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Laboratorio 6: Configuración de Firewall en un Entorno de Red

kali-linux-2025.1c-virtualbox-amd64   30/04/2025 6:41 a. m.   Archivo WinRAR   3.417.241 KB

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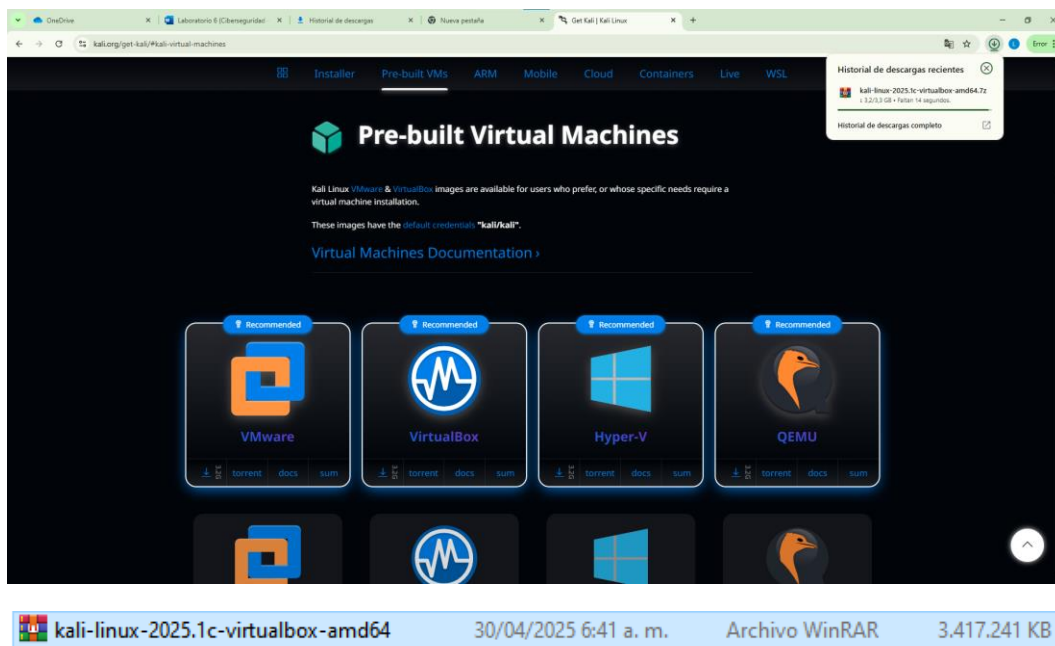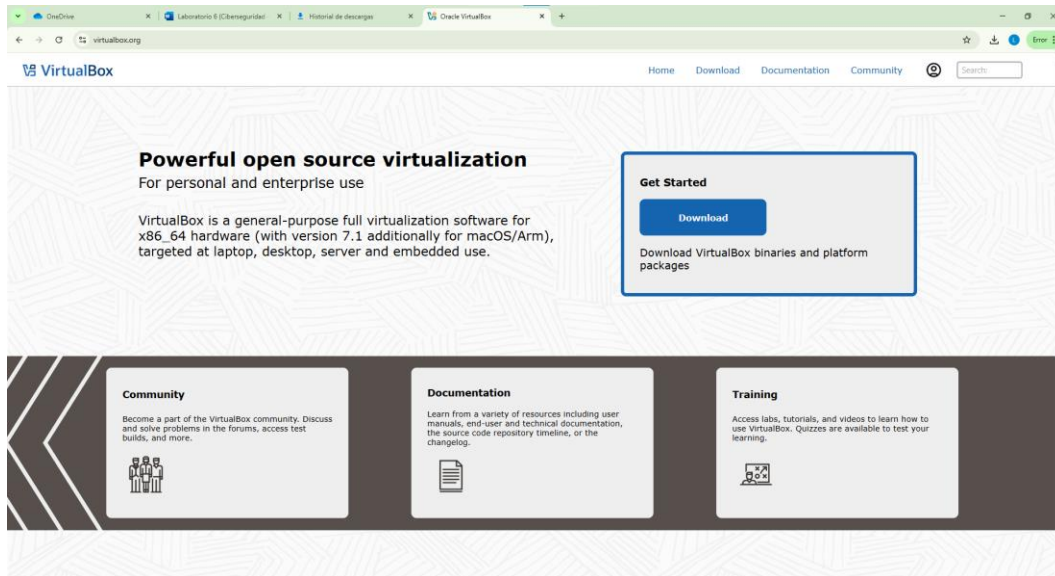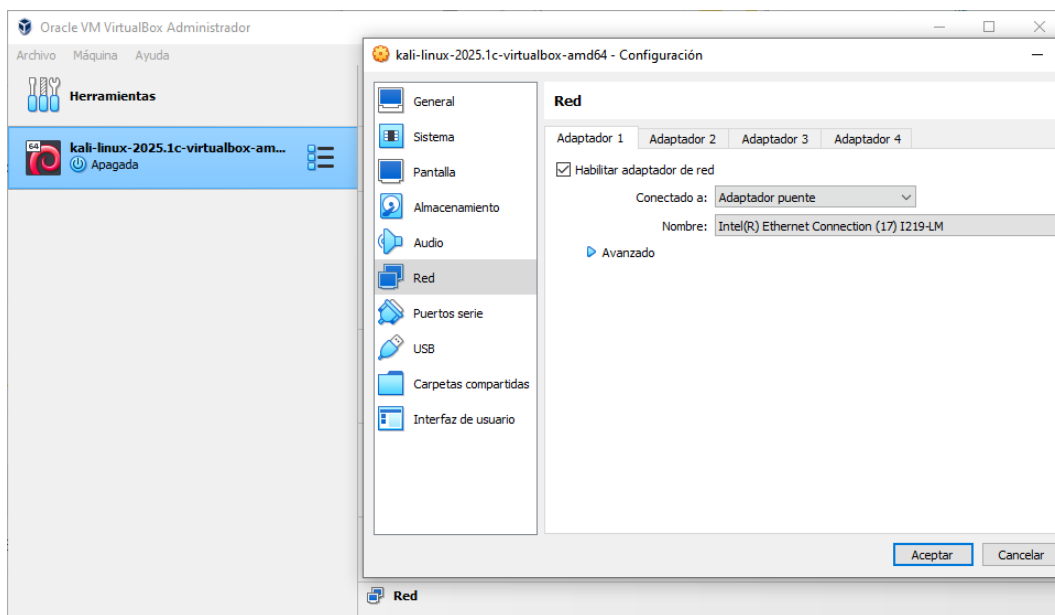