



Universidad Autónoma de Chiapas

Facultad: Contaduría y Administración

Licenciatura: Ingeniería en Desarrollo y Tecnologías de Software

Conmutadores y Redes inalámbricas

“Act. 3.1 Configura un VTP con VLANS en GNS3”



Alumno: Nango Ponce Manuel de Jesus

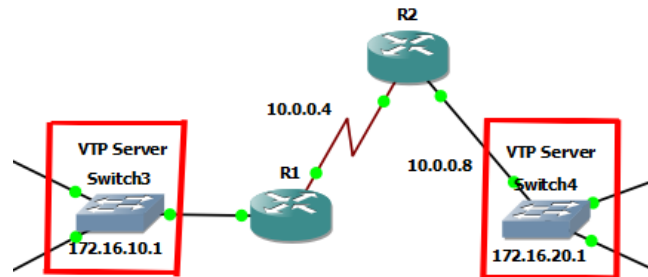
Grupo: 7M

Matrícula: A200338

Docente: Luis Gutiérrez Alfaro

Tuxtla Gutiérrez, Chiapas
15/09/2023

***Ponemos 2 VTP Server que se encargará de administrar las VLANS y repartirlas a los demás switches que esten dentro del mismo dominio y mismo password**



***Configuración de los switches VTP Client del lado izquierdo:**

SW-L2-01:

SW-L2-02:

```

SW-L2-01#conf t
Enter configuration commands, one per line. End with CNTL/Z.
SW-L2-01(config)#vtp ?
    domain  Set the name of the VTP administrative domain.
    file     Configure the file system file where VTP configuration is stored.
    interface Configure interface as the preferred source for the VTP IP updater address.
    mode     Configure VTP device mode
    password Set the password for the VTP administrative domain
    pruning  Set the administrative domain to permit pruning
    version  Set the administrative domain to VTP version

SW-L2-01(config)#vtp vtp domain cisco-01
^
% Invalid input detected at '^' marker.

SW-L2-01(config)#vtp domain cisco-01
Changing VTP domain name from NULL to cisco-01
SW-L2-01(config)#vtp mode ?
    client  Set the device to client mode.
    server  Set the device to server mode.
    transparent Set the device to transparent mode.

SW-L2-01(config)#vtp mode client
Setting device to VTP CLIENT mode.
SW-L2-01(config)#v
% Ambiguous command: "v"
SW-L2-01(config)#v
% Ambiguous command: "v"
SW-L2-01(config)#v
SW-L2-01(config)#vtp password ?
    WORD The ascii password for the VTP administrative domain.

SW-L2-01(config)#vtp password cisco
Setting device VLAN database password to cisco
SW-L2-01(config)#^Z
SW-L2-01#
*Mar 1 00:07:35.707: %SYS-5-CONFIG_I: Configured from console by console
SW-L2-01#

SW-L2-02#conf t
Enter configuration commands, one per line. End with CNTL/Z.
SW-L2-02(config)#vtp domain cisco-01
Changing VTP domain name from NULL to cisco-01
SW-L2-02(config)#vtp mode client
Setting device to VTP CLIENT mode.
SW-L2-02(config)#
SW-L2-02(config)#vtp password cisco
Setting device VLAN database password to cisco
SW-L2-02(config)#^Z
SW-L2-02#
*Mar 1 00:14:49.215: %SYS-5-CONFIG_I: Configured from console by console
SW-L2-02#sh vtp status
VTP Version                : 2
Configuration Revision      : 0
Maximum VLANs supported locally : 36
Number of existing VLANs    : 5
VTP Operating Mode         : Client
VTP Domain Name            : cisco-01
VTP Pruning Mode           : Disabled
VTP V2 Mode                : Disabled
VTP Traps Generation       : Disabled
MD5 digest                  : 0x32 0xb0 0x23 0x30 0xf3 0x53 0x71 0x68
Configuration last modified by 0.0.0.0 at 0-0-00 00:00:00
SW-L2-02#wr
Building configuration...
[OK]
SW-L2-02#
  
```

***Configuración de los switches VTP Server:**

SW-DST-01:

```

SW-DST-01#
erent router or PC. A format in this router is required before an image can be b
ooted from this device
*Mar 1 00:00:34.859: %CRYPTO-6-ISAKMP_ON_OFF: ISAKMP is OFF
*Mar 1 00:00:34.859: %CRYPTO-6-GDOI_ON_OFF: GDOI is OFF

*****
This is a normal Router with a Switch module inside (NM-16ESW)
It has been pre-configured with hard-coded speed and duplex

To create vlans use the command "vlan database" in exec mode
After creating all desired vlans use "exit" to apply the config

To view existing vlans use the command "show vlan-switch brief"

Alias(exec)      : vl - "show vlan-switch brief" command
Alias(configure) : va X - macro to add vlan X
Alias(configure) : vd X - macro to delete vlan X
*****

SW-DST-01#conf t
Enter configuration commands, one per line. End with CNTL/Z.
SW-DST-01(config)#vtp dom
% Incomplete command.

SW-DST-01(config)#vtp domain cisco-01
Changing VTP domain name from NULL to cisco-01
SW-DST-01(config)#vtp mode server
Device mode already VTP SERVER.
SW-DST-01(config)#vtp password cisco
Setting device VLAN database password to cisco
SW-DST-01(config)#^Z
SW-DST-01#
*Mar 1 00:17:04.259: %SYS-5-CONFIG_I: Configured from console by console
SW-DST-01#wr
Building configuration...
[OK]
SW-DST-01#
  
