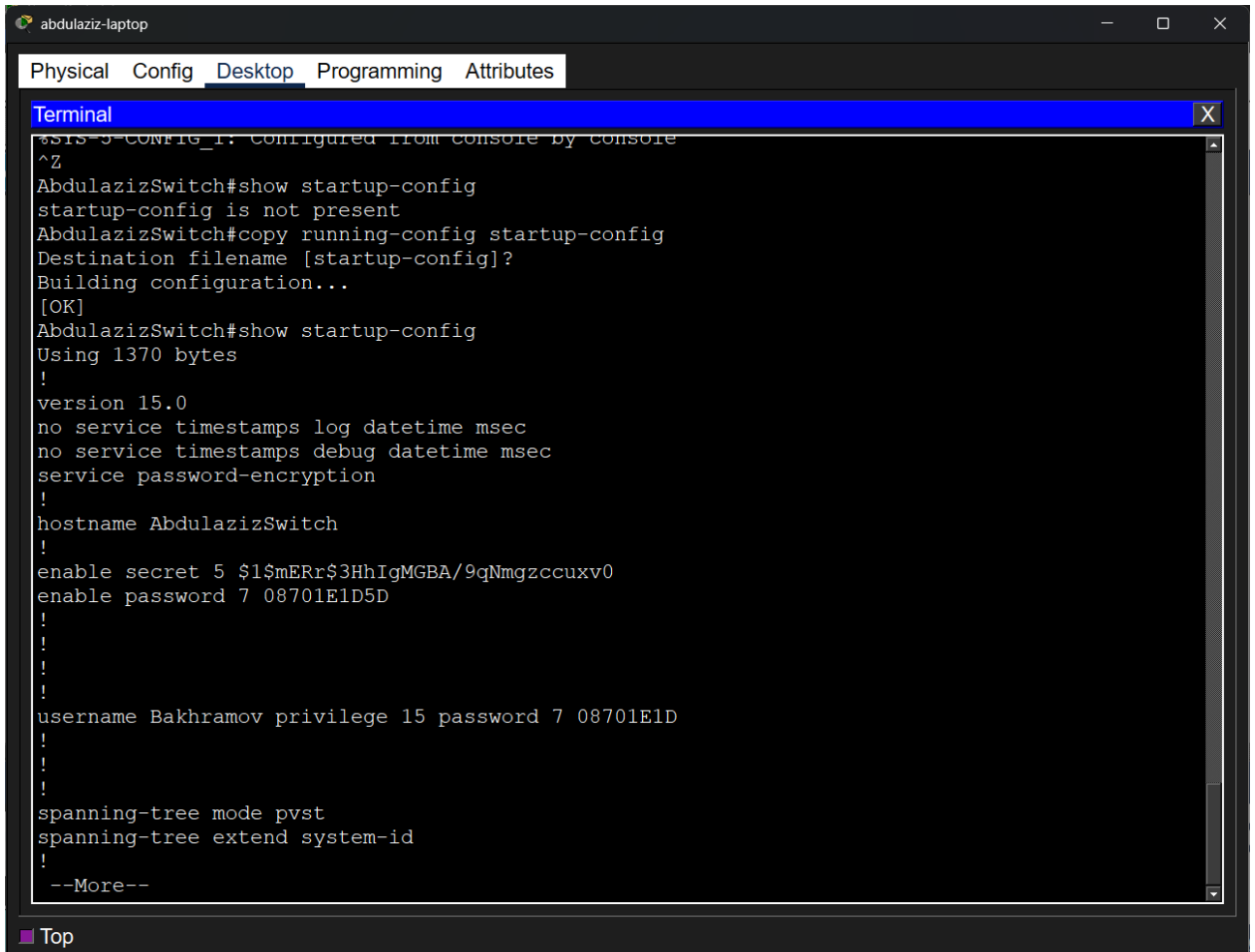
The screenshot shows a GNS3 virtual switch configuration window titled 'abdulaziz-laptop'. The 'Terminal' tab is active, displaying the configuration of a switch named 'AbdulazizSwitch'. The configuration includes setting the version to 15.0, disabling timestamps, enabling password encryption, setting the hostname, enabling secret and password encryption, and creating a user 'Bakhramov' with privilege 15 and password '08701E1D'. The spanning-tree mode is set to 'pvst' and the system-id is extended. The terminal also shows the configuration of interface 'Vlan1' with IP address '192.168.0.5' and 'no shutdown'. The status of the interface is shown as '%LINK-3-UPDOWN: Interface Vlan1, changed state to down'.

```
Current configuration : 1357 bytes
!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname AbdulazizSwitch
!
enable secret 5 $1$mERr$3HhIgMGBA/9qNmgzccuxv0
enable password 7 08701E1D5D
!
!
!
!
username Bakhramov privilege 15 password 7 08701E1D
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id

AbdulazizSwitch#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
AbdulazizSwitch(config)#interface Vlan1
AbdulazizSwitch(config-if)#ip address 192.168.0.5 255.255.255.0
AbdulazizSwitch(config-if)#no shutdown

AbdulazizSwitch(config-if)#
%LINK-3-UPDOWN: Interface Vlan1, changed state to down
```

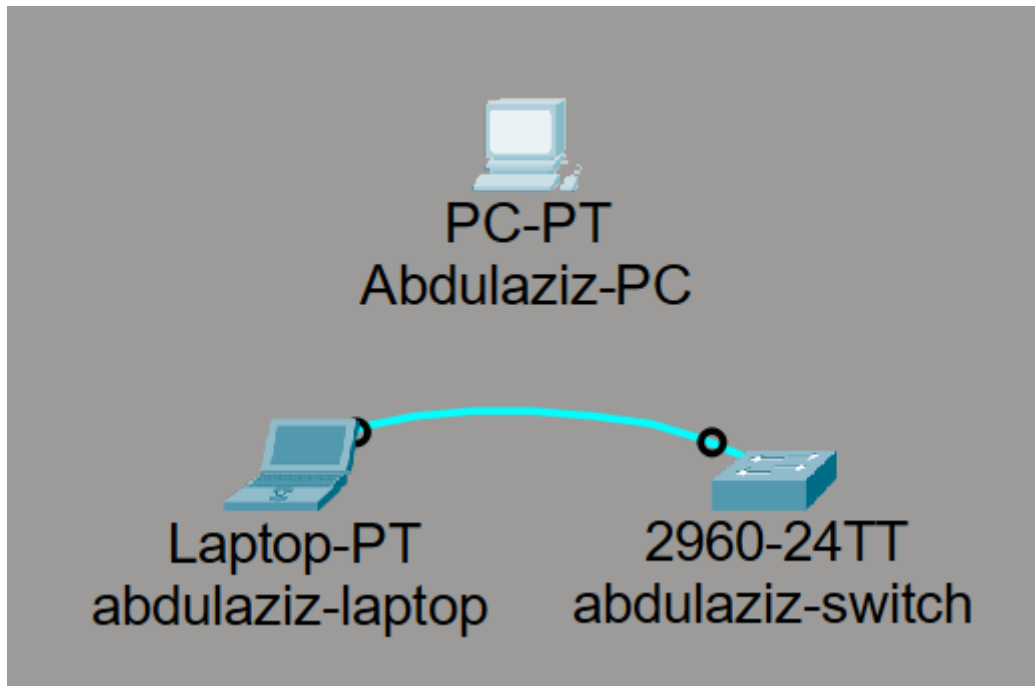
10. Saving startup config



The screenshot shows the same GNS3 virtual switch configuration window. The terminal now displays the process of saving the running configuration to the startup configuration. The user enters 'show startup-config', which returns 'startup-config is not present'. Then, the user enters 'copy running-config startup-config', which prompts for a destination filename. The user enters 'startup-config', and the system builds the configuration. The user then enters 'show startup-config', which shows the saved configuration, identical to the one in the previous screenshot. The terminal ends with '--More--'.

```
*S1S-3-CONFIG_1: Configured from console by console
^Z
AbdulazizSwitch#show startup-config
startup-config is not present
AbdulazizSwitch#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
AbdulazizSwitch#show startup-config
Using 1370 bytes
!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname AbdulazizSwitch
!
enable secret 5 $1$mERr$3HhIgMGBA/9qNmgzccuxv0
enable password 7 08701E1D5D
!
!
!
!
username Bakhramov privilege 15 password 7 08701E1D
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
--More--
```

