

Etudiant : [REDACTED]

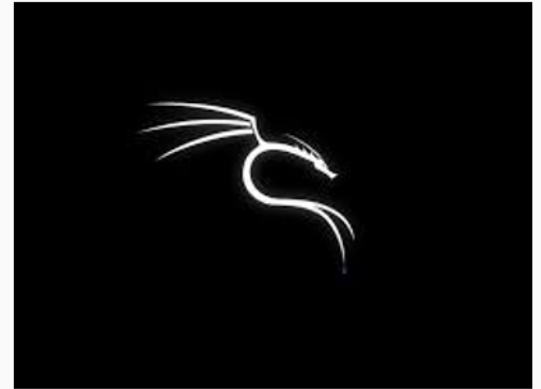
Enseignant : [REDACTED]

# Démonstration - Port scan

Sur une machine virtuelle Kali Linux contenant :

- Un serveur **vsftpd** au port 50000 (FTP)
- Un serveur web **Apache2** au port 80 HTTP (FTP)
- **SSH** au port 22 (FTP)
- **Tftp** au port 69 (UDP)

*Il est possible de vérifier que ces services fonctionnent avec netstat.*



Logo de kali linux

```
(kali㉿kali)-[~]
└─$ nmap localhost
Starting Nmap 7.93 ( https://nmap.org ) at 2023-05-04 09:55 EDT
Nmap scan report for localhost (127.0.0.1)
Host is up (0.00048s latency).
Other addresses for localhost (not scanned): ::1
Not shown: 997 closed tcp ports (conn-refused)
PORT      STATE SERVICE
22/tcp    open  ssh
80/tcp    open  http
50000/tcp  open  ibm-db2

Nmap done: 1 IP address (1 host up) scanned in 0.25 seconds
```

```
(kali㉿kali)-[~]
└─$ nmap -A localhost
Starting Nmap 7.93 ( https://nmap.org ) at 2023-05-03 16:51 EDT
Nmap scan report for localhost (127.0.0.1)
Host is up (0.00028s latency).
Other addresses for localhost (not scanned): ::1
Not shown: 997 closed tcp ports (conn-refused)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 9.2p1 Debian 2 (protocol 2.0)
|_ ssh-hostkey:
|_  256 b112098403172b61e696b327782fef93 (ECDSA)
|_  256 1ccac5b42b97802caf1dd2b5e63243b7 (ED25519)
80/tcp    open  http     Apache httpd 2.4.57 ((Debian))
|_ http-server-header: Apache/2.4.57 (Debian)
|_ http-title: Apache2 Debian Default Page: It works
50000/tcp open  ftp      vsftpd 2.0.8 or later
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 87.50 seconds

(kali㉿kali)-[~]
└─$
```

```
(kali㉿kali)-[~]  
└─$ nmap -sn 10.0.2.15/24  
Starting Nmap 7.93 ( https://nmap.org ) at 2023-05-04 04:28 EDT  
Nmap scan report for 10.0.2.2  
Host is up (0.0011s latency).  
Nmap scan report for 10.0.2.3  
Host is up (0.0010s latency).  
Nmap scan report for 10.0.2.4  
Host is up (0.0016s latency).  
Nmap scan report for 10.0.2.15  
Host is up (0.00052s latency).  
Nmap done: 256 IP addresses (4 hosts up) scanned in 3.63 seconds
```

```
(kali㉿kali)-[~]
└─$ sudo nmap --script vuln localhost
Starting Nmap 7.93 ( https://nmap.org ) at 2023-05-03 17:02 EDT
Nmap scan report for localhost (127.0.0.1)
Host is up (0.000011s latency).
Other addresses for localhost (not scanned): ::1
Not shown: 997 closed tcp ports (reset)
PORT      STATE SERVICE
22/tcp    open  ssh
80/tcp    open  http
|_http-stored-xss: Couldn't find any stored XSS vulnerabilities.
| http-enum:
|_ /server-status/: Potentially interesting folder
|_http-dombased-xss: Couldn't find any DOM based XSS.
|_http-csrf: Couldn't find any CSRF vulnerabilities.
50000/tcp open  ibm-db2

Nmap done: 1 IP address (1 host up) scanned in 32.66 seconds
```

```
(kali@kali)-[~]
└─$ sudo nmap --traceroute -T4 -A -v localhost
Starting Nmap 7.93 ( https://nmap.org ) at 2023-05-04 04:30 EDT
NSE: Loaded 155 scripts for scanning.
NSE: Script Pre-scanning.
Initiating NSE at 04:30
Completed NSE at 04:30, 0.00s elapsed
Initiating NSE at 04:30
Completed NSE at 04:30, 0.00s elapsed
Initiating NSE at 04:30
Completed NSE at 04:30, 0.00s elapsed
Initiating SYN Stealth Scan at 04:30
Scanning localhost (127.0.0.1) [1000 ports]
Discovered open port 80/tcp on 127.0.0.1
Discovered open port 22/tcp on 127.0.0.1
Discovered open port 50000/tcp on 127.0.0.1
Completed SYN Stealth Scan at 04:30, 0.09s elapsed (1000 total ports)
Initiating Service scan at 04:30
Scanning 3 services on localhost (127.0.0.1)
Completed Service scan at 04:31, 56.14s elapsed (3 services on 1 host)
Initiating OS detection (try #1) against localhost (127.0.0.1)
NSE: Script scanning 127.0.0.1.
Initiating NSE at 04:31
Completed NSE at 04:32, 30.15s elapsed
Initiating NSE at 04:32
Completed NSE at 04:32, 0.07s elapsed
Initiating NSE at 04:32
Completed NSE at 04:32, 0.00s elapsed
Nmap scan report for localhost (127.0.0.1)
Host is up (0.00011s latency).
Other addresses for localhost (not scanned): ::1
Not shown: 997 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 9.2p1 Debian 2 (protocol 2.0)
| ssh-hostkey:
|_ 256 b112098403172b61e696b327782fef93 (ECDSA)
|_ 256 1ccac5b42b97802caf1dd2b5e63243b7 (ED25519)
```

