Image not found or type unknown

Instalacja routera pfSense na Proxmox od PUQ.

pfSense to dystrybucja firewall/router oparta na FreeBSD.

pfSense jest przeznaczony do zainstalowania na komputerze, jest znany ze swojej niezawodności i oferuje funkcje, które często można znaleźć tylko w drogich komercyjnych zaporach. Ustawień można dokonać za pomocą interfejsu internetowego, który umożliwia korzystanie z niego bez znajomości podstawowych danych. Urządzenia sieciowe z pfSense są powszechnie używane jako zapory obwodowe, routery, serwery DHCP / DNS, sieci VPN.

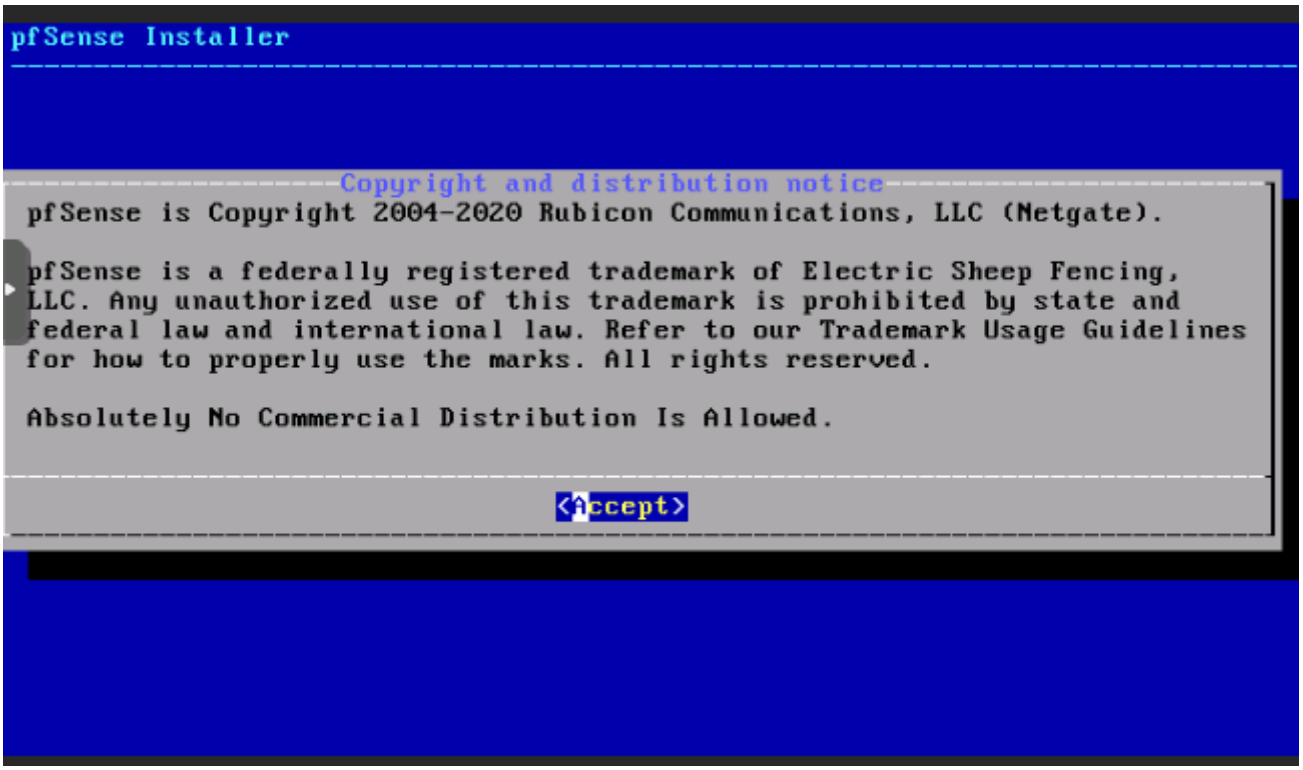
Pobierz i wgraj obraz ISO najnowszej wersji pfSense ze strony https://www.pfsense.org/download/

Utwórz maszynę wirtualną z następnymi parametrami:

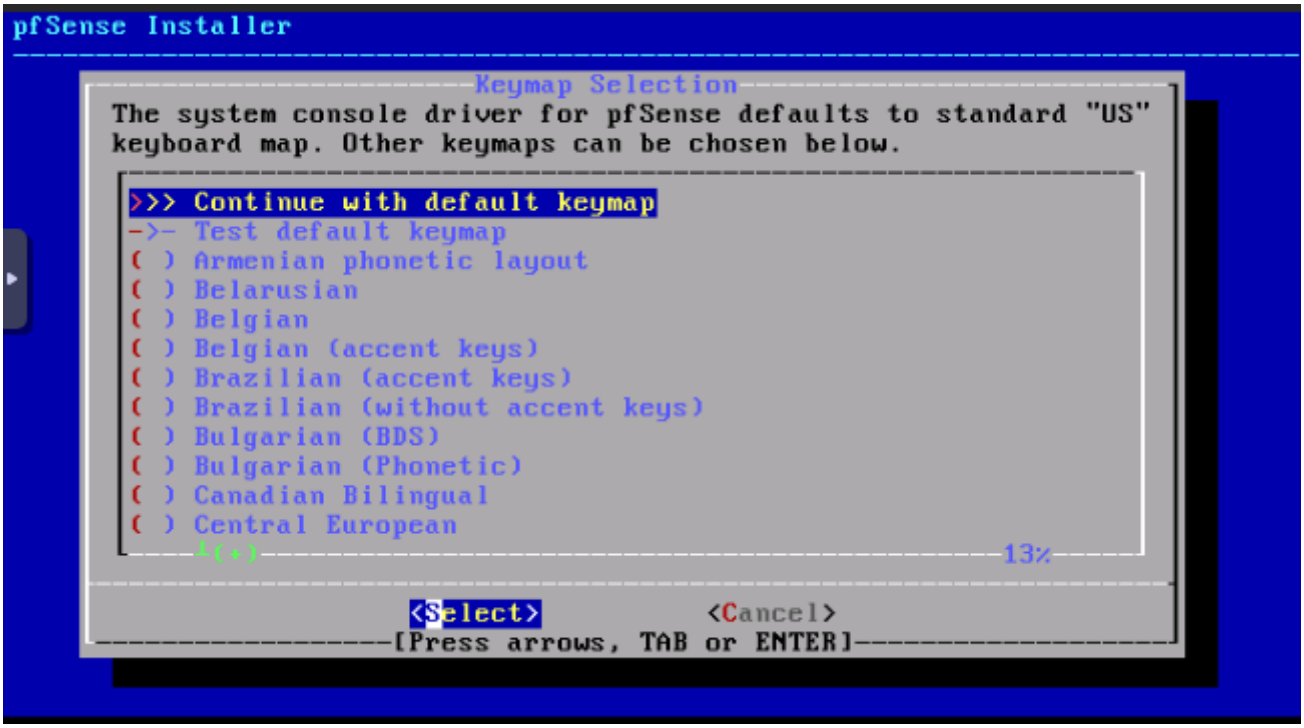
CPU: 4
RAM: 2Gb
CD/DVD: pfSense.iso
HDD: 32 GB (virtio)
LAN1: vmbr0 (virtio)
LAN2: vmbr1 (virtio)