11. PC added



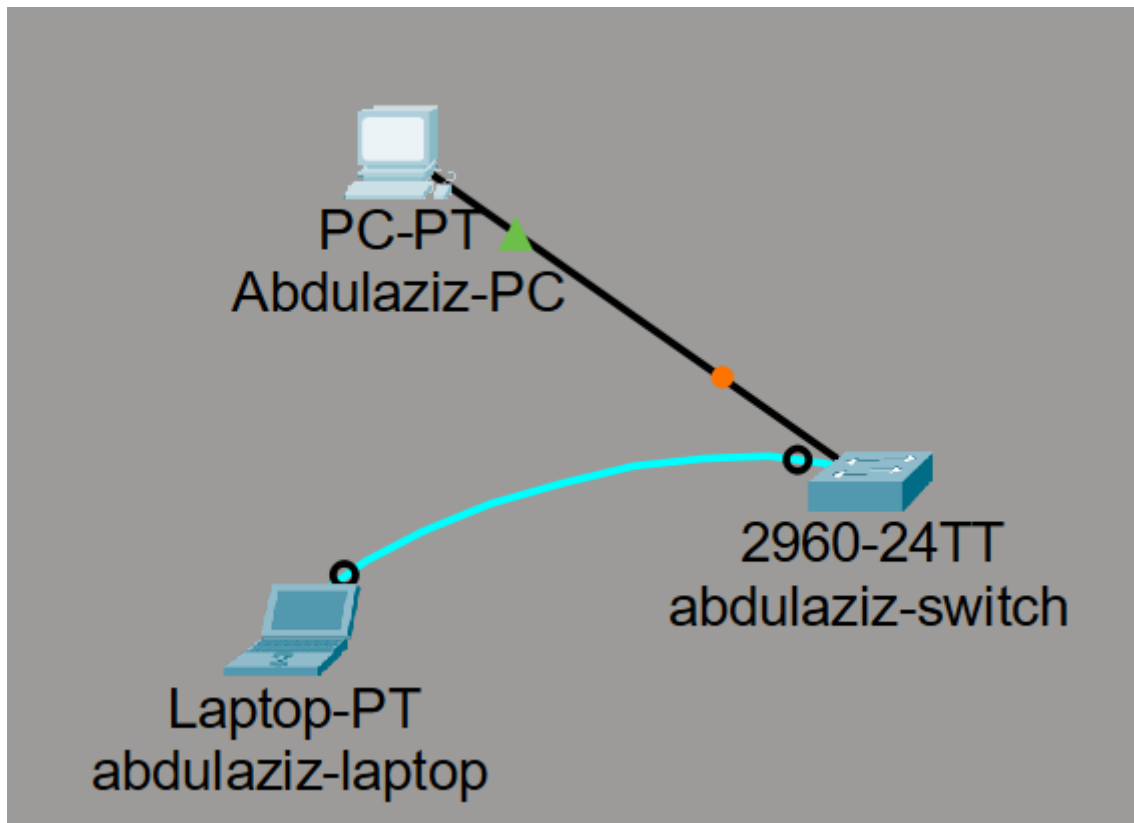
12. Set up PC ip address

The screenshot shows the "Abdulaziz-PC" configuration window. The "Desktop" tab is selected. The "IP Configuration" section is expanded, showing the "FastEthernet0" interface. The "Static" option is selected for IP Configuration. The IPv4 Address is set to 192.168.0.2, Subnet Mask to 255.255.255.0, Default Gateway to 0.0.0.0, and DNS Server to 0.0.0.0. The IPv6 Configuration section shows the "Static" option selected, with the Link Local Address set to FE80::230:A3FF:FE0D:10C5. The 802.1X section shows the "Use 802.1X Security" option selected, with Authentication set to MD5. A "Top" button is located at the bottom left.

Interface	FastEthernet0
IP Configuration	
<input checked="" type="radio"/> DHCP <input checked="" type="radio"/> Static	
IPv4 Address	192.168.0.2
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0
IPv6 Configuration	
<input checked="" type="radio"/> Automatic <input checked="" type="radio"/> Static	
IPv6 Address	
Link Local Address	FE80::230:A3FF:FE0D:10C5
Default Gateway	
DNS Server	
802.1X	
<input checked="" type="checkbox"/> Use 802.1X Security	
Authentication	MD5
Username	
Password	

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13. Connected Copper-Cable



14. Ping command

```
Abdulaziz-PC
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.5

Pinging 192.168.0.5 with 32 bytes of data:

Request timed out.
Reply from 192.168.0.5: bytes=32 time<1ms TTL=255
Reply from 192.168.0.5: bytes=32 time<1ms TTL=255
Reply from 192.168.0.5: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.0.5:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

15. Telnet connection

```
Abdulaziz-PC
Physical Config Desktop Programming Attributes
Command Prompt

User Access Verification

Username: Bakhramov
Password:
% Login invalid

Username: Bakhramov
Password:
% Login invalid

Username: Ba
% Username: timeout expired!

[Connection to 192.168.0.5 closed by foreign host]
C:\>telnet 192.168.0.5
Trying 192.168.0.5 ...Open This is Abdulaziz's Switch. Unauthorized access is prohibited!

