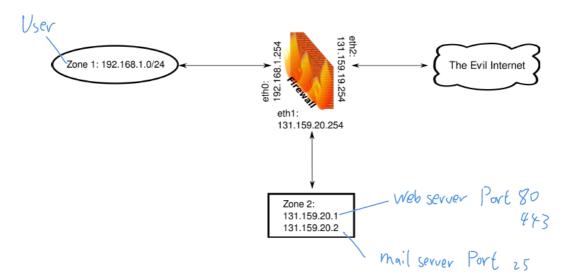
COMP9121 Week 12

1. We will practice firewall configuration in this task. The figure below shows the configuration you want to achieve. In Zone 2, you've got one Web server (131.159.20.1) on TCP ports 80 and 443, and one mail server (131.159.20.2) on TCP port 25. Your home users reside in Zone 1.



Your security policy is as follows:

- 1. Your home users may freely access any Web service, anywhere, on ports 80 and 443, but only if they initiate the connection themselves (i.e. they are allowed to browse the Web). Noone outside Zone 1 can initiate connections to Zone 1, on any port.
- 2. Everyone, including the Evil Internet, can access the web server (both ports) and mail server in Zone 2. However, no host in Zone 2 can initiate connections anywhere else.

To save you some writing, you can refer to the IP ranges (source and destination) by their 'zone names'. Use 'Ext' if you want to refer to the Evil Internet, 'Zone 1' if you want to refer to the IP range of Zone 1 etc.

Complete the table to define a stateless firewall configuration for the given scenario.

	Interface		Source IP	Destination	Source	Destination	ACK	Action
t				IP	Port	Port		
	Eth0		Zone1	*	*	80, 443	Any	allow
	Eth1		Zone2	Zone1	80, 443	*	Set	allow
	Eth2		Ext	Zone1	80, 443	*	Set	allow
	Eth2		Ext	131.159.20.2	*	25 mgi	Any	allow
	Eth1		131.159.20.2	Ext	25 mail	*	Set	allow
	Eth2		Ext	131.159.20.1	*	80,443 466	Any	allow
	Eth1		131.159.20.1	Ext	80, 443 Web	*	Set	allow
	Eth0		Zone1	131.159.20.2	*	25 mail	Any	allow
3	Eth1	/	131.159.20.2	Zone1	25 mai (*	Set	allow
	*		*	*	*	*	*	Deny

21->81 l Fxt

21->21 |

Ext ->21

Ext ->21

Ext ->21

Ext ->21

Ext ->Ext ->Ext

Ext ->Ext ->Ext

21 ->Ext

Anyi Can establish connection
Set: Cannol establish connection
by itself, can only
reply