**VTP – Cisco configuration**

**VTP Definition**

Vtp it’s a protocol to easily assign vlans with multiple switches. Exists 3 types of vtp the server, the transparent and the client. All of the switchs transmit the table by the domain name, so every switch that we want to get information from the server need to have the domain name configured.

* Server:
  + Creates a table of vlans and transmit to all of the client switchs connected to the vtp server;
  + Saves the table on the NVRAM of the switch, so, we can reboot the switch and we will not lost the table;
  + Every changes on the vlans its made on this switch and this will redirect the changes to the other ones;
* Transparent:
  + The only function it’s to transmite the table and doesn’t save it on the system;
  + This one doesn’t keep the table, so have no effect on the vlans;
* Client:
  + Receive the table and save it on the system. After the receiving of the table, we can assign the vlans on the interfaces without creating because the table it’s already on the switch;
  + Doesn’t store the table on the NVRAM of the switch, so, every time that we reboot the switch, all of the information will be lost;
  + Doesn’t allow changes on the vlans, all of the changes are provided by the server;

**VTP Server side**

**Create Vlans:**

* vlan <number>
* name <name>

**Assign vlans on the ports:**

* int <interface>
* switchport mode access
* switchport access vlan < number>

**Creating vtp domain:**

* Vtp domain <domain name>
* Vtp mode server

**Assigning trunk port:**

* Int <interface for the trunk>
* Switchport mode trunk
* Switchport trunk allowed vlan 1-500

**VTP Client side**

**Assigning trunk port:**

* Int <interface for the trunk>
* Switchport mode trunk
* Switchport trunk allowed vlan 1-500

**Creating vtp domain:**

* Vtp domain <domain name>
* Vtp mode client

**Assign vlans on the ports:**

* int <interface>
* switchport mode access
* switchport access vlan < number>

**Show status**

* Show vtp status
* Show vlan