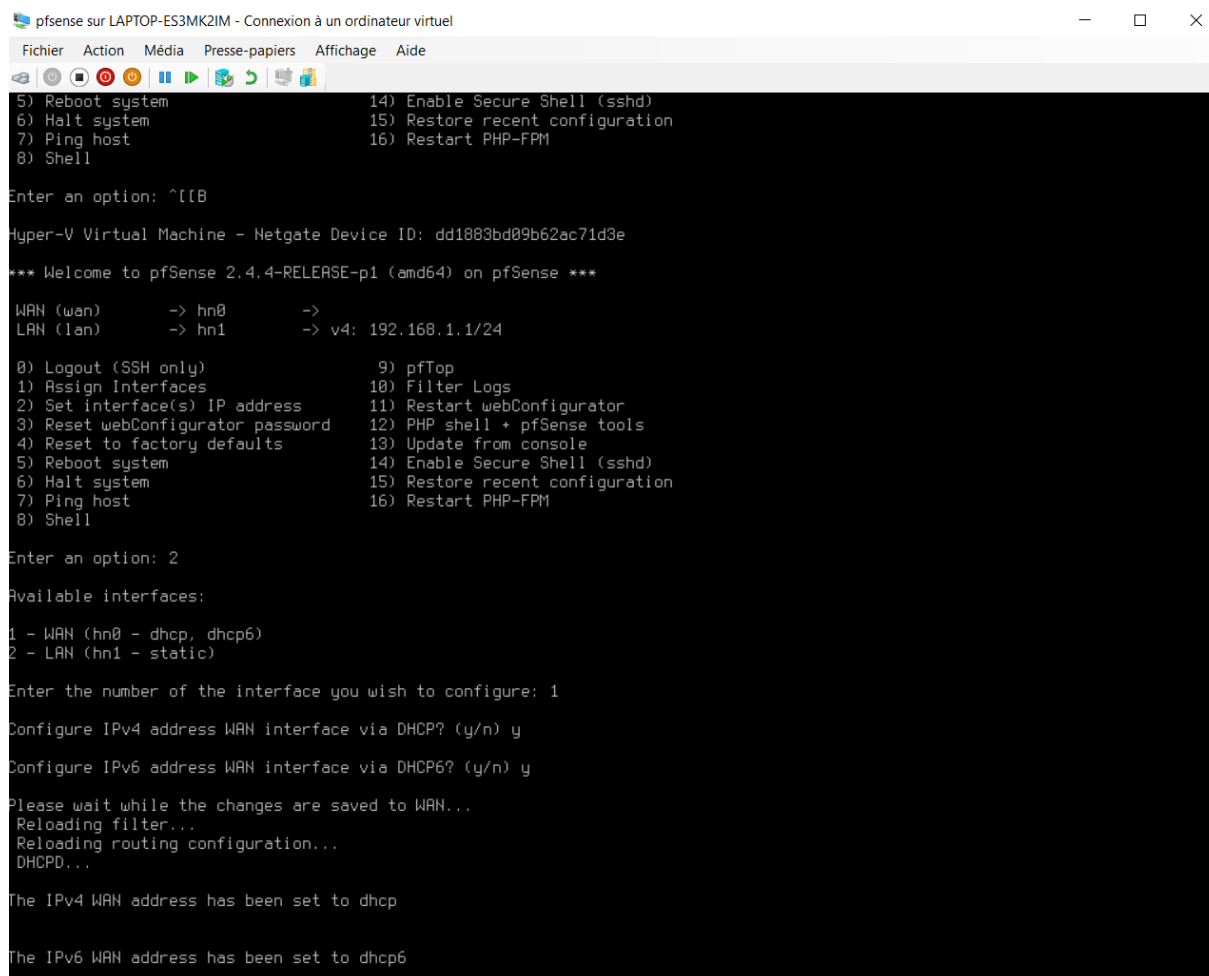
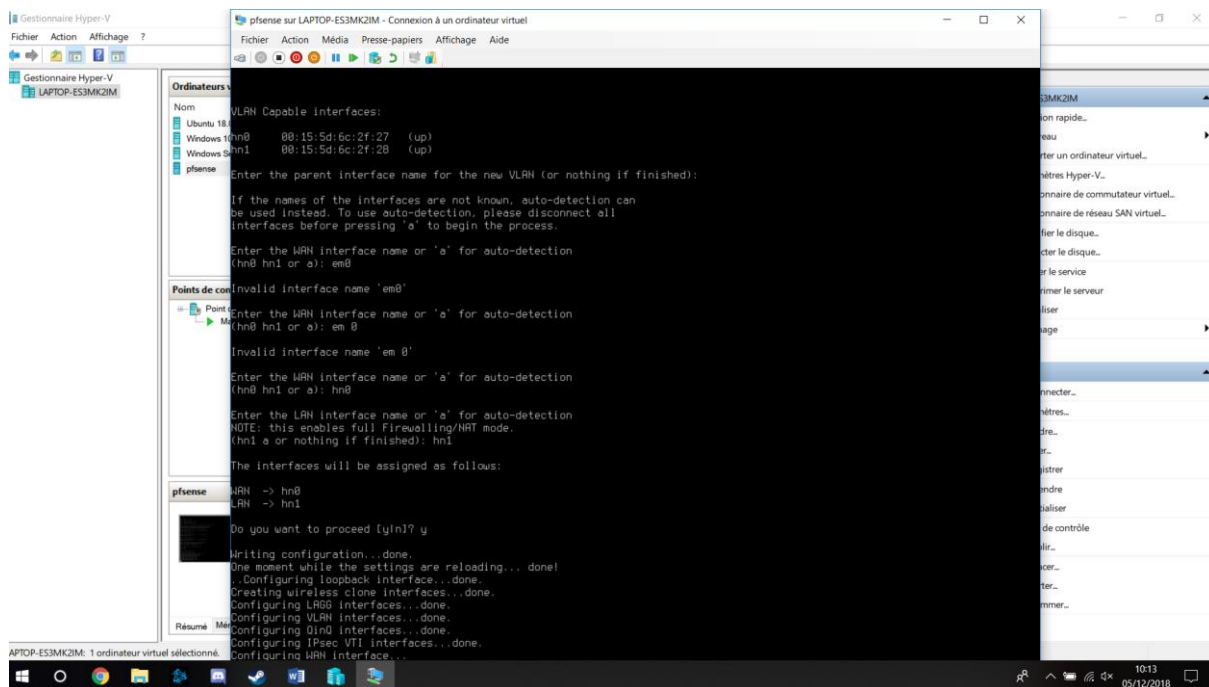


## Virtualiser et installer PFSENSE



La Wan est connecté au DHCP

```
pfSense sur LAPTOP-ES3MK2IM - Connexion à un ordinateur virtuel
Fichier Action Média Presse-papiers Affichage Aide

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 LAN IPv4 subnet bit count (1 to 31):
> 24

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

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

Do you want to enable the DHCP server on LAN? (y/n) y
Enter the start address of the IPv4 client address range: 192.168.1.20
Enter the end address of the IPv4 client address range: 192.168.1.30

Please wait while the changes are saved to LAN...
Reloading filter...
Reloading routing configuration...
DHCPD...

The IPv4 LAN address has been set to 192.168.1.254/24
You can now access the webConfigurator by opening the following URL in your web browser:
    http://192.168.1.254/

Press <ENTER> to continue.
Hyper-V Virtual Machine - Netgate Device ID: dd1883bd09b62ac71d3e

*** Welcome to pfSense 2.4.4-RELEASE-p1 (amd64) on pfSense ***

WAN (wan)      -> hn0      -> v4/DHCP4: 172.18.80.147/28
LAN (lan)      -> hn1      -> v4: 192.168.1.254/24

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
```

## Windows 10

```
Edge
Invite de commandes
Microsoft Windows [version 10.0.17763.107]
(c) 2018 Microsoft Corporation. Tous droits réservés.