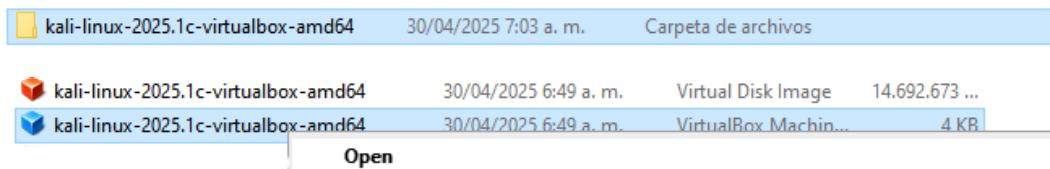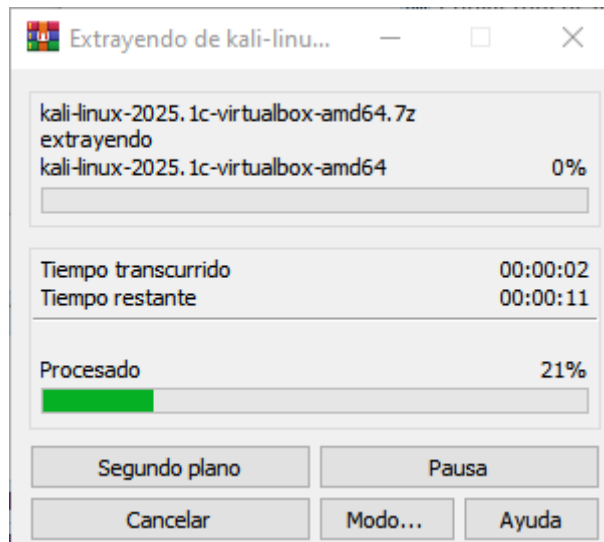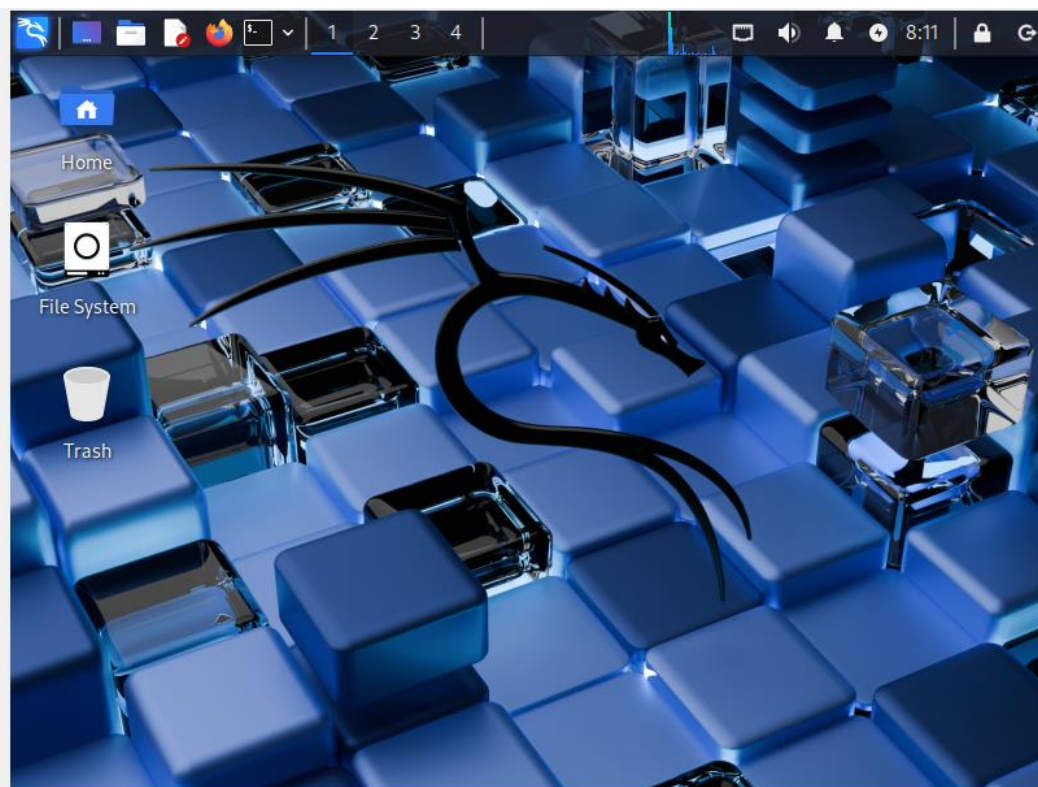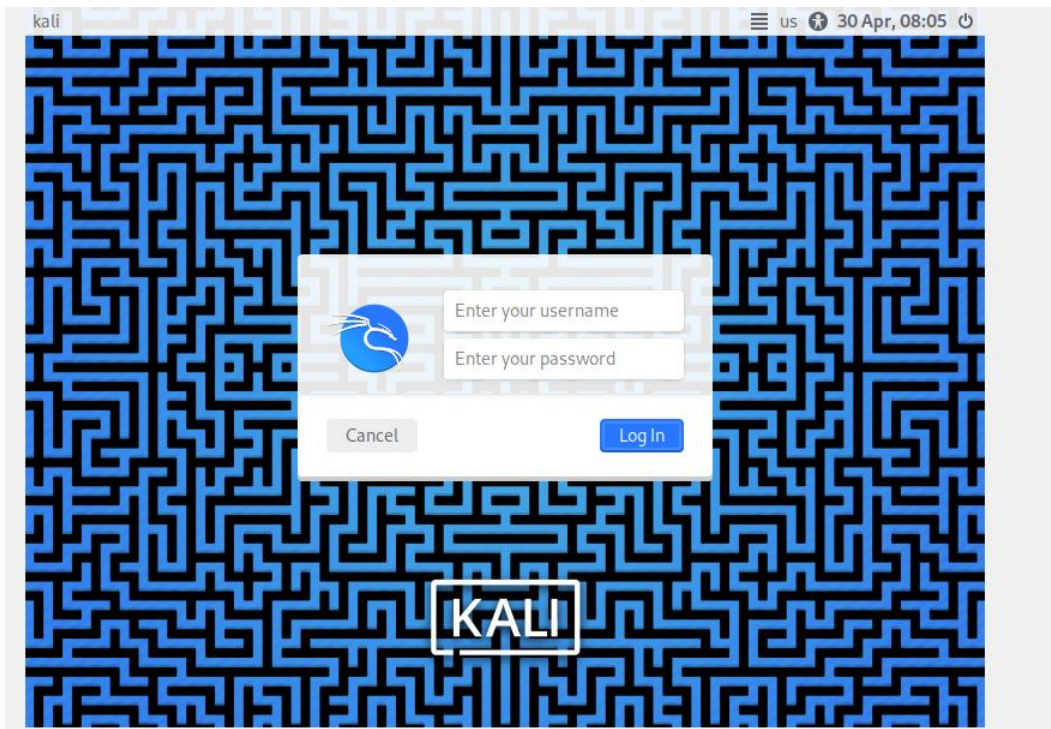

