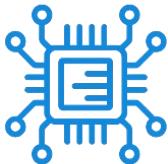


Documentatie: TechNova Solutions

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TechNova
SOLUTIONS

Inhoud (klikbaar)

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Systeem passwoorden

Switch1

User exec mode: pxl
Global exec mode: pxl
vlan1: pxl

Switch2

User exec mode: pxl
Global exec mode: pxl
vlan1: pxl

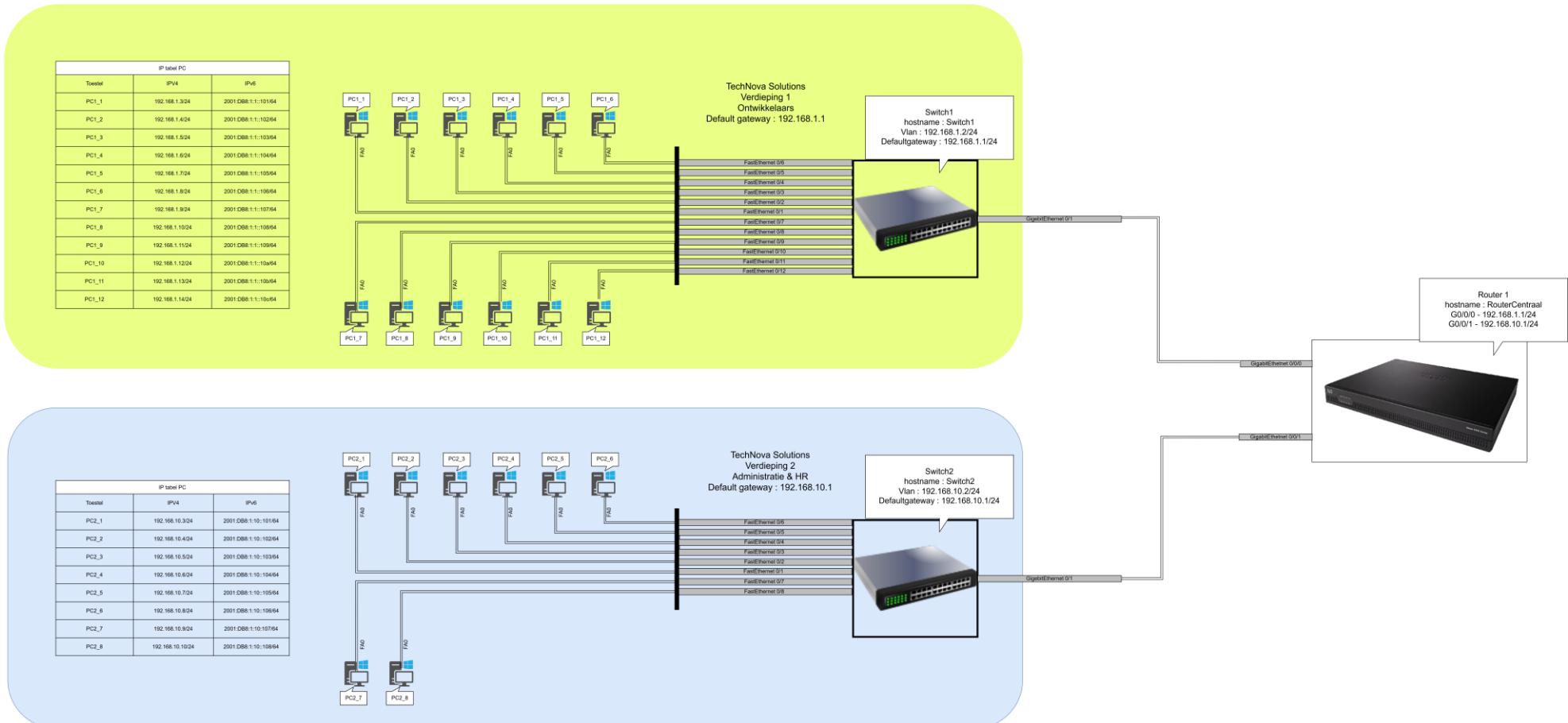
RouterCentraal

User exec mode: pxl
Global exec mode: pxl
vlan1: pxl

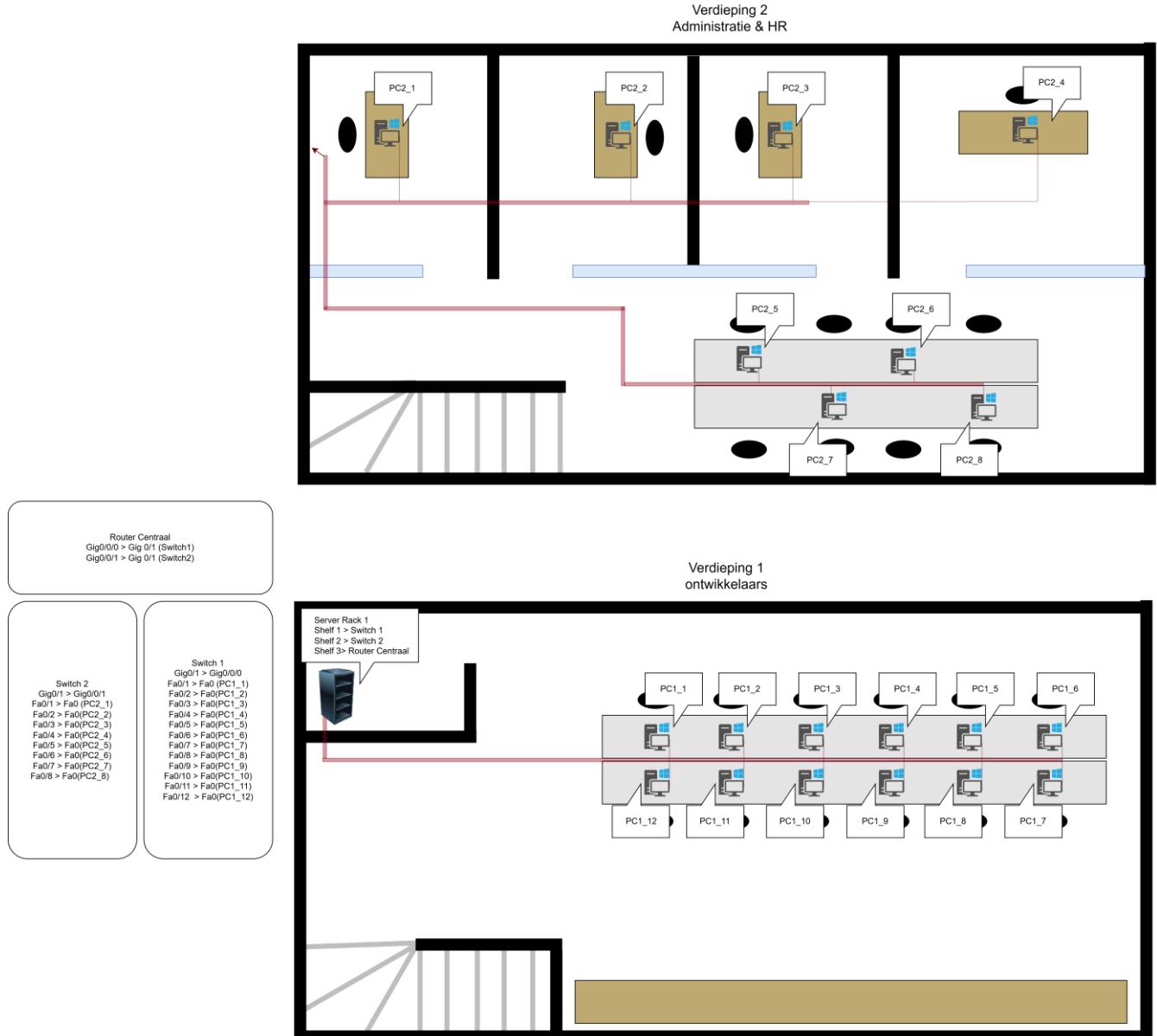
Link naar Github repository

<https://github.com/PXL-Digital-SNE-Werkplekleren/opdracht-documenteren-KennethCroughsPXL>

