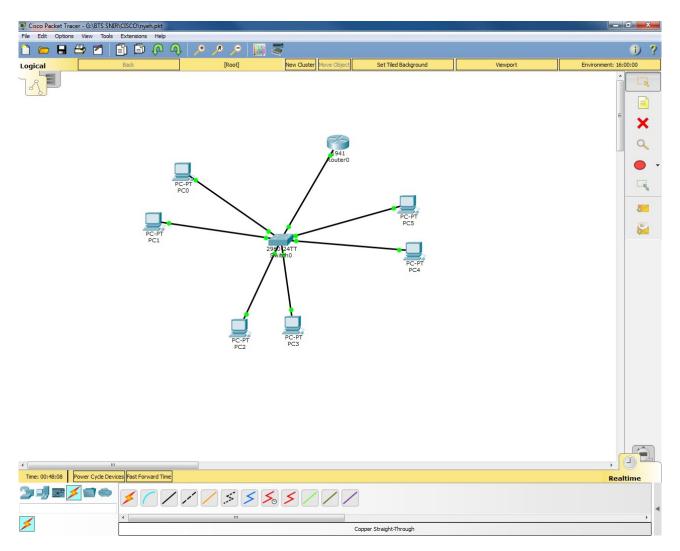
Compte rendu

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

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 YES manual up 192.168.0.1 up GigabitEthernet0/0.3 YES manual up 192.168.1.1 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

VLAN	Name	Status	Ports
1	default	active	Fa0/1, Fa0/2, Fa0/15, Fa0/16 Fa0/17, Fa0/18, Fa0/19, Fa0/20 Fa0/21, Fa0/22, Fa0/23, Fa0/24 Gi0/1, Gi0/2
2	VLANdeux	active	Fa0/4, Fa0/5, Fa0/6
3	VLANtrois	active	Fa0/7, Fa0/8, Fa0/9, Fa0/10
4	VLANquatre	active	Fa0/11, Fa0/12, Fa0/13, Fa0/14
1002	fddi-default	act/unsup	
1003	token-ring-default	act/unsup	
1004	fddinet-default	act/unsup	
1005	trnet-default	act/unsup	

Propriétés de : Protocole Internet version 4 (TCP/IPv4)				
Général Les paramètres IP peuvent être déterminés automatiquement si votre réseau le permet. Sinon, vous devez demander les paramètres IP appropriés à votre administrateur réseau.				
				Obtenir une adresse IP automatiquement
Utiliser l'adresse IP suivante :				
Adresse IP :	192 . 168 . 0 . 2			
Masque de sous-réseau :	255 . 255 . 255 . 0			
Passerelle par défaut :	192 . 168 . 0 . 1			
Obtenir les adresses des serveur Utiliser l'adresse de serveur DNS	•			
Serveur DNS préféré :				
Serveur DNS auxiliaire :				
☐ Valider les paramètres en quittant Avancé				
OK Annuler				

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