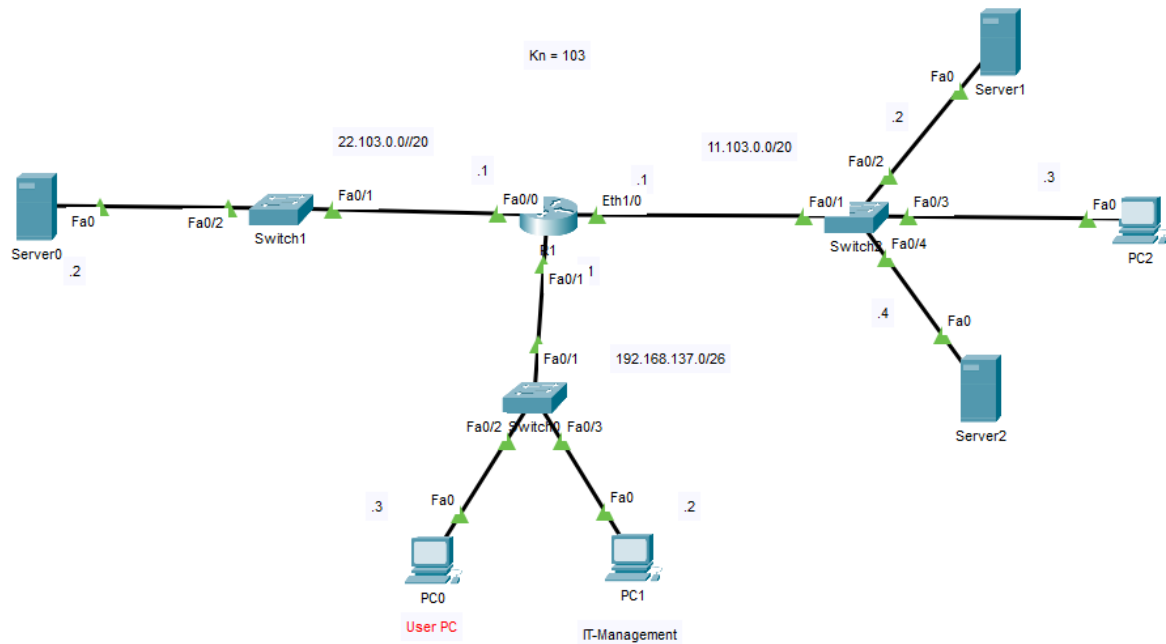


# Labor 4 - ACL



Config:

```
ip access-list extended SURFING_POELZL
permit tcp 192.168.137.0 0.0.0.63 any eq www
permit tcp 192.168.137.0 0.0.0.63 any eq 443
permit tcp 192.168.137.0 0.0.0.63 any eq ftp
permit icmp 192.168.137.0 0.0.0.63 any echo
permit tcp host 192.168.137.2 22.103.0.0 0.0.15.255 eq telnet
ip access-list extended BROWSING_POELZL
permit tcp any any established
permit icmp any any echo-reply
ip access-list extended DMZ_POELZL
permit tcp host 192.168.137.2 any eq telnet
permit tcp host 192.168.137.2 any eq ftp
permit tcp any any eq www
permit tcp any any eq 443

interface FastEthernet0/0
ip address 22.103.0.1 255.255.240.0
ip access-group DMZ_POELZL out
duplex auto
speed auto
!
interface FastEthernet0/1
ip address 192.168.137.1 255.255.192.0
ip access-group SURFING_POELZL in
ip access-group BROWSING_POELZL out
duplex auto
speed auto
```