Logical topology



Physical topology



IP-plan

| Apparaat | Interface | IPv4 | Default gateway | IPv6 | Default Router |
|----------|-----------|------------------|-----------------|-----------------------|----------------|
| Router1 | G0/0/0 | 192.168.1.1/24 | N/A | 2001:DB8:1:1::1/64 | N/A |
| | G0/0/1 | 192.168.10.1/24 | N/A | 2001:DB8:1:10::1/64 | N/A |
| Switch1 | Vlan1 | 192.168.1.2/24 | 192.168.1.1 | N/A | N/A |
| Switch2 | Vlan1 | 192.168.10.2/24 | 192.168.10.1 | N/A | N/A |
| PC1_1 | FA0 | 192.168.1.3/24 | 192.168.1.1 | 2001:DB8:1:1::101/64 | FE80::1 |
| PC1_2 | FA0 | 192.168.1.4/24 | 192.168.1.1 | 2001:DB8:1:1::102/64 | FE80::1 |
| PC1_3 | FA0 | 192.168.1.5/24 | 192.168.1.1 | 2001:DB8:1:1::103/64 | FE80::1 |
| PC1_4 | FA0 | 192.168.1.6/24 | 192.168.1.1 | 2001:DB8:1:1::104/64 | FE80::1 |
| PC1_5 | FA0 | 192.168.1.7/24 | 192.168.1.1 | 2001:DB8:1:1::105/64 | FE80::1 |
| PC1_6 | FA0 | 192.168.1.8/24 | 192.168.1.1 | 2001:DB8:1:1::106/64 | FE80::1 |
| PC1_7 | FA0 | 192.168.1.9/24 | 192.168.1.1 | 2001:DB8:1:1::107/64 | FE80::1 |
| PC1_8 | FA0 | 192.168.1.10/24 | 192.168.1.1 | 2001:DB8:1:1::108/64 | FE80::1 |
| PC1_9 | FA0 | 192.168.1.11/24 | 192.168.1.1 | 2001:DB8:1:1::109/64 | FE80::1 |
| PC1_10 | FA0 | 192.168.1.12/24 | 192.168.1.1 | 2001:DB8:1:1::10a/64 | FE80::1 |
| PC1_11 | FA0 | 192.168.1.13/24 | 192.168.1.1 | 2001:DB8:1:1::10b/64 | FE80::1 |
| PC1_12 | FA0 | 192.168.1.14/24 | 192.168.1.1 | 2001:DB8:1:1::10c/64 | FE80::1 |
| PC2_1 | FA0 | 192.168.10.3/24 | 192.168.10.1 | 2001:DB8:1:10::101/64 | FE80::1 |
| PC2_2 | FA0 | 192.168.10.4/24 | 192.168.10.1 | 2001:DB8:1:10::102/64 | FE80::1 |
| PC2_3 | FA0 | 192.168.10.5/24 | 192.168.10.1 | 2001:DB8:1:10::103/64 | FE80::1 |
| PC2_4 | FA0 | 192.168.10.6/24 | 192.168.10.1 | 2001:DB8:1:10::104/64 | FE80::1 |
| PC2_5 | FA0 | 192.168.10.7/24 | 192.168.10.1 | 2001:DB8:1:10::105/64 | FE80::1 |
| PC2_6 | FA0 | 192.168.10.8/24 | 192.168.10.1 | 2001:DB8:1:10::106/64 | FE80::1 |
| PC2_7 | FA0 | 192.168.10.9/24 | 192.168.10.1 | 2001:DB8:1:10::107/64 | FE80::1 |
| PC2_8 | FA0 | 192.168.10.10/24 | 192.168.10.1 | 2001:DB8:1:10::108/64 | FE80::1 |

