# Network documentation

## Old-Network

### Networkplan

### IP-Address-management

In the IP-Table and the Port Table from the Einkauf-Department, you can see that the Network currently has 2 PCs for the Employees.

In the Context of this Scenario, we will add a additional PC to this Department, so that the new Employee Helmut Schöne can begin his Work at the Company.

IP-Table Core

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Net-Adress | Subnetmask | VLAN | Category | Description |
| 10.1.10.1 | /28 | 10 | Zugangsnetz | Geschäftsführung |
| 10.1.11.1 | /28 | 11 | Zugangsnetz | Verwaltung |
| 10.1.20.1 | /27 | 20 | Zugangsnetz | Finanzen |
| 10.1.30.1 | /24 | 30 | Zugangsnetz | Lager |
| 10.1.40.1 | /24 | 40 | Zugangsnetz | Einkauf |
| 10.1.50.1 | /24 | 50 | Zugangsnetz | Verkauf |
| 10.1.60.1 | /24 | 60 | Access-Point | Mitarbeiter |
| 10.1.70.1 | /23 | 70 | Access-Point | Kunden |

IP-Tabelle Verwaltung

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Net-Adress | Subnetmask | VLAN | Category | Description |
| 10.1.99.253 | /26 | 99 | Laptop | Management |
| 10.1.10.8 | /28 | 10 | PC | Geschäftsführung |
| 10.1.11.8 | /28 | 11 | PC | Verwaltung |

|  |  |  |  |
| --- | --- | --- | --- |
| Net-Adress | Subnetmask | VLAN | Category |
| 10.1.40.101 | /24 | 40 | PC |
| 10.1.40.102 | /24 | 40 | PC |

IP-Table Einkauf

### Port-Management

Router

|  |  |
| --- | --- |
| Device | Switchport |
| Core | Gig0/0/0 |
| SW-Server | Gig0/1 |
| Internet | Gig0/1/0 |

Core

|  |  |  |
| --- | --- | --- |
| Device | Switchport | Department |
| SW-Verwaltung | Gig1/0/1 | Verwaltung |
| SW-Finanzen | Gig1/0/2 | Finanzen |
| SW-Lager | Gig1/0/3 | Lager |
| SW-Einkauf | Gig1/0/4 | Einkauf |
| SW- Verkauf | Gig1/0/5 | Verkauf |

Verwaltung

|  |  |  |
| --- | --- | --- |
| Device | Switchport | VLAN |
| Laptop-PT Management | Gig0/2 | 99 |
| PC-GF01 | Fa0/1 | 10 |
| PC-VW01 | Fa0/10 | 11 |
| AC-AP-Gäste | Fa0/20 | 80 |

Einkauf

|  |  |  |
| --- | --- | --- |
| Device | Switchport | VLAN |
| PC-EK01 | Fa0/1 | 40 | Einkauf |
| PC-EK02 | Fa0/2 | 40 | Einkauf |
| AC-AP-Einkauf | Fa0/24 | 80 | Einkauf |

Ein Bild, das Text enthält.

Automatisch generierte BeschreibungYou can see that currently 2 PCs are connected to the Switch in the Einkauf-Department and that the Port 0/3 is turned off. That means that this Port is free and can be used to connect the PC, from the new Employee Helmut Schöne, tot he Department-Network.

## New Networkplan for Einkauf-Department

Networkschematic

### Port-Management

|  |  |  |
| --- | --- | --- |
| Device | Switchport | VLAN |
| PC-EK01 | Fa0/1 | 40 | Einkauf |
| PC-EK02 | Fa0/2 | 40 | Einkauf |
| PC-EK03 | Fa0/3 | 40 | Einkauf |
| AC-AP-Einkauf | Fa0/24 | 80 | Einkauf |

### IP-Address-management

|  |  |  |  |
| --- | --- | --- | --- |
| Net-Adress | Subnetmask | VLAN | Category |
| 10.1.40.101 | /24 | 40 | PC |
| 10.1.40.102 | /24 | 40 | PC |
| 10.1.40.103 | /24 | 40 | PC |

### Switch-Configuration

The new PC is now connected to the Switch in Department to the Port 0/3. Ein Bild, das Text enthält.

Automatisch generierte Beschreibung

We added the new PC to the Department and gave it the IP-Adress 10.1.40.103

With all these Setup done, Helmut Schöne now begin his Work at the Company.