IT-Management pingt Server1 (11.103.0.2)

```
C:\>ping 22.103.0.2

Pinging 22.103.0.2 with 32 bytes of data:

Reply from 192.168.137.1: Destination host unreachable.
Reply from 192.168.137.1: Destination host unreachable.
Reply from 192.168.137.1: Destination host unreachable.
Reply from 192.168.137.1: Destination host unreachable.

Ping statistics for 22.103.0.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

Router#show acc
Extended IP access list SURFING_POELZL
 10 permit tcp 192.168.137.0 0.0.0.63 any eq www
 20 permit tcp 192.168.137.0 0.0.0.63 any eq 443
 30 permit tcp 192.168.137.0 0.0.0.63 any eq ftp
 40 permit icmp 192.168.137.0 0.0.0.63 any echo (17 match(es))
 50 permit tcp host 192.168.137.2 22.103.0.0 0.0.15.255 eq telnet
Extended IP access list BROWSING_POELZL
 10 permit tcp any any established
 20 permit icmp any any echo-reply (8 match(es))
Extended IP access list DMZ_POELZL
 10 permit tcp host 192.168.137.2 any eq telnet
 20 permit tcp host 192.168.137.2 any eq ftp
 30 permit tcp any any eq www
 40 permit tcp any any eq 443
```

Durch das pingen kamen matches hinzu

ftp test IT-Management nach Server1 ( 11.103.0.2 ) Port 21

```
Web Browser
< > URL http://11.103.0.2:21 Go Stop

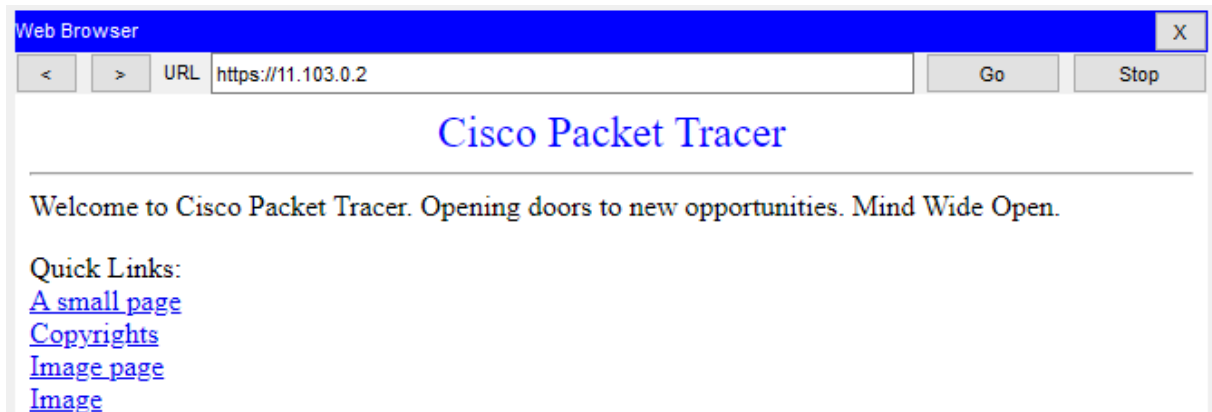
Router#show acc
Extended IP access list SURFING_POELZL
 10 permit tcp 192.168.137.0 0.0.0.63 any eq www
 20 permit tcp 192.168.137.0 0.0.0.63 any eq 443
 30 permit tcp 192.168.137.0 0.0.0.63 any eq ftp (58 match(es))
 40 permit icmp 192.168.137.0 0.0.0.63 any echo (17 match(es))
 50 permit tcp host 192.168.137.2 22.103.0.0 0.0.15.255 eq telnet
Extended IP access list BROWSING_POELZL
 10 permit tcp any any established (39 match(es))
 20 permit icmp any any echo-reply (8 match(es))
Extended IP access list DMZ_POELZL
 10 permit tcp host 192.168.137.2 any eq telnet
 20 permit tcp host 192.168.137.2 any eq ftp
 30 permit tcp any any eq www
 40 permit tcp any any eq 443
```

http test von IT-Management nach Server1 ( 11.103.0.2 )