```

SW-DST-02:

```
SW-DST-02
This is a normal Router with a Switch module inside (NM-16ESW)
It has been pre-configured with hard-coded speed and duplex

To create vlans use the command "vlan database" in exec mode
After creating all desired vlans use "exit" to apply the config

To view existing vlans use the command "show vlan-switch brief"

Alias(exec)      : vl - "show vlan-switch brief" command
Alias(configure): va X - macro to add vlan X
Alias(configure): vd X - macro to delete vlan X
*****

SW-DST-02#conf t
Enter configuration commands, one per line. End with CNTL/Z.
SW-DST-02(config)#vtp domain cisco-02
Changing VTP domain name from NULL to cisco-02
SW-DST-02(config)#vtp mode server
Device mode already VTP SERVER.
SW-DST-02(config)#vtp password cisco
Setting device VLAN database password to cisco
SW-DST-02(config)#^Z
*Mar 1 00:34:47.095: %SYS-5-CONFIG_I: Configured from console by console
SW-DST-02#wr
Building configuration...
[OK]
SW-DST-02#
```

*Configuración de los switches VTP Client del lado derecho:

SW-L2-03:

SW-L2-04:

```
SW-L2-03
To create vlans use the command "vlan database" in exec mode
After creating all desired vlans use "exit" to apply the config

To view existing vlans use the command "show vlan-switch brief"

Alias(exec)      : vl - "show vlan-switch brief" command
Alias(configure): va X - macro to add vlan X
Alias(configure): vd X - macro to delete vlan X
*****

SW-L2-03#conf t
Enter configuration commands, one per line. End with CNTL/Z.
SW-L2-03(config)#vtp domain cisco-02
Changing VTP domain name from NULL to cisco-02
SW-L2-03(config)#vtp mode client
Setting device to VTP CLIENT mode.
SW-L2-03(config)#vtp password cisco
Setting device VLAN database password to cisco
SW-L2-03(config)#^Z
*Mar 1 00:29:51.699: %SYS-5-CONFIG_I: Configured from console by console
SW-L2-03#sh vtp status
VTP Version                : 2
Configuration Revision      : 0
Maximum VLANs supported locally : 36
Number of existing VLANs    : 5
VTP Operating Mode         : Client
VTP Domain Name            : cisco-02
VTP Pruning Mode           : Disabled
VTP V2 Mode                : Disabled
VTP Traps Generation       : Disabled
MD5 digest                 : 0x0E 0xDD 0xD4 0x08 0xB7 0xA1 0x29 0x28
Configuration last modified by 0.0.0.0 at 0-0-00 00:00:00
SW-L2-03#wr
Building configuration...
[OK]
SW-L2-03#
```

```
SW-L2-04
*Mar 1 00:00:38.163: %SNMP-5-COLDSTART: SNMP agent on host SW-L2-04 is undergoing a cold start
*Mar 1 00:00:38.183: %PCMCIAFS-5-DIBERR: PCMCIA disk 0 is formatted from a different router or PC. A format in this router is required before an image can be booted from this device
*Mar 1 00:00:38.315: %CRYPTO-6-ISAKMP_ON_OFF: ISAKMP is OFF
*Mar 1 00:00:38.315: %CRYPTO-6-GDOI_ON_OFF: GDOI is OFF

*****
This is a normal Router with a Switch module inside (NM-16ESW)
It has been pre-configured with hard-coded speed and duplex

To create vlans use the command "vlan database" in exec mode
After creating all desired vlans use "exit" to apply the config

To view existing vlans use the command "show vlan-switch brief"

Alias(exec)      : vl - "show vlan-switch brief" command
Alias(configure): va X - macro to add vlan X
Alias(configure): vd X - macro to delete vlan X
*****

SW-L2-04#conf t
Enter configuration commands, one per line. End with CNTL/Z.
SW-L2-04(config)#vtp domain cisco-02
Changing VTP domain name from NULL to cisco-02
SW-L2-04(config)#vtp mode client
Setting device to VTP CLIENT mode.
SW-L2-04(config)#vtp password cisco
Setting device VLAN database password to cisco
SW-L2-04(config)#^Z
*Mar 1 00:31:46.187: %SYS-5-CONFIG_I: Configured from console by console
SW-L2-04#wr
Building configuration...
[OK]
SW-L2-04#
```

*Topología:

