



TRƯỜNG ĐẠI HỌC CÔNG NGHỆ THÔNG TIN - ĐHQG-HCM  
**KHOA MẠNG MÁY TÍNH VÀ TRUYỀN THÔNG**

# INTER-VLAN ROUTING

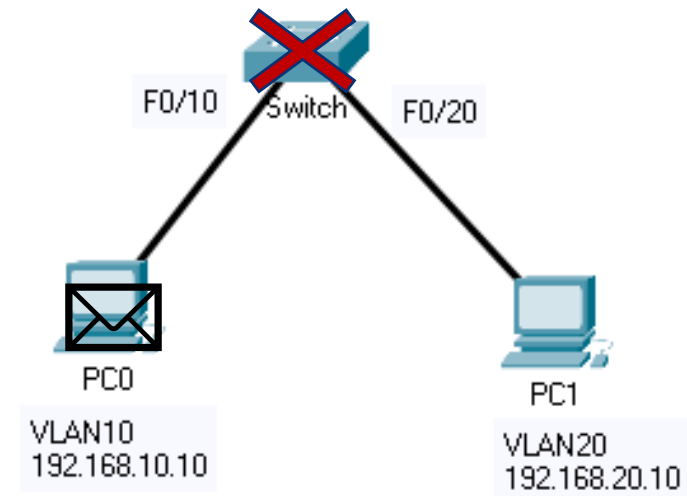
**QUẢN TRỊ MẠNG VÀ HỆ THỐNG**  
Networks and Systems Administration

MSc. Trần Thị Dung



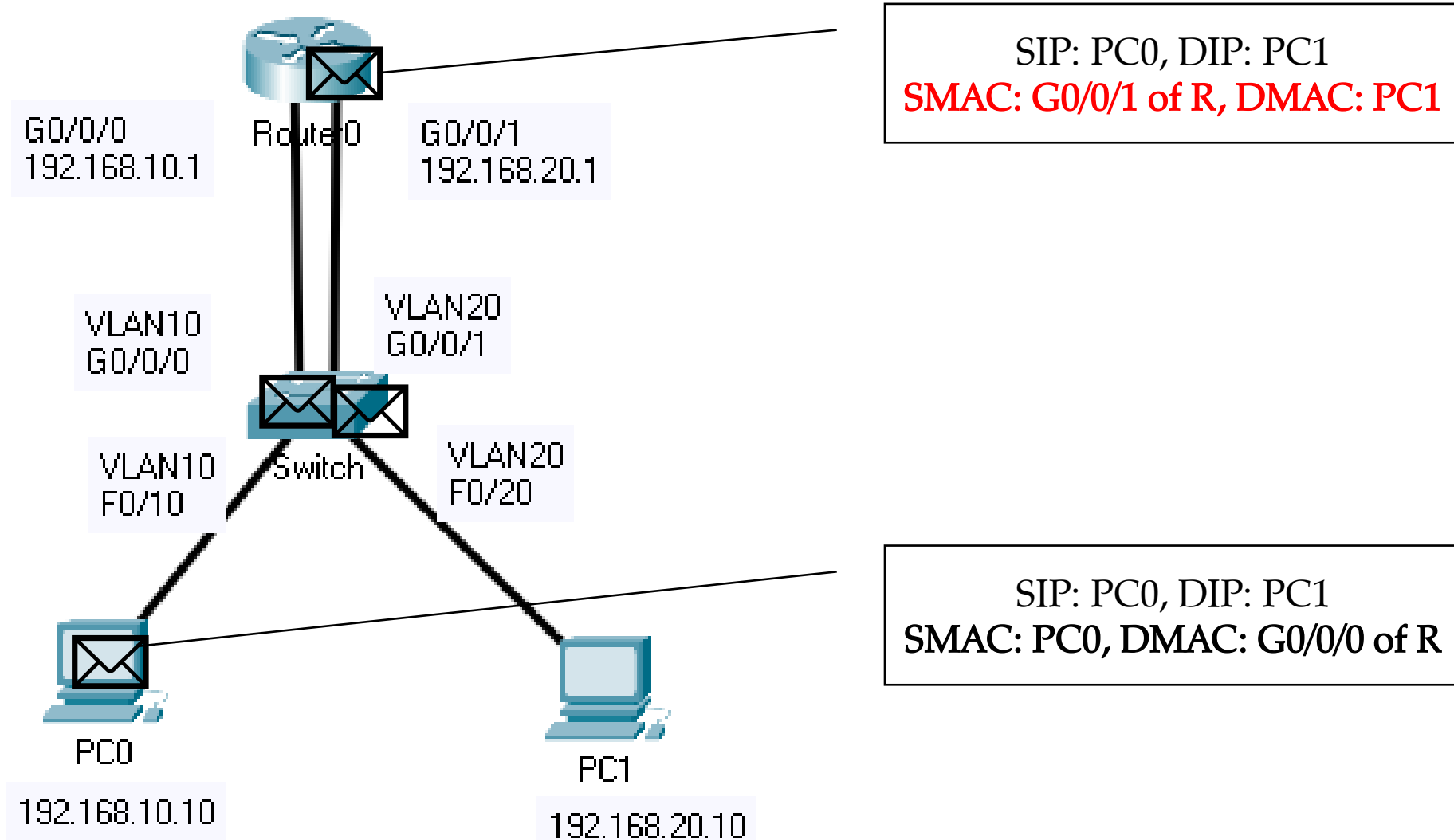
- **Overview**
- Legacy Inter-VLAN Routing
- Router-on-a-stick Inter-VLAN Routing
- Multilayer Switch Inter-VLAN Routing
- Inter-VLAN Routing Configuration