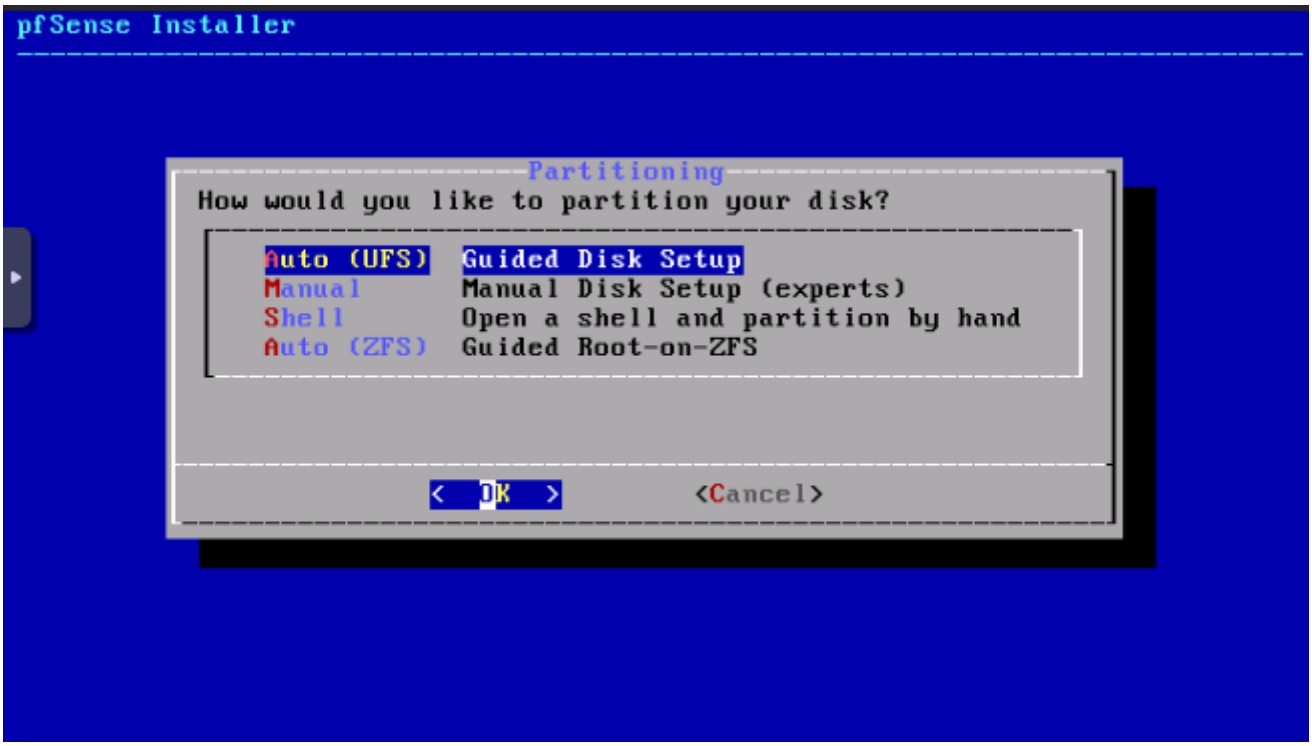
Pamięć	2.00 GiB
Procesory	4 (1 sockets, 4 cores)
BIOS	Domyślnie (SeaBIOS)
Ekran	Domyślnie
Machine	Domyślnie (i440fx)
SCSI Controller	VirtIO SCSI
napęd CD/DVD (ide2)	storage:iso/pfSense-CE-2.4.5-RELEASE-p1-amd64.iso,media=cdrom,size=734870K
Dysk (virtio0)	storage:100/vm-100-disk-0.qcow2,size=32G
Urządzenie sieciowe (net0)	virtio=96:DA:5C:85:4B:2A,bridge=vmbr0,firewall=1
Urządzenie sieciowe (net1)	virtio=12:EA:B3:89:20:B7,bridge=vmbr1,firewall=1

