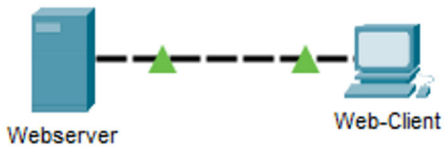
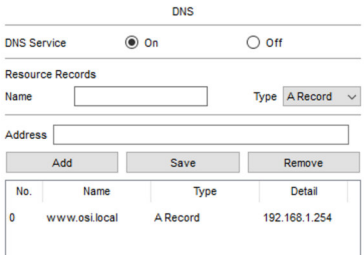
Erläuterungen V2

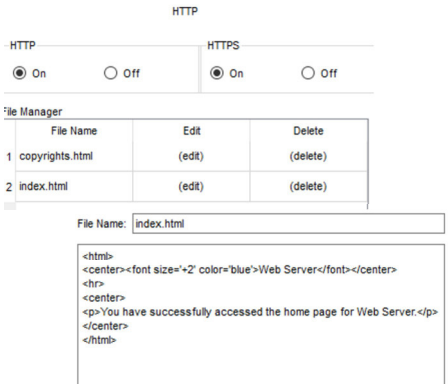
```
C:\>ipconfig

FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.....: FE80::201:96FF:FEA9:401D
   IPv6 Address.....: ::
   IPv4 Address.....: 192.168.1.254
   Subnet Mask.....: 255.255.255.0
   Default Gateway.....: ::
                                 0.0.0.0
```

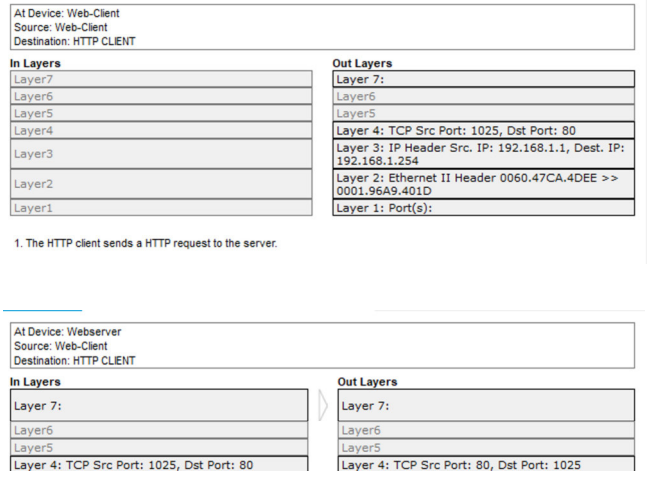
```
C:\>ipconfig

FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.....: FE80::260:47FF:FECA:4DEE
   IPv6 Address.....: ::
   IPv4 Address.....: 192.168.1.1
   Subnet Mask.....: 255.255.255.0
   Default Gateway.....: ::
                                 0.0.0.0
```

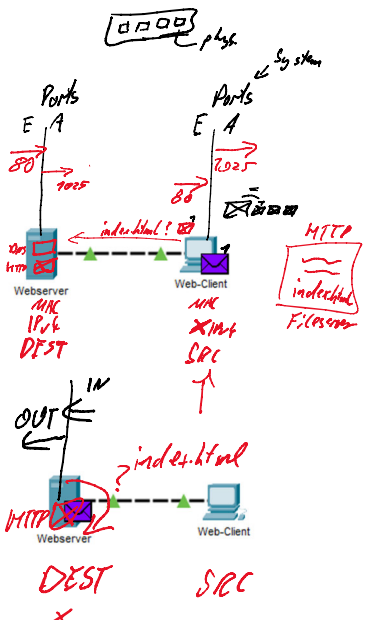
```
C:\>ipconfig /all

FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Physical Address.....: 0060.47CA.4DEE
   Link-local IPv6 Address.....: FE80::260:47FF:FECA:4DEE
   IPv6 Address.....: ::
   IPv4 Address.....: 192.168.1.1
   Subnet Mask.....: 255.255.255.0
   Default Gateway.....: ::
                                 0.0.0.0
   DHCP Servers.....: 0.0.0.0
   DHCPv6 IAID.....:
   DHCPv6 Client DUID.....: 00-01-00-01-A7-1C-70-92-00-60-47-CA-4D-EE
   DNS Servers.....: ::
                                 192.168.1.254
```





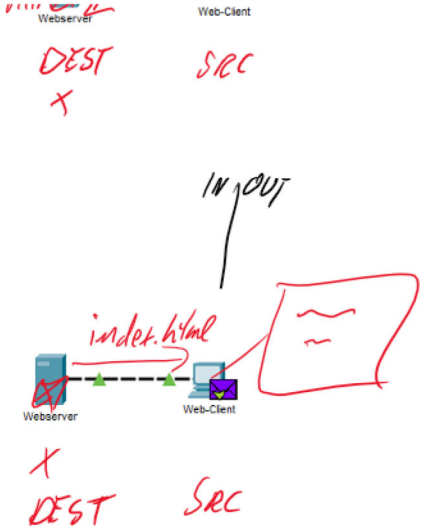






In Layers	Out Layers
Layer 7:	Layer 7:
Layer6	Layer6
Layer5	Layer5
Layer 4: TCP Src Port: 1025, Dst Port: 80	Layer 4: TCP Src Port: 80, Dst Port: 1025
Layer 3: IP Header Src. IP: 192.168.1.1, Dest. IP: 192.168.1.254	Layer 3: IP Header Src. IP: 192.168.1.254, Dest. IP: 192.168.1.1
Layer 2: Ethernet II Header 0060.47CA.4DEE >> 0001.96A9.401D	Layer 2: Ethernet II Header 0001.96A9.401D >> 0060.47CA.4DEE
Layer 1: Port FastEthernet0	Layer 1: Port(s): FastEthernet0

