Netwerkdocumentatie

**Netwerk overzicht**

* 1 Router
  + Cisco ISR4321 (Router)
* 2 Switches
  + Cisco 2960 (SwitchLinks)
  + Cisco 2960 (SwitchRechts)
* 10 PC’s
  + Verbonden via UTP kabel

**Afbeelding met diagram, schermopname, cirkel, tekst

Automatisch gegenereerde beschrijvingLogisch netwerk 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