User Access Verification

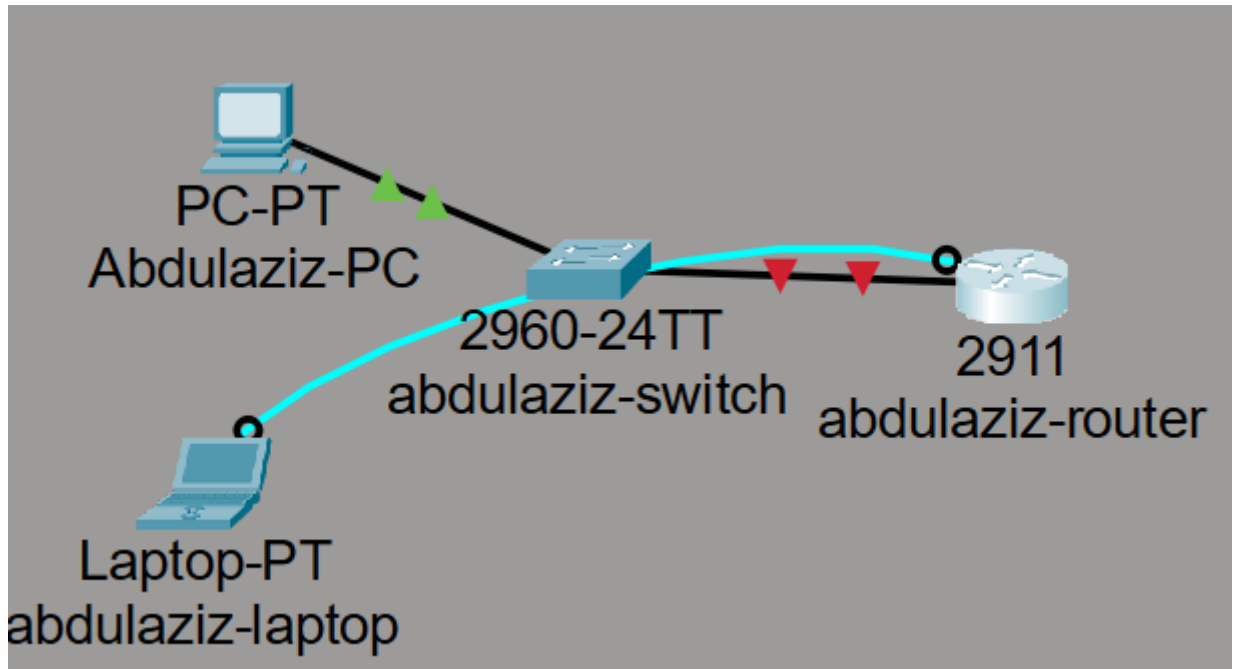
Username: Bakhramov
Password:
% Login invalid

Username: Bakhramov
Password:
% Login invalid

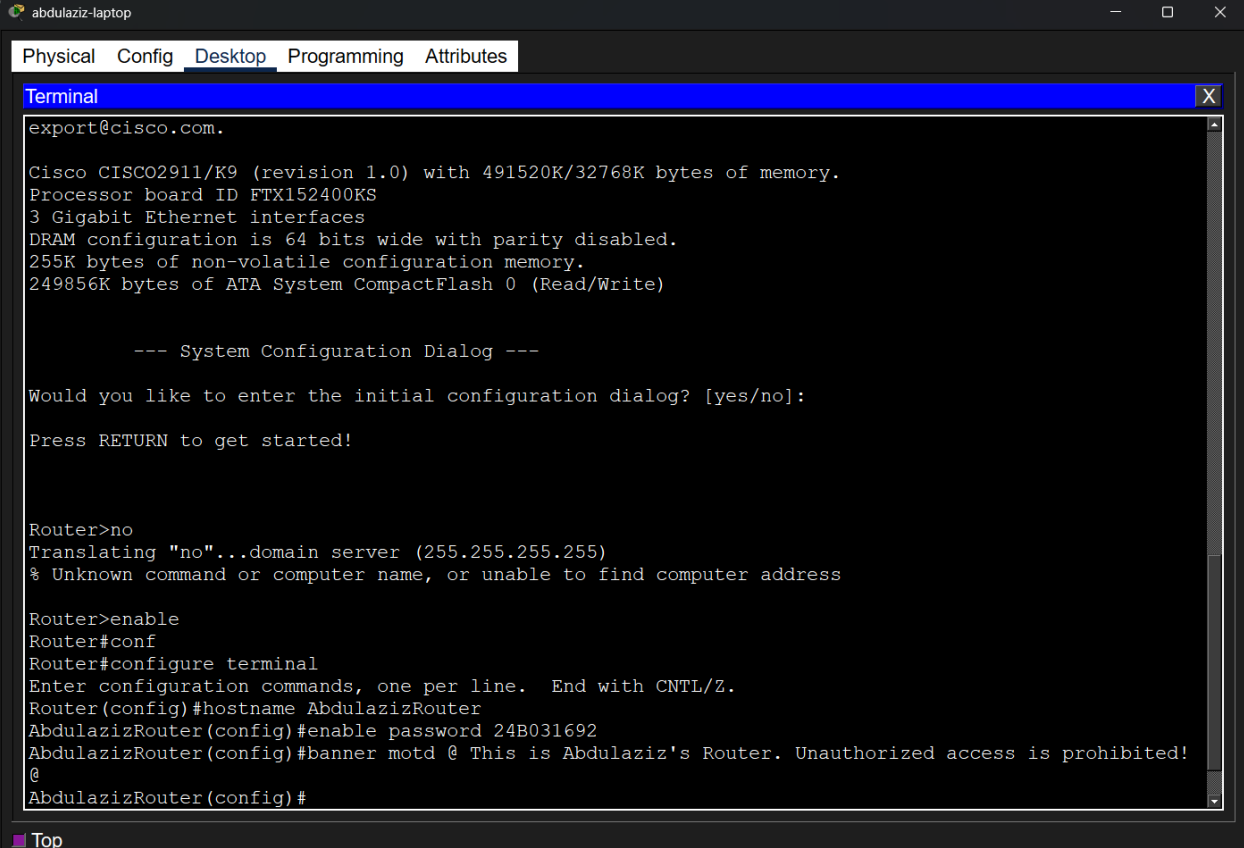
Username: Bakhramov
Password:
AbdulazizSwitch#
```

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16. Router added



17. Basic router configuration

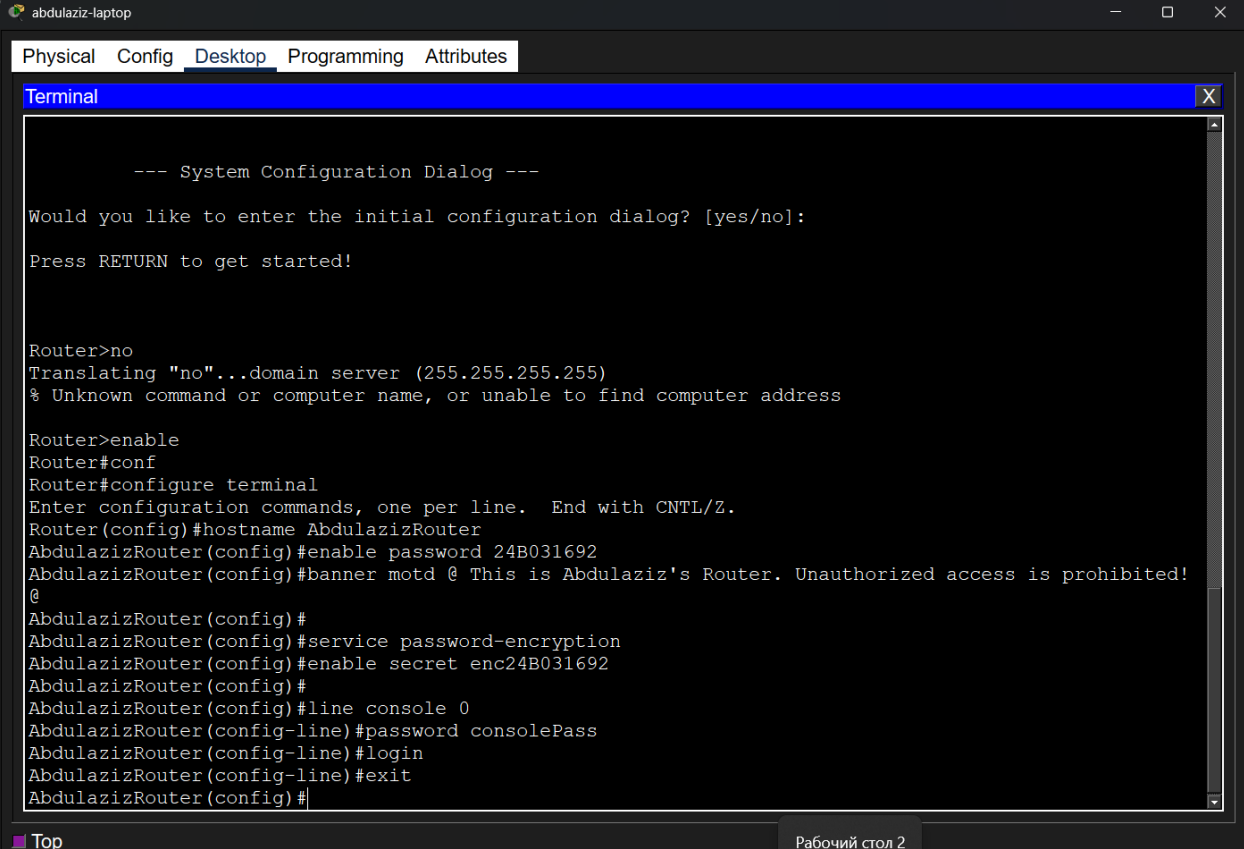


The screenshot shows a terminal window titled 'abdulaziz-laptop' with tabs for Physical, Config, Desktop, Programming, and Attributes. The 'Terminal' tab is active. The terminal output shows the user 'export@cisco.com.' and the router's system information: Cisco CISC02911/K9 (revision 1.0) with 491520K/32768K bytes of memory, Processor board ID FTX152400KS, 3 Gigabit Ethernet interfaces, DRAM configuration is 64 bits wide with parity disabled, 255K bytes of non-volatile configuration memory, and 249856K bytes of ATA System CompactFlash 0 (Read/Write). A 'System Configuration Dialog' asks if the user wants to enter the initial configuration dialog, with 'no' selected. The user then enters 'enable' to enter privileged mode, followed by 'configure terminal' to enter configuration mode. In configuration mode, the user sets the hostname to 'AbdulazizRouter', enables password encryption with 'enable password 24B031692', and sets a MOTD banner: '@ This is Abdulaziz's Router. Unauthorized access is prohibited!'. The prompt returns to 'AbdulazizRouter(config)#'.

