**It plan :**

Afbeelding met tekst, schermopname, diagram, cirkel

Automatisch gegenereerde beschrijving

**Lab 1 Lan config :**

**switch**

|  |  |  |
| --- | --- | --- |
| **Vlan id** | **Vlan namen** | **interfaces** |
| Vlan 10 | Management |  |
| Vlan 20 | Vm-Hosts |  |
| Vlan 30 | Appliance-Servers |  |
| Vlan 40 | Data-Users | Gi1/0/1-6 mode acces |
| Vlan 50 | Voice-Users |  |
| Vlan 60 | Wireless-Users |  |
| Vlan 80 | Access-Points |  |
| Vlan 99 | Native(alle pakketen zonder vlan id) | Gi1/0/7 |

**Vlan interface :**

|  |  |
| --- | --- |
| Interface vlan 10 | 172.16.1.4 255.255.255.240 (**nodig als bv een router de naar de switch wilt via vlan 10 gaat als je intervlan hebt anders alleen users van vlan kunnen naar de switch pingen**) |

Redenen waarom interface 10 maken : op dit manier kun je van switch naar de router ping maar je kunt ook als je wilt pingen naar de switch die in vlan10 zitten of intervlan routing.

**Lab 1 Security : switch**

|  |  |  |
| --- | --- | --- |
| **interfaces** | **securrity** | **Vlans** |
| Gi1/0/1-6 | Port security max 4  Violation restrict  Mac address sticky  Portfast(zorg dat het direct naar forwarding state is.)  Bduguard enable | Vlan 40 |
| Gi1/0/8-24 | Shutdown(je hebt niet nodig) | Vlan 99 |
|  | Password encryption |  |

Login switch

Ssh connectie naar switch

* Ip domain name : data.labnet.local
* Crypto key generate rsa
* 1024
* Line vty 0 15
* Transport input ssh
* Login local
* Username Admin privilege 15 secret cisco123
* Exit

·Console Password

* line con 0
* password your\_console\_password
* login
* exit

login locally on the switch zelf :

* enable secret cisco
* username admin secret cisco

**Spanning tree :**

|  |  |
| --- | --- |
| **Spanning tree** | **vlans** |
| Spanning tree vlan | 10,2,30,40,50,60,80 |

**Trunking switch :**

|  |  |
| --- | --- |
| **Trunking vlans** | **interfaces** |
| Vlan 10,20,30,40,50,60,80 allowed trunk | Gi1/0/6 |
| Trunk native vlan 99 | Gi1/0/7 |

**Router config :**

**Intervlan routing**

|  |  |  |  |
| --- | --- | --- | --- |
| **interfaces** | **Ip address** | **vlan** | **hsrp** |
| Gi0/0/0.10 | 172.16.1.2 255.255.255.240 | Dotq 10 | 172.16.1.1 |
| Gi0/0/0.20 | 172.16.1.18 255.255.255.240 | Dotq 20 | 172.16.1.17 |
| Gi0/0/0.30 | 172.16.1.34 255.255.255.240 | Dotq 30 | 172.16.1.33 |
| Gi0/0/0.40 | 172.16.1.50 255.255.255.240 | Dotq 40 | 172.16.1.49 |
| Gi0/0/0.50 | 172.16.1.66 255.255.255.240 | Dotq 50 | 172.16.1.65 |
| Gi0/0/0.60 | 172.16.1.82 255.255.255.240 | Dotq 60 | 172.16.1.81 |
| Gi0/0/0.70 | 172.16.1.114 255.255.255.240 | Dotq 80 | 172.16.1.113 |

**Connection to rack ospf lab 1/2**

|  |  |  |
| --- | --- | --- |
| **interface** | **Ip address** | **area** |
| Gi 0/0/1 | 10.199.66.101 | Area 0 |

Lab 2

Deel 1 network statement (geconfigureerd in router ospf 10)

|  |  |  |
| --- | --- | --- |
| **Router ospf id** | **Network statements** | **Passive interfaces** |
| ospf 10 | network 172.16.1.0 0.0.0.15 area 0 | passive-interface GigabitEthernet0/0/0.10 |
| ospf 10 | network 172.16.1.16 0.0.0.15 area 0 | passive-interface GigabitEthernet0/0/0.20 |
| ospf 10 | network 172.16.1.32 0.0.0.15 area 0 | passive-interface GigabitEthernet0/0/0.30 |
| ospf 10 | network 172.16.1.48 0.0.0.15 area 0 | passive-interface GigabitEthernet0/0/0.40 |
| ospf 10 | network 172.16.1.64 0.0.0.15 area 0 | passive-interface GigabitEthernet0/0/0.50 |
| ospf 10 | network 172.16.1.80 0.0.0.15 area 0 | passive-interface GigabitEthernet0/0/0.60 |
| ospf 10 | network 172.16.1.112 0.0.0.15 area 0 | passive-interface GigabitEthernet0/0/0.80 |

Deel 2 zonder network statement => **op interface de ospf zetten**

|  |  |
| --- | --- |
| **Interface** | **Ospf id & area** |
| GigabitEthernet0/0/0.10 | ip ospf 10 area 0 |
| GigabitEthernet0/0/0.20 | ip ospf 10 area 0 |
| GigabitEthernet0/0/0.30 | ip ospf 10 area 0 |
| GigabitEthernet0/0/0.40 | ip ospf 10 area 0 |
| GigabitEthernet0/0/0.50 | ip ospf 10 area 0 |
| GigabitEthernet0/0/0.60 | ip ospf 10 area 0 |
| GigabitEthernet0/0/0.80 | ip ospf 10 area 0 |

Je had perongluk gi0/6 als trunk link naar de router gedaan dat is fout dat moet om interdace gi0/7

**Dhcp :**

Interface gi0/0/0.40 =>ip helper-address 10.199.64.66

Screen shots:

Afbeelding met tekst, schermopname, ontwerp

Automatisch gegenereerde beschrijving

Afbeelding met tekst, schermopname, Lettertype

Automatisch gegenereerde beschrijving

Afbeelding met tekst, schermopname, Lettertype

Automatisch gegenereerde beschrijvingAfbeelding met tekst, schermopname

Automatisch gegenereerde beschrijving