Windows Server II

1. Minimale systeemvereisten

- **CPU:** Processor met 12 kernen
- **RAM:** 10 GB
- **Disk:** 150 GB

2. Algemene netwerkconfiguratie

- **VirtualBox internal network:** 192.168.22.0/24
  - **Server (STATIC) range:** 192.168.22.1 - 192.168.22.100
  - **Client (DHCP) range:** 192.168.22.101 - 192.168.22.150
  - **Closed range:** 192.168.22.150 - 192.168.22.255

3. VM 1: Domain Controller

3.1. Configuratie in VirtualBox

- **Hostname:** EP1-DC
- **OS:** Windows Server 2019 64-bit (Desktop Experience)
- **vCPUs:** 2
- **vRAM:** 3072 MB
- **vDisk:** 40 GB (Dynamically allocated)
- **Network:**
  - **Adapter 1:** NAT
  - **Adapter 2:** Intern netwerk (winnet)
    - **IP adres:** 192.168.22.10

3.2. Rollen

- Active Directory
- DNS_1
- DHCP

4. VM 2: Certificate Authority

4.1. Configuratie in VirtualBox

- **Hostname:** EP1-CA
- **OS:** Windows Server 2019 64-bit (Headless)
- **vCPUs:** 1
- **vRAM:** 1024 MB
- **vDisk:** 30 GB (Dynamically allocated)
- **Network:**
  - **Adapter 1:** Intern netwerk (winnet)
    - **IP adres:** 192.168.22.20

4.2. Rollen

- Certificate Authority
- DNS_2

5. VM 3: ISS Webserver

5.1. Configuratie in VirtualBox

- **Hostname:** EP1-WEB
- **OS:** Windows Server 2019 64-bit (Headless)
- **vCPUs:** 1
- **vRAM:** 1024 MB
- **vDisk:** 20 GB (Dynamically allocated)
- **Network:**
  - **Adapter 1:** Intern netwerk (winnet)
    - **IP adres:** 192.168.22.30

5.2. Rollen

- IIS Webserver

6. VM 3: SQL Server

6.1. Configuratie in VirtualBox

- **Hostname:** EP1-DB
- **OS:** SQL Server
- **vCPUs:** 1
- **vRAM:** 1024 MB
- **vDisk:** 20 GB (Dynamically allocated)
- **Network:**
  - **Adapter 1:** Intern netwerk (winnet)
    - **IP adres:** 192.168.22.40

6.2. Rollen

- SQL Database

7. VM 4: Exchange

7.1. Configuratie in VirtualBox

- **Hostname:** EP1-EX
- **OS:** Microsoft Exchange
- **vCPUs:** 2
- **vRAM:** 4096 MB
- **vDisk:** 30 GB (Dynamically allocated)
- **Network:**
    - **Adapter 1:** Intern netwerk (winnet)
        - **IP adres:** 192.168.22.50

7.2. Rollen

- Exchange mail server

8. VM 5: Windows Client

8.1. Configuratie in VirtualBox

- **Hostname:** EP1-CLient
- **OS:** Windows 10
- **vCPUs:** 1
- **vRAM:** 2048 MB
- **vDisk:** 30 GB (Dynamically allocated)
- **Network:**
    - **Adapter 1:** Intern netwerk (winnet)
        - **IP adres:** Dynamic (DHCP)

8.2. Rollen

- Test machine
- Management tools voor headless servers en database

9. Netwerk Diagram

Domein: WS2-2223-arne.hogent

EP1-DC
192.168.22.10

EP1-CLIENT
Dynamic IP in range
192.168.22.101 - 192.168.22.150

NAT

winnet

winnet

winnet intern netwerk - 192.168.22.0/24

winnet   winnet   winnet   winnet

EP1-CA   **EP1-WEB**   **EP1-DB**   **EP1-EX**
192.168.22.20   192.168.22.30   192.168.22.40   192.168.22.50