```
export@cisco.com.  
  
Cisco CISC02911/K9 (revision 1.0) with 491520K/32768K bytes of memory.  
Processor board ID FTX152400KS  
3 Gigabit Ethernet interfaces  
DRAM configuration is 64 bits wide with parity disabled.  
255K bytes of non-volatile configuration memory.  
249856K bytes of ATA System CompactFlash 0 (Read/Write)  
  
--- System Configuration Dialog ---  
  
Would you like to enter the initial configuration dialog? [yes/no]:  
  
Press RETURN to get started!  
  
Router>no  
Translating "no"...domain server (255.255.255.255)  
% Unknown command or computer name, or unable to find computer address  
  
Router>enable  
Router#conf  
Router#configure terminal  
Enter configuration commands, one per line. End with CNTL/Z.  
Router(config)#hostname AbdulazizRouter  
AbdulazizRouter(config)#enable password 24B031692  
AbdulazizRouter(config)#banner motd @ This is Abdulaziz's Router. Unauthorized access is prohibited!  
@  
AbdulazizRouter(config)#
```

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18. Console line configuration

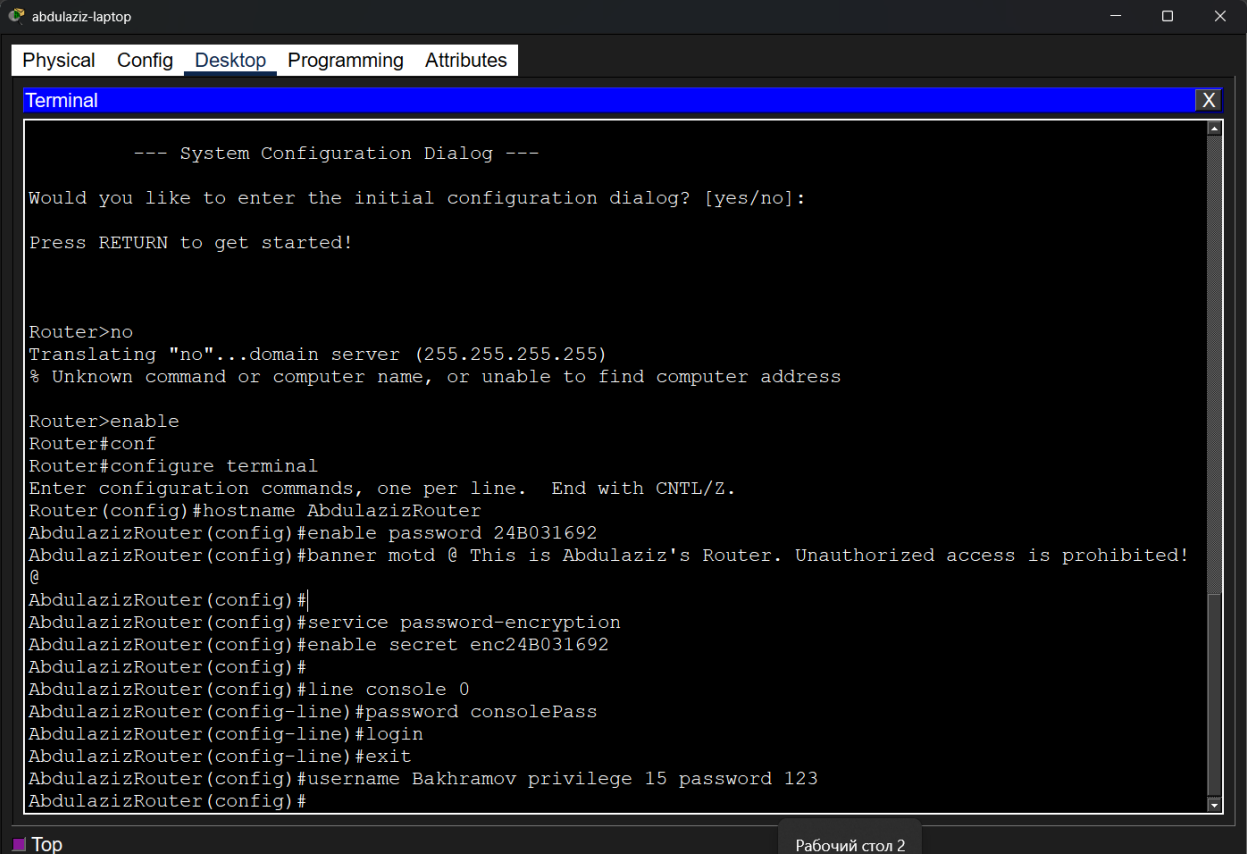


The screenshot shows the same terminal window as in the previous image, but with additional configuration steps. After setting the MOTD banner, the user enters 'service password-encryption' to encrypt passwords, followed by 'enable secret enc24B031692' to set an encrypted enable password. Then, the user enters 'line console 0' to enter line configuration mode for the console. In line configuration mode, the user sets the password to 'consolePass' with 'password consolePass', sets the login prompt with 'login', and exits line configuration mode with 'exit'. The prompt returns to 'AbdulazizRouter(config)#'.

