

VOICE IP- TOPOLOGIE CISCO

ID: ID_8tp4

Number of Columns: 2

Largest Column: standard

border: off



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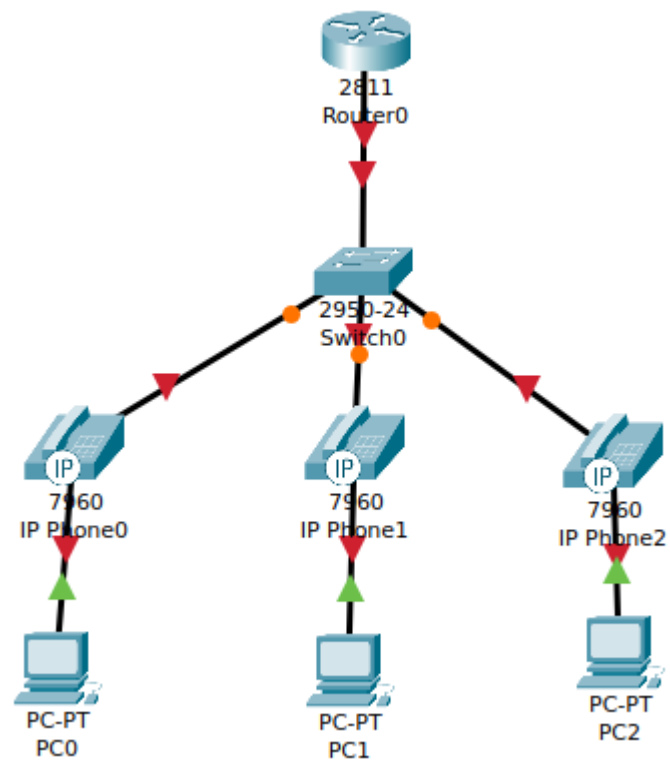
Supervisor

Pr. VIDEME

0.1. Sommaire

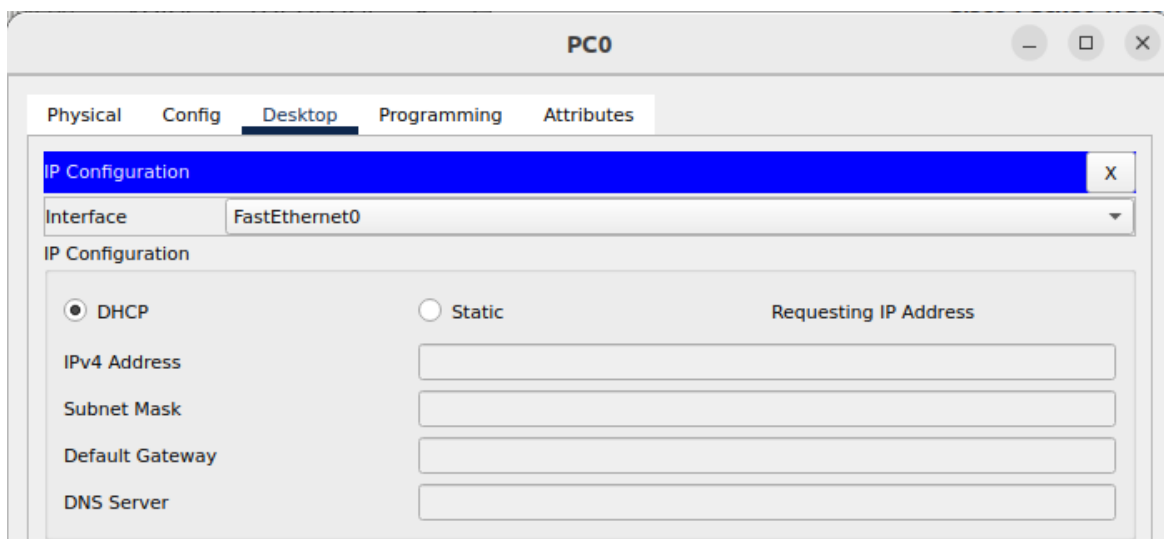
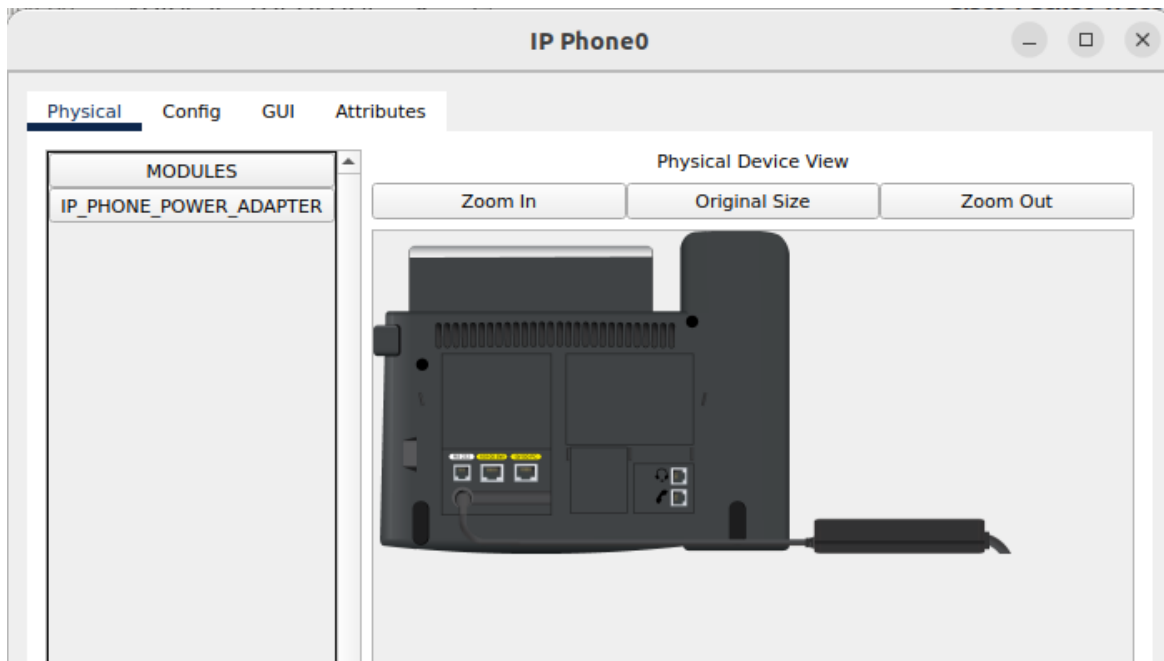
1. Topologie Logique
2. Configuration
3. Test