Figure 1/2

```

Completed NSE at 04:32, 0.00s elapsed
Nmap scan report for localhost (127.0.0.1)
Host is up (0.00011s latency).
Other addresses for localhost (not scanned): ::1
Not shown: 997 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 9.2p1 Debian 2 (protocol 2.0)
| ssh-hostkey:
|_ 256 b112098403172b61e696b327782fef93 (ECDSA)
|_ 256 1ccac5b42b97802caf1dd2b5e63243b7 (ED25519)
80/tcp    open  http     Apache httpd 2.4.57 ((Debian))
|_ http-server-header: Apache/2.4.57 (Debian)
|_ http-methods:
|_ Supported Methods: GET POST OPTIONS HEAD
|_ http-title: Apache2 Debian Default Page: It works
50000/tcp open  ftp      vsftpd 2.0.8 or later
Device type: general purpose
Running: Linux 2.6.X
OS CPE: cpe:/o:linux:linux_kernel:2.6.32
OS details: Linux 2.6.32
Uptime guess: 22.868 days (since Tue Apr 11 07:41:52 2023)
Network Distance: 0 hops
TCP Sequence Prediction: Difficulty=262 (Good luck!)
IP ID Sequence Generation: All zeros
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

NSE: Script Post-scanning.
Initiating NSE at 04:32
Completed NSE at 04:32, 0.00s elapsed
Initiating NSE at 04:32
Completed NSE at 04:32, 0.00s elapsed
Initiating NSE at 04:32
Completed NSE at 04:32, 0.00s elapsed
Read data files from: /usr/bin/../../share/nmap
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 89.49 seconds
Raw packets sent: 1022 (45.778KB) | Rcvd: 2045 (87.112KB)

(kali@kali)-[~]
└─$