Apparatenlijst – Routers – Switches – End Devices

Router

| Apparaat | Model | Omschrijving | Locatie | IOS | License |
|-----------|-----------------------|-----------------|---------------------------|--|----------------------|
| ISR4321 | Cisco 4321 | Centrale router | Kelder > main wire closet | Cisco IOS XE Software, Version 03.16.05.S - Extended Support release | ipbasek9, securityk9 |
| Interface | Omschrijving | Ipv4 | Ipv6 | MAC address | Routing |
| G0/0/0 | Verbonden met Switch1 | 192.168.1.1 | 2001:DB8:1:1::1 | 0060.7050.7901 | N/A |
| G0/0/1 | Verbonden met Switch2 | 192.168.10.1 | 2001:DB8:1:10::1 | 0060.7050.7902 | N/A |
| Vlan | N/A | 192.168.11.1 | N/A | 00D0.BAB9.71E4 | N/A |

Switch Ontwikkelaars

| Apparaat | Model | Omschrijving | Locatie | IOS | Versie | | |
|-------------|-----------------|----------------------|----------------------------------|-------------------|-------------|----------------|----------------|
| 2960 – 24TT | WS-C2960-24TT-L | Switch Ontwikkelaars | Verdieping 1 > technische ruimte | C2960-LANBASEK9-M | 15.0(2)SE4 | | |
| Poort | Link | Omschrijving | Vlan | Ingeschakeld | Native | Trunk | MAC adres |
| G0/1 | Up | IN Router1 | 1 | JA | N/A | N/A | 00E0.F90E.8319 |
| G0/2 | Down | N/A | 1 | NEE | N/A | N/A | 00E0.F90E.831A |
| FA0/1 | Up | OUT PC1_1 | 1 | JA | N/A | N/A | 00E0.F90E.8301 |
| FA0/2 | Up | OUT PC1_2 | 1 | JA | N/A | N/A | 00E0.F90E.8302 |
| FA0/3 | Up | OUT PC1_3 | 1 | JA | N/A | N/A | 00E0.F90E.8303 |
| FA0/4 | Up | OUT PC1_4 | 1 | JA | N/A | N/A | 00E0.F90E.8304 |
| FA0/5 | Up | OUT PC1_5 | 1 | JA | N/A | N/A | 00E0.F90E.8305 |
| FA0/6 | Up | OUT PC1_6 | 1 | JA | N/A | N/A | 00E0.F90E.8306 |
| FA0/7 | Up | OUT PC1_7 | 1 | JA | N/A | N/A | 00E0.F90E.8307 |
| FA0/8 | Up | OUT PC1_8 | 1 | JA | N/A | N/A | 00E0.F90E.8308 |
| FA0/9 | Up | OUT PC1_9 | 1 | JA | N/A | N/A | 00E0.F90E.8309 |
| FA0/10 | Up | OUT PC1_10 | 1 | JA | N/A | N/A | 00E0.F90E.830A |
| FA0/11 | Up | OUT PC1_11 | 1 | JA | N/A | N/A | 00E0.F90E.830B |
| FA0/12 | Up | OUT PC1_12 | 1 | JA | N/A | N/A | 00E0.F90E.830C |
| FA0/13 | Down | N/A | 1 | NEE | N/A | N/A | 00E0.F90E.830D |
| FA0/14 | Down | N/A | 1 | NEE | N/A | N/A | 00E0.F90E.830E |
| FA0/15 | Down | N/A | 1 | NEE | N/A | N/A | 00E0.F90E.830F |
| FA0/16 | Down | N/A | 1 | NEE | N/A | N/A | 00E0.F90E.8310 |
| FA0/17 | Down | N/A | 1 | NEE | N/A | N/A | 00E0.F90E.8311 |
| FA0/18 | Down | N/A | 1 | NEE | N/A | N/A | 00E0.F90E.8312 |
| FA0/19 | Down | N/A | 1 | NEE | N/A | N/A | 00E0.F90E.8313 |
| FA0/20 | Down | N/A | 1 | NEE | N/A | N/A | 00E0.F90E.8314 |
| FA0/21 | Down | N/A | 1 | NEE | N/A | N/A | 00E0.F90E.8315 |
| FA0/22 | Down | N/A | 1 | NEE | N/A | N/A | 00E0.F90E.8316 |
| FA0/23 | Down | N/A | 1 | NEE | N/A | N/A | 00E0.F90E.8317 |
| FA0/24 | Down | N/A | 1 | NEE | N/A | N/A | 00E0.F90E.8318 |
| Poort | Link | Omschrijving | Vlan | Ingeschakeld | IPv4 | MAC adres | |
| Vlan1 | Up | SSH enabled | 1 | JA | 192.168.1.2 | 000B.BEB3.617E | |