- Layer 2 switches cannot forward traffic between VLANs without the assistance of a router.
- Inter-VLAN routing is a process for forwarding network traffic from one VLAN to another, using a router.
- 3 types of Inter-VLAN Routing
  - Legacy Inter-VLAN Routing
  - Router-on-a-stick Inter-VLAN Routing
  - Multilayer Switch Inter-VLAN Routing

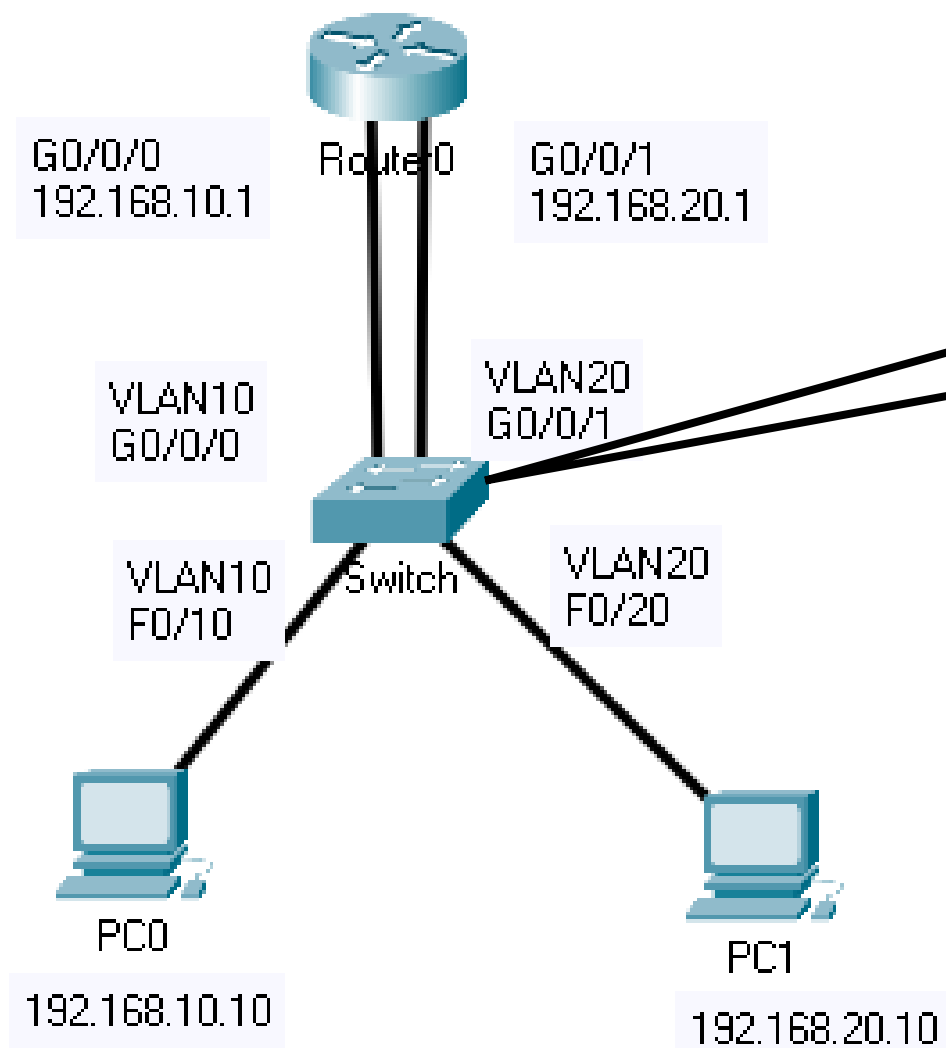


- Overview
- **Legacy Inter-VLAN Routing**
- Router-on-a-stick Inter-VLAN Routing
- Multilayer Switch Inter-VLAN Routing
- Inter-VLAN Routing Configuration

