

UNIVERSIDAD AUTONOMA DE SINALOA

UNIDAD ACADEMICA FACULTAD DE INGENIERIA MOCHIS

LICENCIATURA EN INGENIERIA DE SOFTWARE



ASIGNATURA:

ADMINISTRACION DE SISTEMAS



TAREA:

**TAREA 1: ENTORNO DE VIRTUALIZACIÓN E INFRAESTRUCTURA
BASE**

DOCENTE:

DR. HERMAN GEOVANY AYALA ZUÑIGA

GRUPO 3-01

ALUMNO:

PACHECO MEZA ANGEL GUSTAVO

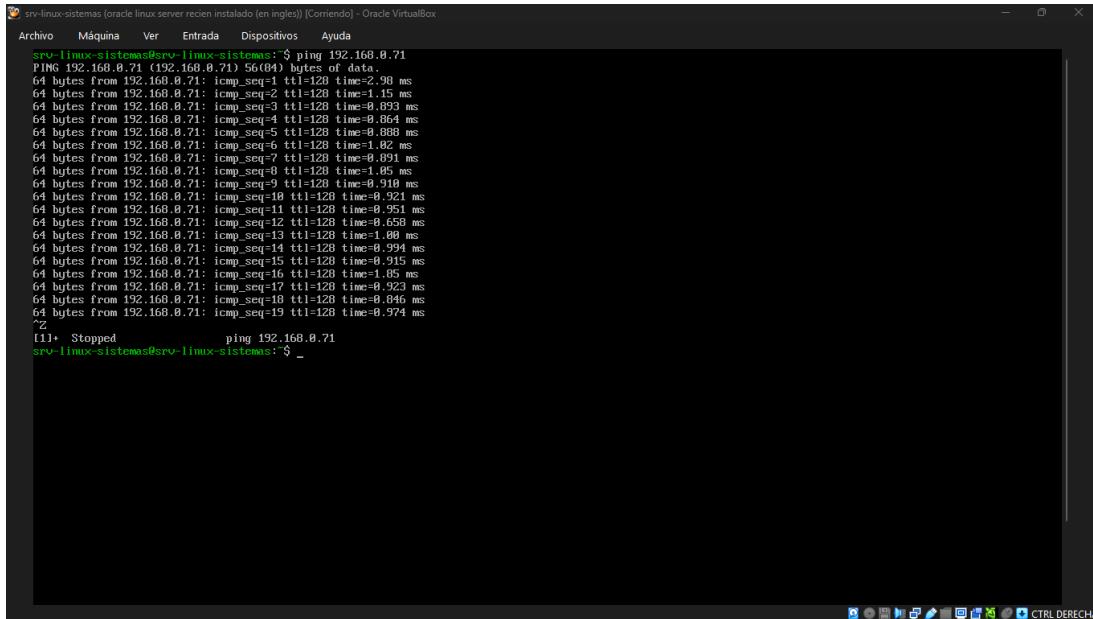
30/ENE/2026

Tabla de direccionamiento IP propuesto

Nodo	Distribución	Nombre del equipo	IP
Servidor Linux	Oracle Linux Server	srv-linux-sistemas	192.168.0.70
Servidor Windows	Windows Server 2019	srv-win-sistemas	192.168.0.71
Cliente	Ubuntu Desktop	ubuntu-linux-sistemas	192.168.0.72

