

[htl-logo](#)

# Titel: Managed VLAN

---

AufgabenNr:	04
Klasse:	4AHIF
Name:	Benjamin Friedl
Gruppe:	1
Abgabetermin:	X
Abgabedatum:	X

## Kurzbeschreibung:

---

# Inhaltsverzeichnis

---

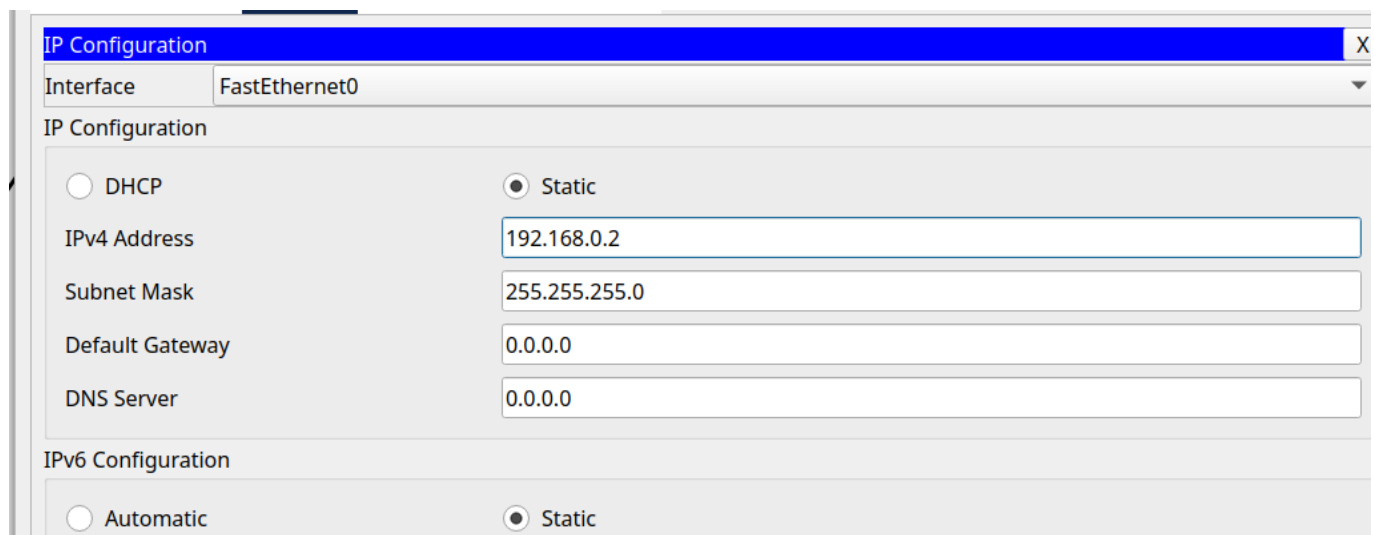
1. [Aufbau](#)
  2. [IP-Adressen konfigurieren](#)
  3. [ssh Zugang](#)
  4. [SSH Zugriff](#)
  5. [Konfiguration eines Switches kopieren](#)
-

\

## Aufbau

IP-Adressen konfigurieren

### Computer:



The screenshot shows the 'IP Configuration' window for the 'FastEthernet0' interface. The 'Static' radio button is selected under 'IP Configuration'. The fields are filled with the following values:

Field	Value
IPv4 Address	192.168.0.2
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0

Under 'IPv6 Configuration', the 'Static' radio button is also selected.

### Switches:

Die IP-Adressen der Switches werden wie folgt konfiguriert:

```
Switch>enable
Switch>enable
Switch#conf t
Switch(config)#interface vlan 1
Switch(config-if)#ip address 192.168.0.201 255.255.255.0
Switch(config-if)#no shutdown
```

```
Switch>
Switch>
Switch>enable
Switch>enable
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface vlan 1
Switch(config-if)#ip address 192.168.0.201 255.255.255.0
                        ^
% Invalid input detected at '^' marker.
Switch(config-if)#ip address 192.168.0.201 255.255.255.0
Switch(config-if)#
Switch#
%SYS-5-CONFIG_I: Configured from console by console
```

Das wird für alle Switches durchgeführt.

## ssh Zugang

- Domäne: `nvs.lan`
- User: `cisco`
- PW: `ciscossh`

```
Switch>
Switch>enable
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#
Switch(config)#ip domain-name nvs.lan
Switch(config)#username cisco password ciscossh
Switch(config)#hostname switch1
Switch1(config)#crypto key generate rsa general-keys modulus 2048
```

```
Switch#
Switch>
Switch>enable
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#
Switch(config)#ip domain-name nvs.lan
Switch(config)#username cisco password ciscossh
Switch(config)#
% Please define a hostname other than switch.
Switch(config)#hostname switch1
switch1(config)#crypto key generate rsa general-keys modulus 2048
The name for the keys will be: switch1.nvs.lan

% The key modulus size is 2048 bits
% Generating 2048 bit RSA keys, keys will be non-exportable...[OK]
*Mar 1 0:38:11.775: %SSH-5-ENABLED: SSH 1.99 has been enabled
switch1(config)#
```

## SSH Zugriff

Auf einem Computer kann man sich jetzt mit den Switches verbinden:

```
PS C:\Users\benja> ssh -l cisco 192.168.0.201
```

oder halt auch nicht...

## Konfiguration eines Switches kopieren

```
Switch#show running-config
```