# Legacy Inter-VLAN Routing

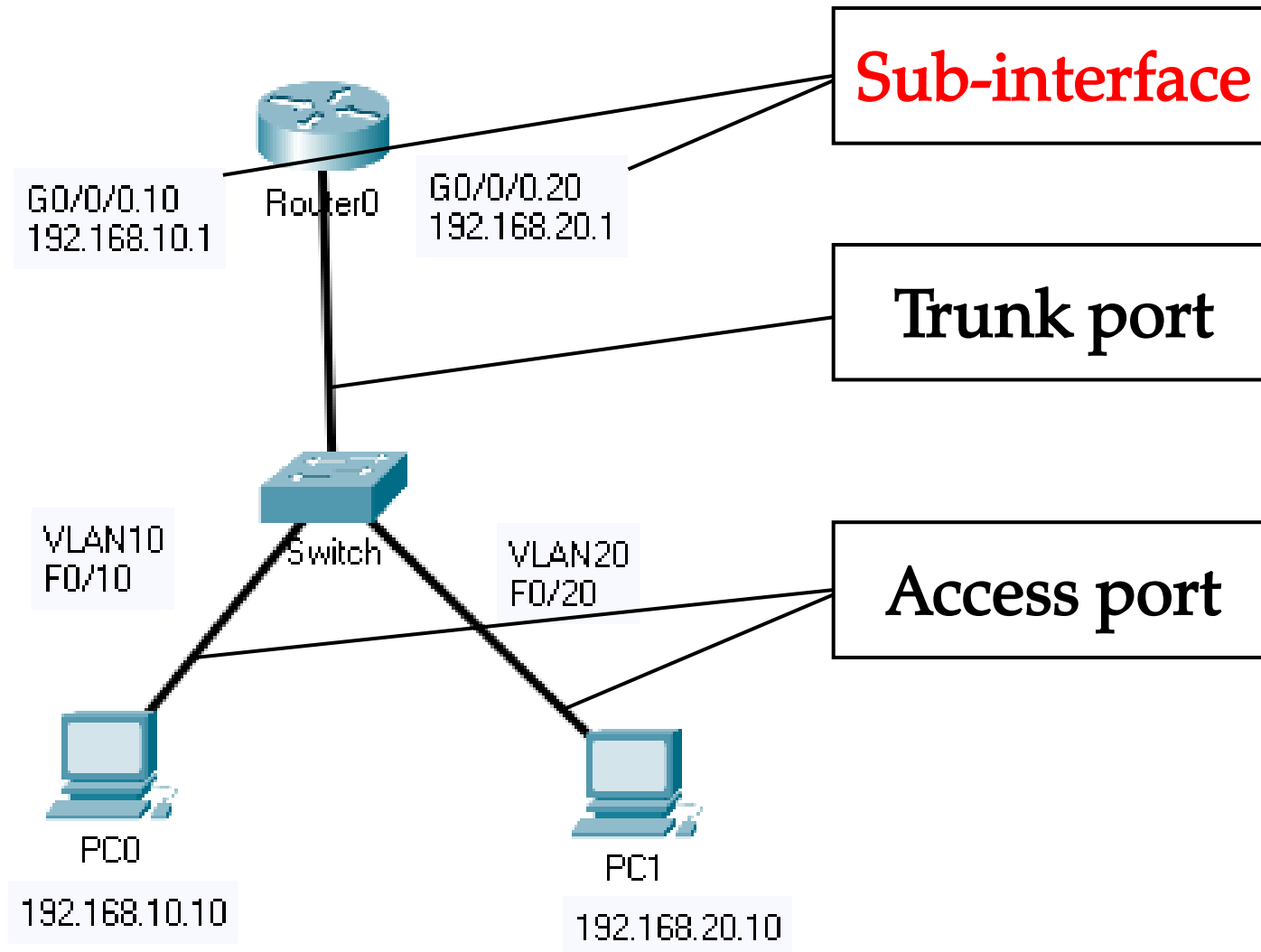


# Legacy Inter-VLAN Routing



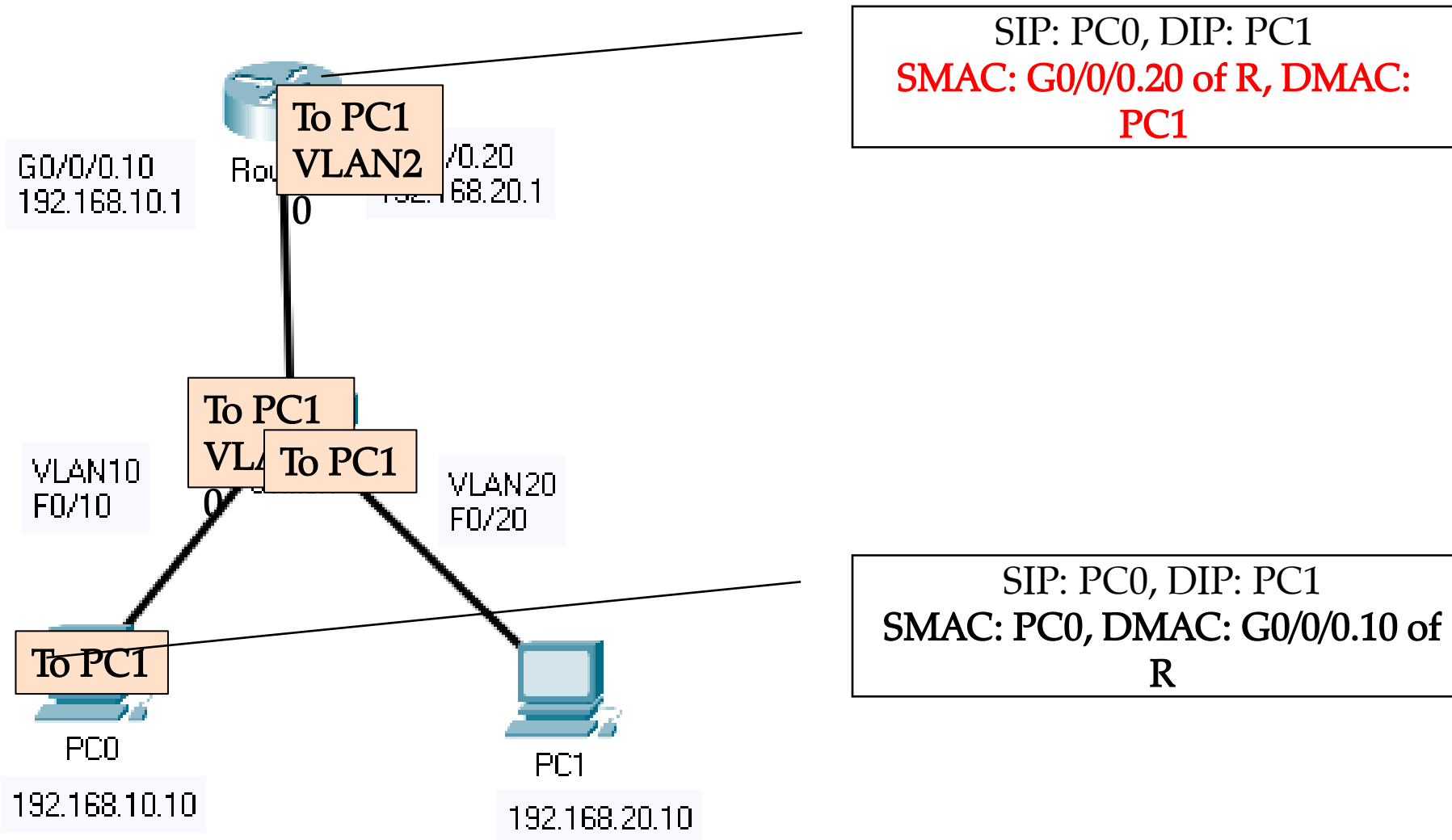
- Overview
- Legacy Inter-VLAN Routing
- **Router-on-a-stick Inter-VLAN Routing**
- Multilayer Switch Inter-VLAN Routing
- Inter-VLAN Routing Configuration

