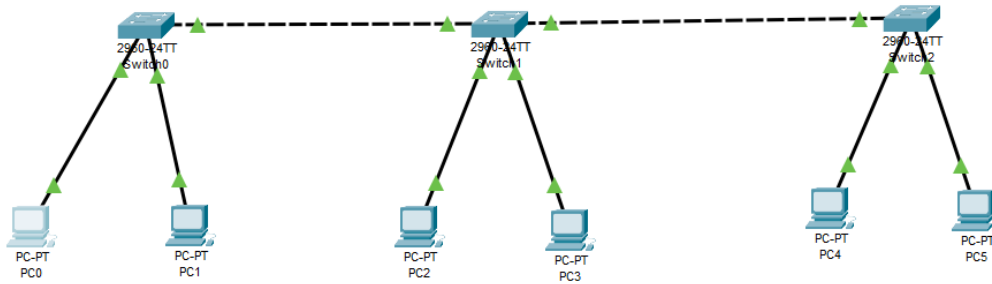


VTP



VTP modes:

- 1: Server
- 2: transparent
- 3: client

Assign IP to each PC

IP Address	15.1.1.6
Subnet Mask	255.0.0.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0

Configuration

Switch 1:

```
#enable
#configure terminal
#hostname server
#vtp mode server
#vtp domain pugn
#vtp password 12345
#exit
```

```
server#conf
server#configure ter
server#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
server(config)#vtp mode server
Device mode already VTP SERVER.
server(config)#vtp domain pugn
Changing VTP domain name from NULL to pugn
server(config)#vtp password 12345
Setting device VLAN database password to 12345
server(config)#exit
```

#show vlan

#server vtp status

```
server#show vtp status
VTP Version                : 2
Configuration Revision      : 0
Maximum VLANs supported locally : 255
Number of existing VLANs    : 5
VTP Operating Mode          : Server
VTP Domain Name             : pugn
VTP Pruning Mode            : Disabled
VTP V2 Mode                 : Disabled
VTP Traps Generation        : Disabled
MD5 digest                  : 0x92 0xBD 0x49 0xE1 0xCD 0x37 0xE6
0xCD
Configuration last modified by 0.0.0.0 at 0-0-00 00:00:00
Local updater ID is 0.0.0.0 (no valid interface found)
```

Switch 2:

#enable

#configure terminal

#hostname transparent

#vtp mode transparent

#vtp domain pugn

#vtp password 12345

#exit

```
Switch>enable
Switch#confi
Switch#configure ter
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostna
Switch(config)#hostname transpa
Switch(config)#hostname transparent
transparent(config)#vtp mode transparent
Setting device to VTP TRANSPARENT mode.
transparent(config)#vtp domain pugc
Changing VTP domain name from NULL to pugc
transparent(config)#vtp password 12345
Setting device VLAN database password to 12345
transparent(config)#exit
transparent#
```

#show vlan

#show vtp status

```
transparent#show vtp status
VTP Version                : 2
Configuration Revision      : 0
Maximum VLANs supported locally : 255
Number of existing VLANs    : 5
VTP Operating Mode          : Transparent
VTP Domain Name             : pugc
VTP Pruning Mode            : Disabled
VTP V2 Mode                 : Disabled
VTP Traps Generation        : Disabled
MD5 digest                  : 0x92 0xBD 0x49 0xE1 0xCD 0x37 0xE6
0xCD
Configuration last modified by 0.0.0.0 at 0-0-00 00:00:00
transparent#
```

Switch 3:

#enable

#configure terminal

#hostname client

#vtp mode client

#vtp domain pugc

#vtp password 12345

#exit

```

Switch>enable
Switch#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#host
Switch(config)#hostname client
client(config)#vtp mode client
Setting device to VTP CLIENT mode.
client(config)#vtp domain pugn
Changing VTP domain name from NULL to pugn
client(config)#vtp password 12345
Setting device VLAN database password to 12345
client(config)#exit
client#

```

#show vlan

#show vtp status

```

client#show vtp s
client#show vtp status
VTP Version                : 2
Configuration Revision      : 0
Maximum VLANs supported locally : 255
Number of existing VLANs    : 5
VTP Operating Mode         : Client
VTP Domain Name            : pugn
VTP Pruning Mode           : Disabled
VTP V2 Mode                : Disabled
VTP Traps Generation       : Disabled
MD5 digest                  : 0x92 0xBD 0x49 0xE1 0xCD 0x37 0xE6
0xCD
Configuration last modified by 0.0.0.0 at 0-0-00 00:00:00
client#

```

Switch 3:

#Configure terminal

#vlan 5

Vlan cannot be create in client mode

```

client#conf
client#configure ter
client#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
client(config)#vlan 5
VTP VLAN configuration not allowed when device is in CLIENT mode.
client(config)#

```

Switch 1:

#enable

#configure terminal

#vlan 5

#name BSIT

#exit

#vlan 10

#BBA

#exit

```
server>enable
server#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
server(config)#vlan 5
server(config-vlan)#name BSIT
server(config-vlan)#exit
server(config)#vlan 10
server(config-vlan)#name BBA
server(config-vlan)#exit
server(config)#exit
server#
%SYS-5-CONFIG_I: Configured from console by console

server#show vlan
```

#show vlan

```

Vlan/4
5    BSIT          active    Fa0/1
10   BBA           active    Fa0/2
1000 5000 3-5-2011  active
```

