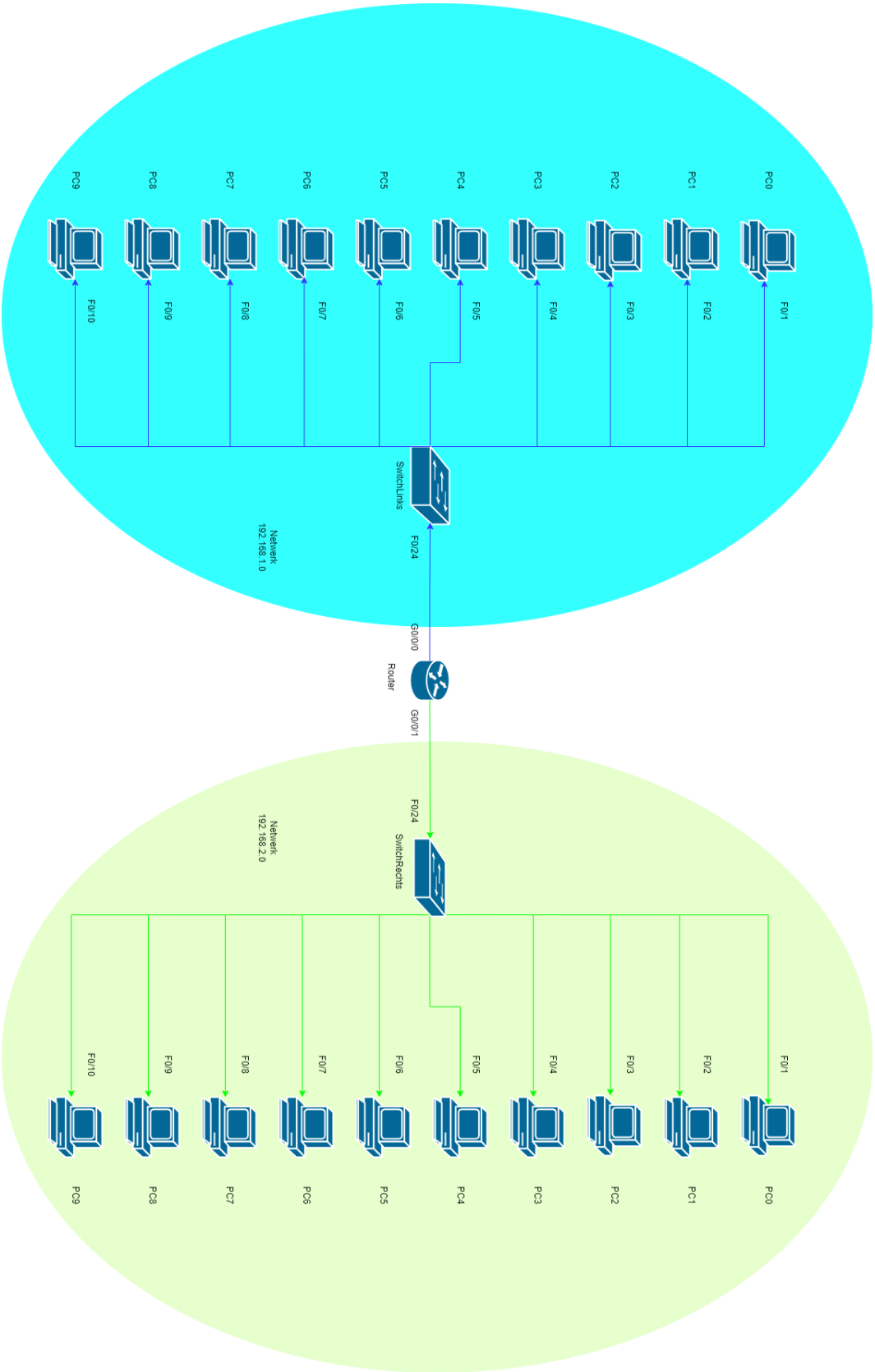


Netwerkdokumentatie

Netwerk overzicht

- 1 Router
 - Cisco ISR4321 (Router)
- 2 Switches
 - Cisco 2960 (SwitchLinks)
 - Cisco 2960 (SwitchRechts)
- 10 PC's
 - Verbonden via UTP kabel

