

ITN (Version 7.00) Final PT Skills Assessment (PTSA) Exam Answers

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December 20, 2019

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Topology



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Device Names Table

You will receive one of three possible scenarios. In order to use the logical topology diagram that is provided with the instructions, use the device names in the Device Names Table.

Topology Diagram Name	Your Scenario Name
R1	Router-A
S1	Switch-A
PC-A	Host-A

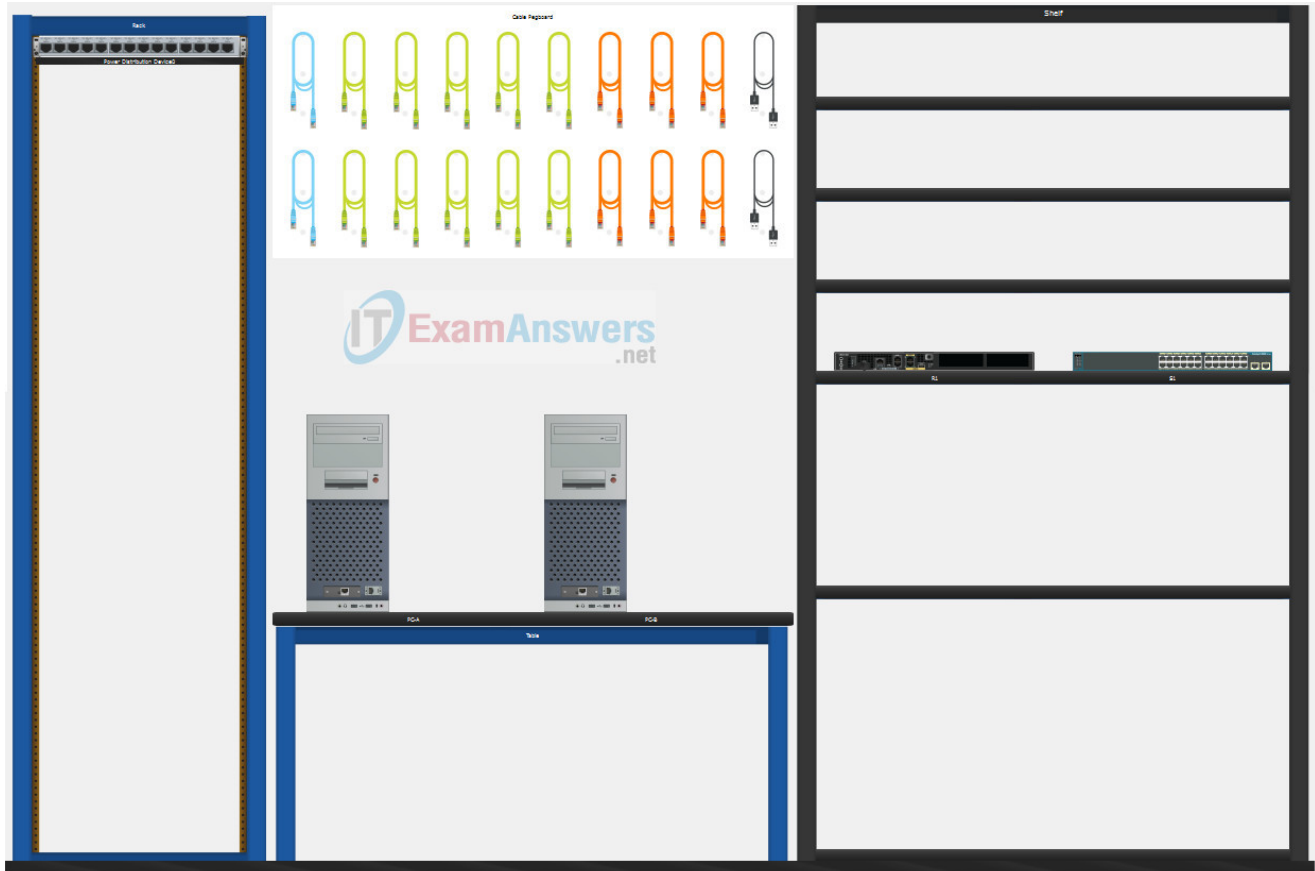
Topology Diagram Name	Your Scenario Name
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PC-B	Host-B
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Addressing Requirements Table

