Commandos Networks

# Basic config

|  |  |
| --- | --- |
| en | Privileged exec mode |
| Conf t | Global config mode |
| Interface vlan ‘number’ f0/1 |  |
| Ip address 10.10.10.10 255.255.255.0 |  |
| No sh |  |
| End |  |
| Cp run start |  |
|  |  |
| Ip default-gateway ‘ip-adres’ |  |
|  |  |
| Conf t |  |
| Int f0/1 |  |
| Duplex full |  |
| Speed 100 |  |
| End |  |
|  |  |
| Conf t |  |
| Enable secret Password |  |
| Line con 0 |  |
| Password Password |  |
| Login |  |
|  |  |
|  |  |
|  |  |

# Security

|  |  |
| --- | --- |
| Interface f0/1 |  |
| Switchport mode access |  |
| Switchport port-security |  |
| Switchport port-security maximum 2 | Max 2 MAC addressen koppelen op poort |
|  |  |
| Show port security |  |
| Switchport posrt-security violation | -restrict  -shutdown  -protect |

|  |  |
| --- | --- |
| VLAN |  |
| Disable dtp (auto trunk |  |
| Switchport mode trunk  Switchport nonegotiate  Switchport trunk allowed native vlan 99 |  |
|  |  |
| DHCP |  |
| Ip dhcp snooping |  |
| Interface f0/1 |  |
| Ip dhcp snooping trust |  |
| Or |  |
| Ip dhcp snooping limit rate 6 |  |
|  |  |
| ARP |  |
| Ip arp inspection vlan 10 |  |
| Ip arp inspection trust |  |
|  |  |
|  |  |
| SECURITY | PortFast  BPDU Guard |
|  |  |
| Int f0/1 |  |
| Sw mode access |  |
| Spanning-tree portfast |  |
| Exit |  |
| Spanning-tree portfast default |  |
|  |  |
| Int f0/1 |  |
| Sw mode access |  |
| Spanning-tree bpduguard enable |  |
| Exit |  |
| Spanning-tree portfast bpduguard default |  |
|  |  |

# STP

|  |  |
| --- | --- |
| Int f0/1 |  |
| Spanning-tree cost 25 |  |
|  |  |
| Spanning-tree vlan 1 root primary  Of  Spanning-tree vlan1 priority 24576 |  |
|  |  |
| Spanning-tree vlan 20 root secondary |  |
|  |  |
| Priority is telekens +4096 |  |
| Spanning-tree mode rapid-pvst |  |

# VLANs

|  |  |
| --- | --- |
| Vlan 10 |  |
| Name ‘vlan 10 naam’ |  |
| exit |  |
|  |  |
| Int f0/1 |  |
| Sw mode access |  |
| Sw access vlan 10 |  |
|  |  |
| VOICE |  |
|  |  |
| Int f0/2 |  |
| Sw mode access |  |
| Sw access vlan 20 |  |
| Mls qos trust cos |  |
| Sw voice vlan 150 |  |
|  |  |
| TRUNKS |  |
|  |  |
| Int f0/1 |  |
| Sw mode trunk |  |
| Sw nonegotiate |  |
| Sw trunk native vlan ‘id’ |  |
| Sw trunk allowed vlan 2,3,4 |  |
|  |  |
| ROUTER ON A STICK |  |
|  |  |
| Int g0/0/1.10 | Maak dit aan voor elke vlan op de router |
| Desc “default gw vlan10’ |  |
| Encap dot1Q 10 (native) | (Bij native vlan) |
| Ip addr 192.168.10.1 255.255.255.0 |  |
|  |  |
| Int g0/0/1 |  |
| Desc ‘trunk line to s1’ |  |
| No sh |  |
|  |  |
| INTER VLAN ROUTING (L3) |  |
| 1. Vlans aanmaken + naam 2. SVI vlan 3. Configureer access ports 4. Enable ip routing |  |
|  |  |
| Op de L3Switch |  |
|  |  |
| Vlan 10  Vlan 20 |  |
| Int f0/1  Sw m a  Sw a vlan 10 | Doe dit voor vlan 20 ook |
| Int vlan 10  Ip add 10.10.10.1 255.255.255.0 |  |
|  |  |
| Ip routing |  |

# DHCP

|  |  |
| --- | --- |
| Ip dhcp excluded-address ‘ip adres’ |  |
| Ip dhcp pool LAN-POOL |  |
| Network 192.168.1.0 255.255.255.0  Default-router 192.168.1.1  Dns-server 192.168.1.10  Domain-name example.com  end |  |
| Service dhcp |  |
|  |  |
| Op de kant van de lan  Als de dhcpserver niet in de lank ant staat  Int G0/0/0  Ip helper-address ‘ip van dhcp server’ |  |