Logisch network topologie



Apparaat	Interface/Poort	Netwerk	IP-adres	Subnetmasker	VLAN	Opmerking
Router (ISR 4331)	Gi0/0/0	192.168.1.0/24	192.168.1.1	255.255.255.0	VLAN 10	Verbonden met Switch 1 (Fa0/1)
	Gi0/0/1	192.168.2.0/24	192.168.2.1	255.255.255.0	VLAN 20	Verbonden met Switch 2 (Fa0/1)
Switch 1 (2960)	VLAN 10	192.168.1.0/24	192.168.1.2	255.255.255.0	VLAN 10	Verbonden met Router Gi0/0/0
	Fa0/1 - Fa0/10		DHCP		VLAN 10	10 computers
Switch 2 (2960)	VLAN 20	192.168.2.0/24	192.168.2.2	255.255.255.0	VLAN 20	Verbonden met Router Gi0/0/1
	Fa0/1 - Fa0/10		DHCP		VLAN 20	10 computers
PC's (VLAN 10)	Fa0/1 - Fa0/10 (SW1)	192.168.1.0/24	192.168.1.11 - .20	255.255.255.0	VLAN 10	10 computers
PC's (VLAN 20)	Fa0/1 - Fa0/10 (SW2)	192.168.2.0/24	192.168.2.11 - .20	255.255.255.0	VLAN 20	10 computers

DHCP Configuratie

```
ip dhcp excluded-address 192.168.1.1 192.168.1.10
```

```
ip dhcp excluded-address 192.168.2.1 192.168.2.10
```

```
!
```

```
ip dhcp pool VLAN10
```

```
network 192.168.1.0 255.255.255.0
```

```
default-router 192.168.1.1
```

```
dns-server 8.8.8.8
```

```
!
```

```
ip dhcp pool VLAN20
```

```
network 192.168.2.0 255.255.255.0
```

default-router 192.168.2.1

dns-server 8.8.8.8

!

Configuratie Router

Using 1041 bytes

!

version 15.4

no service timestamps log datetime msec

no service timestamps debug datetime msec

service password-encryption

!

hostname Router0

!

!

!

enable secret 5 \$1\$mERr\$vkYaXnKGfLgWNDfn7gSo9/

!

!

!

!

!

!

ip cef

ipv6 unicast-routing

!

no ipv6 cef

!

!

!

username admin privilege 15 secret 5 \$1\$mERr\$vkYaXnKGfLgWNDfn7gSo9/

!

!

!

```
!  
!  
!  
!  
!  
  
ip domain-name CoteurBen.local  
!  
!  
  
spanning-tree mode pvst  
!  
!  
!  
!  
!  
!  
  
interface GigabitEthernet0/0/0  
description verbinding naar LAN1  
ip address 192.168.1.1 255.255.255.0  
  
duplex auto  
  
speed auto  
  
ipv6 address 2001:DB8:1::1/64  
  
ipv6 enable  
!  
  
interface GigabitEthernet0/0/1  
description Verbinding naar LAN2  
ip address 192.168.2.1 255.255.255.0  
  
duplex auto  
  
speed auto  
  
ipv6 address 2001:DB8:2::1/64  
  
ipv6 enable  
!  
  
interface Vlan1  
no ip address  
  
shutdown  
!  
  
ip classless  
!  
  
ip flow-export version 9
```

!

!

!

banner motd ^Cerboden toegang voor onbevoegden!

^C

!

!

!

!

line con 0

password 7 08117462

login

!

line aux 0

!

line vty 0 4

password 7 08117462

login local

transport input ssh

!

!

!

end

Alle wachtwoorden zijn PXL

Configuratie SwitchLinks

Current configuration : 2533 bytes

!

version 15.0

no service timestamps log datetime msec

no service timestamps debug datetime msec

service password-encryption

!