```
AbdulazizRouter(config)#  
AbdulazizRouter(config)#service password-encryption  
AbdulazizRouter(config)#enable secret enc24B031692  
AbdulazizRouter(config)#  
AbdulazizRouter(config)#line console 0  
AbdulazizRouter(config-line)#password consolePass  
AbdulazizRouter(config-line)#login  
AbdulazizRouter(config-line)#exit  
AbdulazizRouter(config)#
```

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19. Creating user account



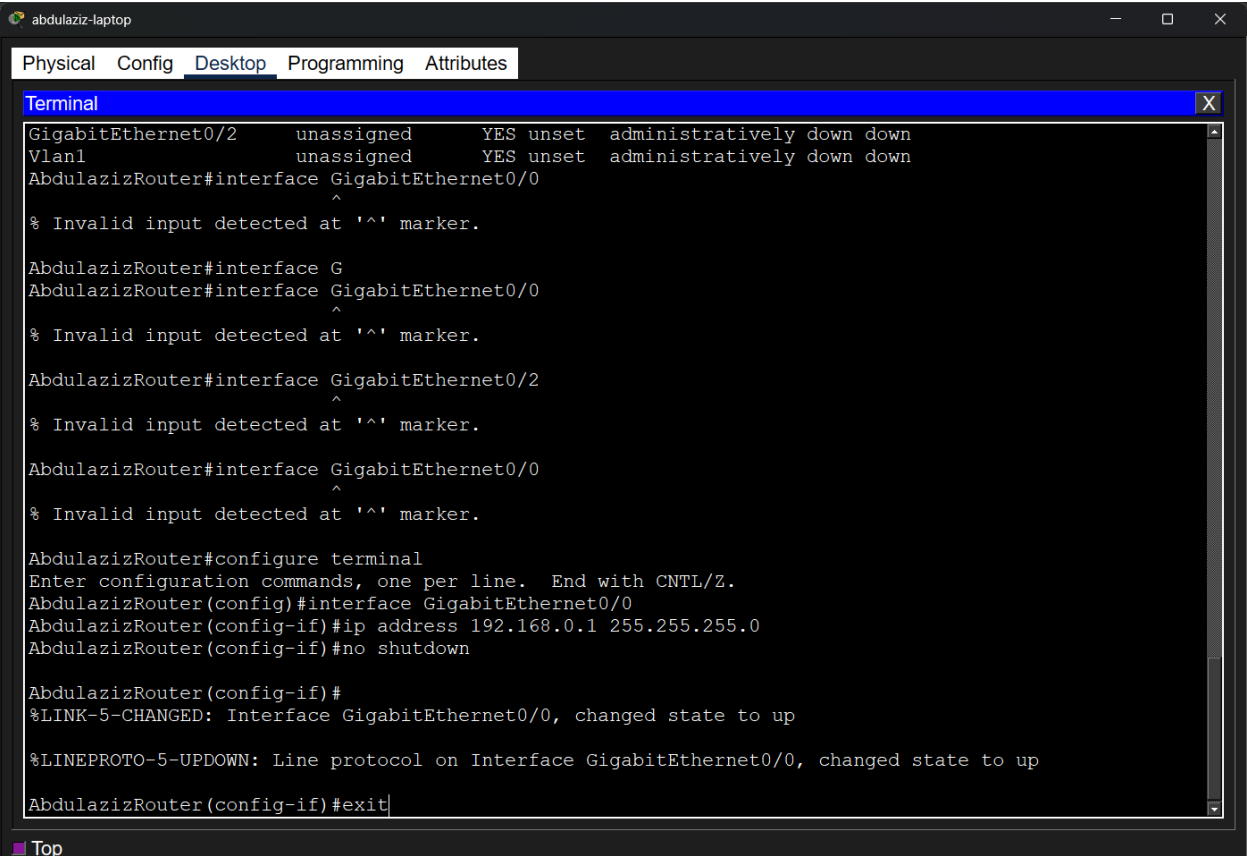
```
abdulaziz-laptop
Physical Config Desktop Programming Attributes
Terminal
--- System Configuration Dialog ---
Would you like to enter the initial configuration dialog? [yes/no]:
Press RETURN to get started!

Router>no
Translating "no"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer address

Router>enable
Router#conf
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname AbdulazizRouter
AbdulazizRouter(config)#enable password 24B031692
AbdulazizRouter(config)#banner motd @ This is Abdulaziz's Router. Unauthorized access is prohibited!
@
AbdulazizRouter(config)#
AbdulazizRouter(config)#service password-encryption
AbdulazizRouter(config)#enable secret enc24B031692
AbdulazizRouter(config)#
AbdulazizRouter(config)#line console 0
AbdulazizRouter(config-line)#password consolePass
AbdulazizRouter(config-line)#login
AbdulazizRouter(config-line)#exit
AbdulazizRouter(config)#username Bakhramov privilege 15 password 123
AbdulazizRouter(config)#
```

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20. Configuring IP Address on Router Interface



```
abdulaziz-laptop
Physical Config Desktop Programming Attributes
Terminal
GigabitEthernet0/2      unassigned      YES unset  administratively down down
Vlan1                  unassigned      YES unset  administratively down down
AbdulazizRouter#interface GigabitEthernet0/0
^
% Invalid input detected at '^' marker.

AbdulazizRouter#interface G
AbdulazizRouter#interface GigabitEthernet0/0
^
% Invalid input detected at '^' marker.

AbdulazizRouter#interface GigabitEthernet0/2
^
% Invalid input detected at '^' marker.

AbdulazizRouter#interface GigabitEthernet0/0
^
% Invalid input detected at '^' marker.

AbdulazizRouter#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
AbdulazizRouter(config)#interface GigabitEthernet0/0
AbdulazizRouter(config-if)#ip address 192.168.0.1 255.255.255.0
AbdulazizRouter(config-if)#no shutdown

