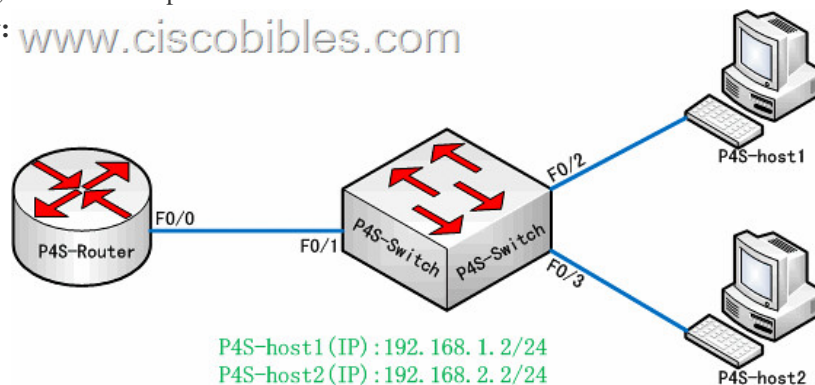


CCNA ICND1 Lab3 - Routing Between VLANs

Lab Tips: Suppose that there are four VLANs. To realize communication between them, you need four LAN ports. A router with four ports is expensive, so we use one port to realize communication between the four VLANs. The following lab is an example of two VLANs. **Topology:** www.ciscobibles.com



Lab Requirements: 1. Segment the switch into two VLANs. 2. Port fa0/2 is in VLAN2 and Port fa0/3 is in VLAN3. 3. Make the link between Port f0/1 of the switch and Port fa0/0 of the router a trunk link. 4. Realize the communication between P4S-host1 and P4S-host2. **Lab Process:** (Switch Configuration) P4S-Switch#vlan database P4S-Switch (vlan)#vlan 2 name pass4sure2 P4S-Switch (vlan)#vlan 3 name pass4sure3 P4S-Switch (vlan)#exit P4S-Switch #configure terminal P4S-Switch (config)#interface fastethernet0/2 P4S-Switch (config-if)#switchport access vlan 2 P4S-Switch (config)#interface fastethernet0/3 P4S-Switch (config-if)#switchport access vlan 3 P4S-Switch (config)#interface fastethernet0/1 P4S-Switch (config-if)#switchport trunk encapsulation isl (Router Configuration) P4S-Router(config)#interface fa0/0 P4S-Router(config-if)#duplex full fa0/0 P4S-Router(config-if)#no shutdown P4S-Router(config-if)#exit P4S-Router(config-if)#interface fa0/0.1 P4S-Router(config-if)#encapsulation isl P4S-Router(config-if)#ip address 192.168.1.1 255.255.255.0 P4S-Router(config-if)#exit P4S-Router(config-if)#interface fa0/0.2 P4S-Router(config-if)#encapsulation isl P4S-Router(config-if)#ip address 192.168.2.1 255.255.255.0 P4S-Router(config-if)#exit