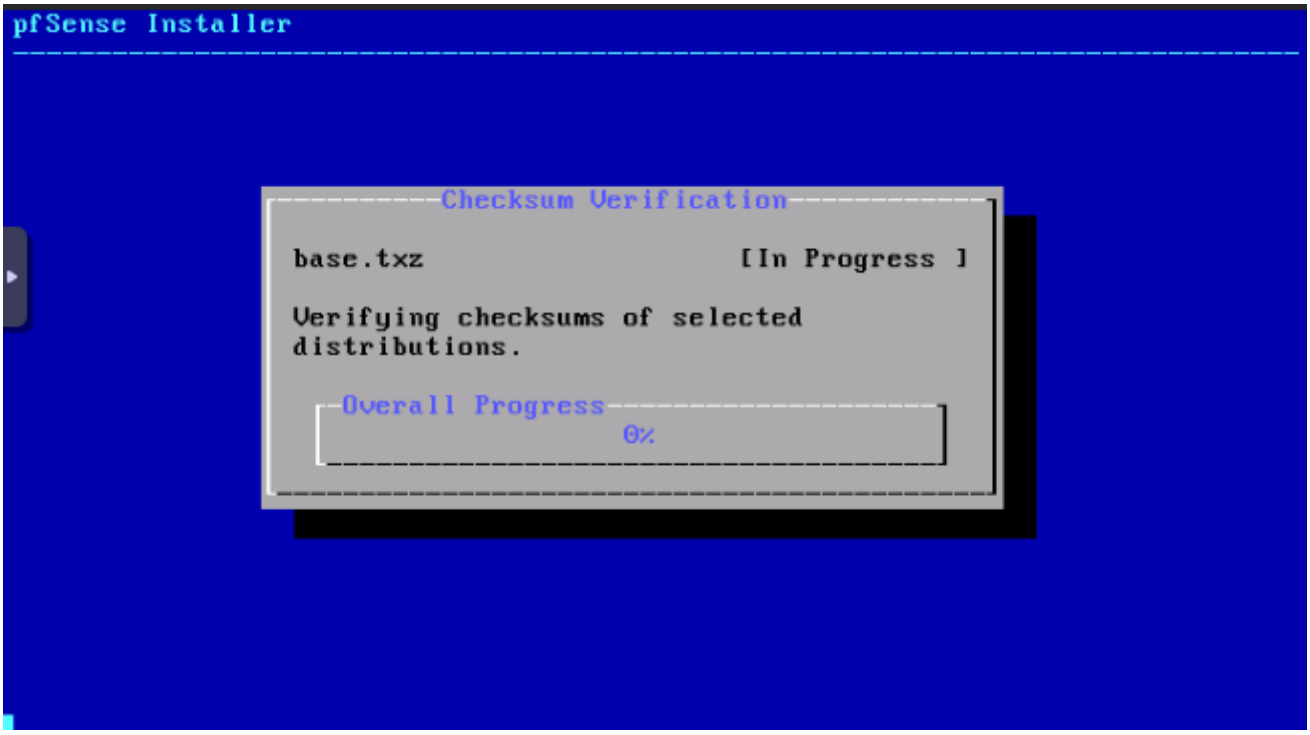
Uruchom maszynę i zainstaluj system.




pfSense Installer
Welcome
Welcome to pfSense!
Install
Install pfSense
Rescue Shell
Launch a shell for rescue operations
Recover config.xml
Recover config.xml from a previous install
< OK >
<Cancel>


pfSense Installer
Keymap Selection
The system console driver for pfSense defaults to standard "US"
keyboard map. Other keymaps can be chosen below.
>>> Continue with default keymap
->- Test default keymap
( ) Armenian phonetic layout
( ) Belarusian
( ) Belgian
( ) Belgian (accent keys)
( ) Brazilian (accent keys)
( ) Brazilian (without accent keys)
( ) Bulgarian (BDS)
( ) Bulgarian (Phonetic)
( ) Canadian Bilingual
( ) Central European
13%
<Select>
<Cancel>
[Press arrows, TAB or ENTER]


pfSense Installer
Partitioning
How would you like to partition your disk?
Auto (UFS) Guided Disk Setup
Manual Manual Disk Setup (experts)
Shell Open a shell and partition by hand
Auto (ZFS) Guided Root-on-ZFS
< OK >
<Cancel>


pfSense Installer
Checksum Verification
base.txz [In Progress]
Verifying checksums of selected distributions.
Overall Progress
0%

Po zainstalowaniu usuń napęd z konfiguracje maszyny wirtualnej, i uruchom maszynę.

Konfigurowanie pfSense przy pierwszym butowaniu.