Switch HR en Administratie

| Apparaat | Model | Omschrijving | Locatie | IOS | Versie | | |
|-------------|-----------------|---------------------------|----------------------------------|-------------------|-------------|----------------|----------------|
| 2960 – 24TT | WS-C2960-24TT-L | Switch Administratie & HR | Verdieping 1 > technische ruimte | C2960-LANBASEK9-M | 15.0(2)SE4 | | |
| Poort | Link | Omschrijving | Vlan | Ingeschakeld | Native | Trunk | MAC adres |
| G0/1 | Up | IN Router1 | 1 | JA | N/A | N/A | 0005.5EC5.E919 |
| G0/2 | Down | N/A | 1 | NEE | N/A | N/A | 0005.5EC5.E91A |
| FA0/1 | Up | OUT PC2_1 | 1 | JA | N/A | N/A | 0005.5EC5.E901 |
| FA0/2 | Up | OUT PC2_2 | 1 | JA | N/A | N/A | 0005.5EC5.E902 |
| FA0/3 | Up | OUT PC2_3 | 1 | JA | N/A | N/A | 0005.5EC5.E903 |
| FA0/4 | Up | OUT PC2_4 | 1 | JA | N/A | N/A | 0005.5EC5.E904 |
| FA0/5 | Up | OUT PC2_5 | 1 | JA | N/A | N/A | 0005.5EC5.E905 |
| FA0/6 | Up | OUT PC2_6 | 1 | JA | N/A | N/A | 0005.5EC5.E906 |
| FA0/7 | Up | OUT PC2_7 | 1 | JA | N/A | N/A | 0005.5EC5.E907 |
| FA0/8 | Up | OUT PC2_8 | 1 | JA | N/A | N/A | 0005.5EC5.E908 |
| FA0/9 | Down | N/A | 1 | NEE | N/A | N/A | 0005.5EC5.E909 |
| FA0/10 | Down | N/A | 1 | NEE | N/A | N/A | 0005.5EC5.E90A |
| FA0/11 | Down | N/A | 1 | NEE | N/A | N/A | 0005.5EC5.E90B |
| FA0/12 | Down | N/A | 1 | NEE | N/A | N/A | 0005.5EC5.E90C |
| FA0/13 | Down | N/A | 1 | NEE | N/A | N/A | 0005.5EC5.E90D |
| FA0/14 | Down | N/A | 1 | NEE | N/A | N/A | 0005.5EC5.E90E |
| FA0/15 | Down | N/A | 1 | NEE | N/A | N/A | 0005.5EC5.E90F |
| FA0/16 | Down | N/A | 1 | NEE | N/A | N/A | 0005.5EC5.E910 |
| FA0/17 | Down | N/A | 1 | NEE | N/A | N/A | 0005.5EC5.E911 |
| FA0/18 | Down | N/A | 1 | NEE | N/A | N/A | 0005.5EC5.E912 |
| FA0/19 | Down | N/A | 1 | NEE | N/A | N/A | 0005.5EC5.E913 |
| FA0/20 | Down | N/A | 1 | NEE | N/A | N/A | 0005.5EC5.E914 |
| FA0/21 | Down | N/A | 1 | NEE | N/A | N/A | 0005.5EC5.E915 |
| FA0/22 | Down | N/A | 1 | NEE | N/A | N/A | 0005.5EC5.E916 |
| FA0/23 | Down | N/A | 1 | NEE | N/A | N/A | 0005.5EC5.E917 |
| FA0/24 | Down | N/A | 1 | NEE | N/A | N/A | 0005.5EC5.E918 |
| Poort | Link | Omschrijving | Vlan | Ingeschakeld | IPv4 | MAC adres | |
| Vlan1 | Up | SSH enabled | 1 | JA | 192.168.1.2 | 0090.2167.E1EA | |

