

Documentation d'installation de PFSENSE



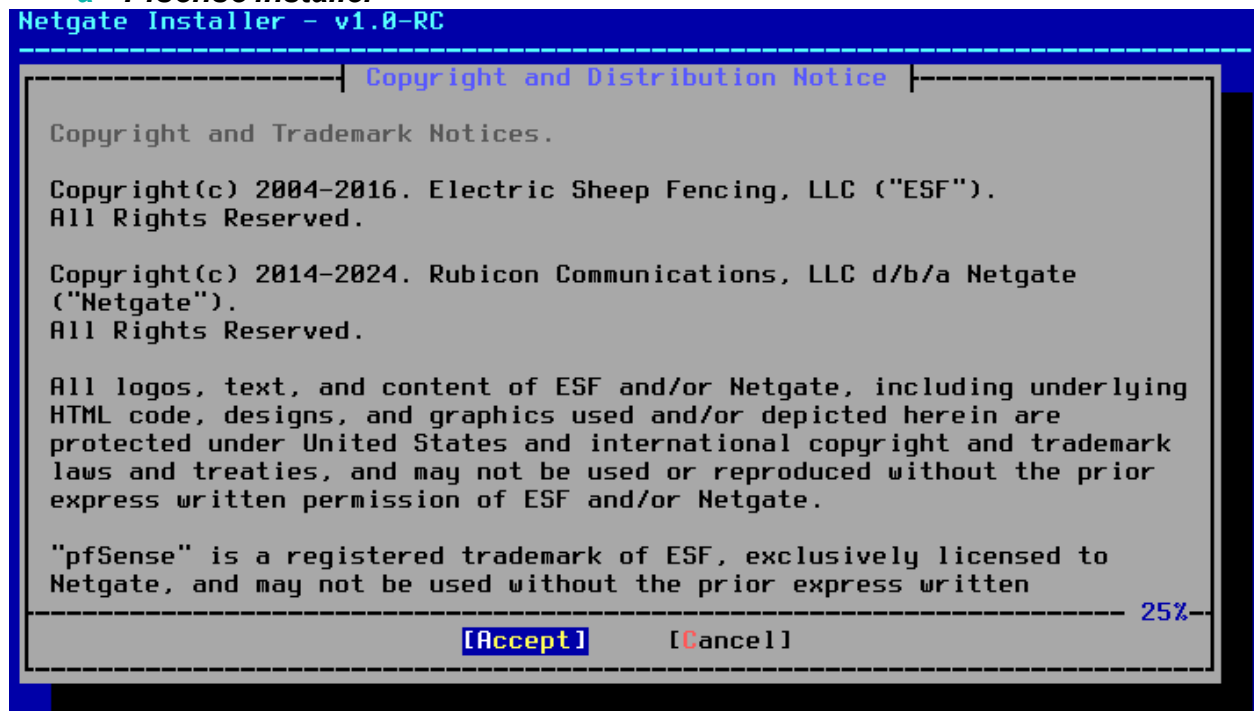
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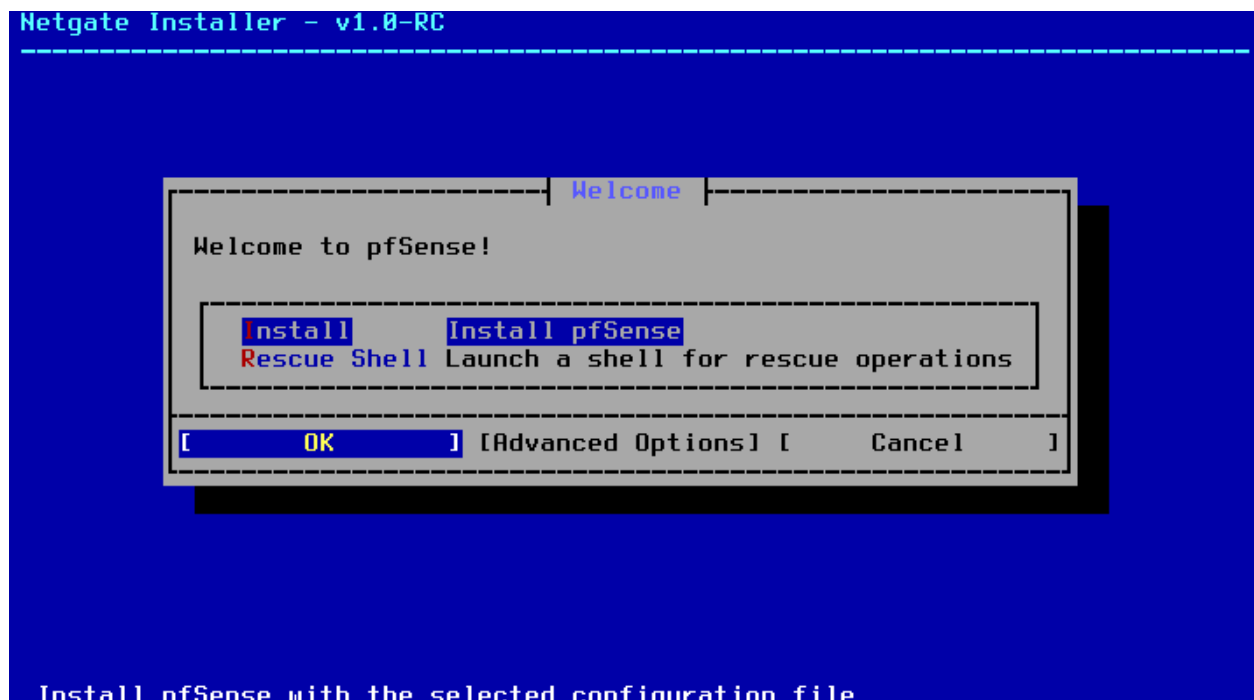
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Installation Pfsense