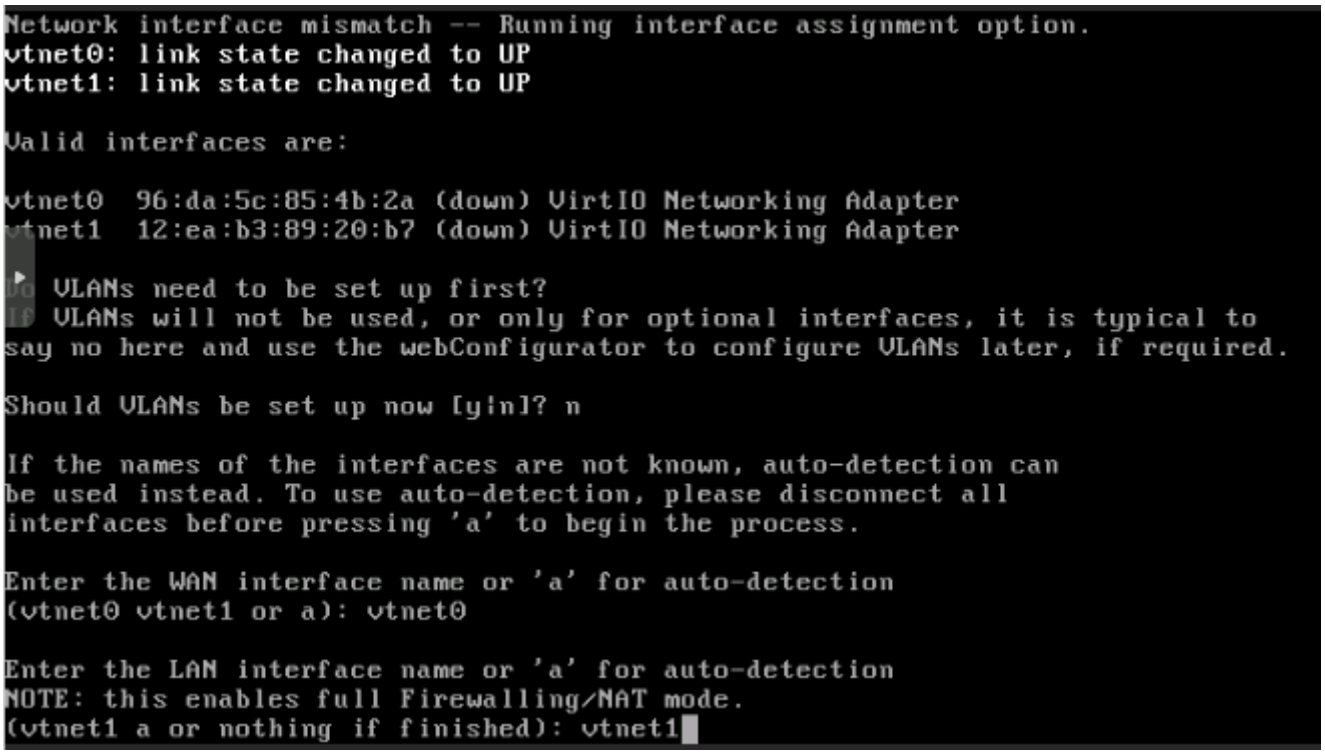
Nie używamy VLANów.

```
  AMD Features=0x20100800<SYSCALL,NX,LM>
  AMD Features2=0x1<LAHF>
Hypervisor: Origin = "KVMKVMKVM"
Done.
..... done.
Initializing..... done.
Starting device manager (devd)...done.
Loading configuration......done.
Updating configuration.............done.
Warning: Configuration references interfaces that do not exist: em0 em1

Network interface mismatch -- Running interface assignment option.
vtnet0: link state changed to UP
vtnet1: link state changed to UP

Valid interfaces are:

vtnet0  96:da:5c:85:4b:2a (down) VirtIO Networking Adapter
vtnet1  12:ea:b3:89:20:b7 (down) VirtIO Networking Adapter

Do VLANs need to be set up first?
If VLANs will not be used, or only for optional interfaces, it is typical to
say no here and use the webConfigurator to configure VLANs later, if required.

Should VLANs be set up now [y|n]? n
```

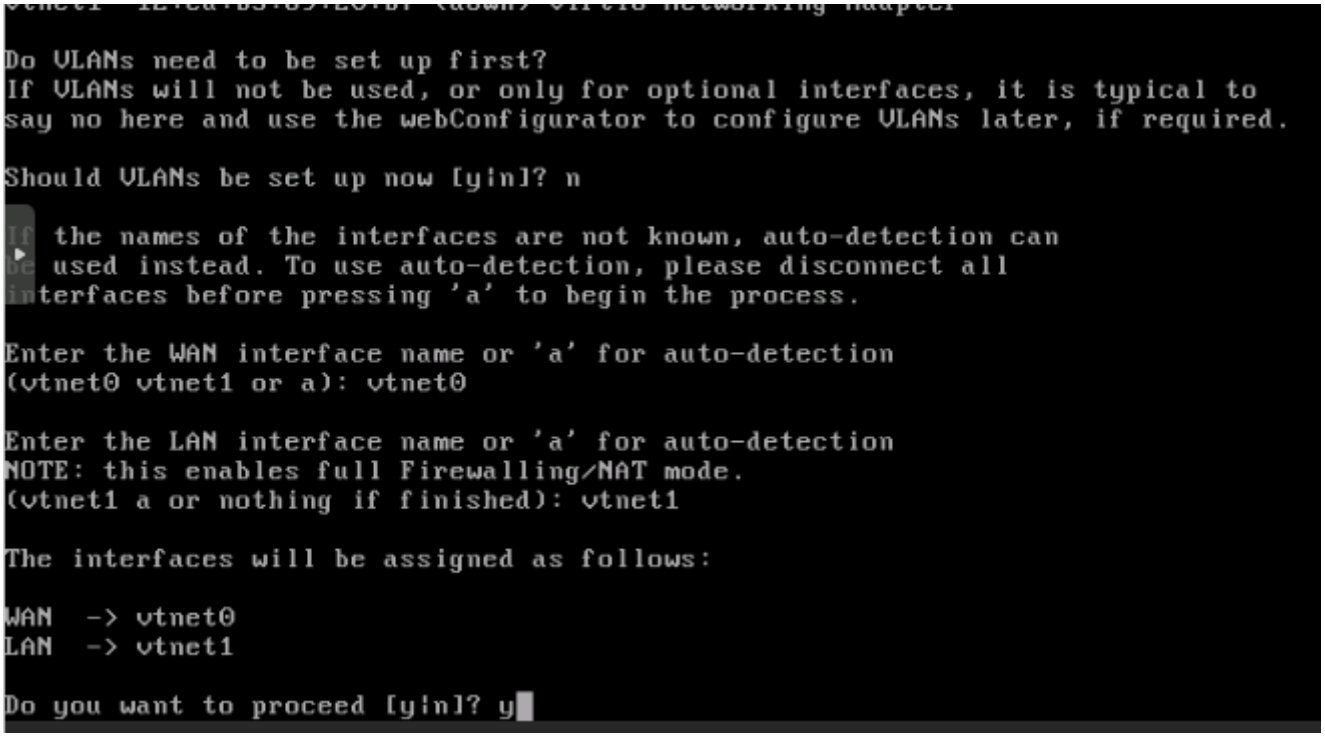
Wprowadzamy interfejs WAN (sieć publiczna)

```
Loading configuration......done.
Updating configuration.............done.
Warning: Configuration references interfaces that do not exist: em0 em1

Network interface mismatch -- Running interface assignment option.
vtnet0: link state changed to UP
vtnet1: link state changed to UP

Valid interfaces are:

vtnet0  96:da:5c:85:4b:2a (down) VirtIO Networking Adapter
vtnet1  12:ea:b3:89:20:b7 (down) VirtIO Networking Adapter

Do VLANs need to be set up first?
If VLANs will not be used, or only for optional interfaces, it is typical to
say no here and use the webConfigurator to configure VLANs later, if required.

Should VLANs be set up now [y|n]? n

If the names of the interfaces are not known, auto-detection can
be used instead. To use auto-detection, please disconnect all
interfaces before pressing 'a' to begin the process.

Enter the WAN interface name or 'a' for auto-detection
(vtnet0 vtnet1 or a): vtnet0
```

