

## SOMMAIRE

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## 1. Configuration du commutateur SW1

```
Current configuration : 1143 bytes
!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname SW1
!
enable secret 5 $1$mERx$hFcHryO1v5qWPxVvkKIYMc/
!
!
no ip domain-lookup
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
--More--
```

```
!
interface FastEthernet0/9
 switchport access vlan 10
 switchport mode access
 switchport port-security
!
interface FastEthernet0/10
 switchport access vlan 10
 switchport mode access
 switchport port-security
!
interface FastEthernet0/11
 switchport access vlan 20
 switchport mode access
 switchport port-security
!
interface FastEthernet0/12
 switchport access vlan 20
 switchport mode access
 switchport port-security
!
interface FastEthernet0/24
 switchport access vlan 30
 switchport mode access
 switchport port-security
```

```
!
interface FastEthernet0/19
 switchport access vlan 20
 switchport mode access
 switchport port-security
!
interface FastEthernet0/20
 switchport access vlan 20
 switchport mode access
 switchport port-security
!
interface FastEthernet0/21
 switchport access vlan 30
 switchport mode access
 switchport port-security
!
```

```
!
interface FastEthernet0/1
 switchport access vlan 10
 switchport mode access
 switchport port-security
!
interface FastEthernet0/2
 switchport access vlan 10
 switchport mode access
 switchport port-security
!
interface FastEthernet0/24
 switchport access vlan 30
 switchport mode access
!
interface GigabitEthernet0/1
 switchport mode trunk
!
interface GigabitEthernet0/2
 shutdown
!
interface Vlan1
 ip address 192.168.0.2 255.255.255.252
!
ip default-gateway 192.168.0.1
!
!
!
access-list 1 permit 192.168.1.0 0.0.0.15
line con 0
 password 7 0800564B1B0D1C47
 logging synchronous
 login
!
line vty 0 4
 access-class 1 in
 password 7 0800564B1B0D1C47
 login
 transport input telnet
line vty 5 15
 access-class 1 in
 password 7 0800564B1B0D1C47
 login
 transport input telnet
```

## 2. Configuration du routeur R1

Current configuration : 2020 bytes

```
!
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname R1
!
!
!
!
enable secret 5 $1$mERr$hFcHryOlvSqWpXVvKkiYMc/
!
!
ip dhcp excluded-address 192.168.1.1
ip dhcp excluded-address 192.168.1.17
ip dhcp excluded-address 192.168.1.33
!
ip dhcp pool vlan10
network 192.168.1.0 255.255.255.240
default-router 192.168.1.1
dns-server 192.168.1.34
ip dhcp pool vlan20
network 192.168.1.16 255.255.255.240
default-router 192.168.1.17
dns-server 192.168.1.34
ip dhcp pool vlan30
network 192.168.1.32 255.255.255.248
default-router 192.168.1.33
dns-server 192.168.1.34
!
!
!
ip cef
```

```
no ip domain-lookup
!
!
spanning-tree mode pvst
!
!
!
!
!
!
interface GigabitEthernet0/0
ip address 192.168.0.1 255.255.255.252
duplex auto
speed auto
!
interface GigabitEthernet0/0.10
encapsulation dot1Q 10
ip address 192.168.1.1 255.255.255.240
!
interface GigabitEthernet0/0.20
encapsulation dot1Q 20
ip address 192.168.1.17 255.255.255.240
!
interface GigabitEthernet0/0.30
encapsulation dot1Q 30
ip address 192.168.1.33 255.255.255.248
ip access-group server-access&retour out
!
interface GigabitEthernet0/1
no ip address
duplex auto
speed auto
shutdown
```

```
access-list 1 permit 192.168.1.0 0.0.0.15
ip access-list extended server-access&retour
permit tcp 192.168.1.16 0.0.0.15 host 192.168.1.34 eq www
permit icmp 192.168.1.0 0.0.0.31 host 192.168.1.34 echo
permit tcp 192.168.1.0 0.0.0.31 host 192.168.1.34 eq domain
permit udp 192.168.1.0 0.0.0.31 host 192.168.1.34 eq domain
permit tcp any host 192.168.1.34 established
permit icmp any host 192.168.1.34 echo-reply
!
!
!
!
!
!
line con 0
password 7 0800564B1B0D1C47
logging synchronous
login
!
line aux 0
!
line vty 0 4
access-class 1 in
password 7 0800564B1B0D1C47
login
transport input telnet
!
!
```

### 3. Travail à faire

Mettre en place le réseau et configurer les différents équipements. Le serveur présent dans le VLAN 30 héberge les services Web et DNS (onglet **Services**).