a- Pfsense installer



Sur l'écran de démarrage de l'installateur pfSense, il suffit d'appuyer sur Entrée pour accepter les conditions et poursuivre l'installation



WAN Interface Assignment and Configuration

Please select the WAN interface.

vtnet0	vtnet0 bc:24:11:85:c6:66 (active)
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[OK] [Cancel]

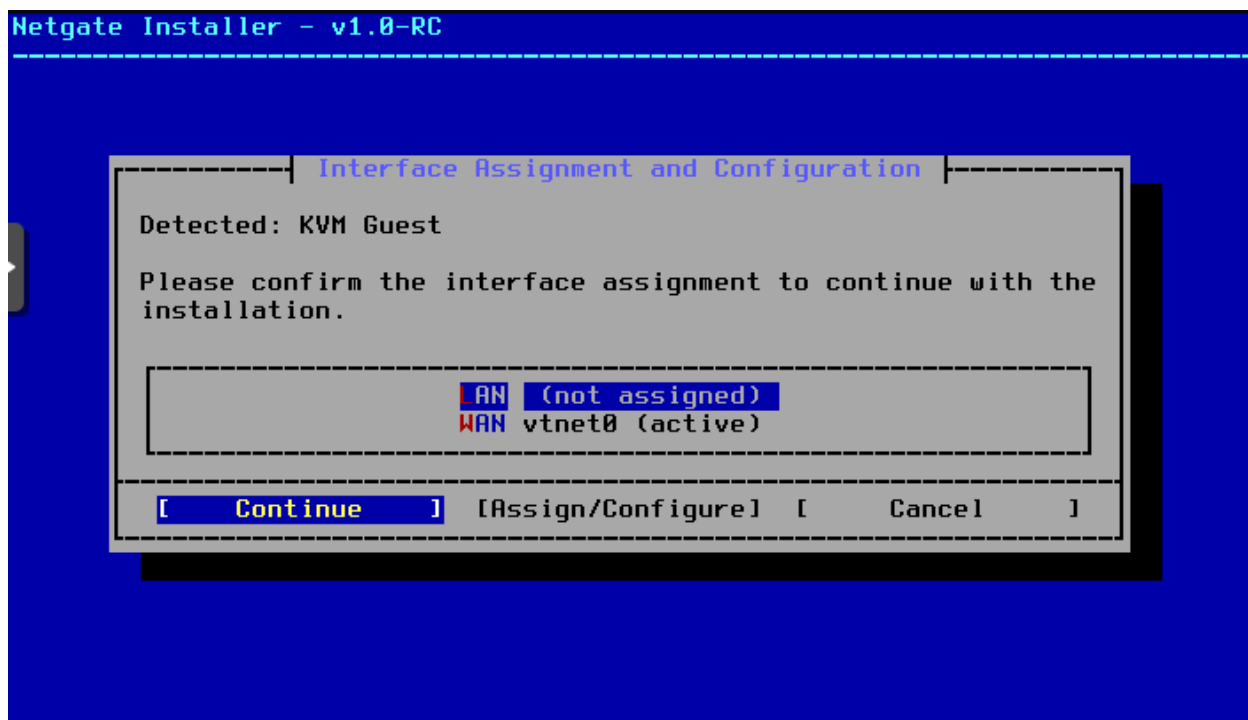
WAN (vtnet0) Network Mode Setup

Adjust the network operation mode for the WAN (vtnet0) interface if necessary.

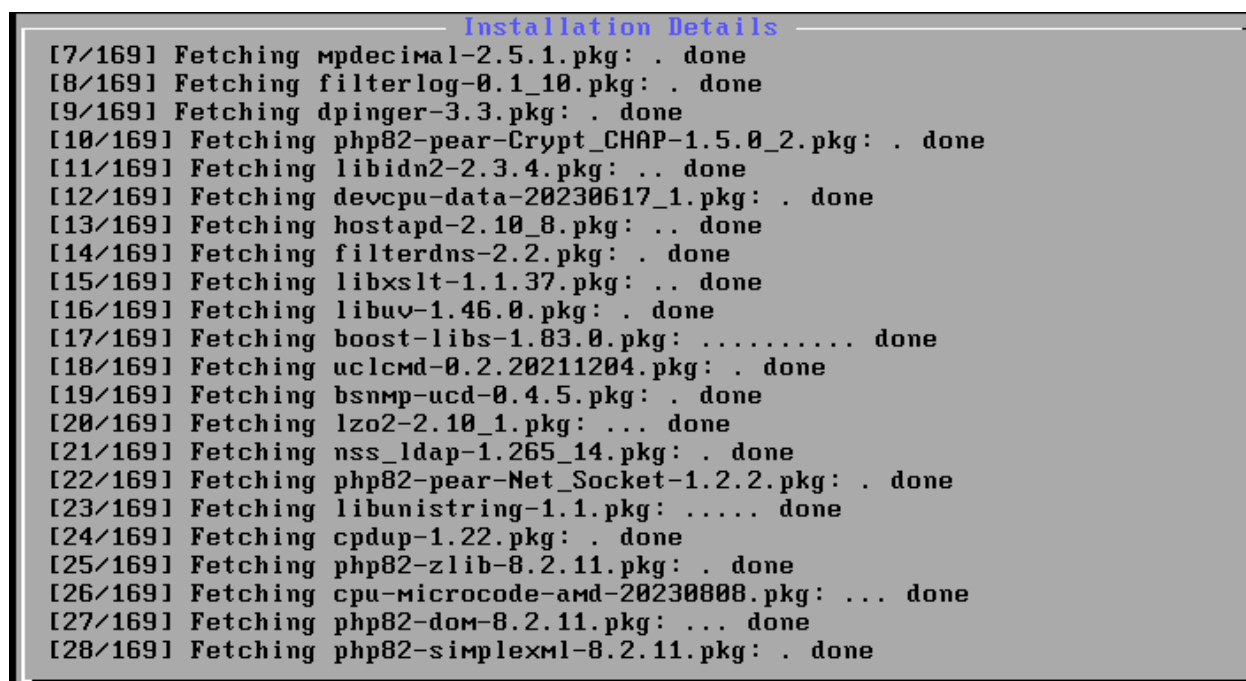
>>> Continue	Proceed with the installation
M Interface Mode	DHCP (client)
V VLAN Settings	VLAN Tagging disabled
U Use local resolver	false

[OK] [Cancel]

