Packet Tracer - Basic Switch and End Device Configuration

# Addressing Table

| Device | Interface | IP Address | Subnet Mask |
| --- | --- | --- | --- |
|  | VLAN 1 |  | 255.255.255.0 |
|  | VLAN 1 |  | 255.255.255.0 |
|  | NIC |  | 255.255.255.0 |
|  | NIC |  | 255.255.255.0 |

# 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 **Class-A** and **Class-B**  switches.

**Switch>enable**

**Switch#configure terminal**

**Enter configuration commands, one per line. End with CNTL/Z.**

**Switch(config)#hostname Class-A**

**(also for the Class-B)**

* Use the **R4Xe3** password for all lines.

**Class-A(config)#line console 0**

**Class-A(config-line)#password R4Xe3**

**Class-A(config-line)#login**

**Class-A(config-line)#exit**

**Class-A(config)#line vty 0 15**

**Class-A(config-line)#password R4Xe3**

**Class-A(config-line)#login**

**Class-A(config-line)#enable secret C4aJa**

**(also for the Class-B)**

* Use the  **C4aJa**  secret password.

**Class-A(config-line)#enable secret C4aJa**

**(also for the Class-B)**

* Encrypt all clear text passwords.

**Class-A(config)#service password-encryption**

**(also for the Class-B)**

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

**Class-A(config)#banner motd "Authorized Access Only!"**

**(also for the Class-B)**

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

**Class-A(config)#interface vlan 1**

**Class-A(config-if)#ip address 10.10.10.100 255.255.255.0**

**Class-A(config-if)#no shutdown**

* Save your configurations.

**Class-A#copy running-config startup-config**

**Destination filename [startup-config]?**

**Building configuration...**

**[OK]**

**Class-A#**

* Verify connectivity between all devices

click Command Prompt.

For Class-A:

PC> **ping 10.10.10.150**

PC> **ping 10.10.10.4**

PC> **ping 10.10.10.5**

For Class-B:

PC> **ping 10.10.10.100**

PC> **ping 10.10.10.4**

PC> **ping 10.10.10.5**

**Note:** Click **Check Results** to see your progress. Click **Reset Activity** to generate a new set of requirements. If you click on this before you complete the activity, all configurations will be lost.

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