```

Figure 2/2

File Actions Edit View Help

```
(kali@kali)-[~]
└─$ sudo nmap -sU localhost
[sudo] password for kali:
Starting Nmap 7.93 ( https://nmap.org ) at 2023-05-04 04:32 EDT
Nmap scan report for localhost (127.0.0.1)
Host is up (0.000014s latency).
Other addresses for localhost (not scanned): ::1
Not shown: 999 closed udp ports (port-unreach)
PORT      STATE      SERVICE
69/udp    open|filtered tftp

Nmap done: 1 IP address (1 host up) scanned in 1.41 seconds
```



```
(kali㉿kali)-[~]  
└─$ nmap -p- -r localhost  
Starting Nmap 7.93 ( https://nmap.org ) at 2023-05-04 04:35 EDT  
Nmap scan report for localhost (127.0.0.1)  
Host is up (0.00018s latency).  
Other addresses for localhost (not scanned): ::1  
Not shown: 65531 closed tcp ports (conn-refused)  
PORT      STATE SERVICE  
22/tcp    open  ssh  
80/tcp    open  http  
35533/tcp open  unknown  
50000/tcp open  ibm-db2
```

```
(kali@kali)-[~]
└─$ nmap -p 22,80,443 localhost
Starting Nmap 7.93 ( https://nmap.org ) at 2023-05-04 04:38 EDT
Nmap scan report for localhost (127.0.0.1)
Host is up (0.00049s latency).
Other addresses for localhost (not scanned): ::1

PORT      STATE SERVICE
22/tcp    open  ssh
80/tcp    open  http
443/tcp   closed https

Nmap done: 1 IP address (1 host up) scanned in 0.11 seconds
```

```
(kali@kali)-[~]
└─$ nmap -p 1-100 localhost
Starting Nmap 7.93 ( https://nmap.org ) at 2023-05-04 04:40 EDT
Nmap scan report for localhost (127.0.0.1)
Host is up (0.00023s latency).
Other addresses for localhost (not scanned): ::1
Not shown: 98 closed tcp ports (conn-refused)
PORT      STATE SERVICE
22/tcp    open  ssh
80/tcp    open  http

Nmap done: 1 IP address (1 host up) scanned in 0.09 seconds
```

```
(kali@kali)-[~]
└─$ nmap -sT localhost
Starting Nmap 7.93 ( https://nmap.org ) at 2023-05-04 10:11 EDT
Nmap scan report for localhost (127.0.0.1)
Host is up (0.00029s latency).
Other addresses for localhost (not scanned): ::1
Not shown: 997 closed tcp ports (conn-refused)
PORT      STATE SERVICE
22/tcp    open  ssh
80/tcp    open  http
50000/tcp open  ibm-db2

Nmap done: 1 IP address (1 host up) scanned in 0.11 seconds
```

```
(kali㉿kali)-[~]
└─$ sudo nmap -sS -T4 -PN localhost
Starting Nmap 7.93 ( https://nmap.org ) at 2023-05-04 10:12 EDT
Nmap scan report for localhost (127.0.0.1)
Host is up (0.000011s latency).
Other addresses for localhost (not scanned): ::1
Not shown: 997 closed tcp ports (reset)
PORT      STATE SERVICE
22/tcp    open  ssh
80/tcp    open  http
50000/tcp open  ibm-db2

Nmap done: 1 IP address (1 host up) scanned in 0.18 seconds
```

```
(kali@kali)-[~]
└─$ sudo nmap -O localhost
[sudo] password for kali:
Starting Nmap 7.93 ( https://nmap.org ) at 2023-05-04 10:10 EDT
Nmap scan report for localhost (127.0.0.1)
Host is up (0.00043s latency).
Other addresses for localhost (not scanned): ::1
Not shown: 997 closed tcp ports (reset)
PORT      STATE SERVICE
22/tcp    open  ssh
80/tcp    open  http
50000/tcp open  ibm-db2
Device type: general purpose
Running: Linux 2.6.X
OS CPE: cpe:/o:linux:linux_kernel:2.6.32
OS details: Linux 2.6.32
Network Distance: 0 hops

OS detection performed. Please report any incorrect results at https://nmap.org/s
ubmit/ .
Nmap done: 1 IP address (1 host up) scanned in 2.03 seconds
```