1. FastEthernet0 receives the frame.



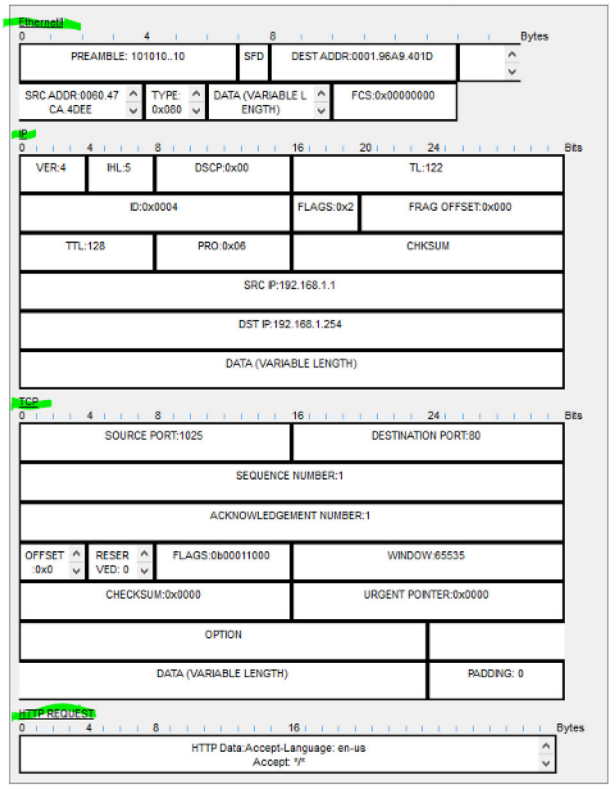
At Device: Webserver
Source: Web-Client
Destination: HTTP CLIENT

In Layers	Out Layers
Layer 7:	Layer 7:
Layer6	Layer6
Layer5	Layer5
Layer 4: TCP Src Port: 1025, Dst Port: 80	Layer 4: TCP Src Port: 80, Dst Port: 1025
Layer 3: IP Header Src. IP: 192.168.1.1, Dest. IP: 192.168.1.254	Layer 3: IP Header Src. IP: 192.168.1.254, Dest. IP: 192.168.1.1
Layer 2: Ethernet II Header 0060.47CA.4DEE >> 0001.96A9.401D	Layer 2: Ethernet II Header 0001.96A9.401D >> 0060.47CA.4DEE
Layer 1: Port FastEthernet0	Layer 1: Port(s): FastEthernet0

1. FastEthernet0 receives the frame.

PDU - Protocol Data Unit
Datagram

PDU Formats

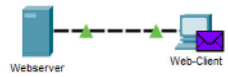


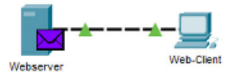
Gesamt

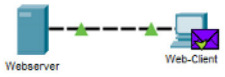
Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
Visible	0.000	--	Web-Client	DNS
Visible	0.000	--	Web-Client	ARP
	0.001	Web-Client	Webserver	ARP
	0.002	Webserver	Web-Client	ARP
	0.002	--	Web-Client	DNS
	0.003	Web-Client	Webserver	DNS
	0.004	Webserver	Web-Client	DNS
	0.004	--	Web-Client	TCP
	0.005	Web-Client	Webserver	TCP
	0.006	Webserver	Web-Client	TCP
	0.006	--	Web-Client	HTTP
	0.007	Web-Client	Webserver	TCP
	0.007	--	Web-Client	HTTP
	0.008	Web-Client	Webserver	HTTP
	0.009	Webserver	Web-Client	HTTP
	0.009	--	Web-Client	TCP
	0.010	Web-Client	Webserver	TCP
	0.011	Webserver	Web-Client	TCP
	0.012	Web-Client	Webserver	TCP

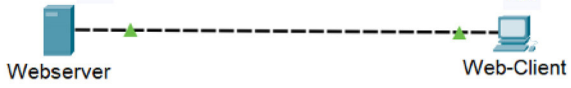






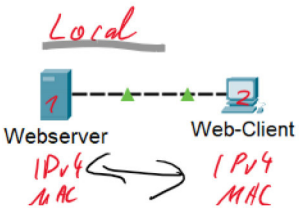
Copper
Crossover Cable
-> gleiche Ebene OSI Model

www.osi.local



192.168.1.254

192.168.1.1

2. Funktionen
> DNS Server
> HTTP (Fileserver)

Warum mehrere IPv4 Adressen ?
öffentlich vs. local