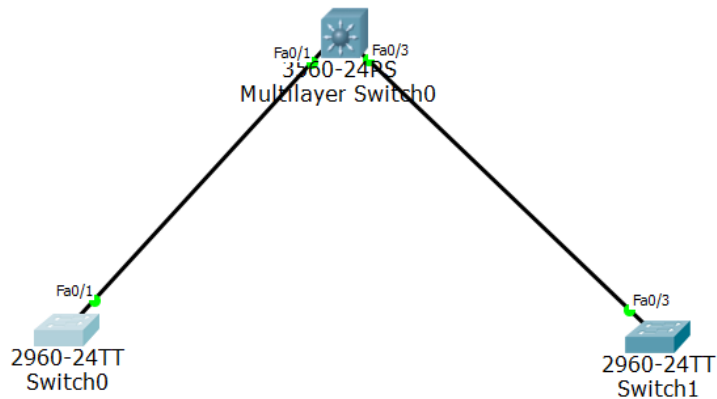Esempio di intervlan routing con switch backbone

Configurazione Multilayer Switch0

```
Backbone#sh run
Building configuration...

Current configuration : 1389 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Backbone
ip routing
spanning-tree mode pvst
!
!
interface FastEthernet0/1
switchport access vlan 2
switchport trunk allowed vlan 2
switchport mode access
!
interface FastEthernet0/2
!
interface FastEthernet0/3
switchport access vlan 3
switchport mode access
!
interface FastEthernet0/4
!
```

```
interface FastEthernet0/24
!
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
!
interface Vlan1
no ip address
shutdown
!
interface Vlan2
ip address 172.16.51.254 255.255.255.0
!
interface Vlan3
ip address 172.16.61.254 255.255.255.0
!
ip classless
!
ip flow-export version 9
!
!
!
!
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
login
!
!
!
end


Backbone#
```

Configurazione 2960 Switch0

```
Switch#sh run
Building configuration...

Current configuration : 1184 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Switch
!
!
!
!
!
spanning-tree mode pvst
!
interface FastEthernet0/1
switchport access vlan 2
switchport mode access
!
```

```
interface FastEthernet0/2
!
interface FastEthernet0/3
!
interface FastEthernet0/4
!
interface FastEthernet0/5
!
interface FastEthernet0/6
!
interface FastEthernet0/7
!
interface FastEthernet0/8
!
interface FastEthernet0/9
!
interface FastEthernet0/10
!
interface FastEthernet0/11
!
interface FastEthernet0/12
!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
interface FastEthernet0/16
!
interface FastEthernet0/17
!
interface FastEthernet0/18
!
interface FastEthernet0/19
!
interface FastEthernet0/20
!
interface FastEthernet0/21
!
interface FastEthernet0/22
!
interface FastEthernet0/23
!
interface FastEthernet0/24
!
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
!
interface Vlan1
no ip address
shutdown
!
interface Vlan2
ip address 172.16.51.6 255.255.255.0
!
ip default-gateway 172.16.51.254
!
!
!
!
line con 0
!
line vty 0 4
login
line vty 5 15
login
!
!
```

```
end
```

Configurazione 2960 Switch1

```
Switch#sh run
Building configuration...

Current configuration : 1184 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Switch
!
!
!
!
!
spanning-tree mode pvst
!
interface FastEthernet0/1
!
interface FastEthernet0/2
!
interface FastEthernet0/3
switchport access vlan 3
switchport mode access
!
interface FastEthernet0/4
!
interface FastEthernet0/5
!
interface FastEthernet0/6
!
interface FastEthernet0/7
!
interface FastEthernet0/8
!
interface FastEthernet0/9
!
interface FastEthernet0/10
!
interface FastEthernet0/11
!
interface FastEthernet0/12
!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
interface FastEthernet0/16
!
interface FastEthernet0/17
!
interface FastEthernet0/18
!
interface FastEthernet0/19
!
interface FastEthernet0/20
!
interface FastEthernet0/21
!
interface FastEthernet0/22
!
interface FastEthernet0/23
!
interface FastEthernet0/24
```

```
!
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
!
interface Vlan1
no ip address
shutdown
!
interface Vlan3
ip address 172.16.61.6 255.255.255.0
!
ip default-gateway 172.16.61.254
!
!
!
!
line con 0
!
line vty 0 4
login
line vty 5 15
login
!
!
end
```

Prova tra 2960Switch0 e 2960switch1

```
Switch#ping 172.16.51.6

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.16.51.6, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/1 ms

Switch#trace
Switch#traceroute 172.16.51.6
Type escape sequence to abort.
Tracing the route to 172.16.51.6

1 172.16.61.254 0 msec 1 msec 1 msec
2 172.16.51.6 0 msec 0 msec 1 msec
```

Configurazione IP 2960switch0

```
Switch#sh ip interface vlan3
Vlan3 is up, line protocol is up
Internet address is 172.16.61.6/24
Broadcast address is 255.255.255.255
```