hostname SwitchLinks

```
!  
  
enable secret 5 $1$mERr$vkYaXnKGfLgWNDfn7gSo9/  
  
!  
  
!  
  
!  
  
ip domain-name PXL  
  
!  
  
username admin secret 5 $1$mERr$vkYaXnKGfLgWNDfn7gSo9/  
  
!  
  
!  
  
!  
  
spanning-tree mode pvst  
  
spanning-tree extend system-id  
  
!  
  
interface FastEthernet0/1  
  
switchport access vlan 10  
  
switchport mode access  
  
!  
  
interface FastEthernet0/2  
  
switchport access vlan 10  
  
switchport mode access  
  
!  
  
interface FastEthernet0/3  
  
switchport access vlan 10  
  
switchport mode access  
  
!  
  
interface FastEthernet0/4  
  
switchport access vlan 10  
  
switchport mode access  
  
!  
  
interface FastEthernet0/5  
  
switchport access vlan 10  
  
switchport mode access  
  
!  
  
interface FastEthernet0/6  
  
switchport access vlan 10  
  
switchport mode access  
  
!
```



```
interface FastEthernet0/7
  switchport access vlan 10
  switchport mode access
!
interface FastEthernet0/8
  switchport access vlan 10
  switchport mode access
!
interface FastEthernet0/9
  switchport access vlan 10
  switchport mode access
!
interface FastEthernet0/10
  switchport access vlan 10
  switchport mode access
!
interface FastEthernet0/11
  switchport access vlan 10
  switchport mode access
!
interface FastEthernet0/12
  switchport access vlan 10
  switchport mode access
!
interface FastEthernet0/13
  switchport access vlan 10
  switchport mode access
!
interface FastEthernet0/14
  switchport access vlan 10
  switchport mode access
!
interface FastEthernet0/15
  switchport access vlan 10
  switchport mode access
!
interface FastEthernet0/16
  switchport access vlan 10
```

```
switchport mode access
```

```
!
```

```
interface FastEthernet0/17
```

```
switchport access vlan 10
```

```
switchport mode access
```

```
!
```

```
interface FastEthernet0/18
```

```
switchport access vlan 10
```

```
switchport mode access
```

```
!
```

```
interface FastEthernet0/19
```

```
switchport access vlan 10
```

```
switchport mode access
```

```
!
```

```
interface FastEthernet0/20
```

```
switchport access vlan 10
```

```
switchport mode access
```

```
!
```

```
interface FastEthernet0/21
```

```
switchport access vlan 10
```

```
switchport mode access
```

```
!
```

```
interface FastEthernet0/22
```

```
switchport access vlan 10
```

```
switchport mode access
```

```
!
```

```
interface FastEthernet0/23
```

```
switchport access vlan 10
```

```
switchport mode access
```

```
!
```

```
interface FastEthernet0/24
```

```
description Uplink naar Router
```

```
switchport access vlan 10
```

```
switchport mode access
```

```
!
```

```
interface GigabitEthernet0/1
```

```
!
```

```
interface GigabitEthernet0/2
```

```
!  
  
interface Vlan1  
  
ip address 192.168.1.245 255.255.255.0  
  
!  
  
!  
  
!  
  
!  
  
line con 0  
  
password 7 08117462  
  
login  
  
!  
  
line vty 0 4  
  
login local  
  
transport input ssh  
  
line vty 5 15  
  
login  
  
!  
  
!  
  
!  
  
!  
  
End
```

Configuratie SwitchRechts

Current configuration : 2589 bytes

```
!  
  
version 15.0  
  
no service timestamps log datetime msec  
  
no service timestamps debug datetime msec  
  
service password-encryption  
  
!  
  
hostname SwitchRechts  
  
!  
  
enable secret 5 $1$mERr$vkYaXnKGfLgWNDfn7gSo9/  
  
!  
  
!  
  
!  
  
ip domain-name PXL
```

```
!  
username admin secret 5 $1$mERr$vkYaXnKGfLgWNDfn7gSo9/  
!  
!  
!  
spanning-tree mode pvst  
spanning-tree extend system-id  
!  
interface FastEthernet0/1  
switchport access vlan 10  
switchport mode access  
!  
interface FastEthernet0/2  
switchport access vlan 10  
switchport mode access  
!  
interface FastEthernet0/3  
switchport access vlan 10  
switchport mode access  
!  
interface FastEthernet0/4  
switchport access vlan 10  
switchport mode access  
!  
interface FastEthernet0/5  
switchport access vlan 10  
switchport mode access  
!  
interface FastEthernet0/6  
switchport access vlan 10  
switchport mode access  
!  
interface FastEthernet0/7  
switchport access vlan 10  
switchport mode access  
!  
interface FastEthernet0/8  
switchport access vlan 10
```

```
switchport mode access
!
interface FastEthernet0/9
switchport access vlan 10
switchport mode access
!
interface FastEthernet0/10
switchport access vlan 10
switchport mode access
!
interface FastEthernet0/11
switchport access vlan 10
switchport mode access
!
interface FastEthernet0/12
switchport access vlan 10
switchport mode access
!
interface FastEthernet0/13
switchport access vlan 10
switchport mode access
!
interface FastEthernet0/14
switchport access vlan 10
switchport mode access
!
interface FastEthernet0/15
switchport access vlan 10
switchport mode access
!
interface FastEthernet0/16
switchport access vlan 10
switchport mode access
!
interface FastEthernet0/17
switchport access vlan 10
switchport mode access
!
```

```
interface FastEthernet0/18
switchport access vlan 10
switchport mode access
!
interface FastEthernet0/19
switchport access vlan 10
switchport mode access
!
interface FastEthernet0/20
switchport access vlan 10
switchport mode access
!
interface FastEthernet0/21
switchport access vlan 10
switchport mode access
!
interface FastEthernet0/22
switchport access vlan 10
switchport mode access
!
interface FastEthernet0/23
switchport access vlan 10
switchport mode access
!
interface FastEthernet0/24
description uplink naar router
switchport access vlan 10
switchport mode access
!
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
!
interface Vlan1
no ip address
shutdown
!
banner motd ^Cnkel toegang voor bevoegde. Alle acties worden gelogd!
```

^C

!

!

!

line con 0

password 7 08117462

login

!

line vty 0 4

login local

transport input ssh

line vty 5 15

login

!

!

!

!

end