PT Lab – Basic VLAN Configuration

**ADDRESSING TABLE**

Use the below addresses to help get started.

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| --- | --- | --- | --- |
| DEVICE | INTERFACE | IP ADDRESS / VLAN | SUBNET MASK |
| PC1 | NIC | 192.168.10.10 | 255.255.255.0 |
| PC2 | NIC | 192.168.10.20 | 255.255.255.0 |
| PC3 | NIC | 192.168.10.30 | 255.255.255.0 |
| PC4 | NIC | 192.168.10.40 | 255.255.255.0 |
| PC5 | NIC | 192.168.10.50 | 255.255.255.0 |
| PC6 | NIC | 192.168.10.60 | 255.255.255.0 |
| PC7 | NIC | 192.168.10.70 | 255.255.255.0 |
| PC8 | NIC | 192.168.10.80 | 255.255.255.0 |
| PC9 | NIC | 192.168.10.90 | 255.255.255.0 |
| S1 | F0/1 – F0/3 | VLAN 10 – Floor1 | N/A |
| S1 | F0/4 – F0/6 | VLAN 15 – Floor2 | N/A |
| S1 | F0/7 – F0/9 | VLAN 20 – Floor3 | N/A |

**OBJECTIVES**

* Configure S1 with a basic switch configuration
  + Add a hostname [Hostname: S1] to the switch
  + Disable IP domain lookups
  + Configure an encrypted password [Password: Lab1]
  + Configure a password for the console [Password: Lab1]
  + Configure synchronous logging on the console
  + Configure a password for the virtual lines [Password: Lab1]
* Add VLANs to S1
  + Add VLAN 10 to S1 [VLAN Name: Floor1]
  + Add VLAN 15 to S1 [VLAN Name: Floor2]
  + Add VLAN 20 to S1 [VLAN Name: Floor3]
  + Add VLAN 99 to S1 [VLAN Name: Blackhole]
* Configure VLANs on S1 interfaces
  + VLAN 10 should be added to interfaces F0/1 – F0/3
  + VLAN 15 should be added to interfaces F0/4 – F0/6
  + VLAN 20 should be added to interfaces F0/7 – F0/9
  + Don’t forget to turn on interfaces
  + All other interfaces should be placed in VLAN 99. These interfaces should be disabled.
* Configure the PC workstations using the above addressing scheme. Use Packet Tracer’s built-in IP configuration tool on the workstations.
* Test VLAN connectivity
  + PCs in VLAN 10 should be able to ping each other
  + PCs in VLAN 15 should be able to ping each other
  + PCs in VLAN 20 should be able to ping each other