Item	Requirements
Network Address	172.16.1.0/24
LAN 1 subnet host requirements	60
LAN 2 subnet host requirements	20
Router-A G0/0/1	First host address in LAN 1 subnet
Router-A G0/0/0	First host address in LAN 2 subnet
Switch-A SVI	Second host address in LAN 1 subnet
User-A	Last host address in LAN 1 subnet
User-B	Last host address in LAN 2 subnet

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A few things to keep in mind while completing this activity:

1. Do not use the browser **Back** button or close or reload any exam windows during the exam.
2. Do not close Packet Tracer when you are done. It will close automatically.
3. Click the **Submit Assessment** button in the browser window to submit your work.

Assessment Objectives

- **Part 1: Build the Network**
- **Part 2: Develop an IP Addressing Scheme**
- **Part 3: Configure Basic Device Settings**
- **Part 4: Configure Security Settings on Router-A and Switch-A**
- **Part 5: Configure the Hosts and Verify Connectivity**

Instructions

In this assessment you will configure the **Router-A** router and **Switch-A** switch, as you have done in the activities in this course. You will also connect two PCs using a switch and a router that are in the main wiring closet. You will subnet the **172.16.1.0/24** network to provide IPv4 addresses for two subnets that will support the required number of hosts. The larger subnet (LAN 1) requires **60** hosts and the smaller subnet (LAN 2) requires **20** hosts.

No **subnet calculators** may be used.

Part 1: Build the Network

- a. Build the network according to the logical topology by placing the required equipment in the wiring closet equipment rack.
- b. Cable the network devices in the closet as shown in the topology diagram.
- c. Connect the hosts as shown in the topology diagram.

Part 2: Develop an IP Addressing Scheme

In this part of the assessment you will develop an IP addressing scheme. You will subnet an IPv4 network to create two subnets with the required number of hosts. You will also subnet an IPv6 network. You will then assign the addresses according to the requirements below.

Work with the following information:

- IPv4 Network: **172.16.1.0/24**
- Required number of hosts in IPv4 LAN 1: **60**
- Required number of hosts in IPv4 LAN 2: **20**

- a. Record your subnet assignments according to the following requirements.

- 1) Assign the first IPv4 address of each subnet to a router interface

- LAN 1 is hosted on **Router-A Go/o/1**
- LAN 2 is hosted on **Router-A Go/o/o**

- 2) Assign the last IPv4 address of each subnet to the PC NIC.

- 3) Assign the second IPv4 address of LAN 1 to **Switch-A** SVI.

Part 3: Configure Basic Device Settings

Network devices must be configured over a direct console connection.

Step 1: Configure Basic Settings

- a. Disable DNS lookup on **Router-A** and **Switch-A**
- b. Configure router hostname using the name **Router-A**.
- c. Configure switch hostname using the name **Switch-A**.
- d. Configure an appropriate banner on **Router-A** and **Switch-A**.
- e. Allow console logins with the password **C@nsPassw!**

Step 2: Configure Interfaces

- a. Configure **Router-A** Go/o/o and Go/o/1 interfaces using the addressing from the previous part of this assessment:

- Interface description
- IPv4 address / subnet mask

b. Configure the **Switch-A** VLAN 1 SVI interface using the addressing from the previous part of this assessment:

- Interface description
- IPv4 address / subnet mask
- The switch should be reachable from devices on other networks.

Part 4: Configure Security Settings on Router-A and Switch-A

Step 1: Configure enhanced password security

- Configure **NoOneShouldKnow** as the encrypted privileged EXEC password
- Encrypt all plaintext passwords
- Set minimum password length to **10** on **Router-A**.

Step 2: Configure SSH on Router-A and Switch-A

- Configure **netsec.com** as the domain name
- Configure a local user netadmin with the encrypted password **Ci\$co12345**
- Set login on vty lines to use local database.
- Configure the vty lines to accept SSH access only.
- Generate an RSA crypto key using 1024 bits modulus.