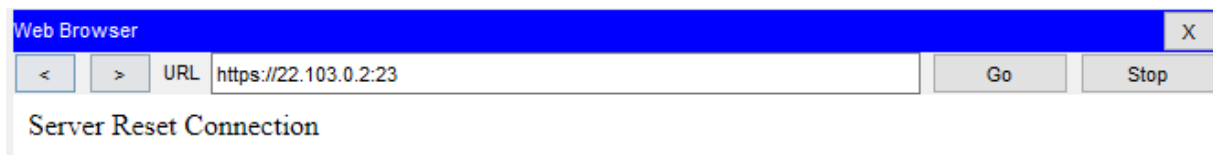
```
Router#show acc
Extended IP access list SURFING_POELZL
 10 permit tcp 192.168.137.0 0.0.0.63 any eq www (5 match(es))
 20 permit tcp 192.168.137.0 0.0.0.63 any eq 443
 30 permit tcp 192.168.137.0 0.0.0.63 any eq ftp (60 match(es))
 40 permit icmp 192.168.137.0 0.0.0.63 any echo (17 match(es))
 50 permit tcp host 192.168.137.2 22.103.0.0 0.0.15.255 eq telnet
Extended IP access list BROWSING_POELZL
 10 permit tcp any any established (43 match(es))
 20 permit icmp any any echo-reply (8 match(es))
Extended IP access list DMZ_POELZL
 10 permit tcp host 192.168.137.2 any eq telnet
 20 permit tcp host 192.168.137.2 any eq ftp
 30 permit tcp any any eq www
 40 permit tcp any any eq 443
```

https test von IT-Management nach Server1 ( 11.103.0.2 )

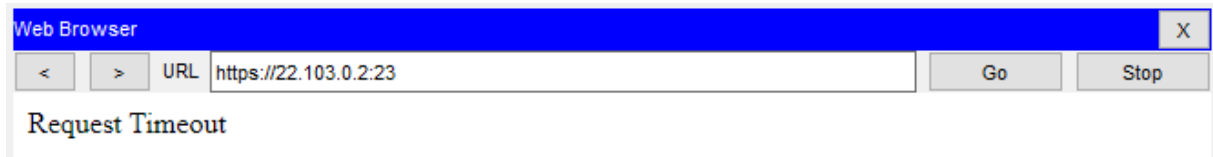


```
Router#show acc
Extended IP access list SURFING_POELZL
 10 permit tcp 192.168.137.0 0.0.0.63 any eq www (5 match(es))
 20 permit tcp 192.168.137.0 0.0.0.63 any eq 443 (10 match(es))
 30 permit tcp 192.168.137.0 0.0.0.63 any eq ftp (60 match(es))
 40 permit icmp 192.168.137.0 0.0.0.63 any echo (17 match(es))
 50 permit tcp host 192.168.137.2 22.103.0.0 0.0.15.255 eq telnet
Extended IP access list BROWSING_POELZL
 10 permit tcp any any established (49 match(es))
 20 permit icmp any any echo-reply (8 match(es))
Extended IP access list DMZ_POELZL
 10 permit tcp host 192.168.137.2 any eq telnet
 20 permit tcp host 192.168.137.2 any eq ftp
 30 permit tcp any any eq www
 40 permit tcp any any eq 443
```

Telnet von IT-Management

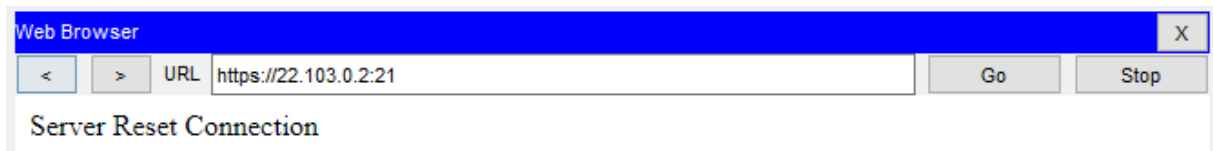


Telnet von User PC



Wurde erfolgreich denied

FTP von IT-Management



FTP von User PC



Wurde erfolgreich denied