Capturas de pantalla del comando ping exitoso entre los 3 nodos

- Ping de srv-linux-sistemas a srv-win-sistemas

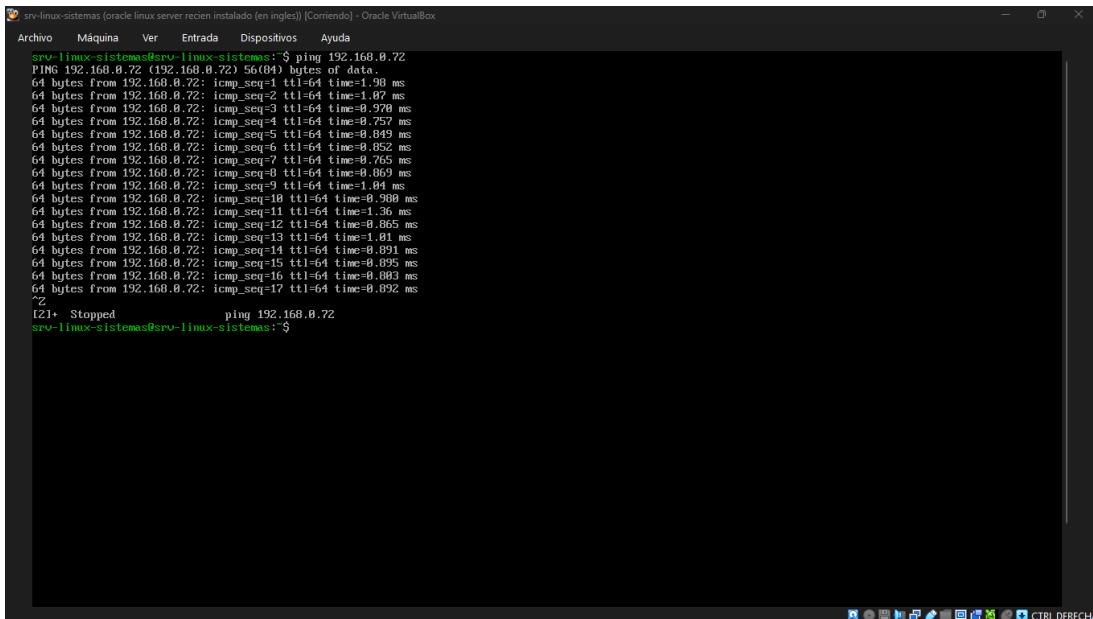


```

srv-linux-sistemas$ ping 192.168.0.71
PING 192.168.0.71 (192.168.0.71) 56(84) bytes of data.
64 bytes from 192.168.0.71: icmp_seq=1 ttl=128 time=2.99 ms
64 bytes from 192.168.0.71: icmp_seq=2 ttl=128 time=1.15 ms
64 bytes from 192.168.0.71: icmp_seq=3 ttl=128 time=0.993 ms
64 bytes from 192.168.0.71: icmp_seq=4 ttl=128 time=0.864 ms
64 bytes from 192.168.0.71: icmp_seq=5 ttl=128 time=0.888 ms
64 bytes from 192.168.0.71: icmp_seq=6 ttl=128 time=1.82 ms
64 bytes from 192.168.0.71: icmp_seq=7 ttl=128 time=0.891 ms
64 bytes from 192.168.0.71: icmp_seq=8 ttl=128 time=1.95 ms
64 bytes from 192.168.0.71: icmp_seq=9 ttl=128 time=0.918 ms
64 bytes from 192.168.0.71: icmp_seq=10 ttl=128 time=0.891 ms
64 bytes from 192.168.0.71: icmp_seq=11 ttl=128 time=0.951 ms
64 bytes from 192.168.0.71: icmp_seq=12 ttl=128 time=0.658 ms
64 bytes from 192.168.0.71: icmp_seq=13 ttl=128 time=1.88 ms
64 bytes from 192.168.0.71: icmp_seq=14 ttl=128 time=0.994 ms
64 bytes from 192.168.0.71: icmp_seq=15 ttl=128 time=0.915 ms
64 bytes from 192.168.0.71: icmp_seq=16 ttl=128 time=1.05 ms
64 bytes from 192.168.0.71: icmp_seq=17 ttl=128 time=0.923 ms
64 bytes from 192.168.0.71: icmp_seq=18 ttl=128 time=0.848 ms
64 bytes from 192.168.0.71: icmp_seq=19 ttl=128 time=0.974 ms
Z
[1]+  Stopped                  ping 192.168.0.71
srv-linux-sistemas$ _