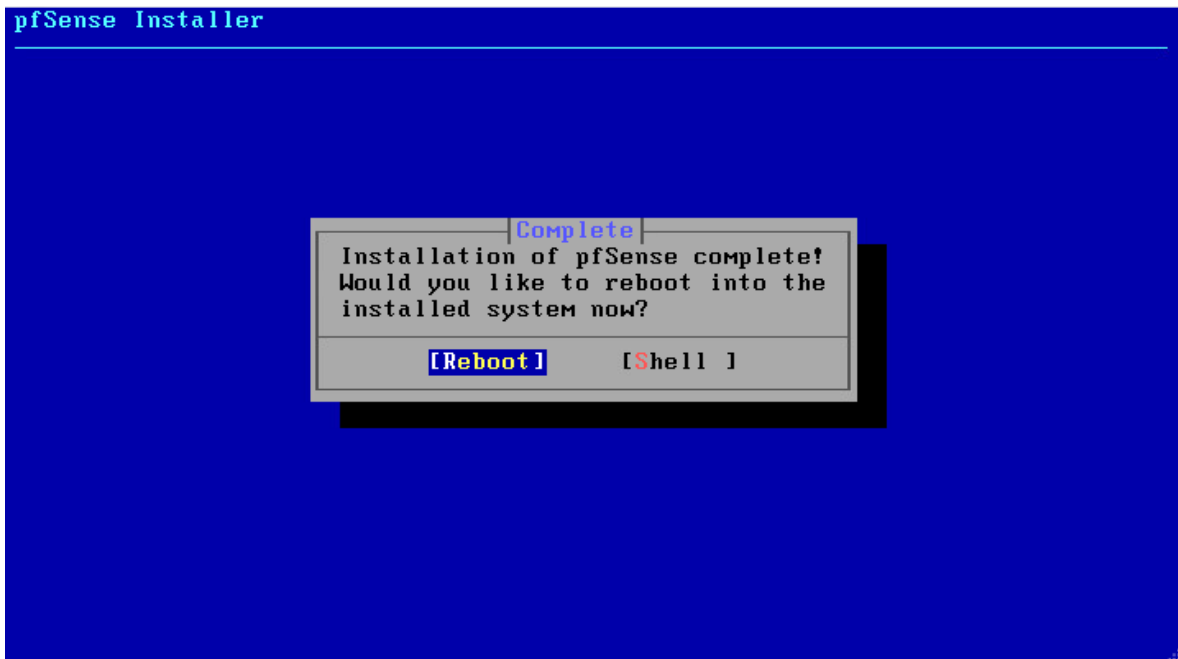
Continue with the displayed settings



Sur chacune des quatre étapes affichées, il suffit d'appuyer sur la touche Entrée pour poursuivre l'installation de pfSense



L'installation sur le disque s'effectue, notre Pfsense sera bientôt installé sur la machine virtuelle.



Il ne reste plus qu'à redémarrer la machine en appuyant sur Entrée. Celle-ci démarrera alors sur pfSense fraîchement installé.

```

FreeBSD/amd64 (pfSense.home.arpa) (ttyv0)
QEMU Guest - Netgate Device ID: c56828466b10153a0ceb

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

WAN (wan)      -> vtnet0      -> v4: 192.168.30.94/24
VLAN30 (lan)   -> vtnet3      -> v4: 10.30.0.1/16
VLAN10 (opt1)  -> vtnet1      -> v4: 10.10.0.1/16
VLAN20 (opt2)  -> vtnet2      -> v4: 10.20.0.1/16
VLAN50 (opt3)  -> vtnet4      -> v4: 10.50.0.1/16
VLAN99 (opt4)  -> vtnet5      -> v4: 10.99.0.1/16

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: █

```

Interface console de pfSense

Une fois pfSense démarré, un menu d'administration en ligne de commande s'affiche.

Ce menu permet de réaliser différentes actions de configuration de base, utiles notamment en cas de problème d'accès à l'interface web.

Voici les options principales :

- ***1) Assign Interfaces : Modifier les interfaces WAN et LAN***
- ***2) Set interface(s) IP address : Configurer une adresse IP manuellement***
- ***3) Reset webConfigurator password : Réinitialiser le mot de passe admin***
- ***5) Reboot system : Redémarrer pfSense***
- ***8) Shell : Accéder au terminal FreeBSD en ligne de commande***

Ce menu peut être consulté directement depuis la VM (Proxmox) ou physiquement si pfSense est installé sur une machine dédiée.

