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12/12/2022

TP ROUTAGE

U4. CONCEVOIR.MAQUETTER INFRA

Configuration équipement

RIP TEST

Commandes :

- 1) Enable = rentrer en mode superviseur
- 2) Conf t = Configure Terminal = mode de configuration global
- 3) Interface FastEthernet 0/0 = on sélectionne l'interface 0/0
- 4) Ip address ... = On lui attribue l'ip ...
- 5) No shutdown = on active l'interface

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet 0/0
Router(config-if)#ip address 10.0.0.3 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
```

Router Bordure Site 1

WAN : Interface fa0/0

Commandes :

- 1) Enable = rentrer en mode privilégié
- 2) Conf t = Configure Terminal = mode de configuration global
- 3) Interface FastEthernet 0/0 = on sélectionne l'interface 0/0
- 4) Ip address ... = On lui attribue l'ip ...
- 5) No shutdown = on active l'interface

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet 0/0
Router(config-if)#ip address 10.0.0.1 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
```

LAN : Interface fa0/1

Commandes :

- 6) Enable = rentrer en mode privilégié
- 7) Conf t = Configure Terminal = mode de configuration global
- 8) Interface FastEthernet 0/1 = on sélectionne l'interface 0/1
- 9) Ip address ... = On lui attribue l'ip ...
- 10) No shutdown = on active l'interface

```
Router(config)#interface FastEthernet 0/1
Router(config-if)#ip address 172.16.0.254 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
```

Interface virtuelle fa0/1.1

Commandes :

- 1) Enable = rentrer en mode privilégié
- 2) Conf t = Configure Terminal = mode de configuration global
- 3) Interface FastEthernet 0/1.1 = on crée l'interface virtuel 1 de fa0/1
- 4) Encapsulation dot1Q 1 = permet donc d'encapsuler une trame pour transiter sur le vlan 1
- 5) Ip address ... = On lui attribue l'ip ...
- 6) No shutdown = on active l'interface

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet 0/1.1
Router(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/1.1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1.1, changed state to up

Router(config-subif)#encapsulation dot1Q 1
Router(config-subif)#ip address 172.16.0.254 255.255.255.0
% 172.16.0.0 overlaps with FastEthernet0/1
Router(config-subif)#no shutdown
```

Interface virtuelle fa0/1.2

Commandes :

- 1) Interface FastEthernet 0/1.2 = on crée l'interface virtuel 2 de fa0/1
- 2) Encapsulation dot1Q 10 = permet donc d'encapsuler une trame pour transiter sur le vlan 10
- 3) Ip address ... = On lui attribue l'ip ...
- 4) No shutdown = on active l'interface

```
Router(config)#interface FastEthernet 0/1.2
Router(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/1.2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1.2, changed state to up

Router(config-subif)#ip address 172.16.10.254 255.255.255.0

% Configuring IP routing on a LAN subinterface is only allowed if that
subinterface is already configured as part of an IEEE 802.10, IEEE 802.1Q,
or ISL vLAN.

Router(config-subif)#encapsulation dot1Q 10
Router(config-subif)#no shutdown
```

Ne pas oublier de faire : Write

```
Router#write
Building configuration...
[OK]
Router#
```

Switch Cœur

Commandes :

- 1) Enable = rentrer en mode privilégié
- 2) Conf t = Configure Terminal = mode de configuration global
- 3) Vlan 10 = on créer le Vlan 10

```
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#Vlan 10
Switch(config-vlan)#
```

Interface Gig0/1

- 1) Enable = rentrer en mode privilégié
- 2) Conf t = Configure Terminal = mode de configuration global
- 3) Interface Gig0/1
- 4) Switchport mode trunk
- 5) Switchport trunk allowed vlan 1,10

```
Switch>enable
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface Gig0/1
Switch(config-if)#switchport mode trunk

Switch(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up

Switch(config-if)#switchport trunk allowed vlan 1,10
Switch(config-if)#
```

Interface fa0/1

- 1) Interface fa0/1
- 2) Switchport mode access
- 3) Switchport access vlan 1

```
Switch(config)#interface fa0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 1
Switch(config-if)#
```

Interface fa0/2

- 1) Interface fa0/2
- 2) Switchport mode trunk
- 3) Switchport trunk allowed vlan 1,10

```
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface fa0/2
Switch(config-if)#switchport mode trunk

Switch(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up

Switch(config-if)#switchport trunk allowed vlan 1,10
Switch(config-if)#end
```

Ne pas oublier de faire : Write

```
Switch#write
Building configuration...
[OK]
Switch#
```

Switch 11

Interface fa0/1

- 1) Interface fa0/1
- 2) Switchport mode access
- 3) Switchport access vlan 1

```
Switch(config)#interface fa0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 1
Switch(config-if)#
```

Interface fa0/2

- 1) Interface fa0/2
- 2) Switchport mode access
- 3) Switchport access vlan 1

```
Switch(config)#interface fa0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 1
Switch(config-if)#
```

Ne pas oublier de WRITE

Switch 12

Commandes :

- 1) Enable = rentrer en mode privilégié
- 2) Conf t = Configure Terminal = mode de configuration global
- 3) Vlan 10 = on créer le Vlan 10

```
Switch>enable
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#Vlan 10
```

Interface fa0/1

- 1) Interface fa0/1
- 2) Switchport mode trunk
- 3) Switchport trunk allowed vlan 1,10

```
Switch(config)#interface fa0/1
Switch(config-if)#switchport mode trunk
Switch(config-if)#switchport trunk allowed vlan 1,10
Switch(config-if)#
```

Interface fa0/2

- 1) Interface fa0/2
- 2) Switchport mode access
- 3) Switchport access vlan 1

```
Switch(config)#interface fa0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 1
Switch(config-if)#exit
```

Interface fa0/3

- 1) Interface fa0/2
- 2) Switchport mode access
- 3) Switchport access vlan 1

```
Switch(config)#interface fa0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 1
Switch(config-if)#exit
```

Ne pas oublier de WRITE

PC0

Physical **Config** Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

Global Settings

Display Name

Interfaces

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway

DNS Server

PC1