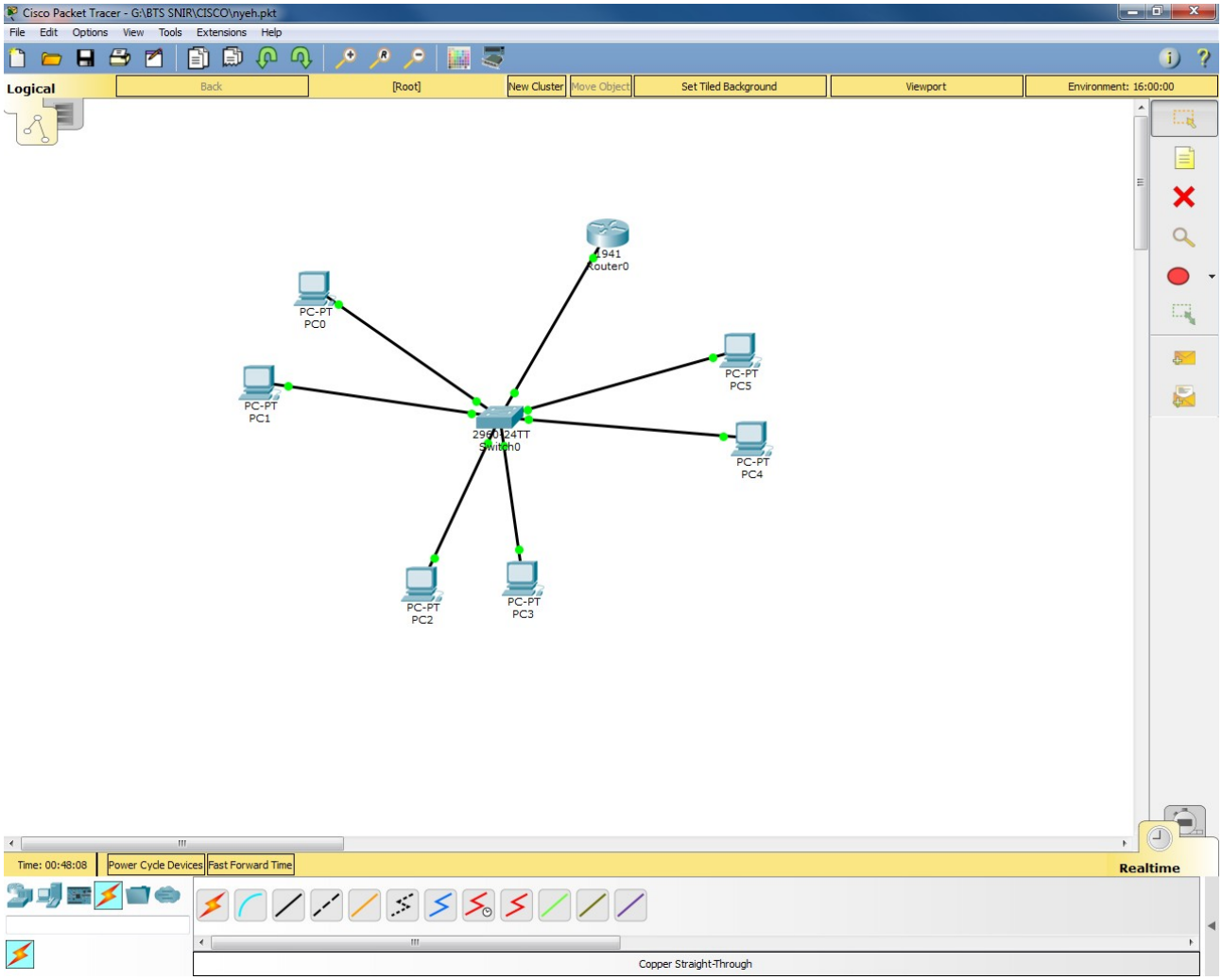
Compte rendu

Schéma Packet Tracer :



Commandes Packet Tracer :

----------SWITCH----------
-->Création des VLANs
Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 2
Switch(config-vlan)#name VLAN2
Switch(config-vlan)#vlan 3
Switch(config-vlan)#name VLAN3
Switch(config-vlan)#vlan 4
Switch(config-vlan)#name VLAN4
Switch(config-vlan)#end
-->Attribution VLANs / interfaces
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface fa0/1
Switch(config-if)#switchport mode trunk

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Switch(config-if)#switchport trunk native vlan 99
Switch(config-if)#switchport trunk allowed vlan 1,2,3,4,99 //Autoriser les VLANs
Switch(config-if)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface range fa0/3-6
Switch(config-if-range)#switchport access vlan 2
Switch(config-if-range)#exit
Switch(config)#interface range fa0/7-10
Switch(config-if-range)#switchport access vlan 3
Switch(config-if-range)#exit
Switch(config)#interface range fa0/11-14
Switch(config-if-range)#switchport access vlan 4
Switch(config-if-range)#exit