-VLAN 10 Serveurs principaux

-VLAN 20 Supervision et IT interne

-VLAN 30 Postes clients

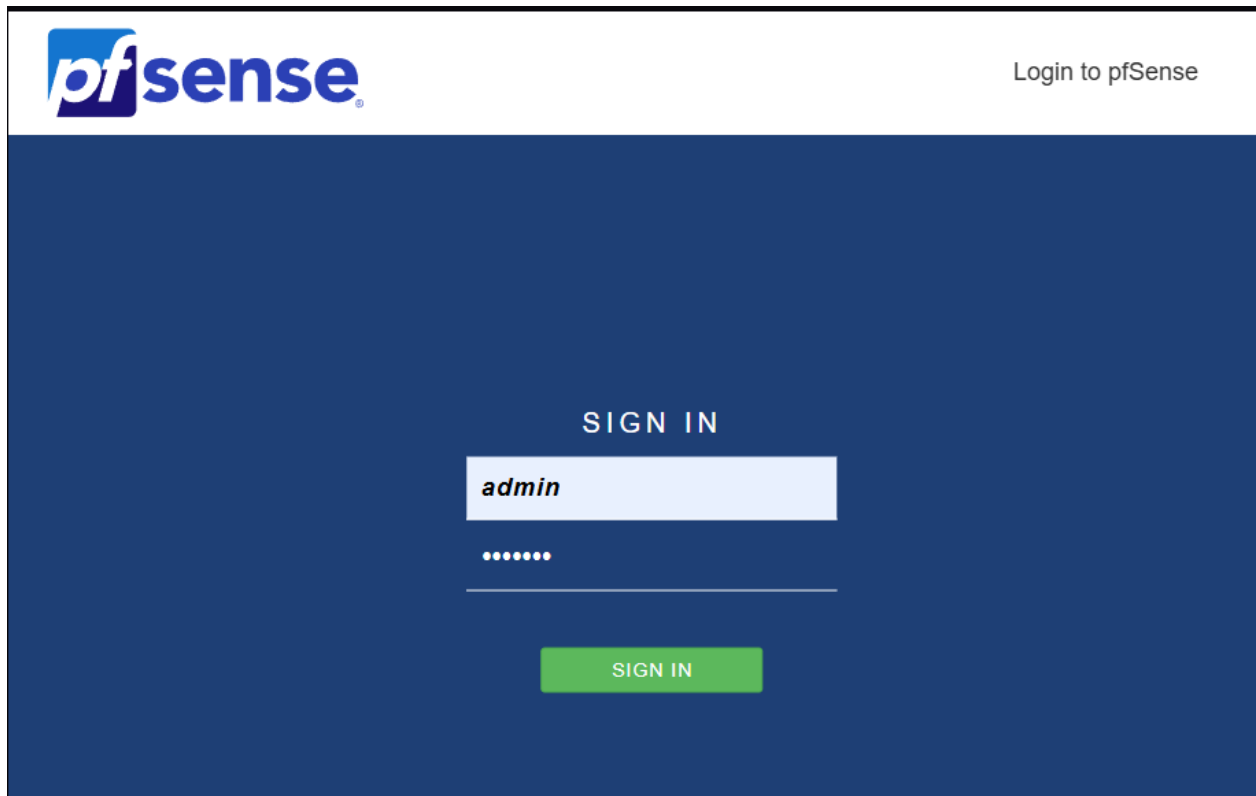
-VLAN 50 VPN

-VLAN 99 Serveurs et Backup

II. Configuration de pfSense

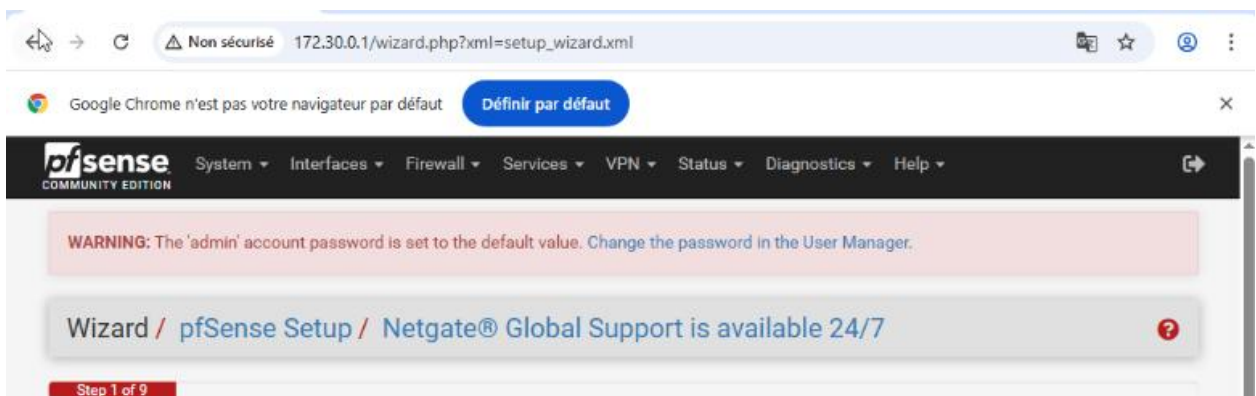
Configuration web

a- Connexion à l'interface web :



Pour cela, nous nous connectons à l'interface web de pfSense via l'adresse <https://172.30.0.1>, en utilisant l'identifiant admin et le mot de passe Pfsense.

b- Changement mot de passe :



Une fois connecté, nous accédons à la section "User Manager" afin de modifier le mot de passe administrateur via l'option "Change the password".

System / User Manager / Users / Edit

Users Groups Settings Authentication Servers

User Properties

Defined by	SYSTEM	
Disabled	<input type="checkbox"/> This user cannot login	
Username	admin	
Password	*****	*****
Full name	System Administrator <small>User's full name, for administrative information only</small>	
Expiration date	<input type="text"/> <small>Leave blank if the account shouldn't expire, otherwise enter the expiration date as MM/DD/YYYY</small>	
Custom Settings	<input type="checkbox"/> Use individual customized GUI options and dashboard layout for this user.	
Group membership	<div>Not member of</div> <div>Member of: admins</div>	
<div> Move to "Member of" list Move to "Not member of" list </div> <div><small>Hold down CTRL (PC)/COMMAND (Mac) key to select multiple items.</small></div>		

Nous remplaçons ensuite le mot de passe administrateur par un mot de passe sécurisé, puis nous validons la modification en cliquant sur le bouton "Save" en bas de la page.

pfSense COMMUNITY EDITION