```

- Ping de srv-linux-sistemas a ubuntu-linux-sistemas

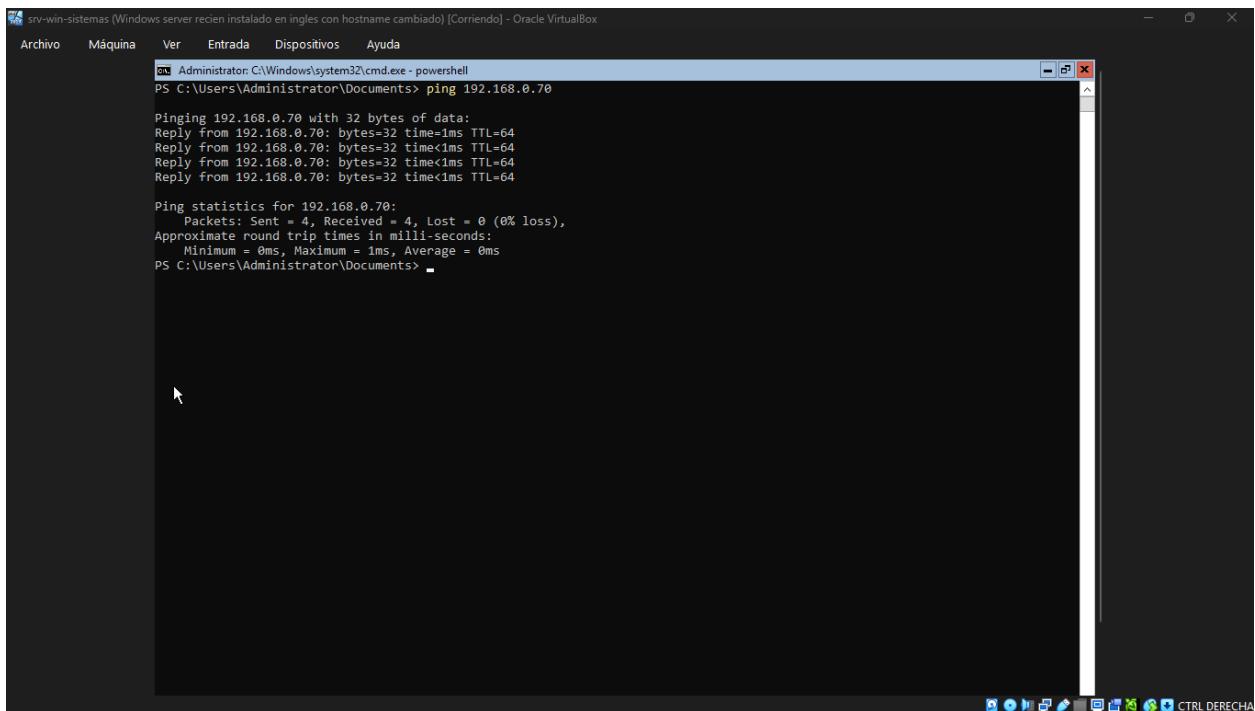


```

srv-linux-sistemas$ ping 192.168.0.72
PING 192.168.0.72 (192.168.0.72) 56(84) bytes of data.
64 bytes from 192.168.0.72: icmp_seq=1 ttl=64 time=1.98 ms
64 bytes from 192.168.0.72: icmp_seq=2 ttl=64 time=1.07 ms
64 bytes from 192.168.0.72: icmp_seq=3 ttl=64 time=0.978 ms
64 bytes from 192.168.0.72: icmp_seq=4 ttl=64 time=0.757 ms
64 bytes from 192.168.0.72: icmp_seq=5 ttl=64 time=0.849 ms
64 bytes from 192.168.0.72: icmp_seq=6 ttl=64 time=0.854 ms
64 bytes from 192.168.0.72: icmp_seq=7 ttl=64 time=0.826 ms
64 bytes from 192.168.0.72: icmp_seq=8 ttl=64 time=0.869 ms
64 bytes from 192.168.0.72: icmp_seq=9 ttl=64 time=1.04 ms
64 bytes from 192.168.0.72: icmp_seq=10 ttl=64 time=0.988 ms
64 bytes from 192.168.0.72: icmp_seq=11 ttl=64 time=1.30 ms
64 bytes from 192.168.0.72: icmp_seq=12 ttl=64 time=0.865 ms
64 bytes from 192.168.0.72: icmp_seq=13 ttl=64 time=1.01 ms
64 bytes from 192.168.0.72: icmp_seq=14 ttl=64 time=0.891 ms
64 bytes from 192.168.0.72: icmp_seq=15 ttl=64 time=0.895 ms
64 bytes from 192.168.0.72: icmp_seq=16 ttl=64 time=0.883 ms
64 bytes from 192.168.0.72: icmp_seq=17 ttl=64 time=0.892 ms
Z
[1]+  Stopped                  ping 192.168.0.72
srv-linux-sistemas$ _