Wprowadzamy interfejs LAN (sieć prywanta)



Potwierdzam.



Konfigurowanie statycznego adresu na interfejsie WAN.

Parametry sieci publicznej dostaniesz u usługodawcy.

```
Starting syslog...done.
Starting CRON... done.
pfSense 2.4.5-RELEASE (Patch 1) amd64 Tue Jun 02 17:51:17 EDT 2020
Bootup complete

FreeBSD/amd64 (pfSense.localdomain) (ttyv0)

pfSense - Netgate Device ID: 43dea805af9247dedd34

*** Welcome to pfSense 2.4.5-RELEASE-p1 (amd64) on pfSense ***

 WAN (wan)       -> vtnet0     ->
 LAN (lan)       -> vtnet1     -> 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: 2
```

```
pfSense - Netgate Device ID: 43dea805af9247dedd34

*** Welcome to pfSense 2.4.5-RELEASE-p1 (amd64) on pfSense ***

 WAN (wan)       -> vtnet0     ->
 LAN (lan)       -> vtnet1     -> v4: 192.168.1.1/24

 0) Logout (SSH only)                  9) pfTop
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 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: 2

Available interfaces:

1 - WAN (vtnet0 - dhcp, dhcp6)
2 - LAN (vtnet1 - static)

Enter the number of the interface you wish to configure: 1
```

```
*** Welcome to pfSense 2.4.5-RELEASE-p1 (amd64) on pfSense ***

 WAN (wan)       -> vtnet0     ->
 LAN (lan)       -> vtnet1     -> 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: 2

Available interfaces:

1 - WAN (vtnet0 - dhcp, dhcp6)
2 - LAN (vtnet1 - static)

Enter the number of the interface you wish to configure: 1

Configure IPv4 address WAN interface via DHCP? (y/n) n
```