Step 3: Secure switch ports on Switch-A

- Shut down **all** unused ports on **Switch-A**.
- Enter descriptions for all unused switch ports to indicate that they are intentionally shutdown.

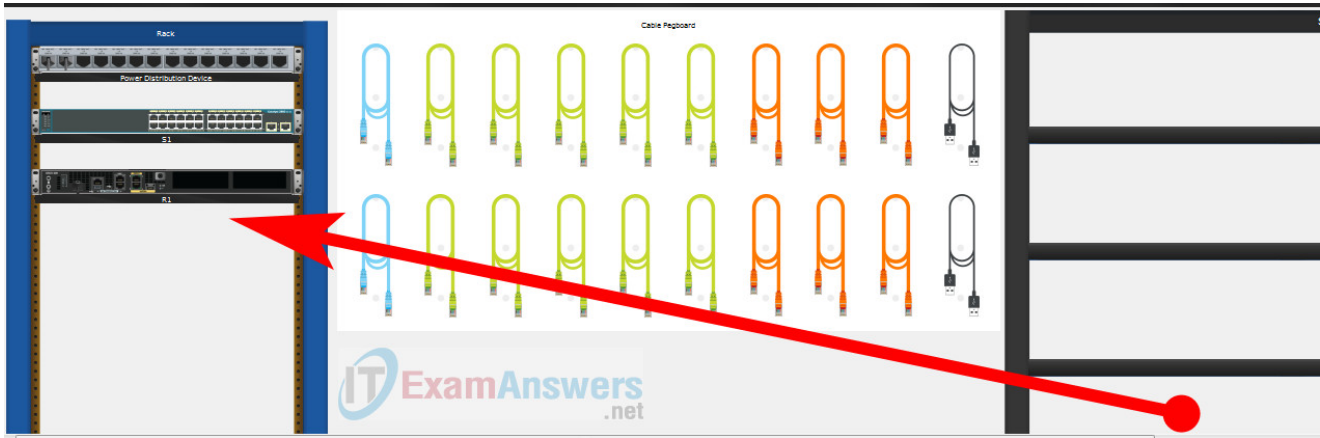
Part 5: Configure the Hosts and Verify Connectivity

Configure both hosts with the IPv4 addresses that were assigned in Part 2 of this assessment.
ID: 120

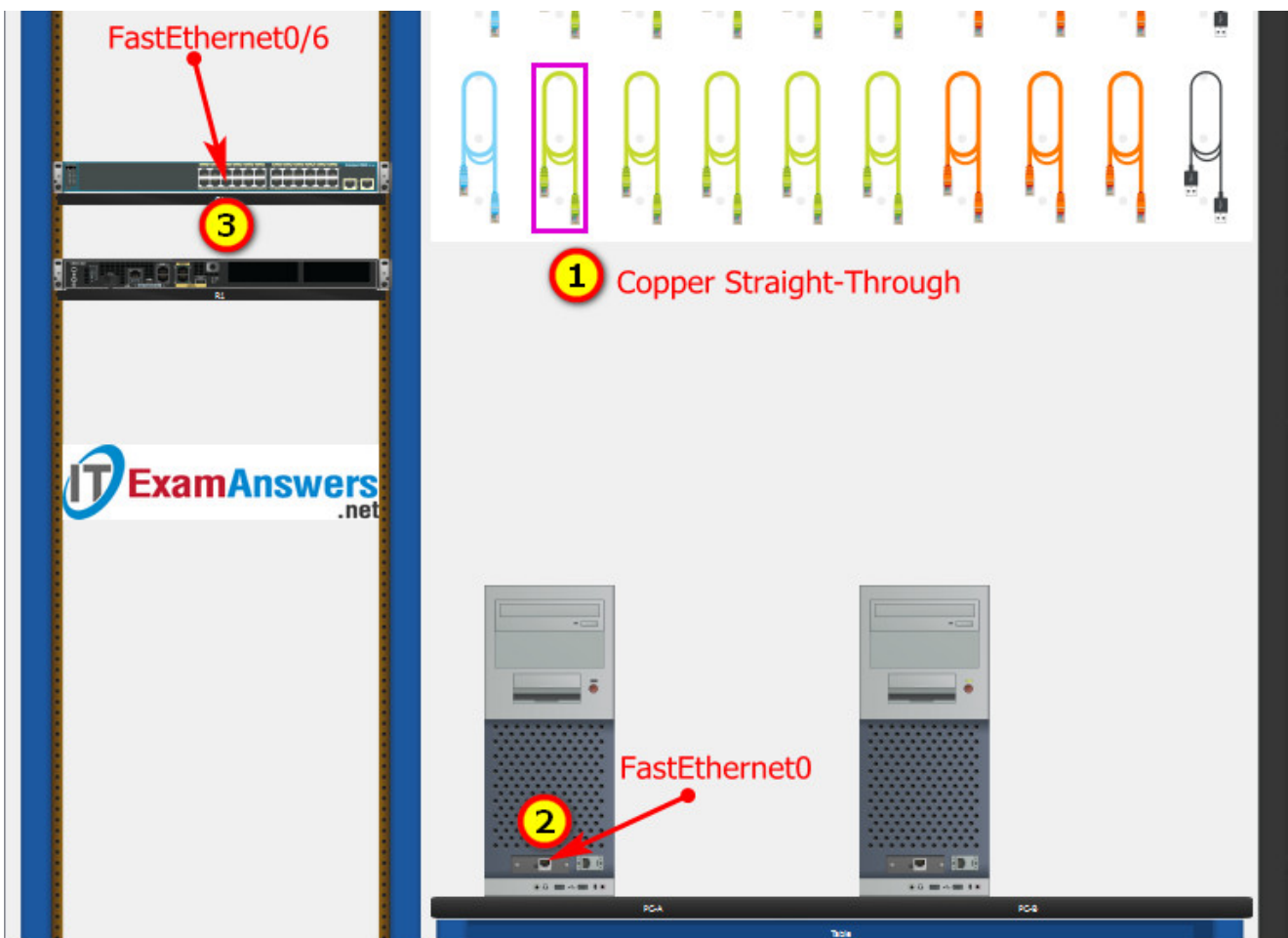
Answers Key - 100% Score

Part 1: Build the Network

Placing Switch Switch-A and Router Router-A to wiring closet equipment rack.