#interface fastethernet 0/3

#switchport mode trunk

#exit

#exit

```

server#confi
server#configure ter
server#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
server(config)#inter
server(config)#interface fast
server(config)#interface fastEthernet 0/3
server(config-if)#switch mode trunk

server(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to up

server(config-if)#exit
server(config)#exit
server#
%SYS-5-CONFIG_I: Configured from console by console

server#|

```

Switch 2:

#enable

#configure terminal

#interface fastethernet 0/3

#switchport mode trunk

#exit

```

transparent#
transparent#conf
transparent#configure ter
transparent#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
transparent(config)#inter
transparent(config)#interface fast
transparent(config)#interface fastEthernet 0/3
transparent(config-if)#swit
transparent(config-if)#switchport mode trunk

transparent(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to up

transparent(config-if)#exit
transparent(config)#|

```

#interface fastethernet 0/4

#switchport mode trunk

#exit

#exit

```
transparent(config)#inter
transparent(config)#interface fast
transparent(config)#interface fastEthernet 0/4
transparent(config-if)#switch
transparent(config-if)#switchport mode trunk

transparent(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4,
changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4,
changed state to up

transparent(config-if)#exit
transparent(config)#
```

Switch 3:

#enable

#interface fastethernet 0/3

#switchport mode trunk

#exit

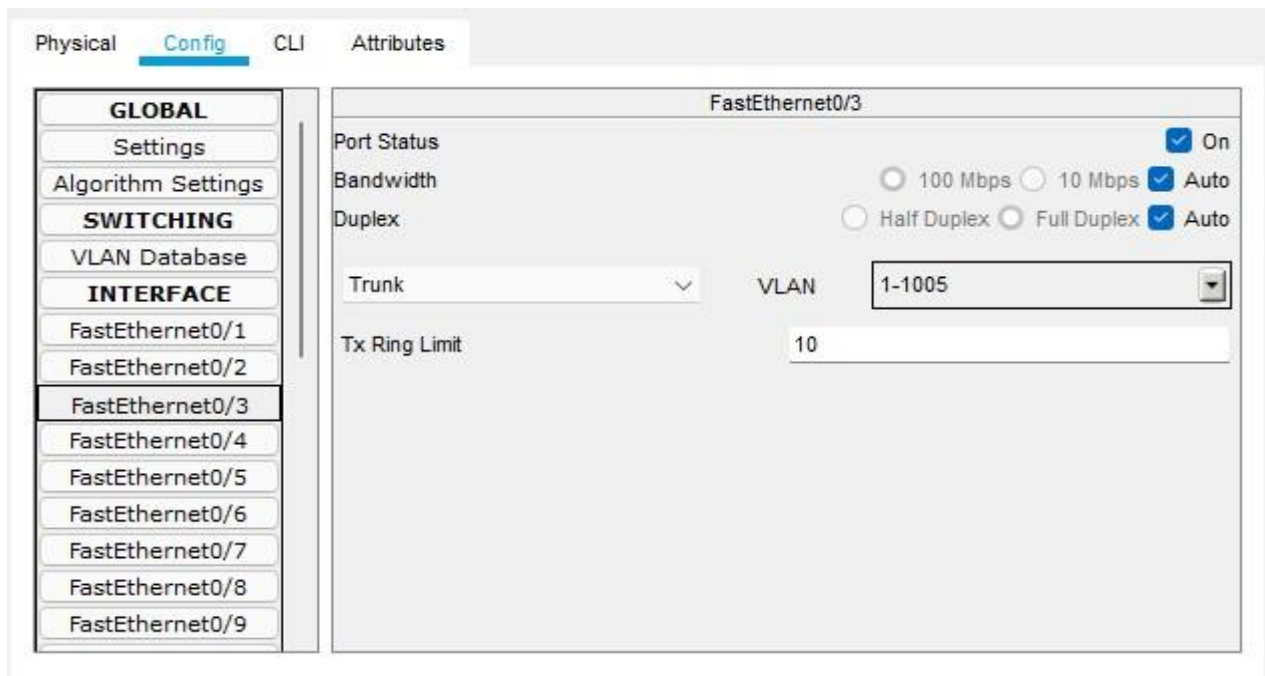
```
client>enable
client#conf
client#configure ter
client#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
client(config)#inter
client(config)#interface fas
client(config)#interface fastEthernet 0/3
client(config-if)#switch
client(config-if)#switchport mode trunk

client(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to up

client(config-if)#exit
client(config)#exit
client#
%SYS-5-CONFIG_I: Configured from console by console

client#
```



#show vtp status

```
client#show vtp status
VTP Version                : 2
Configuration Revision      : 4
Maximum VLANs supported locally : 255
Number of existing VLANs    : 7
VTP Operating Mode          : Client
VTP Domain Name             : pucg
VTP Pruning Mode            : Disabled
VTP V2 Mode                 : Disabled
VTP Traps Generation        : Disabled
MD5 digest                  : 0x06 0x76 0xDD 0xA3 0x0D 0xC1 0x30
0x82
Configuration last modified by 0.0.0.0 at 3-1-93 00:59:43
client#
```

Further Switch 2:

Create its own vlan which cannot be access by server and client. It can be sync by transparent mode only.

Note: vtp domain default null.

Vtp modes (server, transparent, client)

Vtp domain name should be same

Vtp password should be same