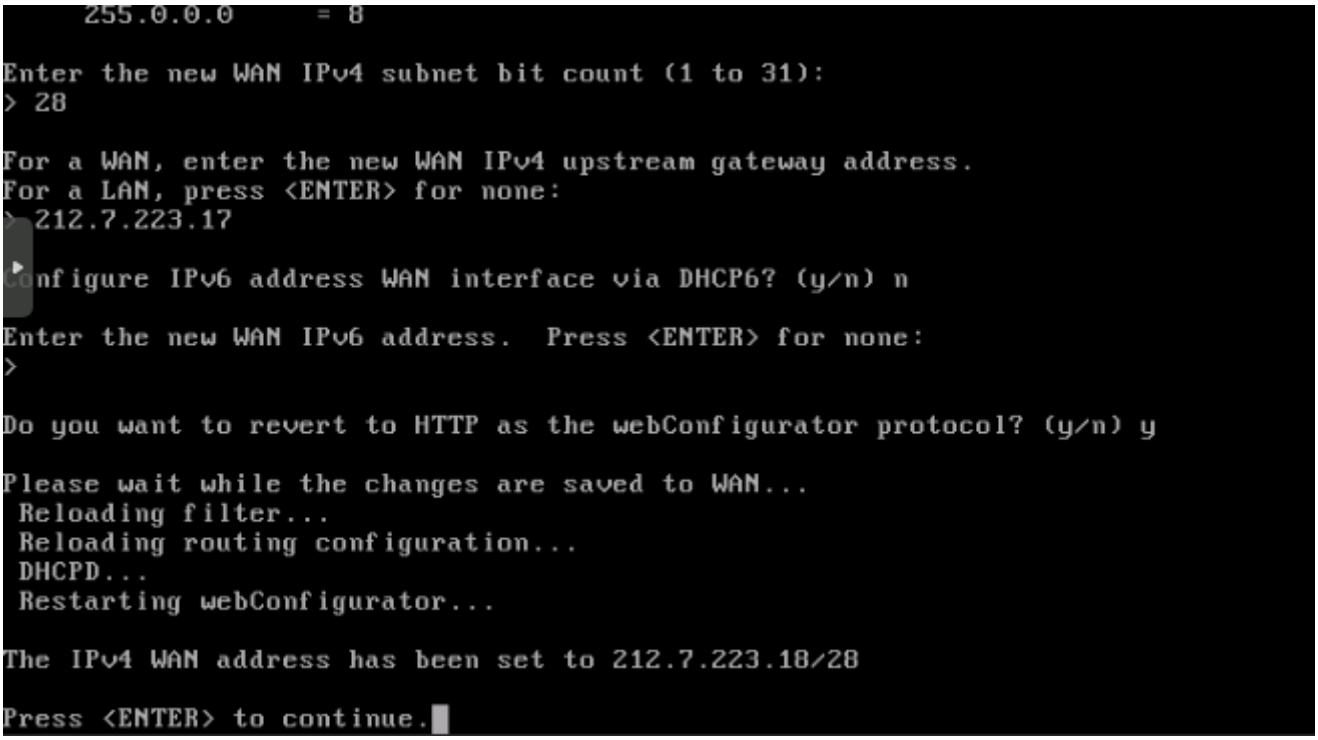
```
 LAN (lan)       -> vtnet1     -> v4: 192.168.1.1/24

 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: 2

Available interfaces:

1 - WAN (vtnet0 - dhcp, dhcp6)
2 - LAN (vtnet1 - static)

Enter the number of the interface you wish to configure: 1

Configure IPv4 address WAN interface via DHCP? (y/n) n

Enter the new WAN IPv4 address.  Press <ENTER> for none:
> 212.7.223.18
```

```
 6) Halt system                          15) Restore recent configuration
 7) Ping host                            16) Restart PHP-FPM
 8) Shell

Enter an option: 2

Available interfaces:

1 - WAN (vtnet0 - dhcp, dhcp6)
2 - LAN (vtnet1 - static)

Enter the number of the interface you wish to configure: 1

Configure IPv4 address WAN interface via DHCP? (y/n) n

Enter the new WAN IPv4 address.  Press <ENTER> for none:
> 212.7.223.18

Subnet masks are entered as bit counts (as in CIDR notation) in pfSense.
e.g. 255.255.255.0 = 24
     255.255.0.0   = 16
     255.0.0.0     = 8

Enter the new WAN IPv4 subnet bit count (1 to 31):
> 28
```

```
Enter an option: 2

Available interfaces:

1 - WAN (vtnet0 - dhcp, dhcp6)
2 - LAN (vtnet1 - static)

Enter the number of the interface you wish to configure: 1

Configure IPv4 address WAN interface via DHCP? (y/n) n

Enter the new WAN IPv4 address.  Press <ENTER> for none:
> 212.7.223.18

Subnet masks are entered as bit counts (as in CIDR notation) in pfSense.
e.g. 255.255.255.0 = 24
     255.255.0.0   = 16
     255.0.0.0     = 8

Enter the new WAN IPv4 subnet bit count (1 to 31):
> 28

For a WAN, enter the new WAN IPv4 upstream gateway address.
For a LAN, press <ENTER> for none:
> 212.7.223.17
```

```
Available interfaces:

1 - WAN (vtnet0 - dhcp, dhcp6)
2 - LAN (vtnet1 - static)

Enter the number of the interface you wish to configure: 1

Configure IPv4 address WAN interface via DHCP? (y/n) n

Enter the new WAN IPv4 address.  Press <ENTER> for none:
> 212.7.223.18

Subnet masks are entered as bit counts (as in CIDR notation) in pfSense.
e.g. 255.255.255.0 = 24
     255.255.0.0   = 16
     255.0.0.0     = 8

Enter the new WAN IPv4 subnet bit count (1 to 31):
> 28

For a WAN, enter the new WAN IPv4 upstream gateway address.
For a LAN, press <ENTER> for none:
> 212.7.223.17

Configure IPv6 address WAN interface via DHCP6? (y/n) n
```

```
Enter the number of the interface you wish to configure: 1

Configure IPv4 address WAN interface via DHCP? (y/n) n

Enter the new WAN IPv4 address.  Press <ENTER> for none:
> 212.7.223.18

Subnet masks are entered as bit counts (as in CIDR notation) in pfSense.
e.g. 255.255.255.0 = 24
     255.255.0.0   = 16
     255.0.0.0     = 8

Enter the new WAN IPv4 subnet bit count (1 to 31):
> 28

For a WAN, enter the new WAN IPv4 upstream gateway address.
For a LAN, press <ENTER> for none:
> 212.7.223.17

Configure IPv6 address WAN interface via DHCP6? (y/n) n

Enter the new WAN IPv6 address.  Press <ENTER> for none:
>

Do you want to revert to HTTP as the webConfigurator protocol? (y/n) y
```