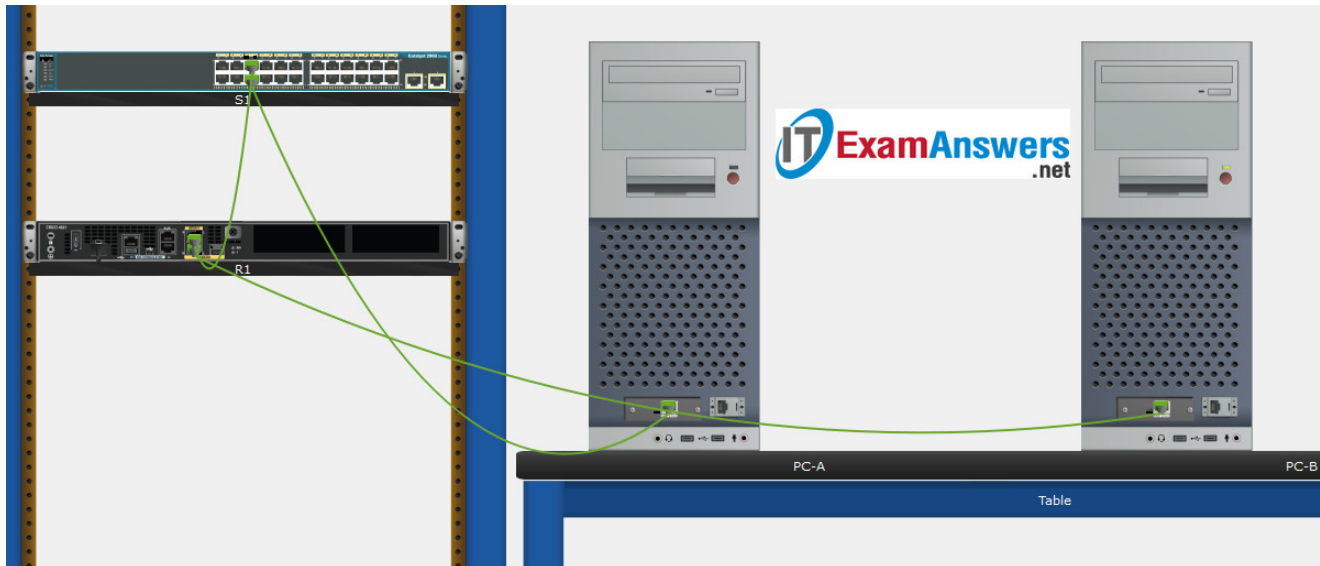


Using **Copper Straight-Through** cable to connect **User-A** (FastEthernet0 port) and **Switch-A** (FastEthernet0/6 port)

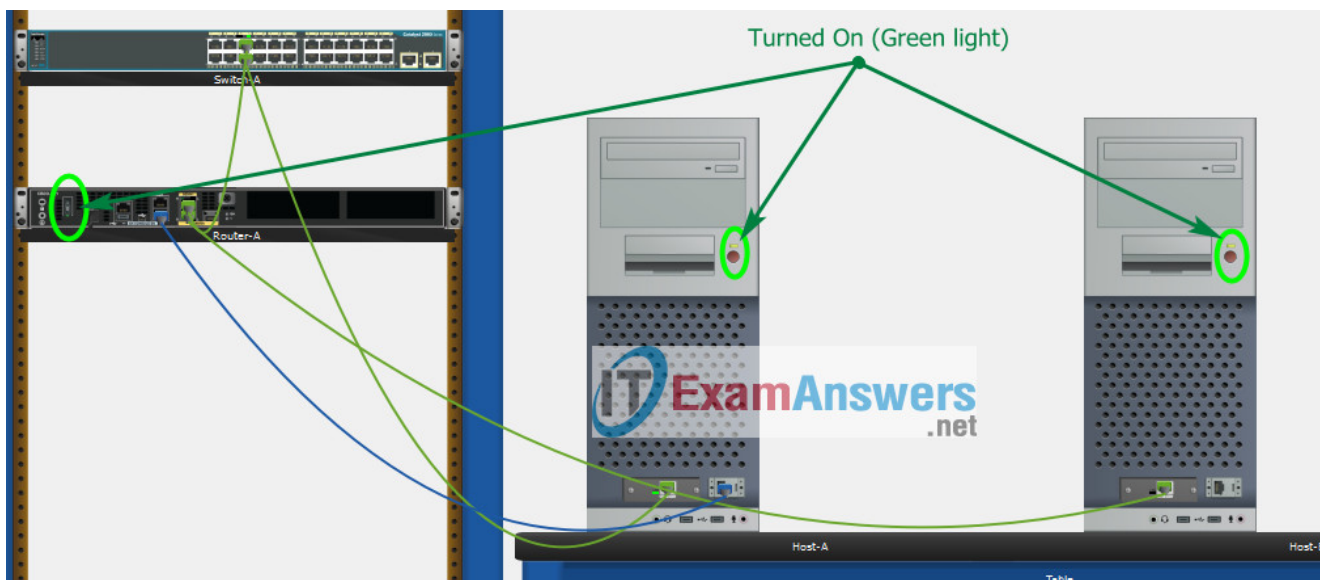


Same as above, using **Copper Straight-Through** cable to connect all devices as shown in the topology diagram.