Serveur Vlan30 qui heberge le WEB et le DNS :

DNS Service  On  Off

---

Resource Records

Name  Type

Address

No.	Name	Type	Detail
0	vlan30dns	A Record	192.168.1.34

HTTP

HTTP

On  Off

HTTPS

On  Off

File Manager

	File Name	Edit	Delete
1	copyrights.html	(edit)	(delete)
2	cscoptlogo177x111.jpg		(delete)
3	helloworld.html	(edit)	(delete)
4	image.html	(edit)	(delete)
5	index.html	(edit)	(delete)

pour voir le reste configuration de Switch1 et router1 aller au point 1 et 2 du compte rendu

## TP18 : Routage Inter-Vlan

```

SW1#sh vlan br

VLAN Name                Status    Ports
-----
1    default                active    Gig0/2
10   VLAN0010                active    Fa0/1, Fa0/2, Fa0/3, Fa0/4
                                           Fa0/5, Fa0/6, Fa0/7, Fa0/8
                                           Fa0/9, Fa0/10
20   VLAN0020                active    Fa0/11, Fa0/12, Fa0/13, Fa0/14
                                           Fa0/15, Fa0/16, Fa0/17, Fa0/18
                                           Fa0/19, Fa0/20
30   VLAN0030                active    Fa0/21, Fa0/22, Fa0/23, Fa0/24
1002 fddi-default            active
1003 token-ring-default    active
1004 fddinet-default       active
1005 trnet-default         active
SW1#

r1#sh access-lists
Standard IP access list 1
 10 permit 192.168.1.0 0.0.0.15
Extended IP access list server-accessroute
 10 permit tcp 192.168.0.0 0.0.0.255 192.168.1.1 0.0.0.1
 20 permit icmp 192.168.0.0 0.0.0.255 192.168.1.1 0.0.0.1
 30 permit tcp 192.168.0.0 0.0.0.255 192.168.1.1 0.0.0.1
 40 permit udp 192.168.0.0 0.0.0.255 192.168.1.1 0.0.0.1
 50 permit tcp 192.168.0.0 0.0.0.255 192.168.1.1 0.0.0.1
 60 permit icmp 192.168.0.0 0.0.0.255 192.168.1.1 0.0.0.1
r1#

r1#sh ip int br
Interface          IP-Address      OK? Method Status  Protocol
GigabitEthernet0/0 192.168.0.1    YES manual up      up
GigabitEthernet0/0.10 192.168.1.1    YES manual up      up
GigabitEthernet0/0.20 192.168.1.17   YES manual up      up
GigabitEthernet0/0.30 192.168.1.33   YES manual up      up
GigabitEthernet0/1  unassigned     YES unset  administratively down down
Vlan1              unassigned     YES unset  administratively down down
r1#sh ip dhcp pool

```

1. Vérifier que seuls les hôtes du VLAN 10 peuvent manager le switch ainsi que le routeur via telnet

```

C:\>telnet 192.168.0.2
Trying 192.168.0.2 ...Open

User Access Verification

Password:
SW1>

```

```

C:\>telnet 192.168.0.1
Trying 192.168.0.1 ...Open

User Access Verification

Password:
r1>

```

vlan 20 na pas acces

```

Cisco Packet Tracer PC Command Line 1.0
C:\>telnet 192.168.0.1
Trying 192.168.0.1 ...
% Connection timed out; remote host not responding
C:\>telnet 192.168.0.2
Trying 192.168.0.2 ...
% Connection timed out; remote host not responding
C:\>