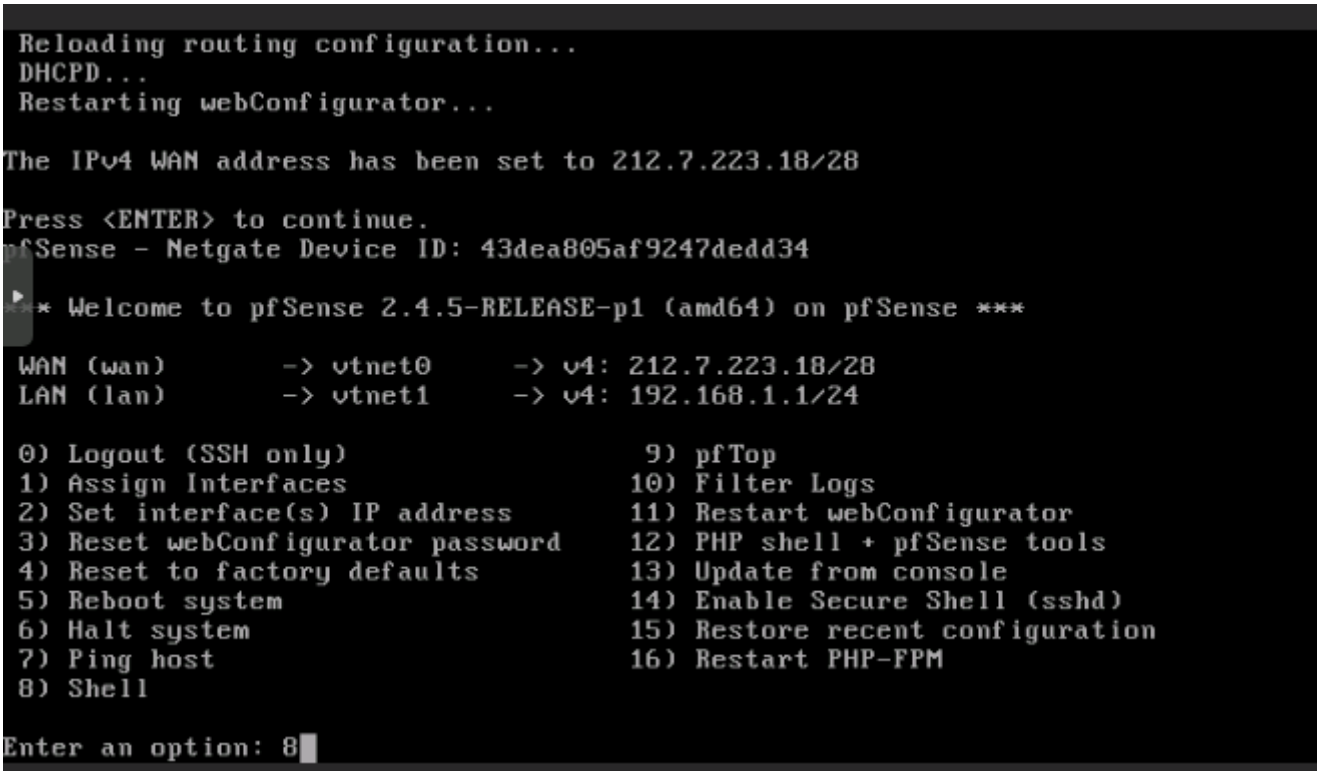


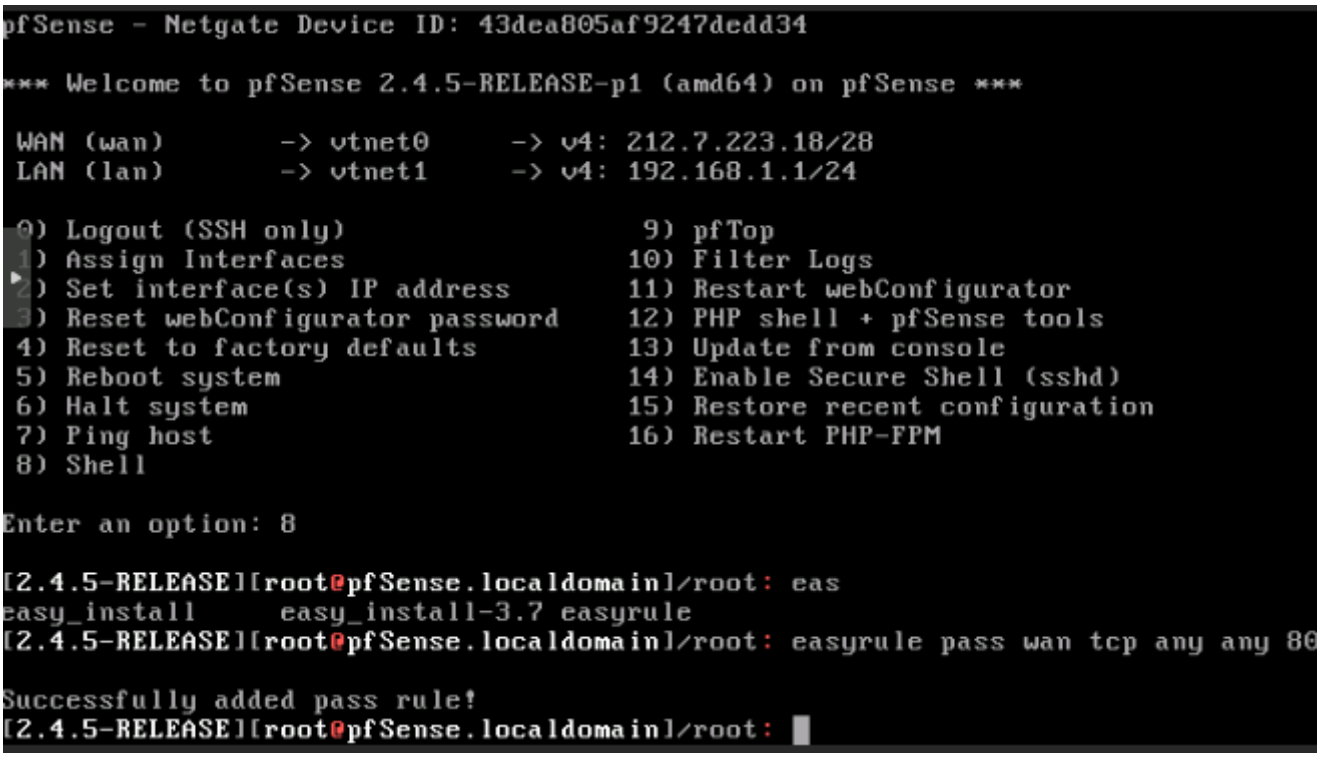
UWAGA:

pfSense blokuje dostęp do WEB interfejsu na porcie WAN.

Dla odblokowaniu dostępu trzeba dodać regułę w zaporę.

