

Project 2 - Firewalls Introduction to Computer Security

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1 Zones

Zone	Elements
1	web
2	SMTP
3	I2
4	PDNS
5	DHCP_R2, U2
6	DHCP, SSH, HTTP, LDNS
7	RSYNC
8	DHCP_R1, I1, U1
9	Internet

Table 1: List of the zones and their components

2 Rules

Zone	Number	Source	Port	Dest	Port	Protocol	Action	Comments		
Zone 4: Incoming rules										
4	1	Any	Any	172.14.5.3	53	UDP	Allow	DNS requests from anywhere		
4	2	Any	Any	172.14.5.3	Any	Any	Deny	Not a DNS request		
Zone	4: Outgo									
4	4	172.14.5.3	Any	Any	Any	Any	Deny	Not a DNS reply		
Zone 1 : Incoming rules										
4	5	Any	Any	172.14.6.3	80	TCP	Allow	HTTP web server		
4	6	Any	Any	172.14.6.3	443	TCP	Allow	HTTPS web server		
4	7	Any	Any	172.14.6.3	21	TCP	Allow	FTP (command port $+$ data in passive mod		
4	8	Any	Any	172.14.6.3	Any	Any	Deny	Rejects other		
Zone 1 : Outgoing rules										
4		172.14.6.3	20	Any	Any	TCP	Allow	FTP data (reply)		
4		172.14.6.3	Any	Any	Any	Any	Deny	Rejects other		

Zone 9: Incoming rules

Table 2: Firewall 1

At FW2:

- Port 3001 : correspond to the requests from 172.16.5.2 (DHCP_R2)
- Port 3002 : correspond to the requests from 172.16.6.2 (DHCP)
- $\bullet~$ Port 3003: correspond to the requests from $172.16.6.3~(\mathrm{SSH})$
- $\bullet\,$ Port 3004 : correspond to the requests from 172.16.6.4 (HTTP)
- Port 3005 : correspond to the requests from 172.16.6.4 (HTTPS)
- Port 3006 : correspond to the requests from 172.16.6.5 (LDNS)

- Port 3007: correspond to the requests from 172.16.9.2 (RSYNC)
- Port 3008 : correspond to the requests from 172.16.8.2 (DHCP_R1)
- $\bullet\,$ Port 3009 : correspond to the requests from 172.16.8.3 (I1)
- Port 3010 to 3260: correspond to the requests from 172.16.8.4...254 (U1)
- Port 3261 to 3514: correspond to the requests from 172.16.5.3...254 (U2)

At FW3:

- \bullet Port 3001: correspond to the requests from 172.16.4.2:25 (I2)
- Port 3002 : correspond to the requests from 172.16.4.2:587 (I2)
- \bullet Port 3003 : correspond to the requests from 172.16.4.2:465 (I2)

Zone	Number	Source	Port	Dest	Port	Protocol	Action	C
Zone 3: Incoming rules								
3	1 '	172.14.5.2	3003	172.16.4.2	22	TCP	Allow	SSH
3	'	172.14.6.3	20	172.14.6.2	Any	TCP	Allow	FTP (c
3	'	Any	Any	172.16.4.2	Any	Any	Deny	Deny o
Zone 3: Outgoing rules								
3	'	172.16.4.2	Any	172.14.5.2	3003	TCP	Allow	SSH
3	'	172.16.4.2	Any	172.14.5.2	3004	TCP	Allow	HTTP
3	'	172.16.4.2	Any	172.14.5.2	3005	TCP	Allow	HTTPS
3	'	172.16.4.2	Any	172.14.5.3	53	UDP/TCP	Allow	(P)DN
3	'	172.16.4.2	Any	172.14.6.3	21/80	TCP	Allow	Web
3	'	172.16.4.2	Any	172.14.7.2	25	TCP	Allow	SMTP
3	'	172.16.4.2	Any	Any	Any	Any	Deny	Deny o
Zone 2 : Incoming rules								
2	1 '	172.14.5.2.2	3261 to 3514	172.14.6.2	Any	TCP	Allow	SMTP
2	'	Any	Any	172.14.6.2	Any	Any	Deny	Deny o
Zone 2 : Outgoing rules					•	,		

Zone 1: Incoming rules

Table 3: Firewall 3