System Interfaces Firewall Services VPN Status Diagnostics Help

Interfaces / OPT5

The OPT5 configuration has been changed. The changes must be applied. Don't forget to adjust the DHCP settings after applying.

Apply Changes

General Configuration

Enable ☐

Description: OPT5
Enter a description (name) for the interface here.

IPv4 Configuration Type: Static IPv4

IPv6 Configuration Type: None

MAC Address: xx:xx:xx:xx:xx:xx
This field can be used to modify ("spoof") the MAC address of this interface. Enter a MAC address in the following format: xx:xx:xx:xx:xx:xx or leave blank.

MTU:

interfaces / VLAN10 (vtnet1)

General Configuration

Enable

☒ Enable interface

Description

VLAN10

Enter a description (name) for the interface here.

IPv4 Configuration Type

Static IPv4

IPv6 Configuration Type

None

MAC Address

xx:xx:xx:xx:xx:xx

This field can be used to modify ("spoof") the MAC address of this interface.
Enter a MAC address in the following format: xx:xx:xx:xx:xx:xx or leave blank.

MTU

If this field is blank, the adapter's default MTU will be used. This is typically 1500 bytes but can vary in some circumstances.

Static IPv4 Configuration

IPv4 Address

10.10.0.1

/ 16

IPv4 Upstream gateway

None

+ Add a new gateway

If this interface is an Internet connection, select an existing Gateway from the list or add a new one using the "Add" button.
On local area network interfaces the upstream gateway should be "none".
Selecting an upstream gateway causes the firewall to treat this interface as a [WAN type interface](#).
Gateways can be managed by [clicking here](#).

```

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8) Shell

Enter an option:

```