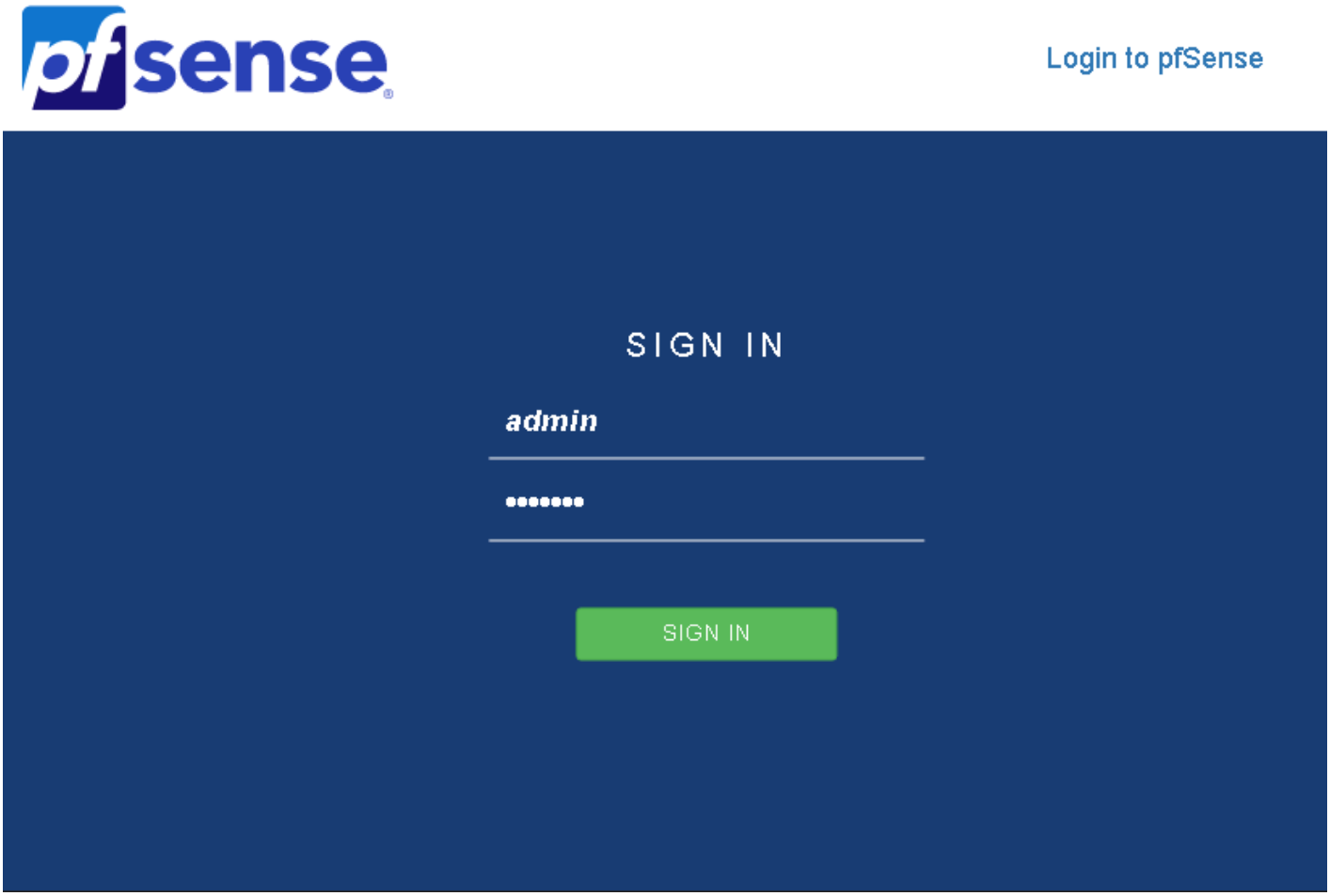
easyrule pass wan tcp any any 80

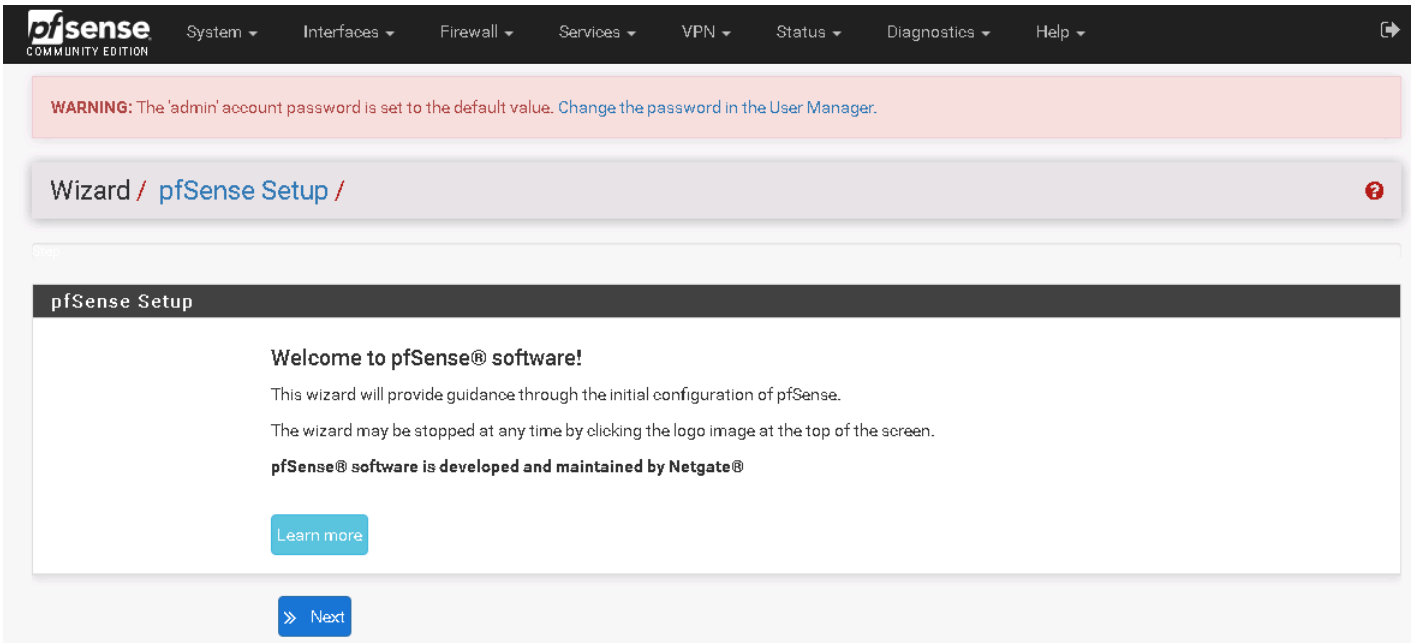




Możesz zalogować się na router za pomocą przeglądarki internetowej.

Domyślne parametry logowania
Username: *admin*
Password: *pfsense*





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Created 27 January 2022 15:20:18 by Dmytro Kravchenko
Updated 27 January 2022 15:24:04 by Dmytro Kravchenko