**Netwerk infrastructuur en documentatie**

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Inhoud

[1.Soorten netwerk apparaten 3](#_Toc186988348)

[2.Networkdiagram 3](#_Toc186988349)

[3.router 4](#_Toc186988350)

[4.ipv4 adressen en mac adressen 4](#_Toc186988351)

[5.ipv6 adressen 4](#_Toc186988352)

[6.router configuratie 5](#_Toc186988353)

[7.switchs configuratie 9](#_Toc186988354)

[7.1 switch1 configuratie 9](#_Toc186988355)

[7.2 switch 2 configuratie 13](#_Toc186988356)

# 1.Soorten netwerk apparaten

* 1 router

Router ISR4321

* 2 switchen

2 x switch 2960-24TT

* 20 pc’s

# Afbeelding met schermopname, tekst Automatisch gegenereerde beschrijving2.Networkdiagram

# 3.router

|  |  |  |
| --- | --- | --- |
| Interface | IPv4 Address | IPv6 Link Local address |
| GigabitEthernet0/0/0 | 192.16.0.1 | FE80::2E0:F7FF:FE4A:9501 |
| GigabitEthernet0/0/1 | 10.0.0.1 | FE80::2E0:F7FF:FE4A:9502 |

Login password : pxl

Privilege password : pxl

# 4.ipv4 adressen en mac adressen

|  |  |  |  |
| --- | --- | --- | --- |
| Hostname | Ip adres | Mac adress | Type |
| Pc 1 | 192.16.0.11 | 00e0.f74a.9501 | DYNAMIC |
| Pc 2 | 192.16.0.12 | 0002.17ed.0cbc | DYNAMIC |
| Pc 3 | 192.16.0.13 | 0006.2a41.1ce6 | DYNAMIC |
| Pc 4 | 192.16.0.14 | 00d0.5851.a45b | DYNAMIC |
| Pc 5 | 192.16.0.15 | 0060.4750.6d69 | DYNAMIC |
| Pc 6 | 192.16.0.16 | 000c.cf09.07d0 | DYNAMIC |
| Pc 7 | 192.16.0.17 | 0001.968d.368c | DYNAMIC |
| Pc 8 | 192.16.0.18 | 0001.97b3.55d0 | DYNAMIC |
| Pc 9 | 192.16.0.19 | 0060.70bc.b520 | DYNAMIC |
| Pc 10 | 192.16.0.20 | 0009.7cec.3764 | DYNAMIC |
| Pc 11 | 10.0.0.4 | 00e0.f74a.9502 | DYNAMIC |
| Pc 12 | 10.0.0.5 | 0002.1728.6c37 | DYNAMIC |
| Pc 13 | 10.0.0.6 | 0001.9710.237a | DYNAMIC |
| Pc 14 | 10.0.0.7 | 0004.9a6b.1c22 | DYNAMIC |
| Pc 15 | 10.0.0.8 | 000c.8554.405e | DYNAMIC |
| Pc 16 | 10.0.0.9 | 0010.1145.c450 | DYNAMIC |
| Pc 17 | 10.0.0.10 | 00d0.bc9e.514d | DYNAMIC |
| Pc 18 | 10.0.0.11 | 0010.11da.4916 | DYNAMIC |
| Pc 19 | 10.0.0.12 | 0002.16e1.e0b1 | DYNAMIC |
| Pc 20 | 10.0.0.13 | 000c.85ee.d16e | DYNAMIC |

# 5.ipv6 adressen

|  |  |  |
| --- | --- | --- |
| hostname | Ipv6 adres | Link local adres |
| Pc 1 | 2001:DB8:ACAD:1:202:17FF:FEED:CBC | FE80::202:17FF:FEED:CBC |
| Pc 2 | 2001:DB8:ACAD:1:206:2AFF:FE41:1CE6 | FE80::206:2AFF:FE41:1CE6 |
| Pc 3 | 2001:DB8:ACAD:1:2D0:58FF:FE51:A45B | FE80::2D0:58FF:FE51:A45B |
| Pc 4 | 2001:DB8:ACAD:1:260:47FF:FE50:6D69 | FE80::260:47FF:FE50:6D69 |
| Pc 5 | 2001:DB8:ACAD:1:20C:CFFF:FE09:7D0 | FE80::20C:CFFF:FE09:7D0 |
| Pc 6 | 2001:DB8:ACAD:1:201:96FF:FE8D:368C | FE80::201:96FF:FE8D:368C |
| Pc 7 | 2001:DB8:ACAD:1:201:97FF:FEB3:55D0 | FE80::201:97FF:FEB3:55D0 |
| Pc 8 | 2001:DB8:ACAD:1:260:70FF:FEBC:B520 | FE80::260:70FF:FEBC:B520 |
| Pc 9 | 2001:DB8:ACAD:1:209:7CFF:FEEC:3764 | FE80::209:7CFF:FEEC:3764 |
| Pc 10 | 2001:DB8:ACAD:1:210:11FF:FEAA:7DB4 | FE80::210:11FF:FEAA:7DB4 |
| Pc 11 | 2001:DB8:ACAD:2:202:17FF:FE28:6C37 | FE80::202:17FF:FE28:6C37 |
| Pc 12 | 2001:DB8:ACAD:2:201:97FF:FE10:237A | FE80::201:97FF:FE10:237A |
| Pc 13 | 2001:DB8:ACAD:2:204:9AFF:FE6B:1C22 | FE80::204:9AFF:FE6B:1C22 |
| Pc 14 | 2001:DB8:ACAD:2:20C:85FF:FE54:405E | FE80::20C:85FF:FE54:405E |
| Pc 15 | 2001:DB8:ACAD:2:210:11FF:FE45:C450 | FE80::210:11FF:FE45:C450 |
| Pc 16 | 2001:DB8:ACAD:2:2D0:BCFF:FE9E:514D | FE80::2D0:BCFF:FE9E:514D |
| Pc 17 | 2001:DB8:ACAD:2:210:11FF:FEDA:4916 | FE80::210:11FF:FEDA:4916 |
| Pc 18 | 2001:DB8:ACAD:2:202:16FF:FEE1:E0B1 | FE80::202:16FF:FEE1:E0B1 |
| Pc 19 | 2001:DB8:ACAD:2:20C:85FF:FEEE:D16E | FE80::20C:85FF:FEEE:D16E |
| Pc 20 | 2001:DB8:ACAD:2:250:FFF:FE64:898E | FE80::250:FFF:FE64:898E |