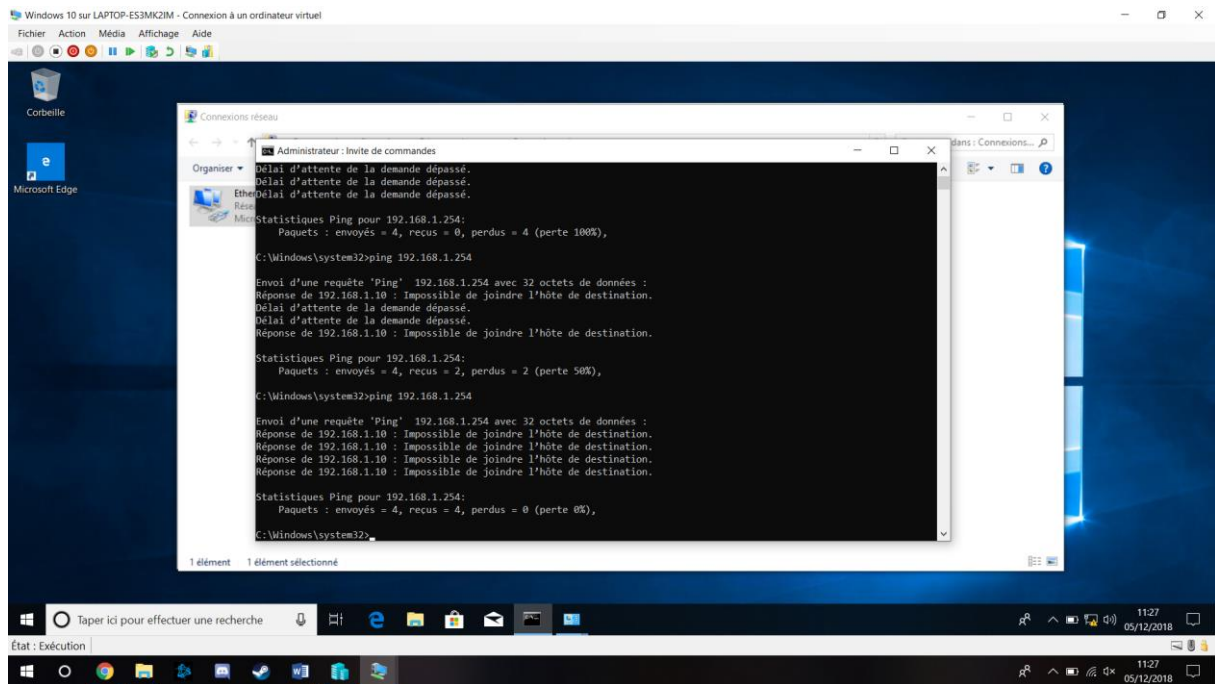
C:\Users\JDEBLAECKER>ipconfig

Configuration IP de Windows

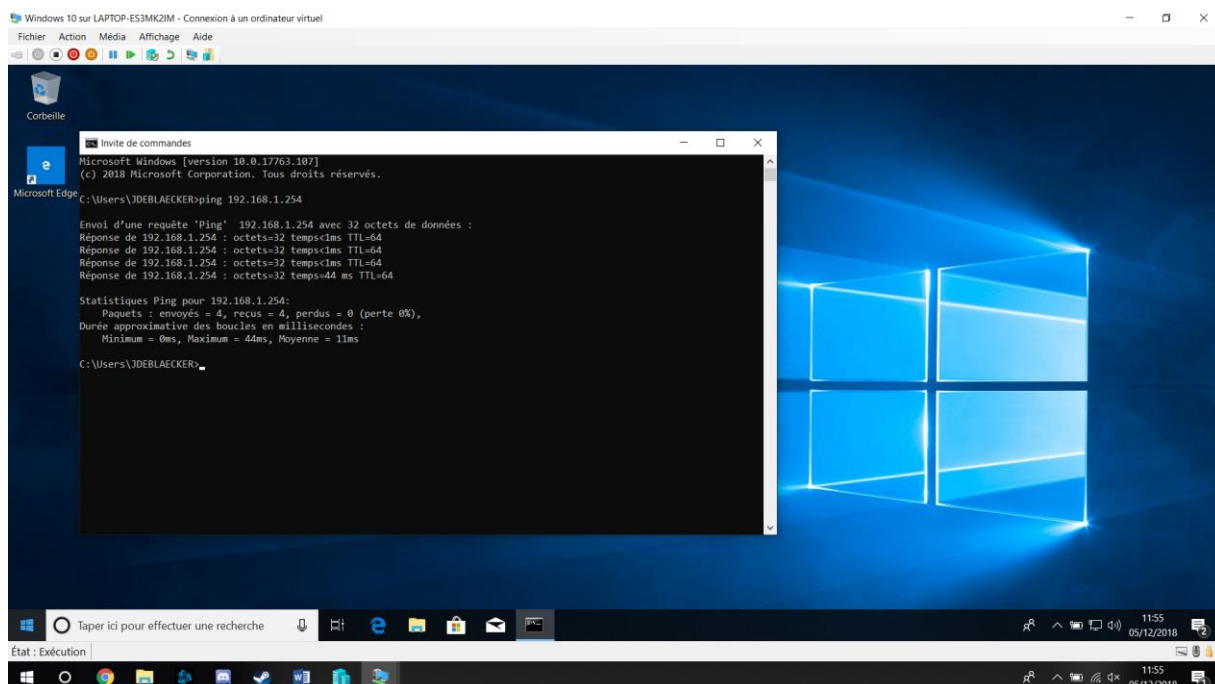
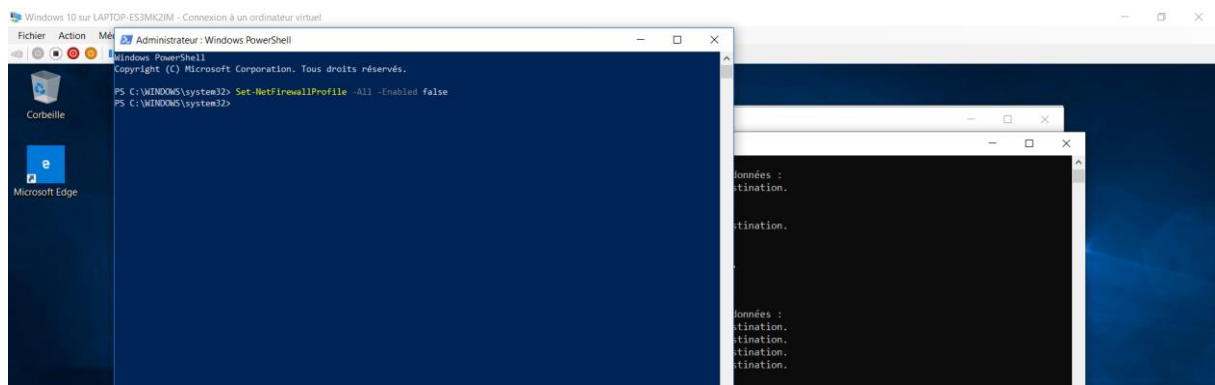
Carte Ethernet Ethernet :