End Devices

| Apparaat | OS | IPv4 | Default gateway | IPv6 | Default Router | MAC adres | Services |
|----------|-------|---------------|-----------------|--------------------|----------------|----------------|------------|
| PC1_1 | PT OS | 192.168.1.3 | 192.168.1.1 | 2001:DB8:1:1::101 | FE80::1 | 0090.0C2E.3A19 | HTTP/HTTPS |
| PC1_2 | PT OS | 192.168.1.4 | 192.168.1.1 | 2001:DB8:1:1::102 | FE80::1 | 0060.47EC.2CCD | HTTP/HTTPS |
| PC1_3 | PT OS | 192.168.1.5 | 192.168.1.1 | 2001:DB8:1:1::103 | FE80::1 | 0001.C9D3.DBC3 | HTTP/HTTPS |
| PC1_4 | PT OS | 192.168.1.6 | 192.168.1.1 | 2001:DB8:1:1::104 | FE80::1 | 0000.0CD7.4A10 | HTTP/HTTPS |
| PC1_5 | PT OS | 192.168.1.7 | 192.168.1.1 | 2001:DB8:1:1::105 | FE80::1 | 0060.70D3.4A38 | HTTP/HTTPS |
| PC1_6 | PT OS | 192.168.1.8 | 192.168.1.1 | 2001:DB8:1:1::106 | FE80::1 | 0001.4382.7B0D | HTTP/HTTPS |
| PC1_7 | PT OS | 192.168.1.9 | 192.168.1.1 | 2001:DB8:1:1::107 | FE80::1 | 000D.BDD6.07A0 | HTTP/HTTPS |
| PC1_8 | PT OS | 192.168.1.10 | 192.168.1.1 | 2001:DB8:1:1::108 | FE80::1 | 0060.3E25.9DD4 | HTTP/HTTPS |
| PC1_9 | PT OS | 192.168.1.11 | 192.168.1.1 | 2001:DB8:1:1::109 | FE80::1 | 0060.7034.70A0 | HTTP/HTTPS |
| PC1_10 | PT OS | 192.168.1.12 | 192.168.1.1 | 2001:DB8:1:1::10a | FE80::1 | 0090.2159.C5DC | HTTP/HTTPS |
| PC1_11 | PT OS | 192.168.1.13 | 192.168.1.1 | 2001:DB8:1:1::10b | FE80::1 | 0001.C913.2C7A | HTTP/HTTPS |
| PC1_12 | PT OS | 192.168.1.14 | 192.168.1.1 | 2001:DB8:1:1::10c | FE80::1 | 00E0.8F9B.5C92 | HTTP/HTTPS |
| PC2_1 | PT OS | 192.168.10.3 | 192.168.10.1 | 2001:DB8:1:10::101 | FE80::1 | 0002.1731.B127 | HTTP/HTTPS |
| PC2_2 | PT OS | 192.168.10.4 | 192.168.10.1 | 2001:DB8:1:10::102 | FE80::1 | 000D.BDA2.E320 | HTTP/HTTPS |
| PC2_3 | PT OS | 192.168.10.5 | 192.168.10.1 | 2001:DB8:1:10::103 | FE80::1 | 0090.0C2A.6DA1 | HTTP/HTTPS |
| PC2_4 | PT OS | 192.168.10.6 | 192.168.10.1 | 2001:DB8:1:10::104 | FE80::1 | 0090.2B5C.35B0 | HTTP/HTTPS |
| PC2_5 | PT OS | 192.168.10.7 | 192.168.10.1 | 2001:DB8:1:10::105 | FE80::1 | 0001.649A.653A | HTTP/HTTPS |
| PC2_6 | PT OS | 192.168.10.8 | 192.168.10.1 | 2001:DB8:1:10::106 | FE80::1 | 000C.CF22.EB69 | HTTP/HTTPS |
| PC2_7 | PT OS | 192.168.10.9 | 192.168.10.1 | 2001:DB8:1:10::107 | FE80::1 | 0060.2FD3.1220 | HTTP/HTTPS |
| PC2_8 | PT OS | 192.168.10.10 | 192.168.10.1 | 2001:DB8:1:10::108 | FE80::1 | 0090.2B53.2617 | HTTP/HTTPS |