```

## TP18 : Routage Inter-Vlan

2. Vérifier que les machines des VLAN 10 et 20 peuvent « pinguer » le serveur du VLAN 30.

vlan10

Vlan20

```
C:\>ping 192.168.1.34

Pinging 192.168.1.34 with 32 bytes of data:

Request timed out.
Reply from 192.168.1.34: bytes=32 time<1ms TTL=127
Reply from 192.168.1.34: bytes=32 time<1ms TTL=127
Reply from 192.168.1.34: bytes=32 time<1ms TTL=127
Reply from 192.168.1.34: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.1.34:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

```
C:\>ping 192.168.1.34

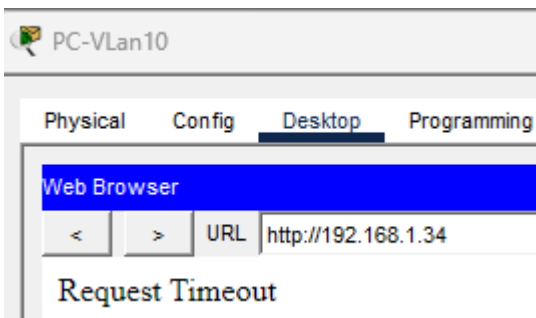
Pinging 192.168.1.34 with 32 bytes of data:

Reply from 192.168.1.34: bytes=32 time<1ms TTL=127
Reply from 192.168.1.34: bytes=32 time<1ms TTL=127
Reply from 192.168.1.34: bytes=32 time<1ms TTL=127
Reply from 192.168.1.34: bytes=32 time<1ms TTL=127

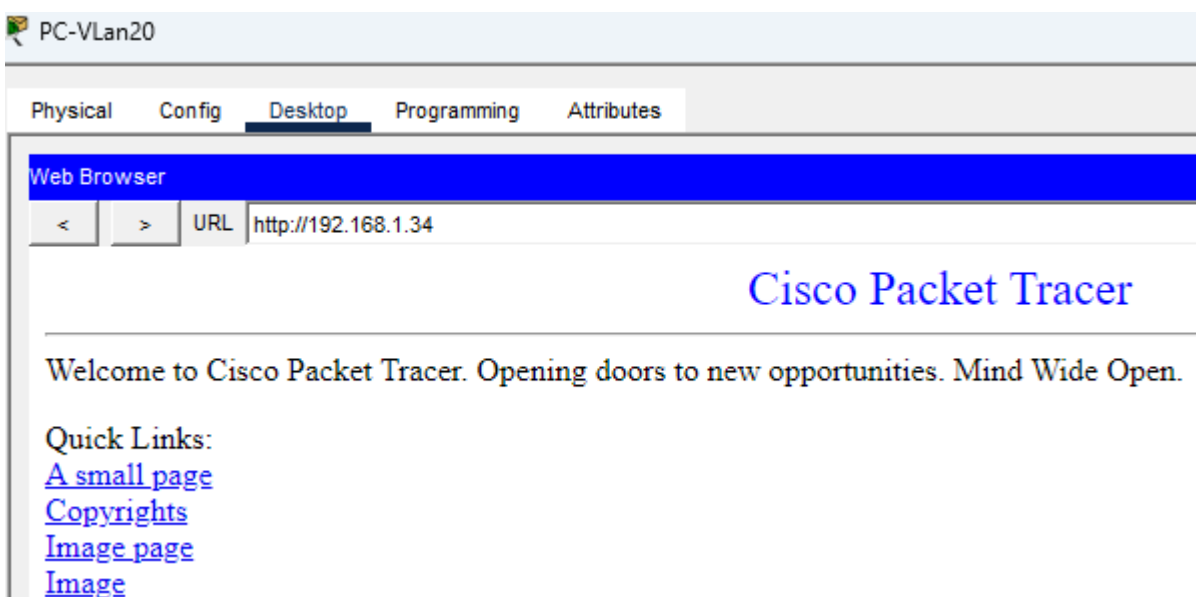
Ping statistics for 192.168.1.34:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

3.

4. Vérifier que seuls les hôtes du VLAN 20 peuvent accéder à l'application Web de ce serveur.



**Les pc du vlan 20 peuvent se connecte au web mais ceux du vlan 10**



## TP18 : Routage Inter-Vlan