# Router-on-a-stick Inter-VLAN Routing

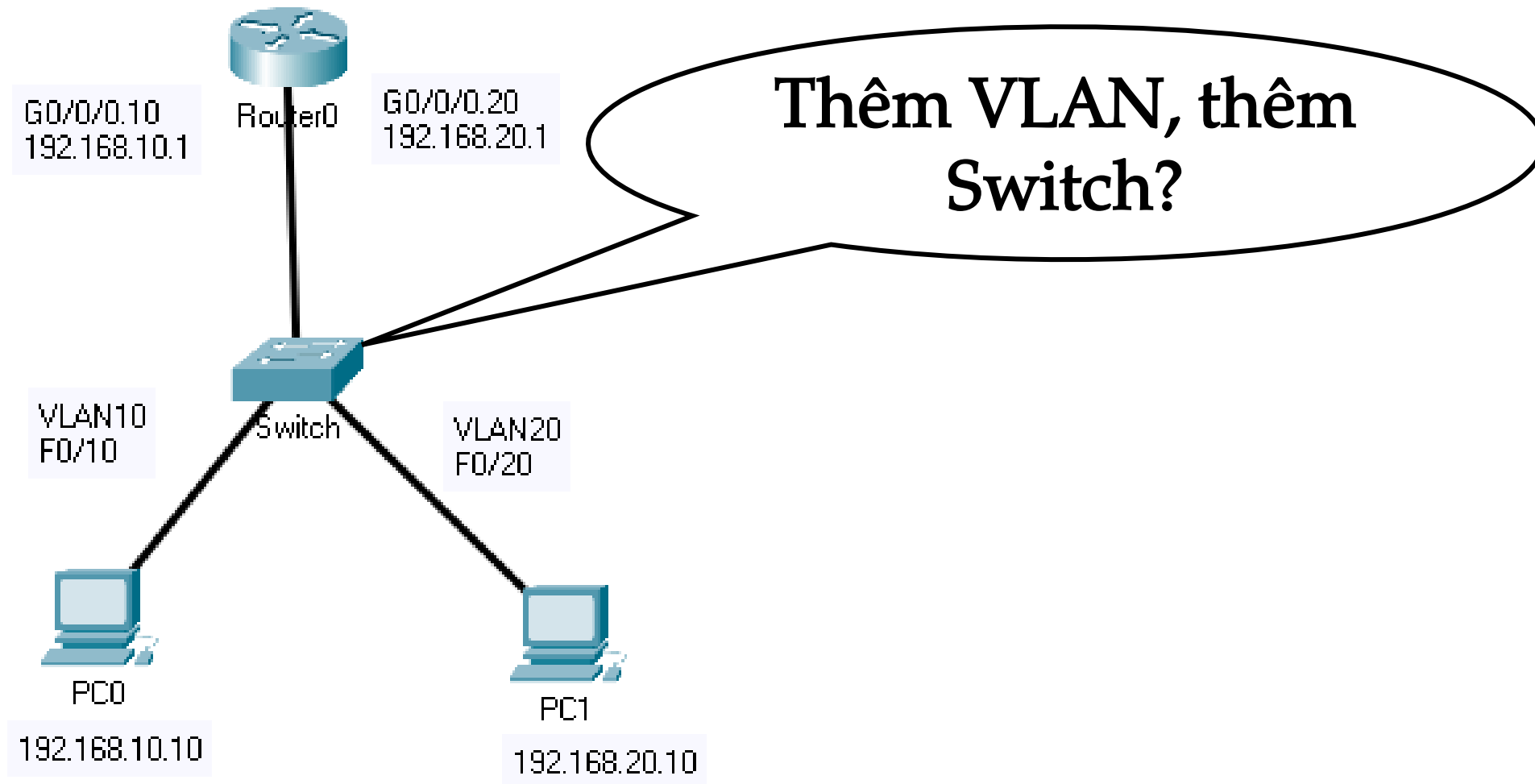




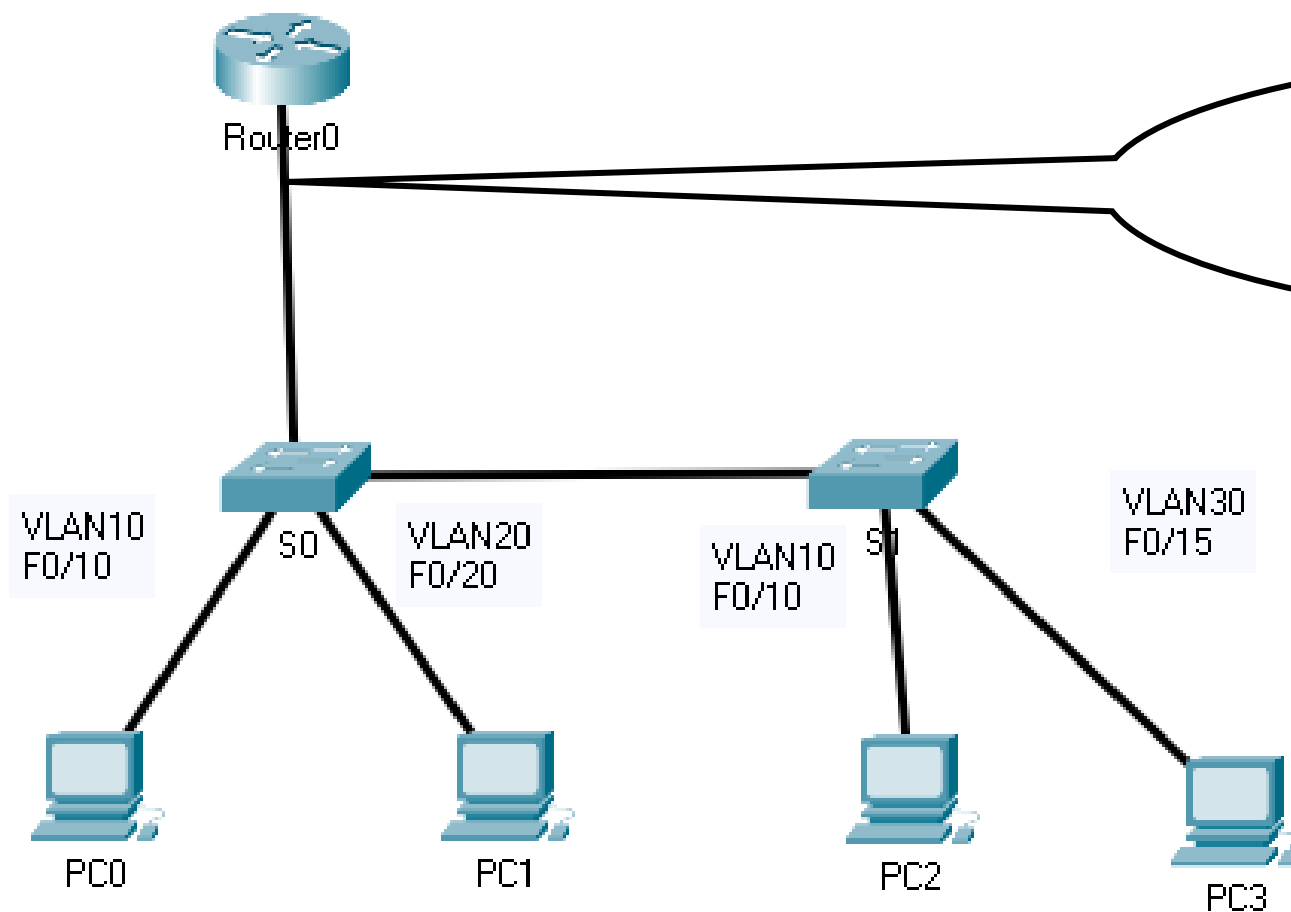
# Router-on-a-stick Inter-VLAN Routing



# Router-on-a-stick