

ACL (Access Control List) based on Source and Destination port :

Here as an authorized traffic , I have passed a complex PDU passing HTTP using the network which has a

A PC , A Router and A Server

The screenshot displays a network simulation environment. On the left, a topology diagram shows a 'Server-PT Server0' connected to a 'R11 Router0', which is in turn connected to a 'PC-PT PC0'. The main window is titled 'Simulation Panel' and contains an 'Event List' table. The table has columns for 'Vis.', 'Time(sec)', 'Last Device', 'At Device', and 'Type'. It shows several TCP events between PC0, Router0, and Server0. Below the table are controls for 'Reset Simulation', 'Constant Delay', and 'Play Controls'. At the bottom, there are 'Event List Filters - Visible Events' and a table with columns for 'Fire', 'Last Status', 'Source', 'Destination', 'Type', 'Color', 'Time(sec)', 'Periodic', 'Num', and 'Edit'. The 'Fire' column shows a 'Successful' status for a packet from PC0 to 10.0.0.10 via TCP port 80.

Vis.	Time(sec)	Last Device	At Device	Type
	0.001	PC0	Router0	TCP
	0.002	Router0	Server0	TCP
	0.003	Server0	Router0	TCP
	0.004	Router0	PC0	TCP
	0.004	--	PC0	TCP

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit
	Successful	PC0	10.0.0.10	TCP		3.000	Y	0	(edit)

Here it is successful by configuring by permitting traffic at port 80

```
ip access-list extended RESTRICT_PORTS
permit tcp 192.168.1.0 0.0.0.255 host 10.0.0.10 eq 80
deny ip 192.168.1.0 0.0.0.255 host 10.0.0.10
```

There are commands used in Router0 CLI to configure the route

The packet passed through Router0 and reached Server0.

The event list should show the packet being permitted by the ACL rule permit tcp 192.168.1.0 0.0.0.255 host 10.0.0.10 eq 80.

Whereas,

Marking Destination port as 23 (Telnet)

The packet have be dropped at Router0, and the event list shows the packet being denied by the ACL rule deny ip 192.168.1.0 0.0.0.255 host 10.0.0.10

Thats why it is Failed communication

cal

x: 437, y: 250

Root

05:21:00

Server-PT
Server0

Router0

PC-PT
PC0

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.001	PC0	Router0	TCP
	0.002	Router0	Server0	TCP
	0.003	Server0	Router0	TCP
	0.004	Router0	PC0	TCP
	2.001	PC0	Router0	TCP
	2.002	Router0	Server0	TCP
	2.003	Server0	Router0	TCP
	2.004	Router0	PC0	TCP

Reset Simulation

☒ Constant Delay

Captured to: 2.004 s

Play Controls

⏮

⏪

⏩

⏭

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDR, USB, VTP

Edit Filters

Show All/None

AY CONTROLS

⏮

⏪

⏩

⏭

Scenario 0

New

Delete

Toggle PDU List Window

Fire

Last Status

Source

Destination

Type

Color

Time(sec)

Periodic

Num

Edit

Failed	PC0	10.0.0.10	TCP		2.000	Y	0	(edit)
--------	-----	-----------	-----	--	-------	---	---	--------

Automatically Choose Connection Type