    Suffixe DNS propre à la connexion. . . . :
    Adresse IPv6 de liaison locale. . . . . : fe80::79f3:97e0:4037:1964%4
    Adresse IPv4. . . . . : 192.168.1.10
    Masque de sous-réseau. . . . . : 255.255.255.0
    Passerelle par défaut. . . . . : 192.168.1.254

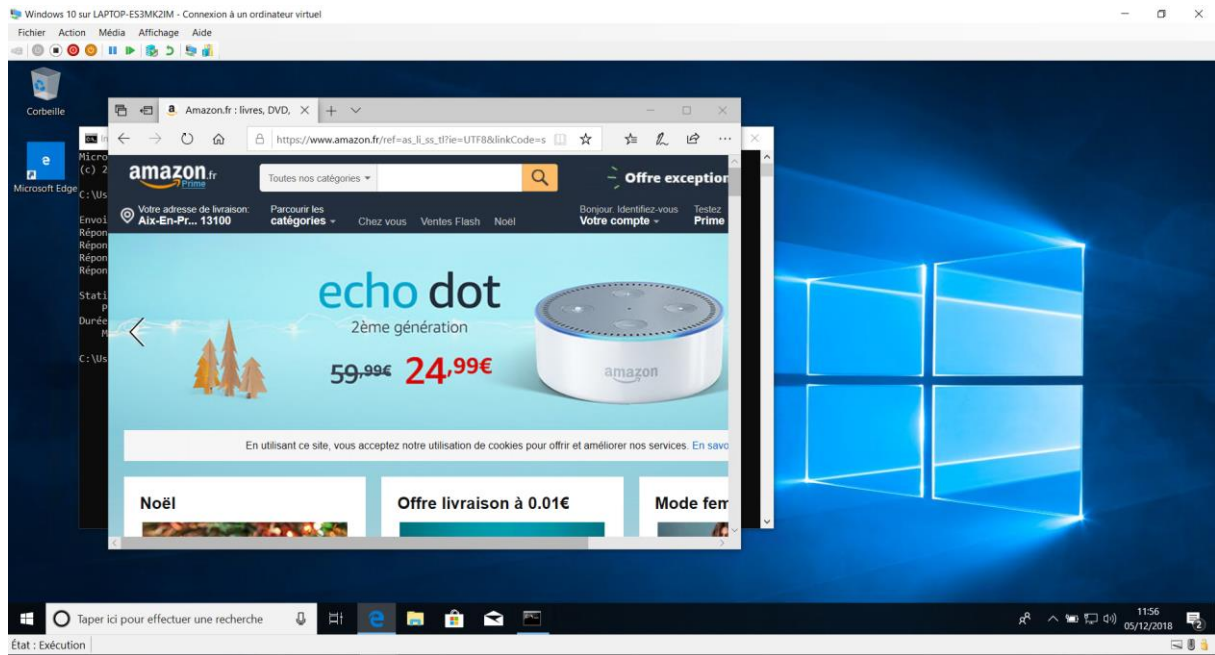
C:\Users\JDEBLAECKER>
```



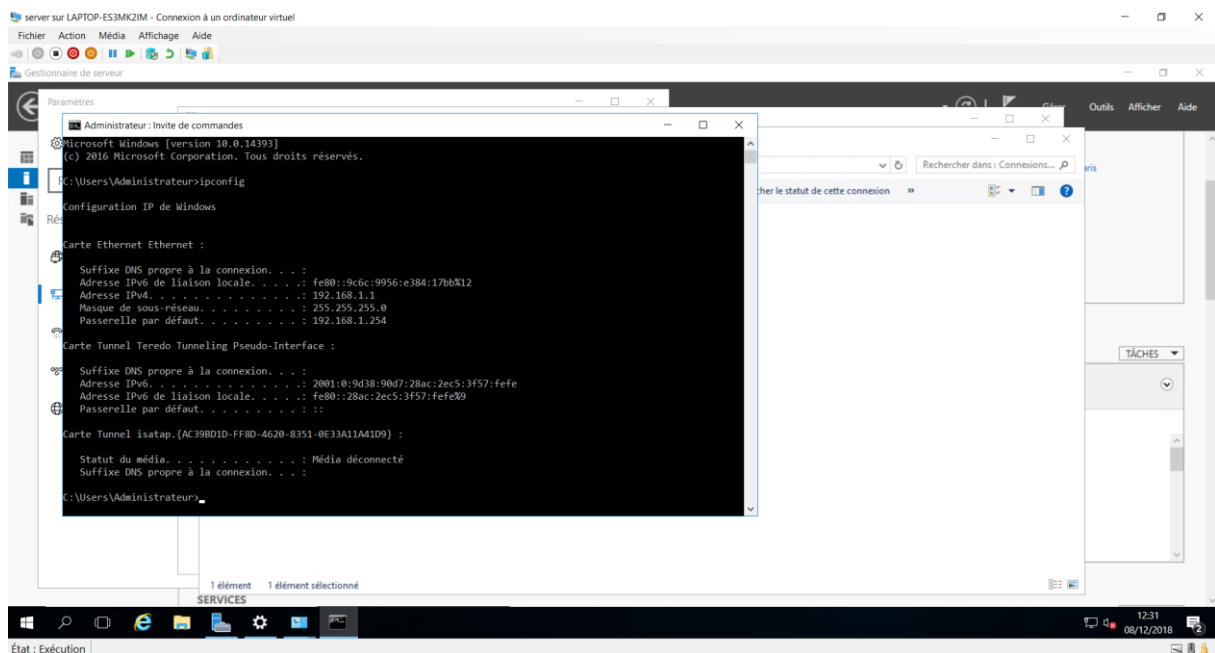
J'ai désactivé les pare-feux et j'ai établi un ping avec pfsense



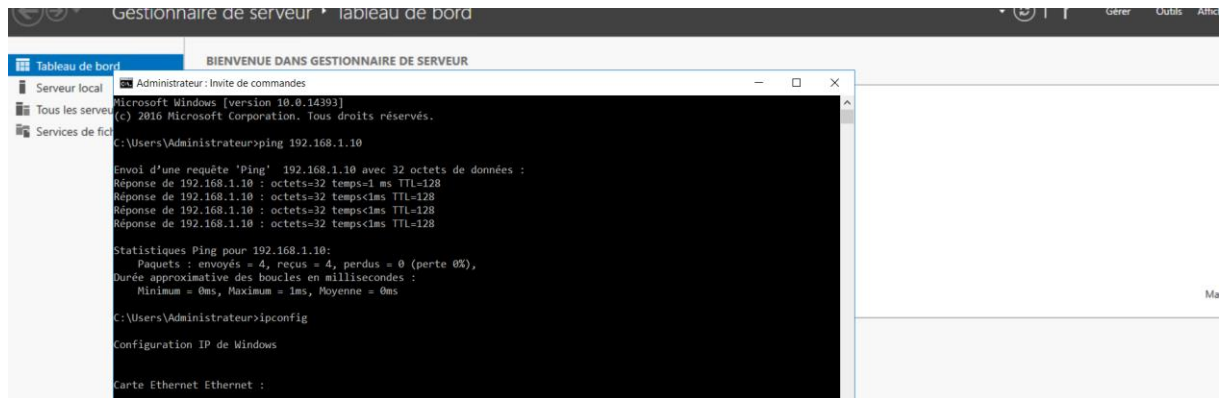
