

EXTENDED ACCESS LISTS

e1

Well-known Port

IP Protocol

20 (TCP)

FTP data

21 (TCP)

FTP control

23 (TCP)

Telnet

25 (TCP)

SMTP

53 (TCP/UDP)

DNS

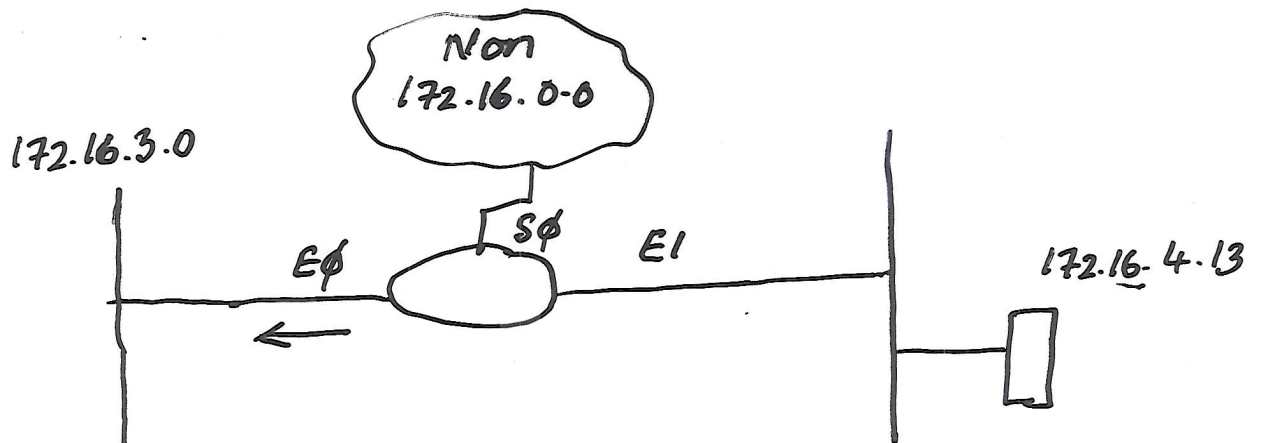
69 (UDP)

TFTP

80 (TCP)

HTTP

Range: 100 - 199



```
access-list 101 deny tcp 172.16.4.0 0-0-0.255 172.16.3.0 0-0-0.255 eq 21
" " " " " " " eq 20
```

```
access-list 101 deny ip any any
                permit
```

(implicit deny all)

```
interface ethernet 0
ip access-group 101 out
```

①

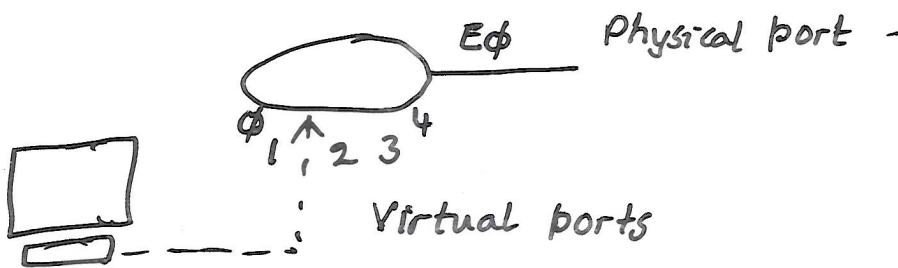
VIRTUAL TERMINAL LINE COMMANDS:

Router (config) #

line vty { vty # | vty-range }

Router (config-line) #

access-class access-list-number { in | out }



```
access-list 12 permit 192.89.55.0 0.0.0.255
```

```
line vty 0 4
```

```
access-class 12 in
```

Permits any device on network 192.89.55.0 to establish a virtual terminal (Telnet) session with the router. (Needs passwords)

Implicit deny all still applies to the access list.

access-list 101 deny tcp 172.16.4.0 0.0.0.255 any eq 23 ^{e2}

access-list 101 permit ip any any

interface e0

ip access-group 101 out

(2)

① DENY FTP FROM SUBNET 172.16.4.0 to SUBNET 172.16.3.0
PERMIT ALL OTHER IP TRAFFIC OUT INTERFACE e0.

② DENY Telnet traffic from Subnet 172.16.4.0 out
of interface e0
All other IP traffic from any source to any
destination is permitted out e0.

PLACE MORE SPECIFIC STATEMENTS FIRST

NO REORDERING OR REMOVAL OF STATEMENTS

USE NO ACCESS-LIST NUMBER TO REMOVE

ENTIRE ACCESS LIST

IMPLICIT DENY ALL

EXTENDED ACCESS LISTS SHOULD NORMALLY BE PLACED AS CLOSE AS POSSIBLE TO THE SOURCE OF THE TRAFFIC TO BE DENIED.

STANDARD ALS - NO DESTINATION @

∴ PLACE IT AS NEAR THE DESTINATION AS POSSIBLE.

VERIFYING AL:

show ip int e0

MONITORING AL:

show ip access-lists