Inter-VLAN Routing

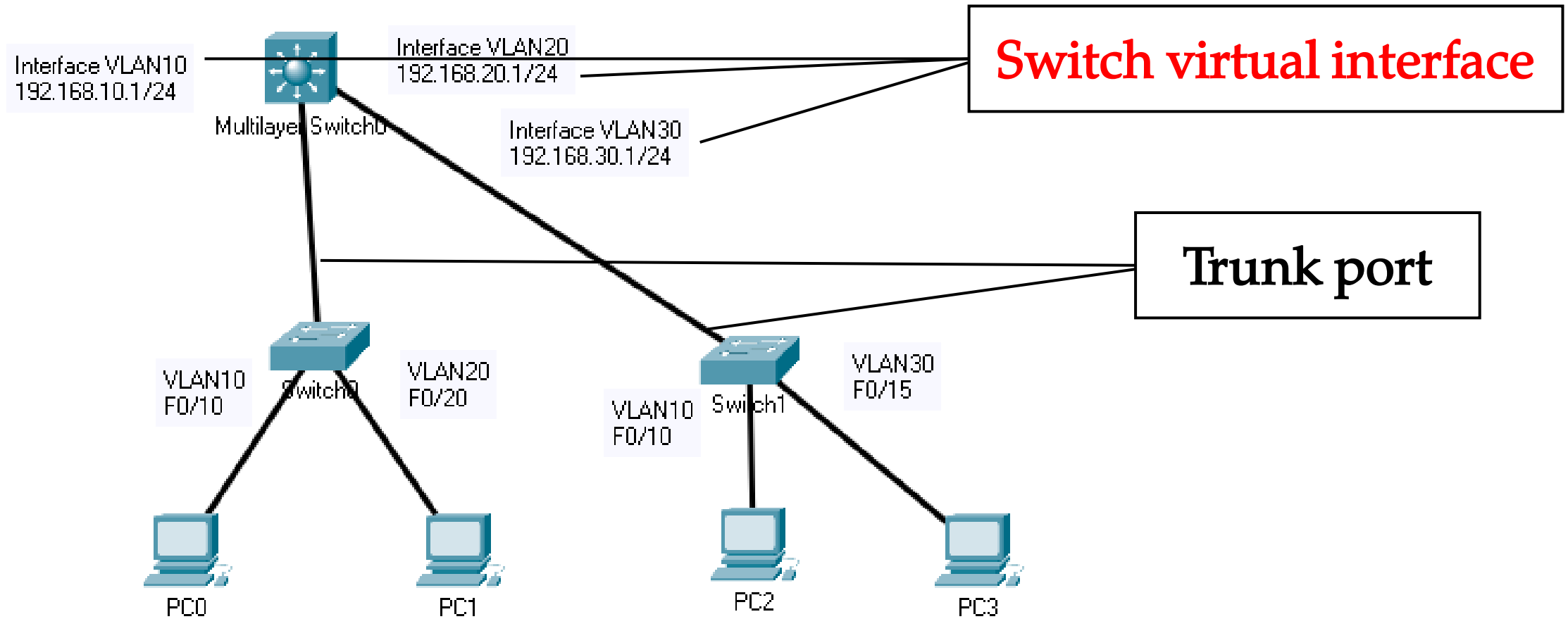


# Router-on-a-stick Inter-VLAN Routing

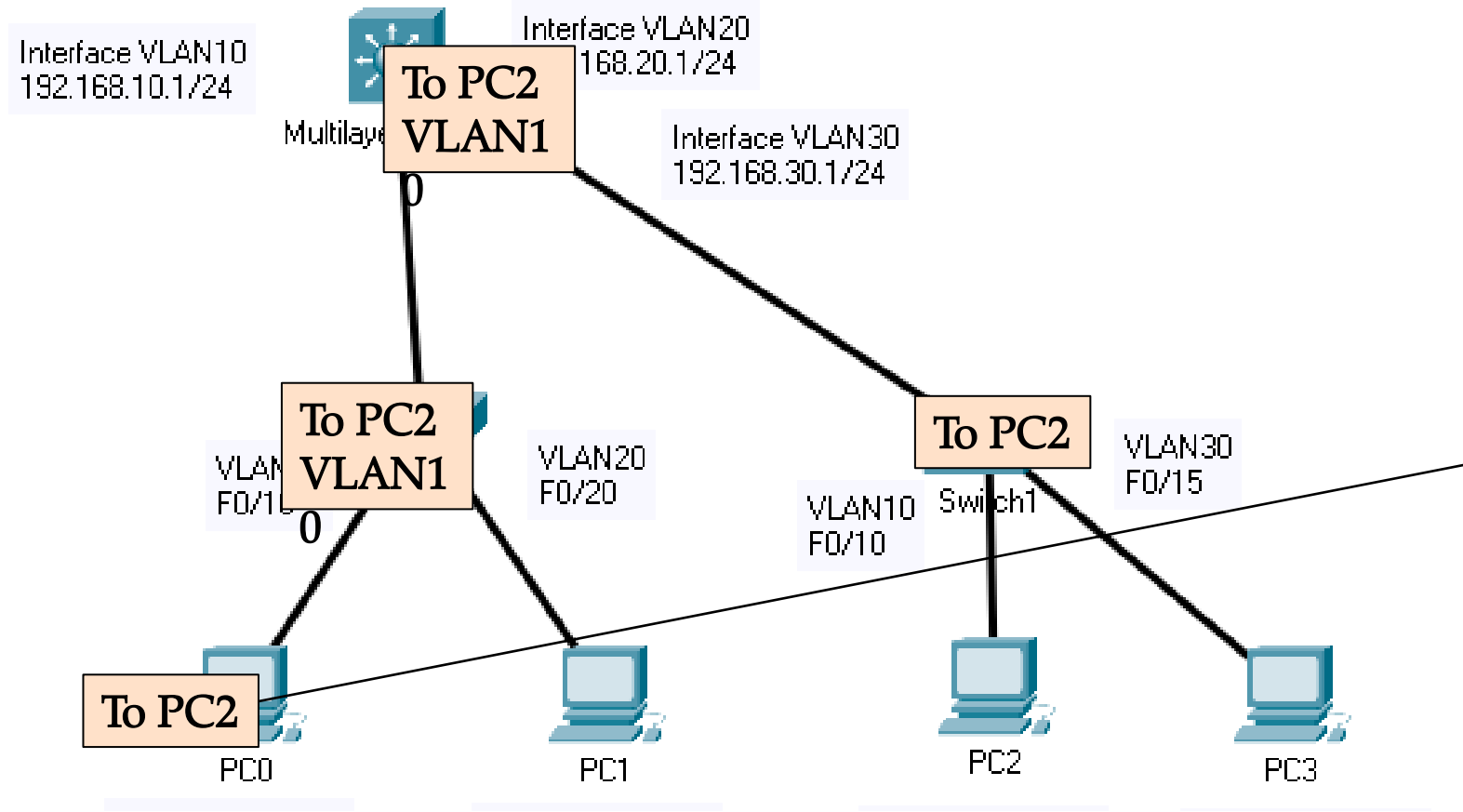


- Overview
- Legacy Inter-VLAN Routing