La connexion est établie sur Windows 10 :



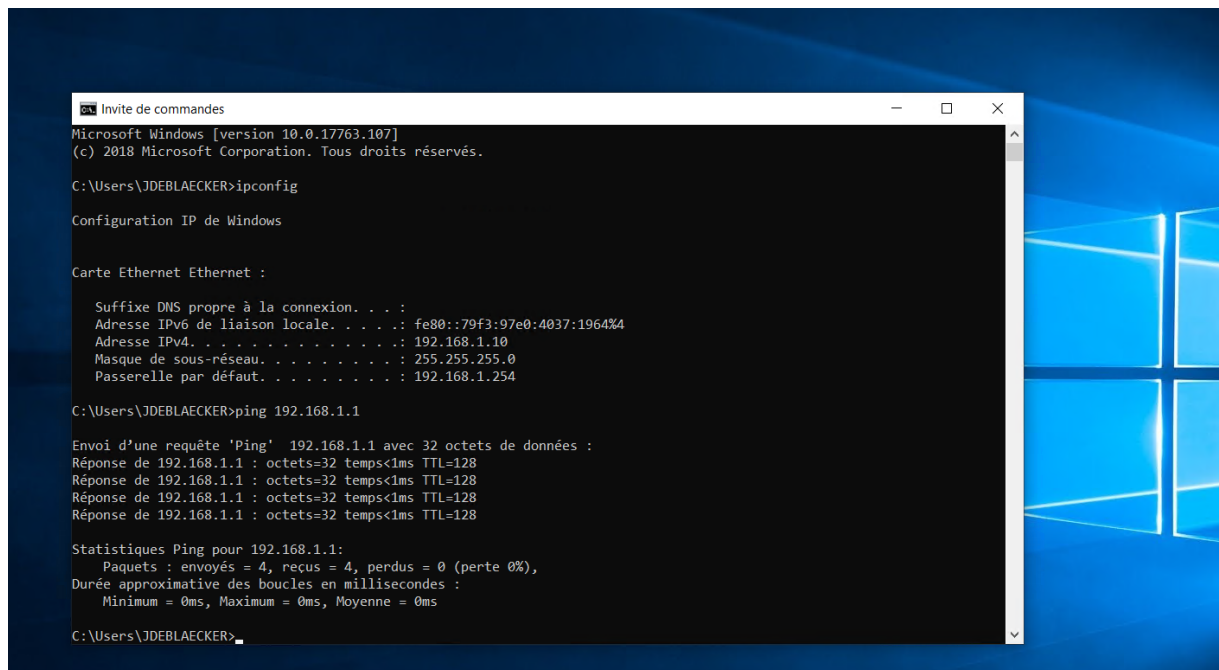
## Windows Server



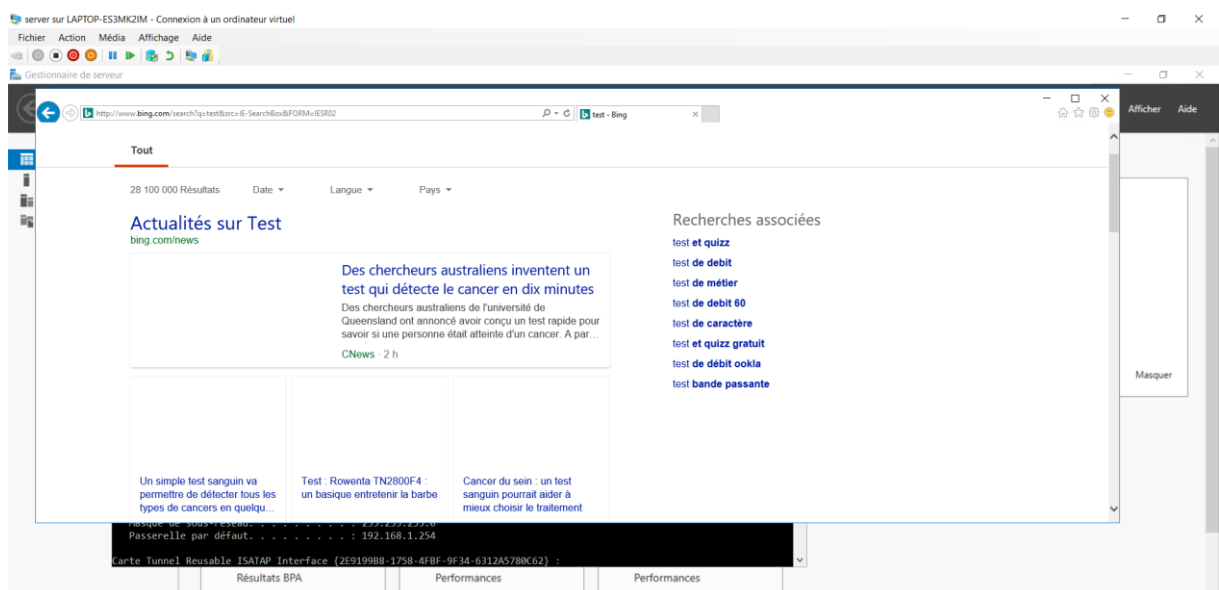
J'ai établi un ping depuis Windows server 2016 jusqu'à Windows 10



Et réciproquement



Une connexion internet est établie sur Windows Server 2016



```
pfsense sur LAPTOP-ES3MK2IM - Connexion à un ordinateur virtuel
Fichier Action Média Presse-papiers Affichage Aide
Synchronizing user settings...done.
