

Switchkonfiguration VLAN

1. VLAN

VLAN- erstellen und Name vergeben

```
SWITCH#vlan database
```

```
SWITCH(vlan)#vlan 2 name VLAN2
```

1900

```
SWITCH#configure terminal
```

```
SWITCH(config)#vlan 2 name VLAN2
```

Port zum VLAN zuordnen

```
SWITCH(config)#interface fastethernet 0/9
```

```
SWITCH(config-if)#switchport mode access
```

```
SWITCH(config-if)#switchport access vlan 2
```

1900

```
SWITCH#config terminal
```

```
SWITCH(config)#interface Ethernet 0/2
```

```
SWITCH(config-if)#vlan static 2
```

Port aus VLAN entfernen

```
SWITCH(config)#interface fastethernet 0/9
```

```
SWITCH(config-if)#no switchport access vlan 2
```

```
SWITCH(config)#interface Ethernet 0/2
```

```
SWITCH(config-if)#no vlan-membership 2
```

1900

```
SWITCH#configure terminal
```

VLAN löschen (alle zugeordneten Ports werden inaktiv)

```
SWITCH#vlan database
```

```
SWITCH(vlan)#no vlan 2
```

1900

```
SWITCH#configure terminal
```

```
SWITCH(config)#no vlan 2
```

Diagnose

```
SWITCH#show vlan
```

```
SWITCH#show vlan brief
```

```
SWITCH#show vlan id 2
```

```
SWITCH#show vlan name VLAN2
```

1900

```
SWITCH#show vlan-membership
```

```
SWITCH#show vlan 2
```

Protokollierung

```
SWITCH#debug sw-vlan packets
```

2. Trunking

Trunking aktivieren

```
SWITCH(config)#interface fastethernet 0/1
SWITCH(config-if)#switchport mode trunk
```

Trunking mit ISL

```
SWITCH(config)#interface fastethernet 0/1
SWITCH(config-if)#switchport mode trunk
SWITCH(config-if)#switchport trunk encapsulation isl
```

Trunking mit IEE 802.1Q

2950 (hat nur 802.1Q)

```
SWITCH(config)#interface fastethernet 0/1
SWITCH(config-if)#switchport mode trunk
```

2900

```
SWITCH(config)#interface fastethernet 0/1
SWITCH(config-if)#switchport mode trunk
SWITCH(config-if)#switchport trunk encapsulation dot1q
```

1900 (nur Port 26, 27)

```
SWITCH(config)#interface fastethernet 0/26
SWITCH(config-if)#trunk on
```

Diagnose

```
SWITCH#show port capabilities
SWITCH#show trunk
SWITCH#show interface fastethernet 0/1 switchport
```

3. VTP

VTP Version 2 aktivieren

```
SWITCH#vlan database
SWITCH(vlan)#vtp v2-mode
```

VTP Domain- Name

```
SWITCH(vlan)#vtp domain XXX
```

Switch als VTP- Server konfigurieren

```
SWITCH(vlan)#vtp server
```

Switch als VTP- Client konfigurieren

```
SWITCH(vlan)#vtp client
```

Diagnose

```
SWITCH#show vtp status
SWITCH#show vtp counters
```