```

- **Ping de srv-win-sistemas a srv-linux-sistemas**

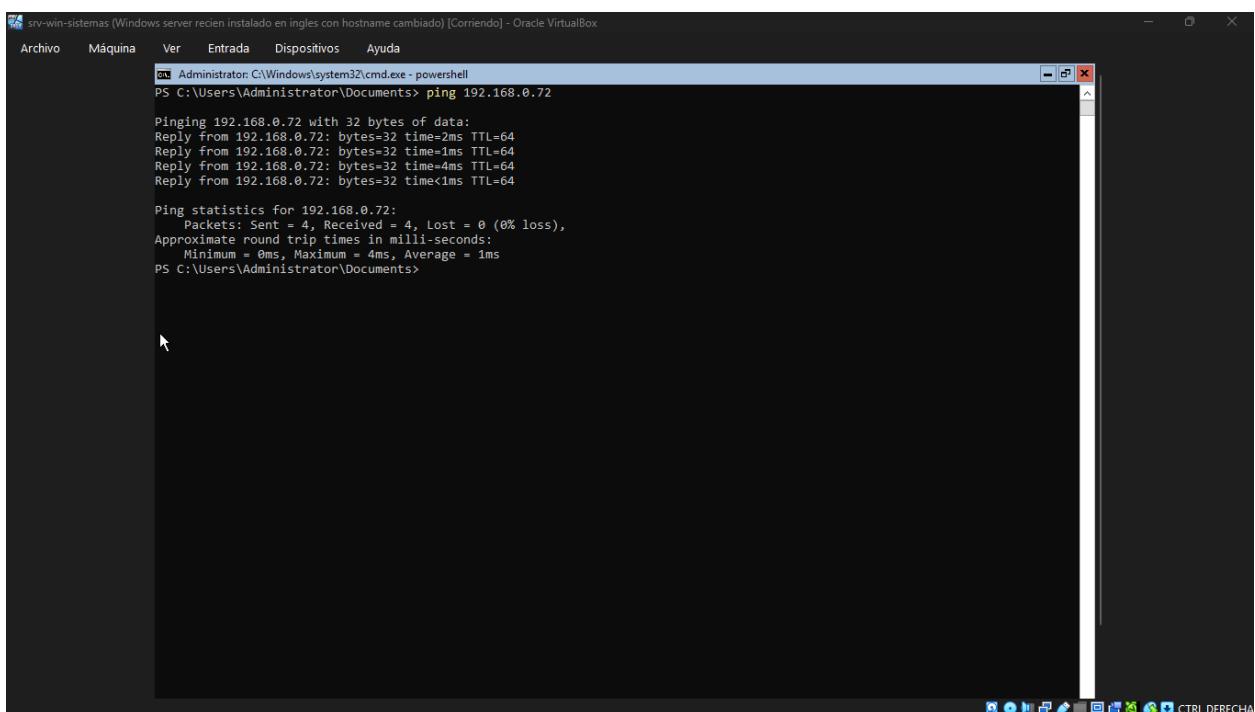


```
srv-win-sistemas (Windows server recien instalado en ingles con hostname cambiado) [Corriendo] - Oracle VirtualBox
Archivo Máquina Ver Entrada Dispositivos Ayuda
Administrator: C:\Windows\system32\cmd.exe - powershell
PS C:\Users\Administrator\Documents> ping 192.168.0.70

Pinging 192.168.0.70 with 32 bytes of data:
Reply from 192.168.0.70: bytes=32 time=1ms TTL=64
Reply from 192.168.0.70: bytes=32 time<1ms TTL=64
Reply from 192.168.0.70: bytes=32 time<1ms TTL=64
Reply from 192.168.0.70: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.0.70:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
PS C:\Users\Administrator\Documents>
```