Starting webConfigurator...done.
Configuring CRON...done.
Starting NTP time client...done.
Starting DHCP service...done.
Starting DHCPv6 service...done.
Configuring firewall.....done.
Generating RRD graphs...done.
Starting syslog...done.
Starting CRON... done.
pfSense 2.4.4-RELEASE (Patch 1) amd64 Mon Nov 26 11:40:26 EST 2018
Bootup complete

FreeBSD/amd64 (pfSense.localdomain) (ttyv0)

Hyper-V Virtual Machine - Netgate Device ID: dd1883bd09b62ac71d3e

*** Welcome to pfSense 2.4.4-RELEASE-p1 (amd64) on pfSense ***

WAN (wan)      -> hn0      -> v4/DHCP4: 172.18.80.147/28
LAN (lan)      -> hn1      -> v4: 192.168.1.254/24

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: 7

Enter a host name or IP address: 192.168.1.1

PING 192.168.1.1 (192.168.1.1): 56 data bytes
64 bytes from 192.168.1.1: icmp_seq=0 ttl=128 time=15.358 ms
64 bytes from 192.168.1.1: icmp_seq=1 ttl=128 time=1.042 ms
64 bytes from 192.168.1.1: icmp_seq=2 ttl=128 time=4.717 ms

--- 192.168.1.1 ping statistics ---
3 packets transmitted, 3 packets received, 0.0% packet loss
round-trip min/avg/max/stddev = 1.042/7.039/15.358/6.071 ms

Press ENTER to continue.
```

```
Enter a host name or IP address: 192.168.1.1

PING 192.168.1.1 (192.168.1.1): 56 data bytes
64 bytes from 192.168.1.1: icmp_seq=0 ttl=128 time=15.358 ms
64 bytes from 192.168.1.1: icmp_seq=1 ttl=128 time=1.042 ms
64 bytes from 192.168.1.1: icmp_seq=2 ttl=128 time=4.717 ms

--- 192.168.1.1 ping statistics ---
3 packets transmitted, 3 packets received, 0.0% packet loss
round-trip min/avg/max/stddev = 1.042/7.039/15.358/6.071 ms

Press ENTER to continue.

Hyper-V Virtual Machine - Netgate Device ID: dd1883bd09b62ac71d3e

*** Welcome to pfSense 2.4.4-RELEASE-p1 (amd64) on pfSense ***

WAN (wan)      -> hn0      -> v4/DHCP4: 172.18.80.147/28
LAN (lan)      -> hn1      -> v4: 192.168.1.254/24

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1) Assign Interfaces          10) Filter Logs
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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: 7

Enter a host name or IP address: 192.168.1.10

PING 192.168.1.10 (192.168.1.10): 56 data bytes
64 bytes from 192.168.1.10: icmp_seq=0 ttl=128 time=8.985 ms
64 bytes from 192.168.1.10: icmp_seq=1 ttl=128 time=1.186 ms
64 bytes from 192.168.1.10: icmp_seq=2 ttl=128 time=0.791 ms

--- 192.168.1.10 ping statistics ---
3 packets transmitted, 3 packets received, 0.0% packet loss
round-trip min/avg/max/stddev = 0.791/3.654/8.985/3.773 ms

Press ENTER to continue.
```