

Netwerk infrastructuur en documentatie



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1SneC

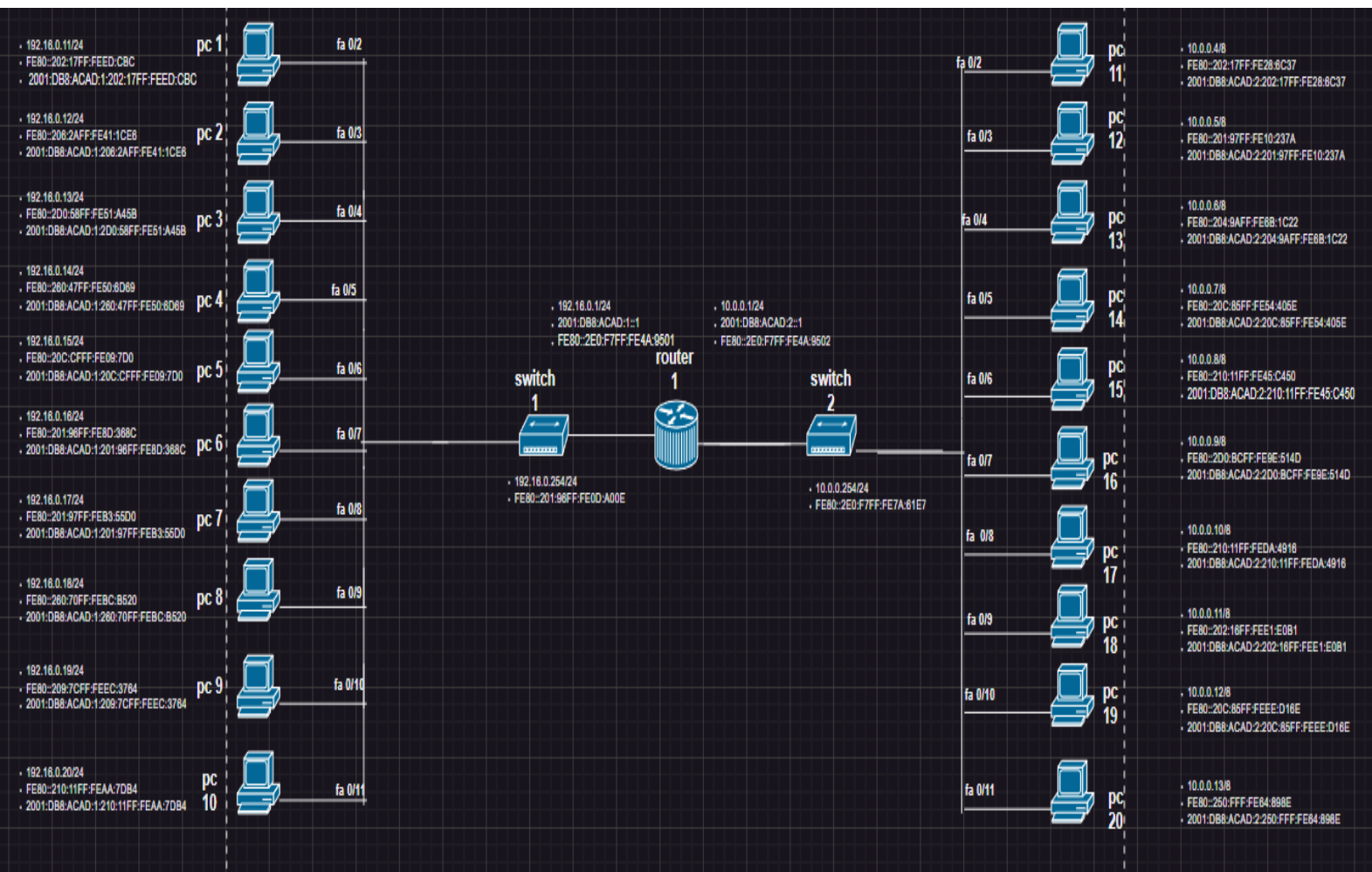
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1. Soorten netwerk apparaten

- 1 router
Router ISR4321
- 2 switchen
2 x switch 2960-24TT
- 20 pc's

2. 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:EEEE:D16E	FE80::20C:85FF:EEEE: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 *

^C

!

!

!

!

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.switches 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

Privilege 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
*****
* WARNING!!!! *
* *
* unauthorized entry *
* will be hanged when found *
* so don't try, *
* i will be watching *
* *
```

* 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 *
```


* will be hanged when found *

* so don't try, *

* i will be watching *

* *

* 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

8. githublink

<https://github.com/JanMeynen-DegrysePXL/netwerkopdracht>