0.1. Topologie Logique



0.1. Configuration

NB : - Alimenter les phones et Mettre le mode DHCP sur les PCs



Commande - Switch :



Vlan - Port Access - Port Trunk:

```
en
config t
vlan 10
name Data
exit
vlan 20
```

```

name Voice
exit
vlan 50
name NATIVE
exit
int fa0/4
switchport mode trunk
no sh
exit
int range fa0/1-3
switchport mode access
switchport access vlan 10
switchport voice vlan 20
no sh
exit
do copy run start

```

Résultat :

```
Switch(config-if)#do sh vlan
```

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

```
Switch(config-if)#do sh int tr
```

Port	Mode	Encapsulation	Status	Native vlan
Fa0/4	on	802.1q	trunking	1
Port	Vlans allowed on trunk			
Fa0/4	1-1005			
Port	Vlans allowed and active in management domain			
Fa0/4	1,10,20,50			
Port	Vlans in spanning tree forwarding state and not pruned			
Fa0/4	none			

Commande - Router : **



Sous- Interface:

```

int fa0/0.10
encapsulation dot1q 10
ip add 192.168.10.1 255.255.255.0
no sh
int fa0/0.20

```

```
encapsulation dot1q 20
ip add 192.168.20.1 255.255.255.0
no sh
exit
int fa0/0.50
encapsulation dot1q 50 native
no sh
exit
```



DHCP:

```
ip dhcp excluded-address 192.168.10.1
ip dhcp excluded-address 192.168.20.1
ip dhcp pool Data10
network 192.168.10.0 255.255.255.0
default-router 192.168.10.1
dns-server 8.8.8.8
exit
ip dhcp pool Voice20
network 192.168.20.0 255.255.255.0
default-router 192.168.20.1
option 150 ip 192.168.20.1
dns-server 8.8.8.8
exit
```



Telephony-Service:

```
telephony-service
max-dn 3
max-ephones 3
ip source-address 192.168.20.1 port 2000
ephone-dn 1
number 1010
ephone-dn 2
number 1020
ephone-dn 3
number 1030
exit
ephone 1
type 7960
button 1:1
ephone 2
type 7960
button 1:2
ephone 3
type 7960
button 1:3
exit
do copy run start
```

Résultat :



Test appel :