# 6.router configuratie

|  |  |  |  |
| --- | --- | --- | --- |
| poorten | Ipv4 adres | Ipv6 adres | Link local |
| Gig 0/0/0 | 192.16.0.1/24 | 2001:DB8:ACAD:1::1 | FE80::2E0:F7FF:FE4A:9501 |
| Gig 0/0/1 | 10.0.0.1/24 | 2001:DB8:ACAD:2::1 | FE80::2E0:F7FF:FE4A:9502 |

Login paswoord : pxl

Privilege paswoord : pxl

Current configuration : 1390 bytes

!

version 15.4

no service timestamps log datetime msec

no service timestamps debug datetime msec

service password-encryption

!

hostname router1

!

!

!

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

!

!

!

!

!

!

ip cef

ipv6 unicast-routing

!

no ipv6 cef

!

!

!

username jan password 7 08315442

!

!

!

!

!

!

!

!

ip domain-name pxl.be

!

!

spanning-tree mode pvst

!

!

!

!

!

!

interface GigabitEthernet0/0/0

ip address 192.16.0.1 255.255.255.0

duplex auto

speed auto

ipv6 address 2001:DB8:ACAD:1::1/64

!

interface GigabitEthernet0/0/1

ip address 10.0.0.1 255.255.255.0

duplex auto

speed auto

ipv6 address 2001:DB8:ACAD:2::1/64

!

interface Vlan1

no ip address

shutdown

!

ip classless

!

ip flow-export version 9

!

!

!

banner motd ^Cc

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Warning!!!!! \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* WARNING!!!! \*

\* \*

\* unauthorized entry \*

\* will be hanged when found \*

\* so don't try, \*

\* i will be watching \*

\* \*

\* admin:Jan Meynen-Degryse \*

\* 12402133@student.pxl.be \*

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!

!

!

!

line con 0

password 7 08315442

login

!

line aux 0

!

line vty 0 4

password 7 08315442

login local

transport input ssh

line vty 5 15

password 7 08315442

login local

transport input ssh

!

!

!

end

# 7.switchs configuratie

|  |  |  |
| --- | --- | --- |
| Switch naam | Ipv4 adres | Ipv6 link local |
| Switch 1 | 192.16.0.254/24 | FE80::201:96FF:FE0D:A00E |
| Switch 2 | 10.0.0.254/24 | FE80::2E0:F7FF:FE7A:61E7 |

Login paswoord: pxl

Privilige paswoord : pxl

## 7.1 switch1 configuratie

Current configuration : 1771 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 pxl.be

!

username jan privilege 1 password 7 08315442

!

!

!

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 192.16.0.254 255.255.255.0

!

ip default-gateway 192.16.0.1

!

banner motd ^Cc

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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\* \*

\* admin:Jan Meynen-Degryse \*

\* 12402133@student.pxl.be \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

^C

!

!

!

!

!

line con 0

password 7 08315442

login

!

line vty 0 4

password 7 08315442

login local

transport input ssh

line vty 5 15

password 7 08315442

login local

transport input ssh

!

!

!

!

end

## 7.2 switch 2 configuratie

Current configuration : 1767 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 pxl.be

!

username jan privilege 1 password 7 08315442

!

!

!

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 10.0.0.254 255.255.255.0

!

ip default-gateway 10.0.0.1

!

banner motd ^Cc

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* WARNING!!!! \*

\* \*

\* unauthorized entry \*

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!

!

!

!

!

line con 0

password 7 08315442

login

!

line vty 0 4

password 7 08315442

login local

transport input ssh

line vty 5 15

password 7 08315442

login local

transport input ssh

!

!

!

!

End