

Adressage automatique en IPv6 SLAAC et DHCPv6

Adressage automatique en IPv6 : SLAAC et DHCPv6

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Préparation du labo

Equipements

1 Routeur (2911)

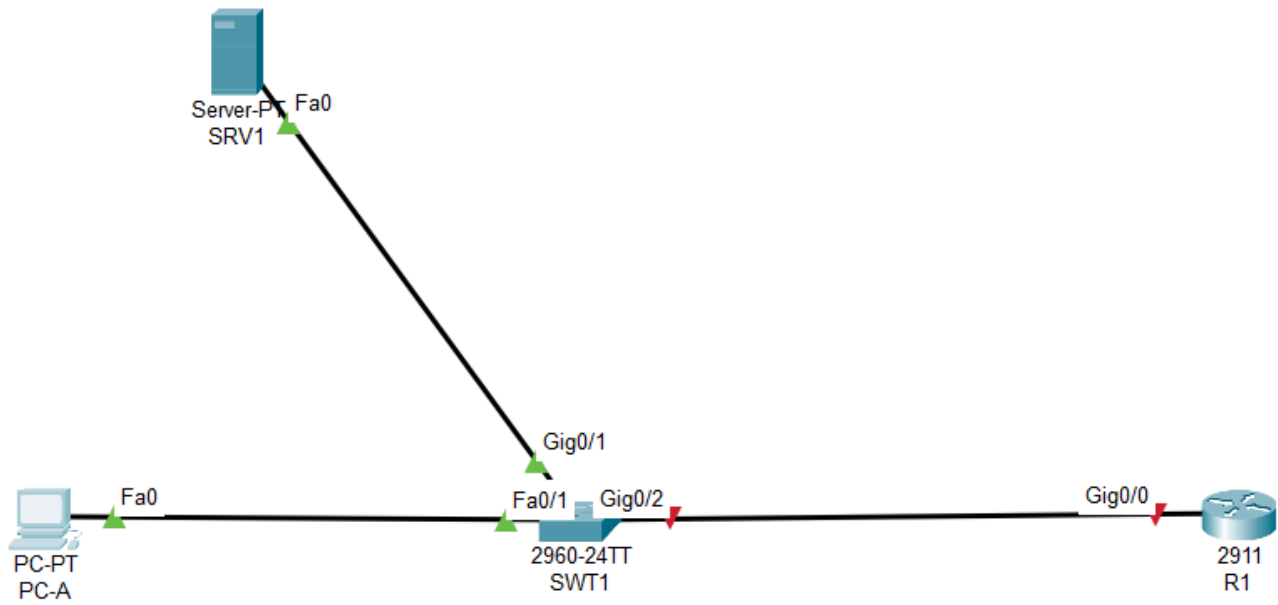
1 SWT (2960)

1 Server

1 PC



Topologie



Adressage

The screenshot shows a configuration window for a device named SRV1. The 'Desktop' tab is selected, and the 'IP Configuration' section is active. It contains three sub-sections: IP Configuration, IPv6 Configuration, and 802.1X. In the IP Configuration section, 'Static' is selected, and the IPv4 Address, Subnet Mask, Default Gateway, and DNS Server fields are empty. In the IPv6 Configuration section, 'Static' is selected, and the IPv6 Address is set to 2001:db8:acad:1::100 with a prefix length of 64. The Link Local Address is FE80::2D0:97FF:FED5:C213, the Default Gateway is fe80::1, and the DNS Server is 2001:db8:acad:1::100. In the 802.1X section, 'Use 802.1X Security' is unchecked, and the Authentication is set to MD5. The Username and Password fields are empty. A 'Top' button is located at the bottom left of the window.

SRV1

Physical Config Services **Desktop** Programming Attributes

IP Configuration X

IP Configuration

☐ DHCP ☒ Static

IPv4 Address

Subnet Mask

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address 2001:db8:acad:1::100 / 64