--------------------ROUTEUR--------------------
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface g0/0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up
Router(config-if)#exit
Router(config)#interface g0/0.2
Router(config-subif)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0.2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0.2, changed state to up
Router(config-subif)#encapsulation dot1q 2
Router(config-subif)#ip address 192.168.0.1 255.255.255.0
Router(config-subif)#interface g0/0.3
Router(config-subif)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0.3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0.3, changed state to up
Router(config-subif)#encapsulation dot1q 3
Router(config-subif)#ip address 192.168.1.1 255.255.255.0
Router(config-subif)#exit
Router(config)#interface g0/0.4
Router(config-subif)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0.4, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0.4, changed state to up
Router(config-subif)#encapsulation dot1q 4
Router(config-subif)#ip address 192.168.2.1 255.255.255.0
Router(config-subif)#exit
--------------------Retour au switch--------------------
Switch>en
Switch#show interface trunk
Port Mode Encapsulation Status Native vlan
Fa0/1 on 802.1q trunking 99
```

Port Vlans allowed on trunk
Fa0/1 1-4,99
Port Vlans allowed and active in management domain
Fa0/1 1,2,3,4
Port Vlans in spanning tree forwarding state and not pruned
Fa0/1 1,2,3,4

Vrai commandes Router :

Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int g0/0
Router(config-if)#no shutdown
Router(config-if)#
*Mar 12 21:20:53.003: %LINK-3-UPDOWN: Interface GigabitEthernet0/0, changed state to downin
*Mar 12 21:20:56.211: %LINK-3-UPDOWN: Interface GigabitEthernet0/0, changed state to up
*Mar 12 21:20:57.211: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to
Router(config-if)#interface g0/0.2
Router(config-subif)#encapsulation dot1Q 2
Router(config-subif)#ip address 192.168.0.1 255.255.255.0
Router(config-subif)#interface g0/0.3
Router(config-subif)#encapsulation dot1Q 3
Router(config-subif)#ip address 192.168.1.1 255.255.255.0
Router(config-subif)#interface g0/0.4
Router(config-subif)#encapsulation dot1Q 4
Router(config-subif)#ip address 192.168.2.1 255.255.255.0
Router(config-subif)#exit
Router(config)#exit
Router#exit
Router>show ip interface brief
