



## Schritt 1: Statische Konfiguration

### Inside Server

PC1: .....

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: IP Address: 172.16.20.254, Subnet Mask: 255.255.255.0, Default Gateway: 172.16.20.1, and DNS Server: 172.16.20.254. Under 'IPv6 Configuration', the 'Static' radio button is also selected, with fields for IPv6 Address, Link Local Address (FE80::250:FFF:FE6E:9CDE), IPv6 Gateway, and IPv6 DNS Server.

The screenshot shows the 'IP Configuration' window for the 'PC1' interface. The 'Static' radio button is selected under 'IP Configuration'. The fields are filled with: IP Address: 172.16.10.2, Subnet Mask: 255.255.255.0, Default Gateway: 172.16.10.1, and DNS Server: 172.16.20.254. Under 'IPv6 Configuration', the 'Static' radio button is also selected, with fields for IPv6 Address, Link Local Address (FE80::202:4AFF:FEDE:DA1B), IPv6 Gateway, and IPv6 DNS Server.

### a) Konfiguration Router R1:

```
R2>enable
R2#configure terminal
R2 (config)#hostname R2
R2 (config)#banner motd #unauthorized access prohibited#
R2 (config)#enable password cisco

R2 (config)#line console 0
R2 (config-line)#password class
R2 (config-line)#login
R2 (config-line)#logging synchronous
R2 (config-line)#exit

R2 (config)#line vty 0 4
R2 (config-line)#password class
R2 (config-line)#login
R2 (config-line)#exit

R2 (config)#no enable secret
R2 (config)#enable password cisco
R2 (config)#service password-encryption

R2 (config)#interface FastEthernet0/0
R2 (config-if)#description Inside Server
R2 (config-if)#ip address 172.16.20.1 255.255.255.0
R2 (config-if)#no shutdown
R2 (config-if)#exit

R2 (config)#interface FastEthernet0/1
R2 (config-if)#description Switch S1
R2 (config-if)#ip address 172.16.10.1 255.255.255.0
R2 (config-if)#no shutdown
R2 (config-if)#exit

R2 (config)#interface serial 0/0/0
R2 (config-if)#description ISP
R2 (config-if)#ip address 209.165.201.1 255.255.255.252
R2 (config-if)#no shutdown
R2 (config-if)#exit
```