

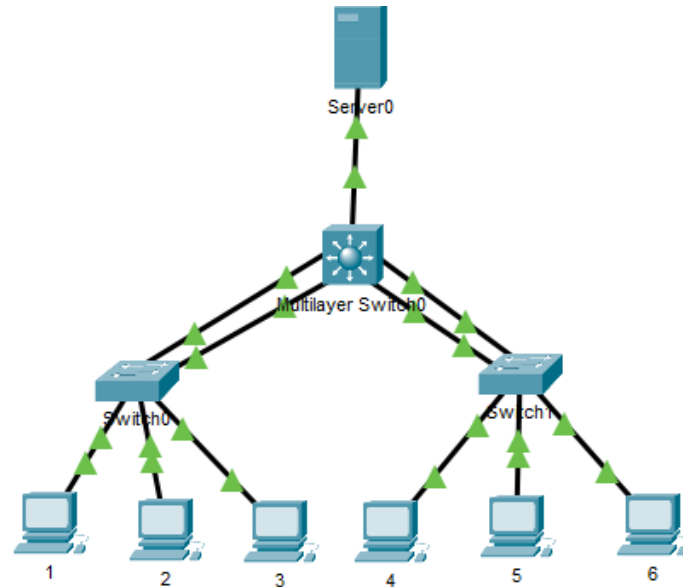
## LABORATÓRIO DE REDES DE COMPUTADORES

### LAB. 6

**Objetivo:** Configurar VLAN, VTP, Switch Multi-Layer, EtherChannel e servidor DHCP

**Software:** Cisco Packet Tracer

**Configurações:**



**Tabela de Endereçamento PCs**

Dispositivo	Interface	Endereço IP DHCP	Gateway Padrão	VLAN	Switch/Interface
PC 1	Fa 0	192.168.10.0	192.168.10.1	VLAN 10	S1-F0/1
PC 4	Fa 0	255.255.255.0		VLAN 10	S2-F0/1
PC 2	Fa 0	192.168.20.0	192.168.20.1	VLAN 20	S1-F0/2
PC 5	Fa 0	255.255.255.0		VLAN 20	S2-F0/2
PC 3	Fa 0	192.168.30.0	192.168.30.1	VLAN 30	S1-F0/3
PC 6	Fa 0	255.255.255.0		VLAN 30	S2-F0/3
Servidor	Fa 0	192.168.1.2	192.168.1.1		ML-F0/1

**Interfaces entre Switches**

Switches	Interface	Switch ML
S1	F0/21	F0/21
S1	F0/22	F0/22
S2	F0/23	F0/23
S2	F0/24	F0/24

### **Parte 1:**

1. Monte uma rede de acordo com a topologia.
2. Configurar servidor DHCP com os endereços IPs da Tabela de endereçamento.

### **Parte 2:**

#### **1. Configurar Switch 1**

##### **a) Configurações iniciais:**

```
Switch>enable
```

```
Switch#config t
```

```
Switch(config)#hostname S1
```

##### **b) Configurando VTP:**

```
S1#(config)#vtp domain LAB
```

```
S1#(config)#vtp mode client
```

```
S1#(config)#vtp password senha
```

##### **c) Configurar VLANs nas interfaces**

```
S1(config)# int f0/1
```

```
S1(config-if)# switchport mode access
```

```
S1(config-if)# switchport access vlan 10
```

```
S1(config)# int f0/2
```

```
S1(config-if)# switchport mode access
```

```
S1(config-if)# switchport access vlan 20
```

```
S1(config)# int f0/3
```

```
S1(config-if)# switchport mode access
```

```
S1(config-if)# switchport access vlan 30
```

##### **d) Configurando Trunk**

```
S1(config-if)#int range f0/21-22
```

```
S1(config-if-range)#switchport mode trunk
```

## **2. Configurar Switch 2**

### **a) Configurações iniciais:**

Switch>enable

Switch#config t

Switch(config)#hostname S2

### **a) Configurando VTP:**

S2#(config)#vtp domain LAB

S2#(config)#vtp mode client

S2#(config)#vtp password senha

### **b) Configurar VLANs nas interfaces**

S2(config)# int f0/1

S2(config-if)# switchport mode access

S2(config-if)# switchport access vlan 10

S2(config)# int f0/2

S2(config-if)# switchport mode access

S2(config-if)# switchport access vlan 20

S2(config)# int f0/3

S2(config-if)# switchport mode access

S2(config-if)# switchport access vlan 30

### **c) Configurando Trunk**

S2(config-if)#int range f0/23-24

S2(config-if-range)#switchport mode trunk

### **3. Configurar Switch ML**

#### **b) Configurações iniciais:**

Switch>enable

Switch#config t

Switch(config)#hostname ML

#### **c) Configurando VTP:**

ML(config)#vtp mode server

ML(config)#vtp domain LAB

ML(config)#vtp password senha

#### **d) Criando VLANs**

ML(config)#vlan10

ML(config-vlan)#name VLAN 10

ML(config-vlan)#vlan20

ML(config-vlan)#name VLAN 20

ML(config-vlan)#vlan30

ML(config-vlan)#name VLAN 30

#### **e) Interfaces roteáveis:**

ML(config)#ip routing

ML(config)#int f0/1

ML(config-if)#no switchport

ML(config-if)#ip address 192.168.1.1 255.255.255.0

ML(config-if)#int vlan 10

ML(config-if)#ip address 192.168.10.1 255.255.255.0

ML(config-if)#ip helper-address 192.168.1.2

ML(config-if)#int vlan 20

ML(config-if)#ip address 192.168.20.1 255.255.255.0

ML(config-if)#ip helper-address 192.168.1.2

ML(config-if)#int vlan 30

ML(config-if)#ip address 192.168.30.1 255.255.255.0

ML(config-if)#ip helper-address 192.168.1.2

#### **f) Configurando Trunk**

```
ML(config-if)#int range f0/21-24
```

```
ML(config-if-range)#switchport trunk encapsulation dot1q
```

```
ML(config-if-range)#switchport mode trunk
```

#### **g) Configurando Agregação de Link**

```
ML(config-if)#int range f0/21-22
```

```
ML(config-if-range)#channel-group 1 mode on
```

```
ML(config-if-range)#int range f0/23-24
```

```
ML(config-if-range)#channel-group 2 mode on
```

#### **Configurando Agregação de Link S1**

```
S1(config-if)#int range f0/21-22
```

```
S1(config-if-range)#channel-group 1 mode on
```

```
S1(config-if-range)#end
```

#### **Configurando Agregação de Link S2**

```
S2(config-if)#int range f0/23-24
```

```
S2(config-if-range)#channel-group 2 mode on
```

```
S2(config-if-range)#end
```