**School of Information Technologies and Engineering, ADA University**

**CSCI2303 – Intro to Computer Networks**

**Fall 2024 – 10/7/2024**

**Assignment 2 by Laman Panakhova 16882**

**Packet Tracer - Basic Switch and End Device Configuration**

**Addressing Table**

| **Device** | **Interface** | **IP Address** | **Subnet Mask** |
| --- | --- | --- | --- |
| Room-145 | VLAN 1 | 128.107.20.10 | 255.255.255.0 |
| Room-146 | VLAN 1 | 128.107.20.15 | 255.255.255.0 |
| Manager | NIC | 128.107.20.25 | 255.255.255.0 |
| Reception | NIC | 128.107.20.30 | 255.255.255.0 |

*Blank Line, No additional information*

***Objectives***

*=   Configure hostnames and IP addresses on two Cisco Internetwork Operating System (IOS) switches using the command-line interface (CLI).*

*=   Use Cisco IOS commands to specify or limit access to the device configurations.*

*=   Use IOS commands to save the running configuration.*

*=   Configure two host devices with IP addresses.*

*=   Verify connectivity between the two PC end devices.*

***Scenario***

*As a recently hired LAN technician, your network manager has asked you to demonstrate your ability to configure a small LAN. Your tasks include configuring initial settings on two switches using the Cisco IOS and configuring IP address parameters on host devices to provide end-to-end connectivity. You are to use two switches and two hosts/PCs on a cabled and powered network.*

***Instructions***

*Configure the devices to fulfill the requirements below.*

***Requirements***

*=   Use a console connection to access each switch.*

*=   Name****Room-145****and****Room-146****switches.*

*=   Use the****ADA1234****password for all lines.*

*=   Use the* ***ADAClass*** *secret password.*

*=   Encrypt all clear text passwords.*

*=   Configure an appropriate message-of-the-day (MOTD) banner.*

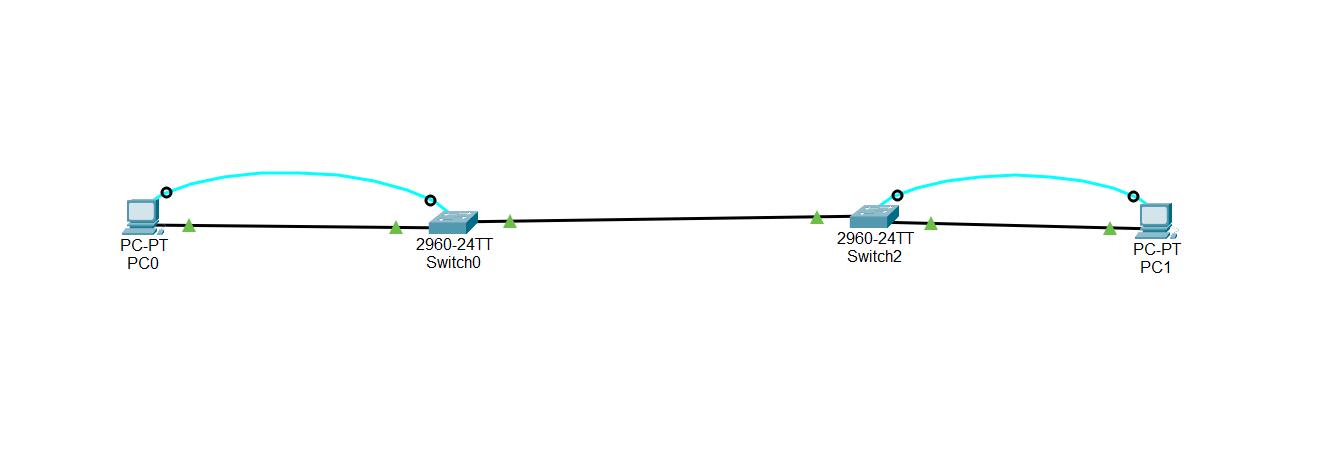
*=   Configure addressing for all devices according to the Addressing Table.*

*=   Save your configurations.*

*=   Verify connectivity between all devices.*

**Steps:**

1. I started with connecting 2 end devices (PC-PT PC0/ PC-PT PC1) with 2 intermediary devices (2960-24TT Switch0/2960-24TT Switch2) in the Cisco Packet Tracer application. The first PC is a manager PC which is connected to switch 0 which will be called Room-145. Similarly, the second PC is a reception PC which is connected to switch 2 which will be called Room-146. Additionally, the switches are connected with the straight-through cable.

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1. We run these commands in CLI of each switch. We change the hostnames and we set the passwords. Also, we change the IP addresses.

A screenshot of a computer

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A screenshot of a computer

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1. Then we access to the PC desktop IP configuration. We set the IP addresses and subnet masks.   
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1. In the end we verify the connectivity by command ping.

A computer screen shot of a black screen

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The display is successful.