

### VLAN

|                                            |                                        |
|--------------------------------------------|----------------------------------------|
| vlan <i>number</i>                         | generates a vlan with a certain number |
| name <i>name</i>                           | gives the vlan a name                  |
| show vlan brief                            | shows summary of vlans                 |
| switchport mode access                     | configures port as access              |
| switchport mode trunk                      | configures port as trunk               |
| switchport access vlan <i>number</i>       | puts port into vlan                    |
| switchport trunk native vlan <i>number</i> | uses specific vlan as native vlan      |

### Extended VLAN

|                      |                                    |
|----------------------|------------------------------------|
| vlan <i>number</i>   | number has to be greater than 1005 |
| vtp mode transparent | in order to use extended vlans     |

### VTP Commands

|                              |                          |
|------------------------------|--------------------------|
| vtp mode server              | sets mode to server      |
| vtp mode client              | sets mode to client      |
| vtp mode transparent         | sets mode to transparent |
| vtp domain <i>domain</i>     | sets vtp domain          |
| vtp password <i>password</i> | sets password            |
| show vtp status              | shows vtp status         |

### Etherchannel

|                                            |                                                                     |
|--------------------------------------------|---------------------------------------------------------------------|
| channel-group <i>number</i> mode desirable | adds a certain port to channel group - tries to create etherchannel |
| channel-group <i>number</i> mode auto      | adds a certain port to channel group - etherchannel only by request |
| show etherchannel summary                  | shows etherchannel summary                                          |
| int port-c- <i>number</i>                  | enters config mode for etherchannel                                 |

### Link Aggregation

|                                          |                                            |
|------------------------------------------|--------------------------------------------|
| channel-group <i>number</i> mode active  | creates link aggregation for certain ports |
| channel-group <i>number</i> mode passive | creates link aggregation for certain ports |

### DTP

|                                   |                  |
|-----------------------------------|------------------|
| switchport mode dynamic desirable | sets vtp mode    |
| show interface trunk              | to verify config |

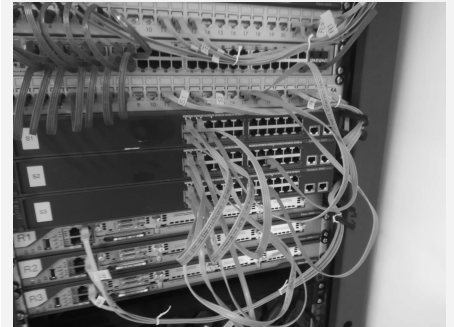
### Interface Commands

|                                                        |                                           |
|--------------------------------------------------------|-------------------------------------------|
| int <i>interface</i>                                   | enters config mode for this interface     |
| int range <i>interface</i> - <i>interface number</i> * | enters config mode for several interfaces |
| no shut                                                | up's port                                 |

### Useful show commands

|                         |                            |
|-------------------------|----------------------------|
| show ip interface brief | overview of all interfaces |
| show ip route           | shows routes               |

### Verkabelung 1



### Verkabelung 2