Interface IP-Address OK? Method Status Protocol
Embedded-Service-Engine0/0 unassigned YES unset administratively down down
GigabitEthernet0/0 unassigned YES unset up up
GigabitEthernet0/0.2 192.168.0.1 YES manual up up
GigabitEthernet0/0.3 192.168.1.1 YES manual up up
GigabitEthernet0/0.4 192.168.2.1 YES manual up up
GigabitEthernet0/1 unassigned YES unset administratively down down
Serial0/0/0 unassigned YES unset administratively down down
Serial0/0/1 unassigned YES unset administratively down down
Router>

Vrai commandes Switch :

Switch#conf t

Switch(config)#vlan 2
Switch(config-vlan)#name VLANdeux

Switch(config-vlan)#vlan 3
Switch(config-vlan)#name VLANtrois
Switch(config-vlan)#vlan 4
Switch(config-vlan)#name VLANquatre
Switch(config-vlan)#exit

Switch(config)#int fa0/3
Switch(config-if)#switchport mode trunk
Switch(config-if)#switchport trunk allowed vlan 2,3,4
Switch(config-if)#end

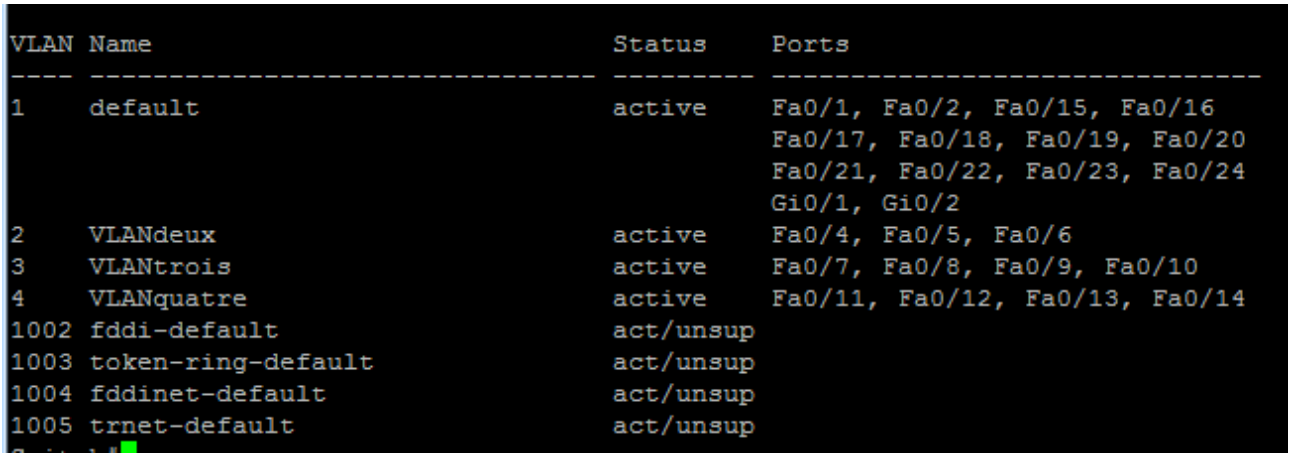
Switch#conf t
Switch(config)#interface range fa0/3-6
Switch(config-if-range)#switchport access vlan 2
Switch(config-if-range)#exit

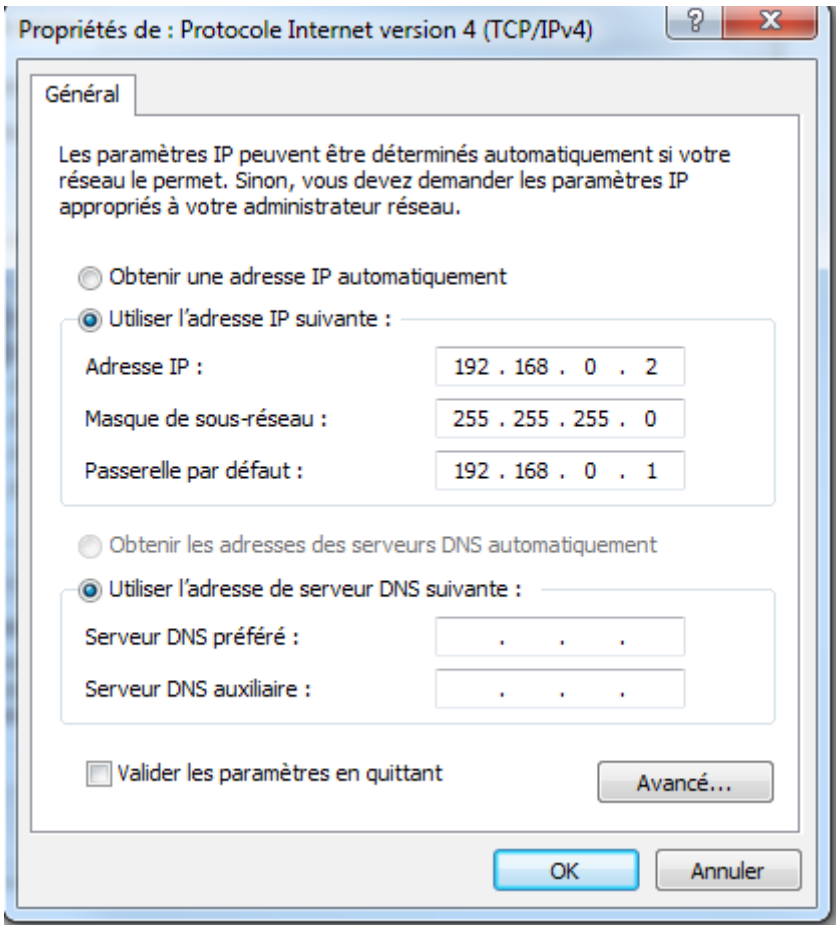
Switch(config)#interface range fa0/7-10
Switch(config-if-range)#switchport access vlan 3
Switch(config-if-range)#exit

Switch(config)#interface range fa0/11-14
Switch(config-if-range)#switchport access vlan 4
Switch(config-if-range)#exit

Switch(config)#exit
Switch#show vlan brief

VLAN Name Status Ports





config SSH du router :

Router>
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#crypto key generate rsa
% Please define a hostname other than Router.
Router(config)#hostname R1
R1(config)#crypto key generate rsa
% Please define a domain-name first.
R1(config)#ip domain-name depinfo.touchard.edu
R1(config)#username admin password cisco
R1(config)#crypto key generate rsa
The name for the keys will be: R1.depinfo.touchard.edu
Choose the size of the key modulus in the range of 360 to 4096 for your
  General Purpose Keys. Choosing a key modulus greater than 512 may take
  a few minutes.

How many bits in the modulus [512]: 1024
% Generating 1024 bit RSA keys, keys will be non-exportable...
[OK] (elapsed time was 1 seconds)

```
R1(config)#
*Mar 12 22:36:47.607: %SSH-5-ENABLED: SSH 1.99 has been enabled
R1(config)#line vty 0 4
R1(config-line)#transport input ssh
R1(config-line)#login local
```