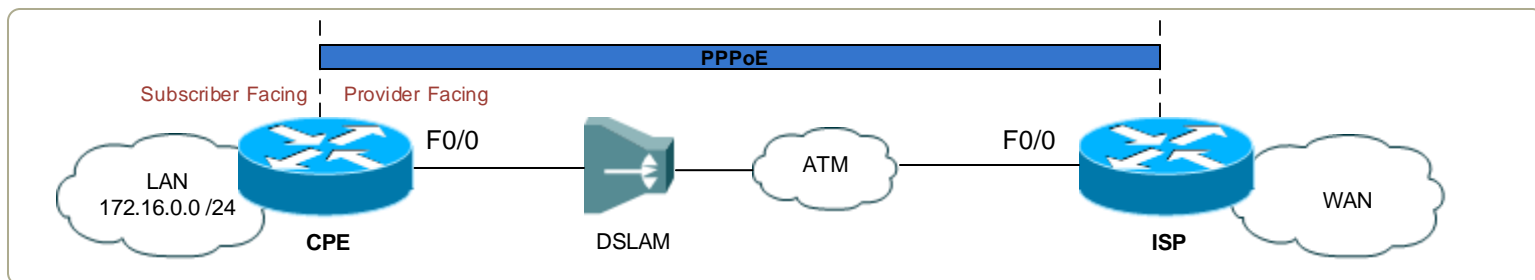


## Topologie



## CPE

### Customer Premises Equipment

```
! Step 1 : Configurer les interfaces Ethernet (SF/PF)
interface FastEthernet 0/1
  ip address 172.16.0.1 255.255.255.0
!
interface FastEthernet 0/0
  no ip address
  pppoe enable
  pppoe-client dial-pool-number 1
! Ethernet 0/1 est lié au Dialer 1 et à un PVC ATM qui est
automatiquement créer au travers du Dialer.
!
! Step 2 : Configurer l'interface Dialer
interface Dialer 0
  ip address negotiated
  ip mtu 1492
  dialer pool 1
  encapsulation ppp
  ppp chap username CPE
  ppp chap password 0 cisco
!
! Step 3 : Configurer le PAT
interface Dialer 0
  ip nat outside
interface FastEthernet 0/1
  ip nat inside
!
access-list 100 permit ip 172.16.0.0 0.0.0.255 any
Ip nat inside source list 100 interface dialer 0 overload
!
! Step 4 : Configurer la route statique par défaut
Ip route 0.0.0.0 0.0.0.0 dialer 0
```

## ISP

### Internet Service Provider

```
! Step 1 : Configurer le mot de passe PPP du CPE
username CPE password 0 cisco
!
! Step 2 : Configurer le « Broadband Aggregation group » (BBA)
bba-group pppoe MyGroup
virtual-template 1
sessions per-mac limit 2
!
! Step 3 : Activation du group PPPoE sur l'interface SF
interface FastEthernet0/0
  no ip address
  duplex auto
  speed auto
  pppoe enable group MyGroup
!
! Step 4 : Configurer l'interface Virtual-Template
interface Virtual-Template1
  ip address 10.0.0.1 255.255.255.0
  peer default ip address pool MyPool
  ppp authentication chap callin
!
! Step 5 : On définis le pool d'adresses IP pour MyPool
ip local pool MyPool 10.0.0.2 10.0.0.254
```

## Troubleshooting

```
show ip int brief
```

```
CPE# show ip interface brief
```

Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/0		unassigned	YES	manual	up
[...]					
Virtual-Access1		unassigned	YES	unset	up
Dialer1	10.0.0.2	YES	IPCP	up	up

```
show pppoe session
```

```
CPE# show pppoe session
```

```
1 client session
Uniq ID PPPoE RemMAC Port Source VA State SID LocMAC VA-st
N/A 16 ca00.4843.0008 Fa0/0 Di1 Vi1 UP ca01.4843.0008 UP
```