- Router-on-a-stick Inter-VLAN Routing
- **Multilayer Switch Inter-VLAN Routing**
- Inter-VLAN Routing Configuration

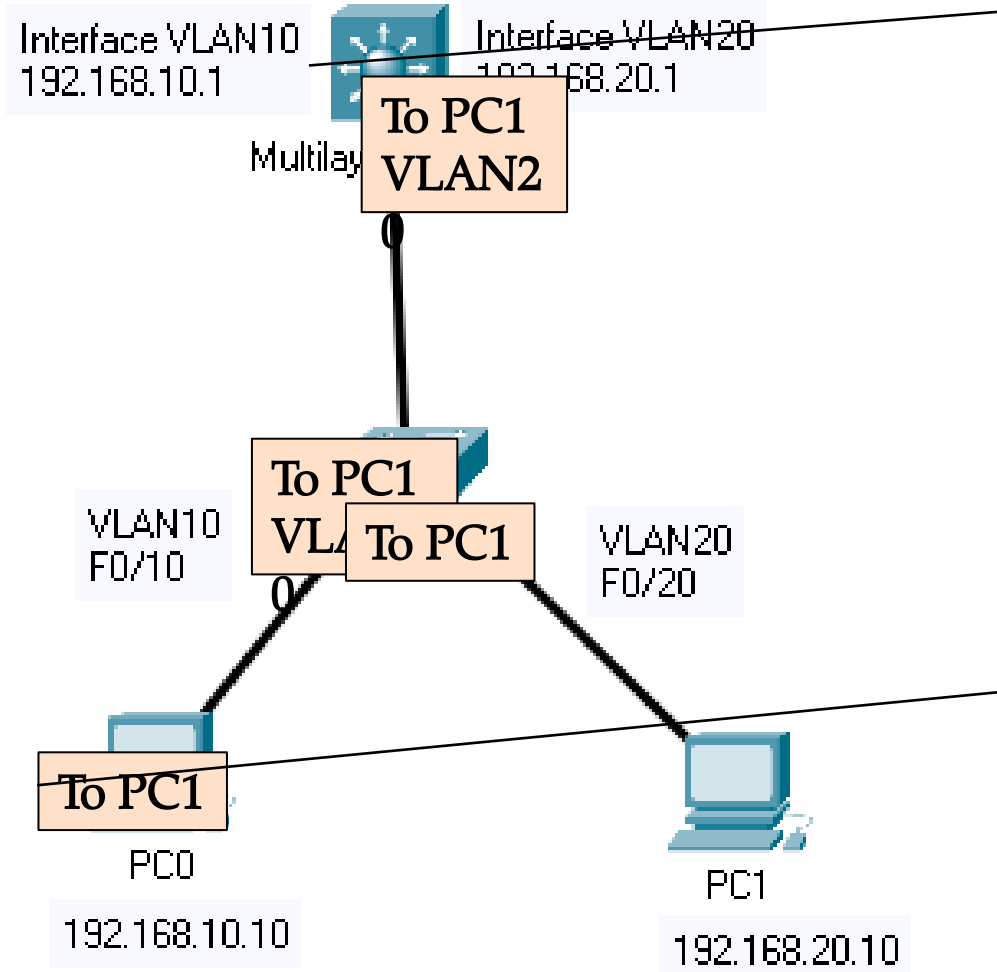
# Multilayer Switch Inter-VLAN Routing



# Multilayer Switch Inter-VLAN Routing



# Multilayer Switch Inter-VLAN Routing



SIP: PC0, DIP: PC1  
**SMAC: Interface VLAN20, DMAC: PC1**

SIP: PC0, DIP: PC1  
SMAC: PC0, DMAC: Interface  
VLAN10