

pf

As a change of pace from vyos, we will configure pfSense 2.5.8 for routing.

New pf VM

- * ESXi6.5 Compatability (You can export it later as an OVA if you want)
- * Other FreeBSD (64-bit)
- * put this on datastore2
- * 2GiB RAM
- * THIN provision the disk

- 2 Network Cards
- 1 on VM Network
- 2 on 350-Internal (you will need to add this one)
- CD Points to pfSense ISO file
- Install pfSense
 - Before reboot
 - poweroff
 - disconnect cd by changing to "Host Device"
 - snapshot called Base

Configure the Firewall

em0 should pick up a foster dhcp address

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pfSense 2.5.2-RELEASE amd64 Fri Jul 02 15:33:00 EDT 2021
Bootup complete

FreeBSD/amd64 (pfSense.home.arp) (ttyv0)

VMware Virtual Machine - Netgate Device ID: d1219fc1bfe5eb1167d0

*** Welcome to pfSense 2.5.2-RELEASE (amd64) on pfSense ***

WAN (wan)      -> em0      -> v4/DHCP4: 192.168.3.110/24
LAN (lan)      -> em1      -> v4: 192.168.1.1/24

0) Logout (SSH only)          9) pfTop
1) Assign 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: 8
```

Set Interface IP Addresses to the following

- WAN/em0

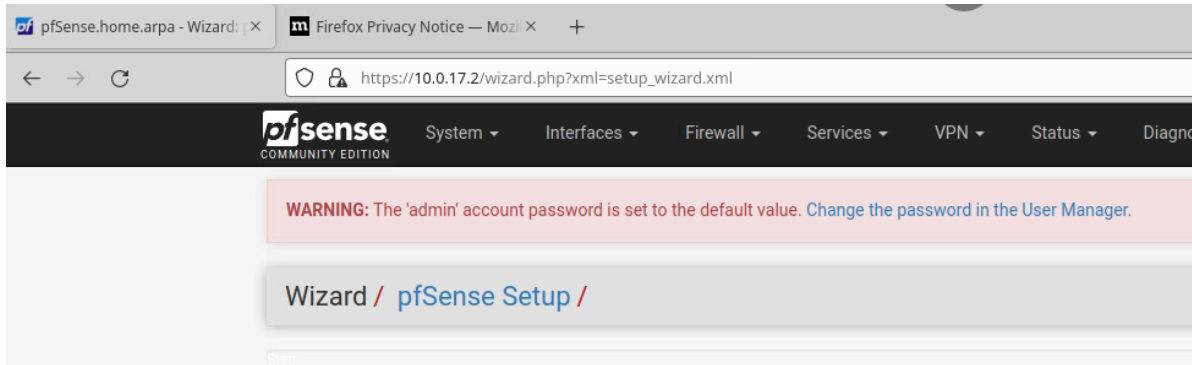
- static ip of 192.168.3.41/24 Δ This is Devin's Ip, pick your own.
- gateway of 192.168.3.250
- LAN/em1
 - static ip of 10.0.17.2/24
 - no on dhcp just yet

configure mgmt system

This needs to get done to complete the configuration of pfSense

- [mgmt1](#)

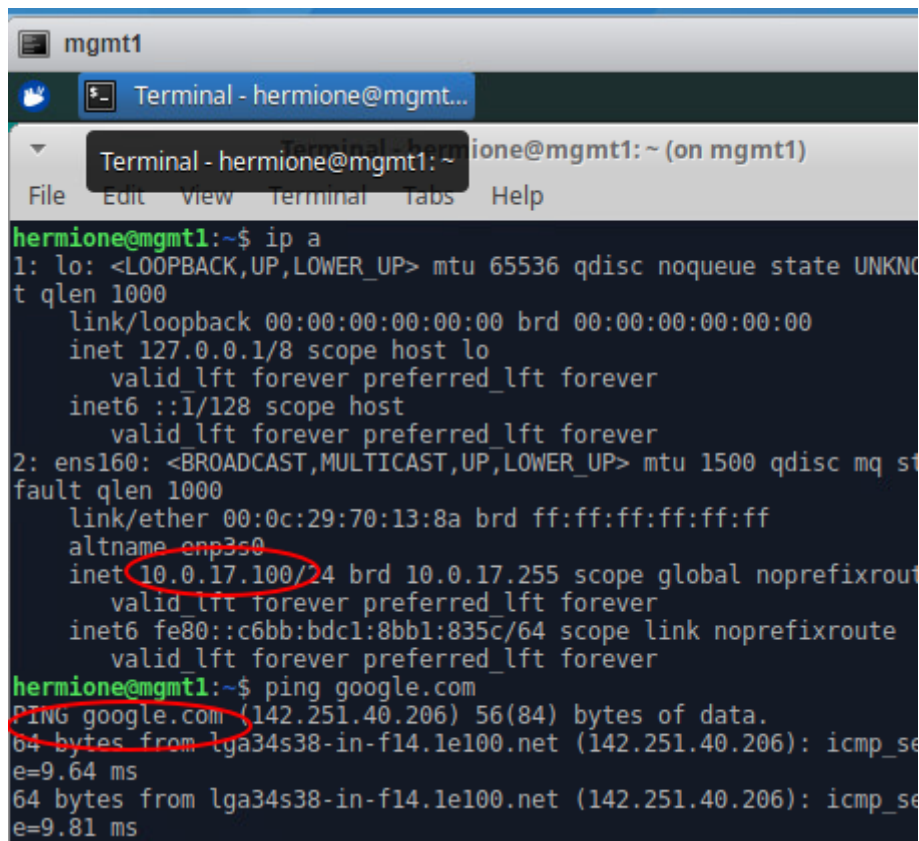
completion of configuration via gui



Go through the wizard, changing the following values

- Hostname: pfX, where X is your super number
- Domain: yourname.local
- Primary DNS Server: 1.1.1.1
- Uncheck Unblock RFC1918 Private Networks
- Secure your admin password

PF Sense Proof



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mgmt1
Terminal - hermione@mgmt1: ~ (on mgmt1)
File Edit View Terminal Tabs Help

hermione@mgmt1:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKN
t qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens160: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq st
fault qlen 1000
    link/ether 00:0c:29:70:13:8a brd ff:ff:ff:ff:ff:ff
    altname enp3s0
    inet 10.0.17.100/24 brd 10.0.17.255 scope global noprefixrou
        valid_lft forever preferred_lft forever
    inet6 fe80::c6bb:bdcl:8bb1:835c/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
hermione@mgmt1:~$ ping google.com
PING google.com (142.251.40.206) 56(84) bytes of data.
64 bytes from lga34s38-in-f14.1e100.net (142.251.40.206): icmp_se
e=9.64 ms
64 bytes from lga34s38-in-f14.1e100.net (142.251.40.206): icmp_se
e=9.81 ms
```

Remote Access

- Optional, but CRD is a good idea