Configuratie's

Switch1

Building configuration...

Current configuration : 1486 bytes

!

version 15.0

no service timestamps log datetime msec

no service timestamps debug datetime msec

service password-encryption

!

hostname Switch1

!

enable secret 5 \$1\$mERr\$NARFGJytzNQ.L1OAZ.TVE/

!

!

!

ip domain-name google.com

!

username Admin secret 5 \$1\$mERr\$NARFGJytzNQ.L1OAZ.TVE/

!

!

!

spanning-tree mode pvst

spanning-tree extend system-id

!

interface FastEthernet0/1

```
!  
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  
ip address 192.168.1.2 255.255.255.0  
!  
ip default-gateway 192.168.1.1  
!
```

```
banner motd ^C
*****
Alleen voor bevoegd personeel! - Verdieping 1
*****^C
!
!
!
line con 0
password 7 08315442
login
!
line vty 0 4
password 7 08315442
login
transport input ssh
line vty 5 15
login
!
!
!
!
end
```

Switch2

Building configuration...

Current configuration : 1453 bytes

!

version 15.0

```
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname Switch2
!
enable secret 5 $1$mERr$NARFGJytzNQ.L1OAZ.TVE/
!
!
!
ip domain-name google.com
!
username Admin secret 5 $1$mERr$NARFGJytzNQ.L1OAZ.TVE/
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
!
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
ip address 192.168.10.2 255.255.255.0
!
banner motd ^C
*****
Alleen bevoegd personeel! - Verdieping 2
*****
^C
!
!
!
line con 0
password 7 08315442
```

```
login
!
line vty 0 4
password 7 08315442
login
transport input ssh
line vty 5 15
login
!
!
!
!
```

end

RouterCentraal

Building configuration...

Current configuration : 1245 bytes

```
!
version 15.4
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname RouterCentraal
!
!
!
enable secret 5 $1$mERr$NARFGJytzNQ.L1OAZ.TVE/
```

```
!
!
!
!
!
!
ip cef
ipv6 unicast-routing
!
no ipv6 cef
!
!
!
!
username Admin secret 5 $1$mERr$NARFGJytzNQ.L1OAZ.TVE/
!
!
!
!
!
!
!
!
!
!
!
ip domain-name google.com
!
!
spanning-tree mode pvst
```

```
!
!
!
!
!
!
interface GigabitEthernet0/0/0
description LAN1 naar Switch1
ip address 192.168.1.1 255.255.255.0
duplex auto
speed auto
ipv6 address FE80::1 link-local
ipv6 address 2001:DB8:1:1::1/64
!
interface GigabitEthernet0/0/1
description LAN2 naar Switch2
ip address 192.168.10.1 255.255.255.0
duplex auto
speed auto
ipv6 address FE80::1 link-local
ipv6 address 2001:DB8:1:10::1/64
!
interface Vlan1
ip address 192.168.11.1 255.255.255.0
ipv6 address 2001:DB8:1:20::1/64
!
router rip
!
```

```
ip classless
!
ip flow-export version 9
!
!
!
banner motd ^C
*****
Alleen voor bevoegd personeel! Router centraal
*****
line con 0
password 7 08315442
login
!
line aux 0
!
line vty 0 4
password 7 08315442
login local
transport input ssh
!
!
!
end
```