# Network documentation

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## Topology configuration

### VLANs

vlan 2 172.21.2.0 /30

vlan 3 172.21.3.0 /30

vlan 10 direktion 172.21.10.0 /24

vlan 20 lager 172.21.20.0 /24

vlan 30 regnskab 172.21.30.0 /24

vlan 40 server 172.21.40.0 /24

vlan 99 management 172.21.99.0 /24

vlan 666 blackhole

### VLAN Porte:

* direktion f0/7-12
* lager f0/13-15
* regnskab f0/16-19
* server f0/20-23

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* management f0/24
* blackhole

# GW Configuration

Banner: #Authorized Personnel Only#

SSH

Version 2

Useraccount: Admin – Passw0rd

DNS lookups disabled

Logging sync = Enabled

Static routes: ISP: Exit int: g0/0, Next hop: ISP

Interface Addresses:

vlan 2: 172.21.2.1

vlan 3: 172.21.3.1

g0/0: 10.233.144.80 /24

OSPF:

Process nr: 1

ID: 1.1.1.1

Passive-interface: g0/0

network: 172.21.2.0 0.0.0.3 area 0

network: 172.21.3.0 0.0.0.255 area 0

DHCP

Første 30 adresser er excluded i alle DHCP Pools

Primary DNS: 8.8.8.8 Secondary DNS: 1.1.1.1

DG: 172.21.X.3

Pools:

Vlan 10: direktion, 172.21.10.31-254 /24

Vlan 20: lager 172.21.20.31-254 /24

Vlan 30 regnskab 172.21.30.31-254 /24

Vlan 40 server 172.21.40.31-254 /24

NAT

Standard ACL: ***TILLAD-NAT***

Tillad alle 172.21.X.X netværk

Tilføjes til GW, g0/0, out

PAT

# RA Configuration

VLANs

vlan 10 direktion 172.21.10.0 /24

vlan 20 lager 172.21.20.0 /24

vlan 30 regnskab 172.21.30.0 /24

vlan 40 server 172.21.40.0 /24

vlan 99 management 172.21.99.0 /24

vlan 666 blackhole

Banner: #Authorized Personnel Only#

SSH

RSA key size: 1024

SSH Version 2

Line vty 0 15

User account: Admin - Passw0rd

Passwords

Enable secret: Passw0rd

Console Access password: Passw0rd

VTY Access Password: Passw0rd

Password encryption enabled

DNS lookups: disabled

Logging sync: Enabled

IP routing: Enabled

OSPF

Process nr: 1

ID: 2.2.2.2

network: 172.21.2.0 0.0.0.3 area 0

network: 172.21.10.0 0.0.0.255 area 0

network: 172.21.20.0 0.0.0.255 area 0

network: 172.21.30.0 0.0.0.255 area 0

network: 172.21.40.0 0.0.0.255 area 0

network: 172.21.99.0 0.0.0.255 area 0

VLANS

vlan 10 direktion

vlan 20 lager

vlan 30 regnskab

vlan 40 server

vlan 99 management

vlan 666 blackhole

interface adresser:

vlan 2: 172.21.2.2

vlan 10: 172.21.10.1

vlan 20: 172.21.20.1

vlan 30: 172.21.30.1

vlan 40: 172.21.40.1

Etherchannels

Po1:

* Interfaces f0/1-2
* Allowed VLANS: 10,20,30,40,99
* Trunk mode: PAgP/Desirable
* Encapsulation dot1q

Ip-helper address: 172.21.2.1

HSRP

Standby Group number = Corresponding VLAN number (10,20,30,99)

Standby IP address: 172.21.X.3

# RB Configuration

VLANs

vlan 10 direktion 172.21.10.0 /24

vlan 20 lager 172.21.20.0 /24

vlan 30 regnskab 172.21.30.0 /24

vlan 40 server 172.21.40.0 /24

vlan 99 management 172.21.99.0 /24

vlan 666 blackhole

Banner: #Authorized Personnel Only#

SSH

RSA key size: 1024

SSH Version 2

Line vty 0 15

User account: Admin - Passw0rd

Passwords

Enable secret: Passw0rd

Console Access password: Passw0rd

VTY Access Password: Passw0rd

Password encryption enabled

DNS lookups: disabled

Logging sync: Enabled

IP routing: Enabled

OSPF

Process nr: 1

ID: 3.3.3.3

network: 172.21.3.0 0.0.0.3 area 0

network: 172.21.10.0 0.0.0.255 area 0

network: 172.21.20.0 0.0.0.255 area 0

network: 172.21.30.0 0.0.0.255 area 0

network: 172.21.40.0 0.0.0.255 area 0

network: 172.21.99.0 0.0.0.255 area 0

VLANS

vlan 10 direktion

vlan 20 lager

vlan 30 regnskab

vlan 40 server

vlan 99 management

vlan 666 blackhole

interface adresser:

vlan 3: 172.21.3.2

vlan 10: 172.21.10.2

vlan 20: 172.21.20.2

vlan 30: 172.21.30.2

vlan 40: 172.21.40.2

Etherchannels

Po1:

* Interfaces f0/1-2
* Allowed VLANS: 10,20,30,40,99
* Trunk mode: PAgP/Desirable
* Encapsulation dot1q

Ip-helper address: 172.21.3.1

HSRP

Standby Group number = Corresponding VLAN number (10,20,30,99)

Standby IP address: 172.21.X.3

# SW-A Configuration

Banner: #Authorized Personnel Only#

SSH

RSA key size: 1024

SSH Version 2

Line vty 0 4

SSH User/Pass: Admin - Passw0rd

Passwords

Enable secret: Passw0rd

Console Access password: Passw0rd

VTY Access Password: Passw0rd

Password encryption enabled

DNS lookups disabled

Logging sync: Enabled

VLANS

vlan 10 direktion

vlan 20 lager

vlan 30 regnskab

vlan 40 server

vlan 99 management

vlan 666 blackhole

Etherchannel

Po1:

* Interfaces f0/1-2
* Allowed VLANS: 10,20,30,40,99
* Trunk mode: PAgP/Desirable

Po2:

* interfaces f0/3-4
* Allowed VLANS: 10,20,30,40,99
* Trunk mode: PAgP/Desirable

           Po4:

                       interfaces f0/5-6

* Allowed VLANS: 10,20,30,40,99
* Trunk mode: PAgP/Desirable

Access mode ports:

Allowed VLANS: 10,20,30,40,99

Ports:

* direktion f0/7-12
* lager f0/13-15
* regnskab f0/16-19
* server f0/20-23
* management f0/24

# SW-B Configuration

Banner: #Authorized Personnel Only#

SSH

RSA key size: 1024

SSH Version 2

Line vty 0 4

SSH User/Pass: Admin - Passw0rd

Passwords

Enable secret: Passw0rd

Console Access password: Passw0rd

VTY Access Password: Passw0rd

Password encryption enabled

DNS lookups disabled

Logging sync: Enabled

VLANS

vlan 10 direktion

vlan 20 lager

vlan 30 regnskab

vlan 40 server

vlan 99 management

vlan 666 blackhole

Etherchannel

Po3:

interfaces f0/1-2

Allowed VLANS: 10,20,30,40,99

Trunk mode: PAgP/Desirable

Po4:

interfaces f0/3-4

Allowed VLANS: 10,20,30,40,99

Trunk mode: PAgP/Desirable

Po5:

interfaces f0/5-6

Allowed VLANS: 10,20,30,40,99

Trunk mode: PAgP/Desirable

Access mode ports:

Allowed VLANS: 10,20,30,40,99

Ports:

* direktion f0/7-12
* lager f0/13-15
* regnskab f0/16-19
* server f0/20-23
* management f0/24

# SW-C Configuration

Banner: #Authorized Personnel Only#

SSH

RSA key size: 1024

SSH Version 2

Line vty 0 4

SSH User/Pass: Admin - Passw0rd

Passwords

Enable secret: Passw0rd

Console Access password: Passw0rd

VTY Access Password: Passw0rd

Password encryption enabled

DNS lookups disabled

Logging sync: Enabled

VLANS

vlan 10 direktion

vlan 20 lager

vlan 30 regnskab

vlan 40 server

vlan 99 management

vlan 666 blackhole

Etherchannel

Po2:

interfaces f0/1-2

Allowed VLANS: 10,20,30,40,99

Trunk mode: PAgP/Desirable

Po3:

interfaces f0/3-4

Allowed VLANS: 10,20,30,40,99

Trunk mode: PAgP/Desirable

Access mode ports:

Allowed VLANS: 10,20,30,40,99

Ports:

* direktion f0/7-12
* lager f0/13-15
* regnskab f0/16-19
* server f0/20-23
* management f0/24