Turn-on PCs and Router Router-A

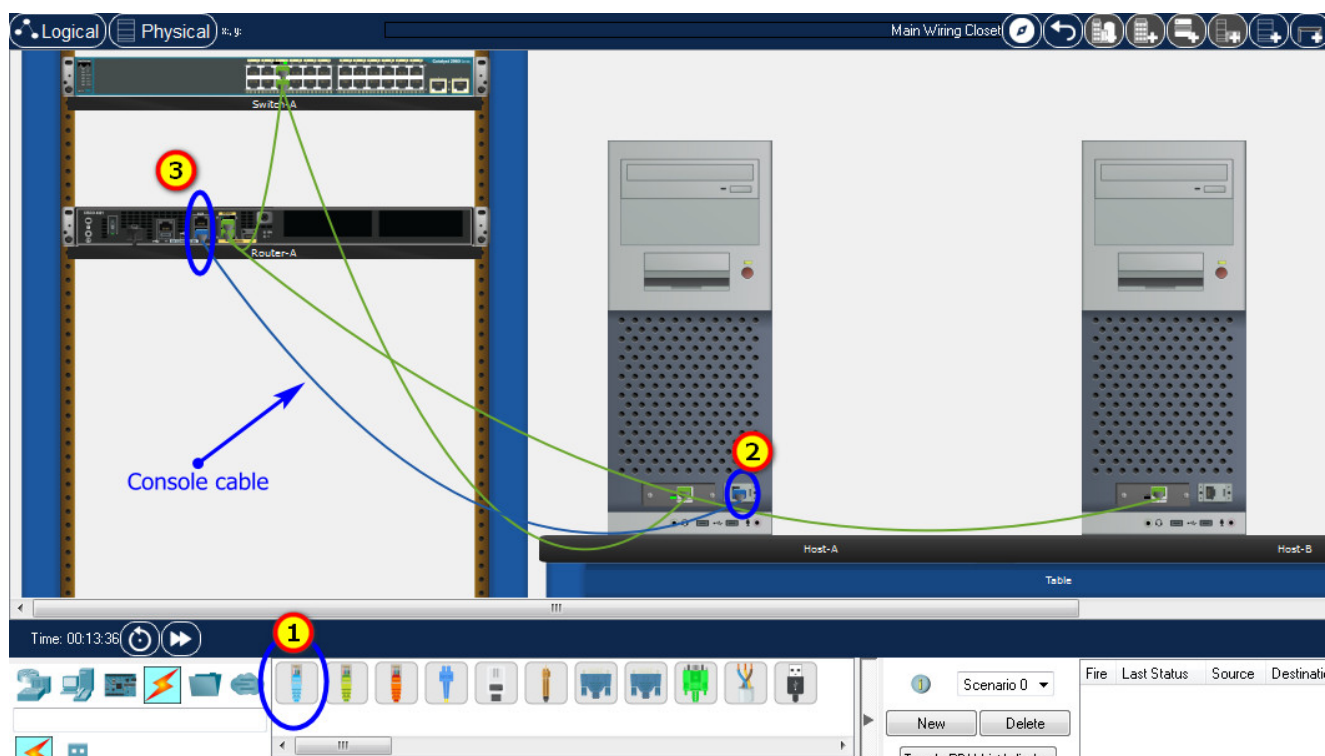


Part 2: Develop an IP Addressing Scheme

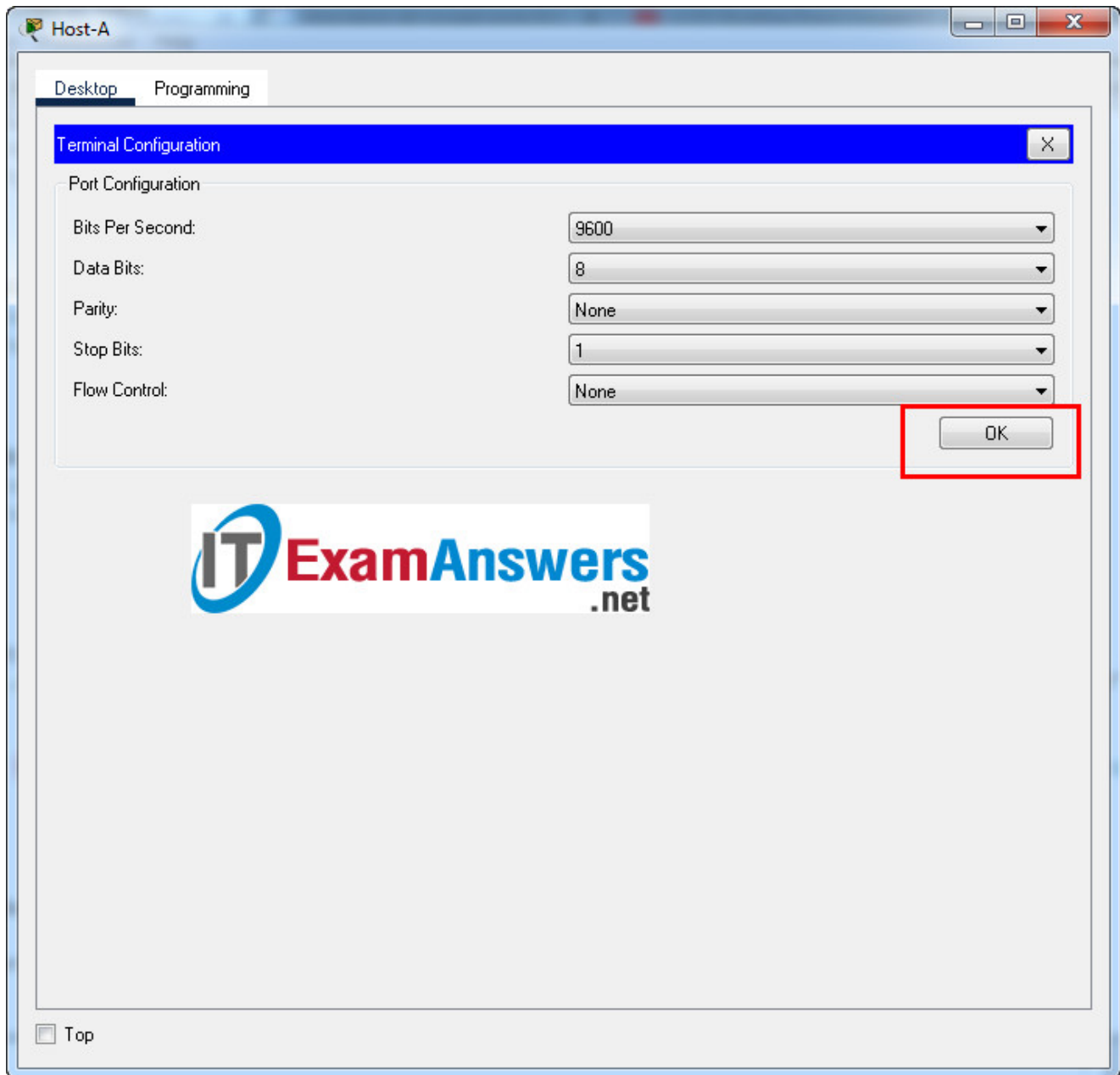
Item	Requirements	IPv4 Address
Network Address	172.16.1.0/24	
LAN 1 subnet host requirements	60	172.16.1.0/26 SM: 255.255.255.192
LAN 2 subnet host requirements	20	172.16.1.64/27 SM: 255.255.255.224
Router-A G0/0/1	First host address in LAN 1 subnet	172.16.1.1

Item	Requirements	IPv4 Address
Router-A G0/0/0	First host address in LAN 2 subnet	172.16.1.65
Switch-A SVI	Second host address in LAN 1 subnet	172.16.1.2
User-A	Last host address in LAN 1 subnet	172.16.1.62
User-B	Last host address in LAN 2 subnet	172.16.1.94