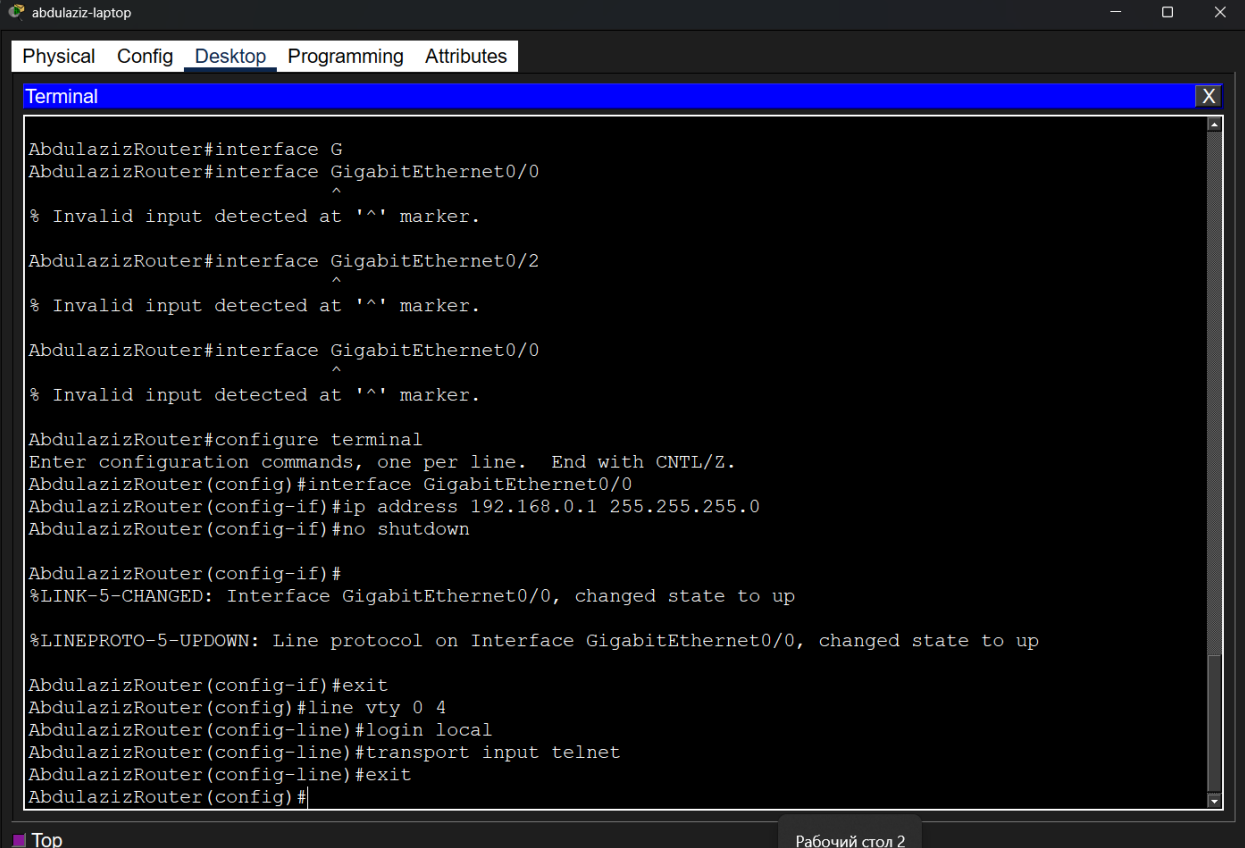
AbdulazizRouter(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

AbdulazizRouter(config-if)#exit
```

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21. Configuring Remote Access (Telnet)



```
abdulaziz-laptop
Physical Config Desktop Programming Attributes
Terminal
AbdulazizRouter#interface G
AbdulazizRouter#interface GigabitEthernet0/0
^
% Invalid input detected at '^' marker.

AbdulazizRouter#interface GigabitEthernet0/2
^
% Invalid input detected at '^' marker.

AbdulazizRouter#interface GigabitEthernet0/0
^
% Invalid input detected at '^' marker.

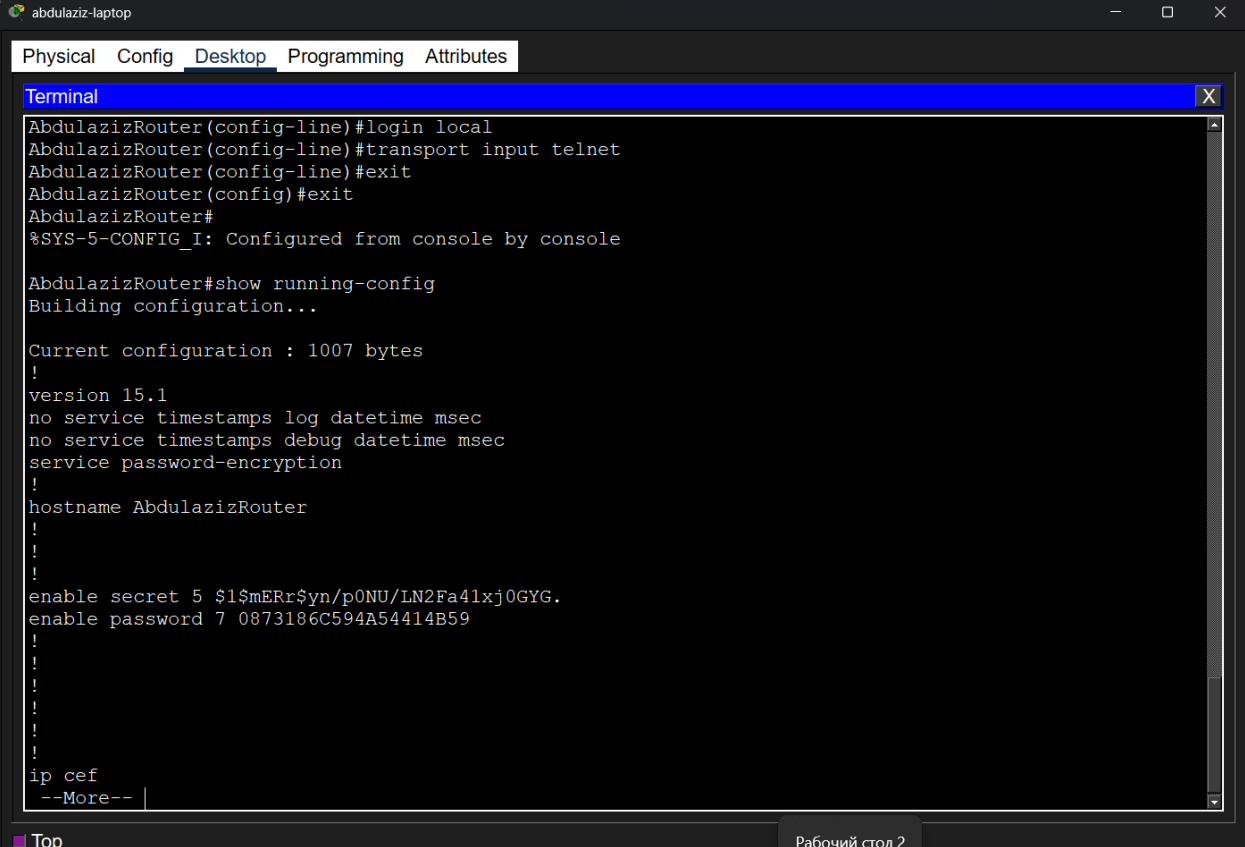
AbdulazizRouter#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
AbdulazizRouter(config)#interface GigabitEthernet0/0
AbdulazizRouter(config-if)#ip address 192.168.0.1 255.255.255.0
AbdulazizRouter(config-if)#no shutdown

AbdulazizRouter(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

AbdulazizRouter(config-if)#exit
AbdulazizRouter(config)#line vty 0 4
AbdulazizRouter(config-line)#login local
AbdulazizRouter(config-line)#transport input telnet
AbdulazizRouter(config-line)#exit
AbdulazizRouter(config)#
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```

