

Esercizio di Ciaschini Giorgio del 19/02/2024

Abbiamo impostato il firewall PfSense sul lato di Kali affinché non si connettesse con la macchina Metasploitable. Lo abbiamo configurato in uscita da Kali perché in questo modo scavalchiamo possibili regole insite nel firewall.

The image shows a Kali Linux virtual machine environment. The top window displays the PfSense web interface, specifically the 'Rules / LAN' configuration page. A warning message at the top states: 'WARNING: The 'admin' account password is set to the default value. Change the password in the User Manager.' Below this, a green message indicates that changes have been applied successfully and the firewall rules are reloading. The 'Rules (Drag to Change Order)' table is visible, showing three rules:

States	Protocol	Source	Port	Destination	Port	Gateway	Queue	Schedule	Description	Actions
✓	2/296 KiB	*	*	LAN Address	443	*	*	*	Anti-Lockout Rule	⚙️
✗	0/0 B	IPv4 TCP	192.168.50.100	*	192.168.49.101	80 (HTTP)	*	none		🔗 📄 🗑️ 🚫
✓	3/163 KiB	IPv4 *	LAN subnets	*	*	*	none		Default allow LAN to any rule	🔗 📄 🗑️ 🚫
✓	0/0 B	IPv6 *	LAN subnets	*	*	*	none		Default allow LAN IPv6 to any rule	🔗 📄 🗑️ 🚫

Below the table are buttons for 'Add', 'Delete', 'Toggle', 'Copy', 'Save', and 'Separator'. The bottom window shows a Kali Linux terminal with a 'Timed Out' message. The right window shows a Metasploitable virtual machine terminal with network statistics and a list of available commands:

```
msfadmin@metasploit> ifconfig
eth0: Link encap:Ethernet HWaddr 08:00:27:1a:9a:84
      inet addr:192.168.49.101 Bcast:192.168.49.255 Mask:255.255.0
      inet6 addr: fe80::a00:271f:1a:9a84 Scope:Link
      UP BBADBCAST RUNNING MULTICAST MTU:1500 Metric:1
      RX packets:22 errors:0 dropped:0 overruns:0 frame:0
      TX packets:105 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:1000
      RX bytes:1970 (1.9 KB) TX bytes:17370 (16.9 KB)
      Base address:0x4020 Memory:f0200000-f0200000

lo: Link encap:Local Loopback
      inet addr:127.0.0.1 Mask:255.0.0.0
      inet6 addr: ::1:28 Scope:Host
      UP LOOPBACK RUNNING MTU:65536 Metric:1
      RX packets:77 errors:0 dropped:0 overruns:0 frame:0
      TX packets:77 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:0
      RX bytes:6340 (6.1 KB) TX bytes:6340 (6.1 KB)

msfadmin@metasploit>

Press ENTER to continue.

VirtualBox Virtual Machine - Netgate Device ID: 405f1de84e67806d89e9

*** Welcome to pfSense 2.7.2-RELEASE (amd64) on pfSense ***

WRN (wan) -> em0 -> v4/DHCP4: 19.8.2.15/24
LRN (lan) -> em1 -> v4: 192.168.50.1/24
OPT1 (opt1) -> em2 -> v4: 192.168.49.1/24

8) Logout (SSH only)          9) pfTop
1) Reassign Interfaces         10) Filter Logs
2) Set interface(s) IP address 11) Restart webConfigurator
3) Reset webConfigurator password 12) PHP shell - pfSense tools
4) Reset to factory defaults   13) Update from console
5) Reboot system               14) Enable Secure Shell (sshd)
6) Halt system                 15) Restore recent configuration
7) Ping host                   16) Restart PHP-FPM
8) Shell

Enter an option:
Message from syslogd@pfSense at Feb 19 15:19:58 ...
php-fpm[3981]: /index.php: Successful login for user 'admin' from: 192.168.50.188
(Local Database)
```