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 : Outgoing rules								
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 172.16.6.1

- Port 3002 : correspond to the requests from 172.16.5.1

Zone	Number	Source	Port	Dest	Port	Protocol	Action	Comments
Zone 3 : Incoming rules								
3		172.14.5.2	3001	172.16.4.2	22	TCP	Allow	SSH
3		172.14.6.3	20	172.16.4.2	Any	TCP	Allow	FTP (data)
3		Any	Any	172.16.4.2	Any	Any	Deny	Deny otherwise
Zone 3 : Outgoing rules								
3		172.16.4.2	Any	172.14.5.2	22	TCP	Allow	SSH
3		172.16.4.2	Any	172.14.5.2	80	TCP	Allow	HTTP
3		172.16.4.2	Any	172.14.5.2	443	TCP	Allow	HTTPS
3		172.16.4.2	Any	172.14.5.3	53	UDP/TCP	Allow	(P)DNS
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 otherwise
Zone 2 : Incoming rules								
2		Any	Any	height	**Zone 2 : Outgoing rules**			
Zone 1 : Incoming rules								

Table 3: Firewall 3