Entramos a la terminal e ingresamos a la cuenta **root** con sudo su

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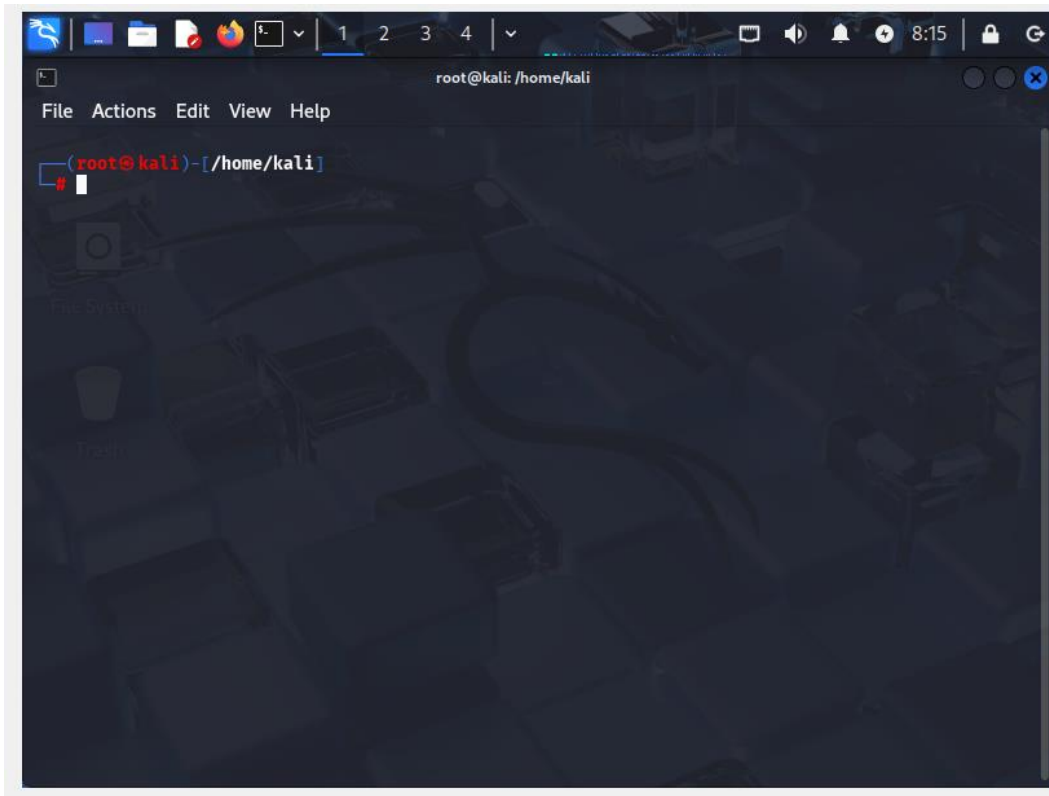
Observamos la Ip de kali y de Windows:

Windows: [

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]

Proceso de instalación de UFW (Uncomplicated Firewall)

Habilitamos UFW:

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Revisamos el estatus del Firewall:

Ejecutamos el siguiente comando **iptables –L**:

Configuramos políticas para entradas y salidas en UFW y Iptables:

UFW:

Iptables:

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```
┌──(root㉿kali)-[/home/kali]
└─# iptables -P INPUT DROP
```

```
┌──(root㉿kali)-[/home/kali]
└─# iptables -P OUTPUT ACCEP
iptables: Bad policy name. Run `dmesg' for more information.
```

```
┌──(root㉿kali)-[/home/kali]
└─# iptables -P OUTPUT ACCEPT
```

```
┌──(root㉿kali)-[/home/kali]
```

UFW:

```
┌──(root㉿kali)-[/home/kali]
└─# ufw allow ssh
Rule added
Rule added (v6)

┌──(root㉿kali)-[/home/kali]
└─#
```

```
┌──(root㉿kali)-[/home/kali]
└─# ufw allow http
Rule added
Rule added (v6)

