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## LAB1 - Basic LAN Network (Cisco Packet Tracer)

Course: The Bits and Bytes of Computer Networking (Google)

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### Objective

Connect 3 PCs in a LAN using a Cisco Switch WS-C2960-24TT-L – IOS Version 15.0(2)SE4.

### Configurations

- IPs assigned to each PC
- Interface descriptions (FastEthernet 0/1, 0/2, etc.).
- Configured hostname: SW-LAB1.

### Cisco 2960 – Command Log (Packet Tracer Lab)

#### ***Enter privileged mode:***

```
enable  
show mac address-table
```

#### ***Basic switch configuration:***

```
enable  
configure terminal  
hostname SW-LAB1  
end
```

#### ***Add port descriptions:***

```
enable  
configure terminal  
interface fa0/1  
description Connection to PC-User1 (192.168.1.2)  
exit  
interface fa0/2  
description Connection to PC-User2 (192.168.1.3)  
exit  
interface fa0/3  
description Connection to PC-User3 (192.168.1.4)  
end
```

#### ***Display and configuration:***

```
enable  
show running-config  
copy running-config startup-config
```

## View MAC table:

*show mac address-table*

## Result

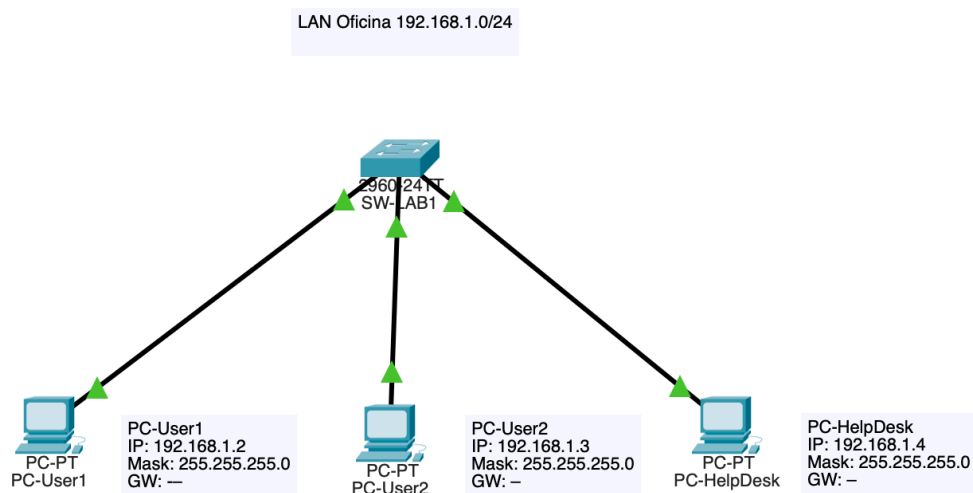
Successful communication between all devices (verified through MAC table and ping test).

## Capture

Includes:

- Network topology image (Packet Tracer).
- Result of the *show mac address-table* command.

### 1. Network Topology in packet Tracer



### 2. Switch MAC address Table

```
SW-LAB1>enable
SW-LAB1#show mac address-table
      Mac Address Table
-----
Vlan    Mac Address      Type        Ports
----    -
1       0001.63ac.5632   DYNAMIC     Fa0/3
1       0001.c739.e15c   DYNAMIC     Fa0/2
1       0090.2b6b.cee6   DYNAMIC     Fa0/1
SW-LAB1#
```