22. Verify the configurations

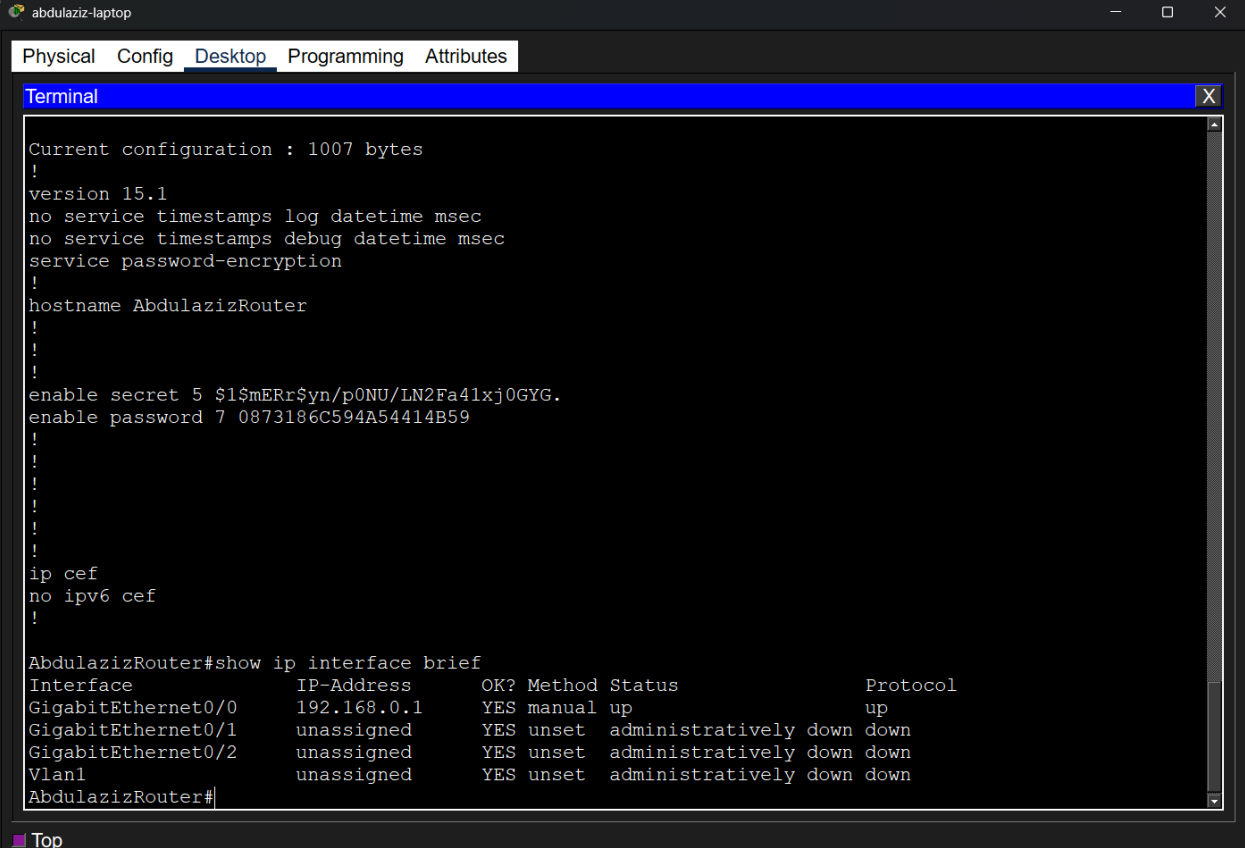


```
abdulaziz-laptop
Physical Config Desktop Programming Attributes
Terminal
AbdulazizRouter(config-line)#login local
AbdulazizRouter(config-line)#transport input telnet
AbdulazizRouter(config-line)#exit
AbdulazizRouter(config)#exit
AbdulazizRouter#
%SYS-5-CONFIG_I: Configured from console by console

AbdulazizRouter#show running-config
Building configuration...

Current configuration : 1007 bytes
!
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname AbdulazizRouter
!
!
!
enable secret 5 $1$mERr$yn/p0NU/LN2Fa41xj0GYG.
enable password 7 0873186C594A54414B59
!
!
!
!
!
ip cef
--More--
Top Рабочий стол 2
```

23. Verify interface status and IP addresses



The screenshot shows a terminal window titled 'abdulaziz-laptop' with tabs for Physical, Config, Desktop, Programming, and Attributes. The 'Terminal' tab is active, displaying the following text:

```
Current configuration : 1007 bytes
!
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname AbdulazizRouter
!
!
!
enable secret 5 $1$mERr$yn/p0NU/LN2Fa41xj0GYG.
enable password 7 0873186C594A54414B59
!
!
!
!
!
ip cef
no ipv6 cef
!
```

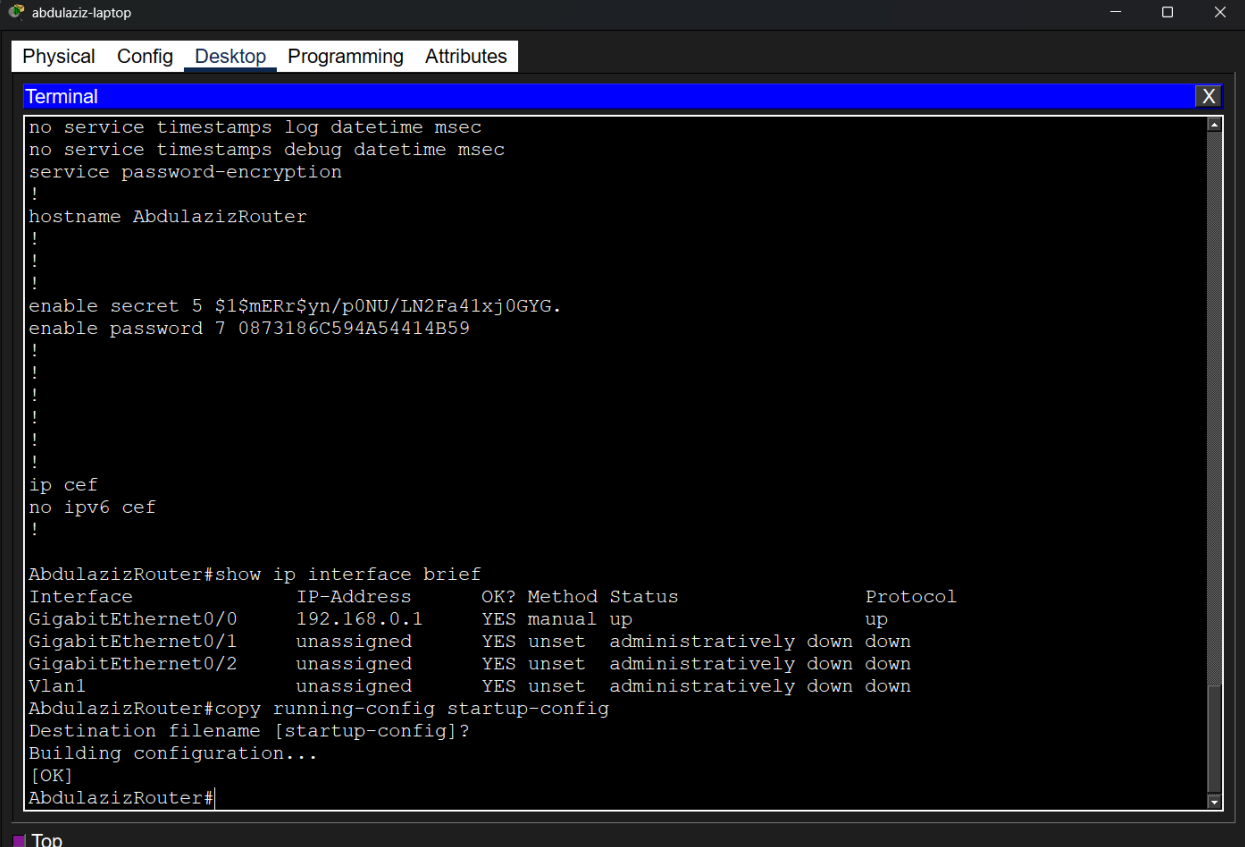
Below the configuration, the command 'AbdulazizRouter#show ip interface brief' is executed, resulting in the following table:

Interface	IP-Address	OK?	Method	Status	Protocol
GigabitEthernet0/0	192.168.0.1	YES	manual	up	up
GigabitEthernet0/1	unassigned	YES	unset	administratively down	down
GigabitEthernet0/2	unassigned	YES	unset	administratively down	down
Vlan1	unassigned	YES	unset	administratively down	down

The prompt 'AbdulazizRouter#' is visible at the bottom of the terminal output.