┌──(root㉿kali)-[/home/kali]
└─# ufw allow https
Rule added
Rule added (v6)
```

Iptables:

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```
┌──(root㉿kali)-[/home/kali]
└─# iptables -A INPUT -p tcp --dport 22 -j ACCEPT
```

```
┌──(root㉿kali)-[/home/kali]
└─# iptables -A INPUT -p tcp --dport 80 -j ACCEPT
```

```
┌──(root㉿kali)-[/home/kali]
└─# iptables -A INPUT -p tcp --dport 443 -j ACCEPT
```

Acabando de configurar los permisos revisamos en los firewalls los resultados de los comandos ejecutados:

UFW:

```
┌──(root㉿kali)-[/home/kali]
└─# ufw status numbered
Status: active

     To                         Action      From
     --
[ 1] 22/tcp                     ALLOW IN    Anywhere
[ 2] 80/tcp                     ALLOW IN    Anywhere
[ 3] 443                        ALLOW IN    Anywhere
[ 4] 22/tcp (v6)                ALLOW IN    Anywhere (v6)
[ 5] 80/tcp (v6)                ALLOW IN    Anywhere (v6)
[ 6] 443 (v6)                   ALLOW IN    Anywhere (v6)
```

Iptables:

```
┌──(root㉿kali)-[/home/kali]
└─# iptables -L
```

```
Chain ufw-user-input (1 references)
target     prot opt source               destination
ACCEPT     tcp  --  anywhere             anywhere             tcp dpt:ssh
ACCEPT     tcp  --  anywhere             anywhere             tcp dpt:http
ACCEPT     tcp  --  anywhere             anywhere             tcp dpt:https
```

Luego, bloqueamos o permitimos tráfico desde una dirección especifica:

Permisos en UFW:

```
┌──(root㉿kali)-[/home/kali]
└─# ufw allow from 192.168.1.100
Rule added
```

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```
┌──(root㉿kali)-[/home/kali]
└─# ufw logging on
Logging enabled
```

```
┌──(root㉿kali)-[/home/kali]
└─# tail -f /var/log/ufw.log
```

Bloqueo en UFW:

```
┌──(root㉿kali)-[/home/kali]
└─# ufw deny from 192.168.1.101
Rule added
```

```
┌──(root㉿kali)-[/home/kali]
└─# ufw deny from any to any port 8080
Rule added
Rule added (v6)
```

Estatus UFW:

```
┌──(root㉿kali)-[/home/kali]
└─# ufw status numbered
Status: active

     To                         Action      From
     --                         ------      ----
[ 1] 22/tcp                     ALLOW IN    Anywhere
[ 2] 80/tcp                     ALLOW IN    Anywhere
[ 3] 443                        ALLOW IN    Anywhere
[ 4] Anywhere                   ALLOW IN    192.168.1.100
[ 5] Anywhere                   DENY IN     192.168.1.101
[ 6] 8080                       DENY IN     Anywhere
[ 7] 22/tcp (v6)                ALLOW IN    Anywhere (v6)
[ 8] 80/tcp (v6)                ALLOW IN    Anywhere (v6)
[ 9] 443 (v6)                   ALLOW IN    Anywhere (v6)
[10] 8080 (v6)                  DENY IN     Anywhere (v6)
```

Permisos en Iptables:

```
┌──(root㉿kali)-[/home/kali]
└─# iptables -A INPUT -s 192.168.1.60 -j ACCEPT
```

Bloqueo en Iptables:

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```
┌──(root💀kali)-[/home/kali]
└─# iptables -A INPUT -s 192.168.1.61 -j DROP
```

```
┌──(root💀kali)-[/home/kali]
└─# iptables -A INPUT -p tcp --dport 8080 -j DROP
```

Estatus Iptables:

```
┌──(root💀kali)-[/home/kali]
└─# iptables -L
```

```
Chain ufw-user-input (1 references)
target     prot opt source               destination
ACCEPT     tcp  --  anywhere             anywhere             tcp dpt:ssh
ACCEPT     tcp  --  anywhere             anywhere             tcp dpt:http
ACCEPT     tcp  --  anywhere             anywhere             tcp dpt:https
ACCEPT     udp  --  anywhere             anywhere             udp dpt:https
ACCEPT     all  --  192.168.1.100        anywhere
DROP       all  --  192.168.1.101        anywhere
DROP       tcp  --  anywhere             anywhere             tcp dpt:http-alt
DROP       udp  --  anywhere             anywhere             udp dpt:8080
```