Using line console to connect User-A and Router



Click to User-A --> Terminal app --> click OK



Router Router-A configuration script

```
enable
configure terminal
no ip domain-lookup
hostname Router-A
banner motd #Unauthorized access to this device is prohibited!#

interface g0/0/0
description Connect to Subnet B
ip address 172.16.1.65 255.255.255.224
no shutdown
exit

interface g0/0/1
description Connect to Subnet A
ip address 172.16.1.1 255.255.255.192
no shutdown
exit

enable secret NoOneShouldKnow
service password-encryption
security passwords min-length 10

ip domain-name netsec.com
username netadmin secret Ci$co12345

line console 0
password C@nsPassw!
login
exit

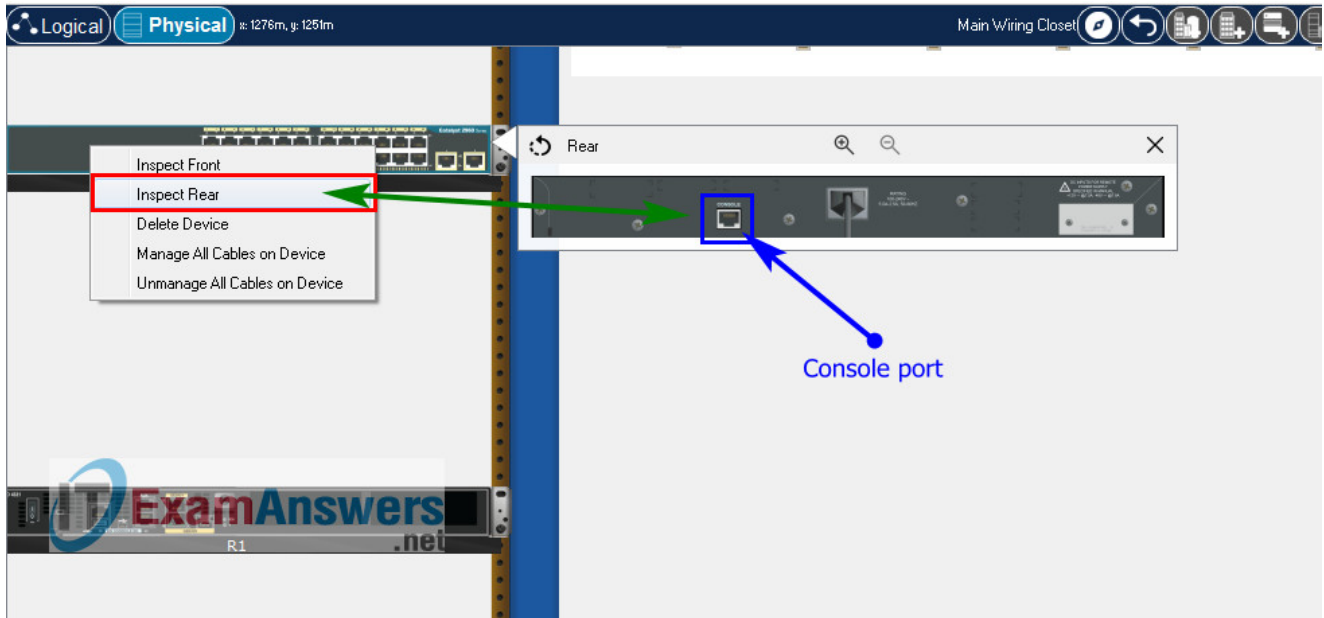
line vty 0 15
transport input ssh
login local
exit

crypto key generate rsa
1024
exit
copy running-config startup-config
```

Configuration for Switch-A

Then, using Console cable to connect User-B and Switch

To show Console port on Switch, **Right click** Switch --> **Inspect Rear** --> **Console port**



Switch Switch-A configuration script

```

enable
configure terminal
no ip domain-lookup
hostname Switch-A
banner motd #Unauthorized access to this device is prohibited!#

interface vlan 1
description Switch Subnet A
ip address 172.16.1.2 255.255.255.192
no shutdown
exit

ip default-gateway 172.16.1.1

enable secret NoOneShouldKnow
service password-encryption

ip domain-name netsec.com
username netadmin secret Ci$co12345

line console 0
password C@nsPassw!
login
exit

line vty 0 15
transport input ssh
login local
exit

crypto key generate rsa
1024

int range f0/1 - 4, f0/7 - 24, g0/1 - 2
description Unused switch ports
shutdown

end
copy running-config startup-config

```

Part 5: Configure the Hosts and Verify Connectivity

On PCs, go to **Desktop** tab --> **IP Configuration** menu

PC-A Network Configuration

IPv4 Address	172.16.1.62
Subnet Mask	255.255.255.192
IPv4 Default Gateway	172.16.1.1

PC-B Network Configuration

IPv4 Address	172.16.1.94
Subnet Mask	255.255.255.224
IPv4 Default Gateway	172.16.1.65

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