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24. Saving router configurations



The screenshot shows the same terminal window as in the previous image, but with additional commands and output. The configuration is repeated, followed by the command 'AbdulazizRouter#show ip interface brief' which shows the same interface status table. Then, the command 'AbdulazizRouter#copy running-config startup-config' is entered, followed by the prompt 'Destination filename [startup-config]?'. The user presses Enter, and the output 'Building configuration...' is displayed. Finally, the user presses Enter again, and the prompt 'AbdulazizRouter#' is shown.

```
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname AbdulazizRouter
!
!
!
enable secret 5 $1$mERr$yn/p0NU/LN2Fa41xj0GYG.
enable password 7 0873186C594A54414B59
!
!
!
!
!
ip cef
no ipv6 cef
!
```

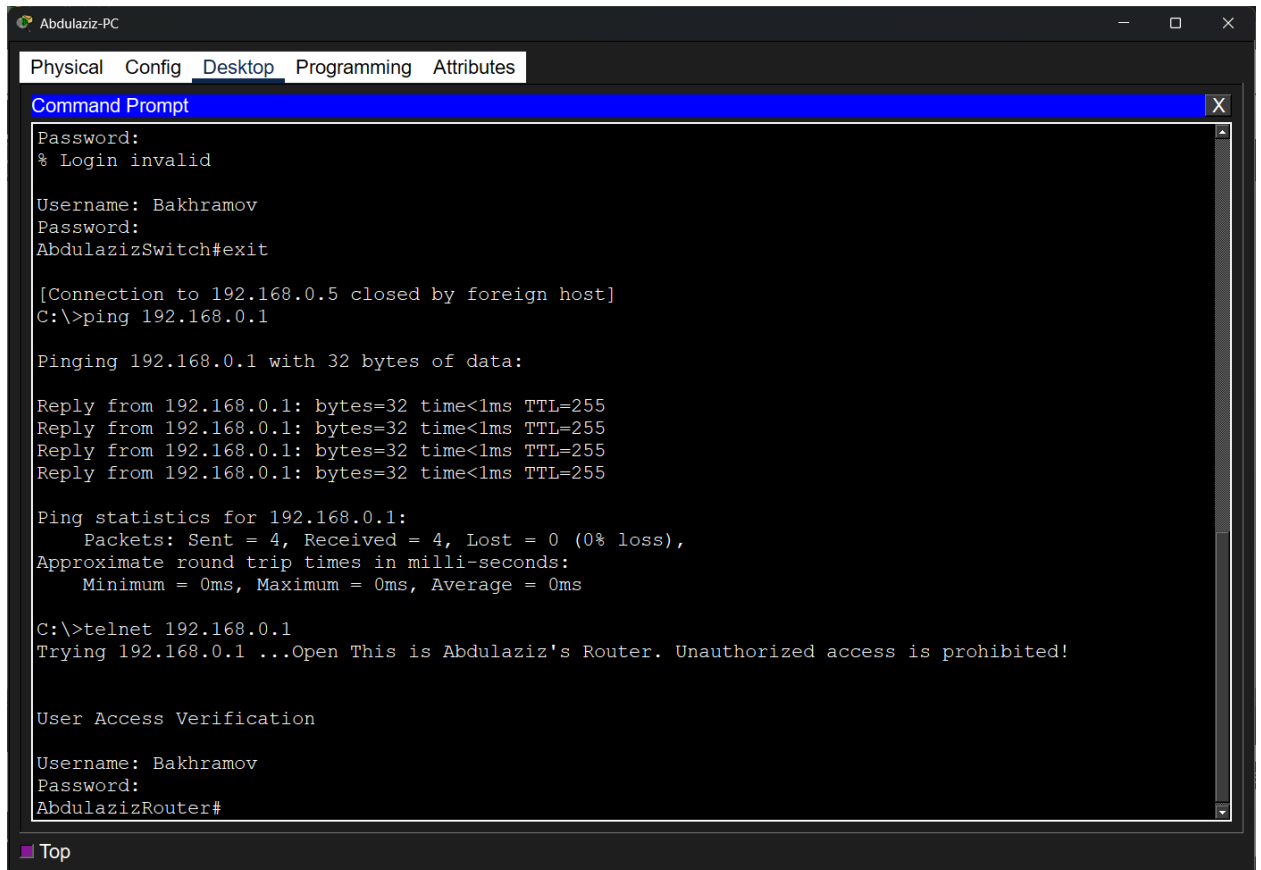
AbdulazizRouter#show ip interface brief

Interface	IP-Address	OK?	Method	Status	Protocol
GigabitEthernet0/0	192.168.0.1	YES	manual	up	up
GigabitEthernet0/1	unassigned	YES	unset	administratively down	down
GigabitEthernet0/2	unassigned	YES	unset	administratively down	down
Vlan1	unassigned	YES	unset	administratively down	down

AbdulazizRouter#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
AbdulazizRouter#

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25. Testing Router



```
Abdulaziz-PC
Physical Config Desktop Programming Attributes
Command Prompt
Password:
% Login invalid

Username: Bakhrarov
Password:
AbdulazizSwitch#exit

[Connection to 192.168.0.5 closed by foreign host]
C:\>ping 192.168.0.1

Pinging 192.168.0.1 with 32 bytes of data:

Reply from 192.168.0.1: bytes=32 time<1ms TTL=255
Reply from 192.168.0.1: bytes=32 time<1ms TTL=255
Reply from 192.168.0.1: bytes=32 time<1ms TTL=255
Reply from 192.168.0.1: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>telnet 192.168.0.1
Trying 192.168.0.1 ...Open This is Abdulaziz's Router. Unauthorized access is prohibited!

User Access Verification

Username: Bakhrarov
Password:
AbdulazizRouter#

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```

Questions:

1. To move from User Mode to Privileged Mode, you must enter the "enable" command
2. The "enable password" command stores the password in clear, readable text. The "enable secret" command is a more secure option that encrypts the password, and it has a higher priority than the standard enable password
3. To configure an IP address on the VLAN1 interface, you must enter the interface configuration mode, assign the IP and subnet mask, and then administratively enable the interface
Switch(config)# interface Vlan1
Switch(config-if)# ip address 192.168.0.5 255.255.255.0
Switch(config-if)# no shutdown
4. The "running-config" is the current configuration stored in RAM, which is lost if the device reboots. The "startup-config" is the configuration stored in NVRAM that is loaded when the device boots up. To save the changes, use the command "copy running-config startup-config" or the short form "write memory" (wr mem).