Link Local Address FE80::2D0:97FF:FED5:C213

Default Gateway fe80::1

DNS Server 2001:db8:acad:1::100

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

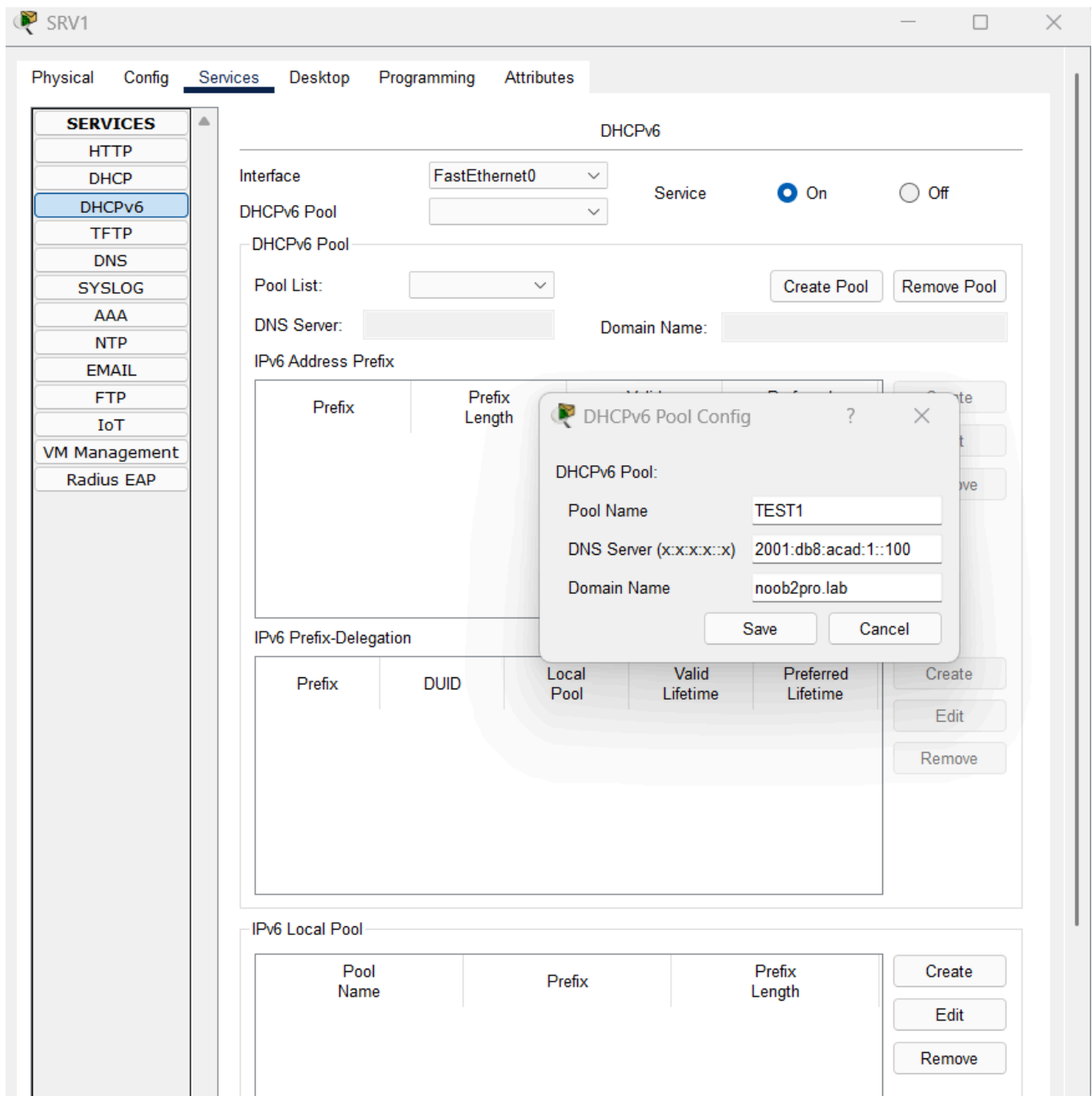
☐ Top

Configuration du routeur (SLAAC seul)

```
interface GigabitEthernet0/0
ipv6 address 2001:db8:acad:1::1/64

R1(config-if)#exit
R1(config)#interface GigabitEthernet0/0
R1(config-if)#ipv6 address 2001:db8:acad:1::1/64
R1(config-if)#no shut
```

Configuration SLAAC + DHCPv6 Stateless (Le meilleur des deux mondes)



Sur le routeur

```
interface GigabitEthernet0/0
ipv6 nd other-config-flag
```

DHCPv6 Stateful (Le contrôle total)

Sur le Serveur

Physical
Config
Services
Desktop
Programming
Attributes

SERVICES

HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
IoT
VM Management
Radius EAP

DHCPv6

Interface

FastEthernet0

DHCPv6 Pool

TEST1

DHCPv6 Pool

Pool List:

TEST1

Create Pool

Remove Pool

DNS Server:

2001:DB8:ACAD:1::100

Domain Name:

noob2pro.lab

IPv6 Address Prefix

Prefix	Prefix Length	Valid Lifetime	Preferred Lifetime

Create

Edit

Remove

IPv6 Prefix-Delegation

Prefix	DUID	Local Pool	Valid Lifetime	Preferred Lifetime

Create

Edit

Remove

IPv6 Local Pool

Pool Name	Prefix	Prefix Length
2001:db8:acad:1::10	2001:DB8:ACAD:1::10/64	53

Create

Edit

Remove

Sur le routeur

Supprimer l'ancien drapeaux

```

interface GigabitEthernet0/0
no ipv6 nd other-config-flag
R1(config)#interface GigabitEthernet0/0
R1(config-if)#no ipv6 nd other-config-flag

```

Ajouter le nouveau drapeaux

```

ipv6 nd managed-config-flag

```

```
... ..  
R1(config-if)#ipv6 nd managed-config-flag  
R1(config-if)#exit  
... ..
```