- **Ping de srv-win-sistemas a ubuntu-linux-sistemas**

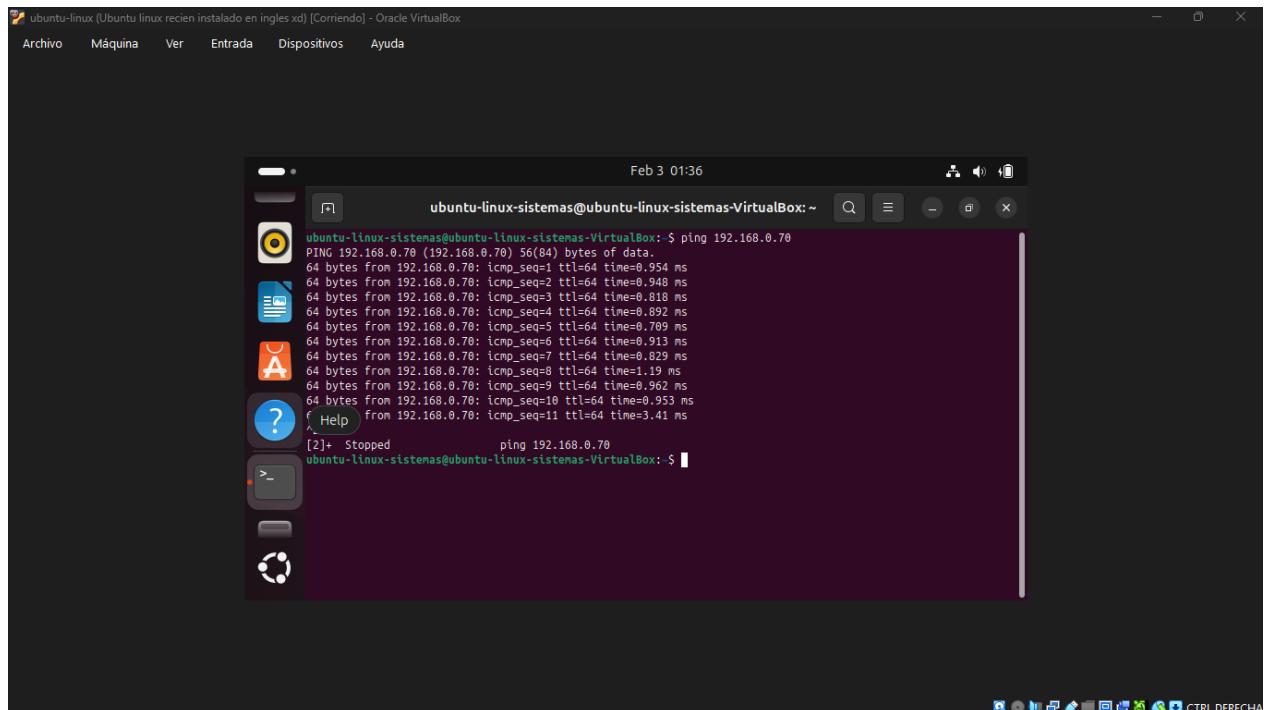


```
srv-win-sistemas (Windows server recien instalado en ingles con hostname cambiado) [Corriendo] - Oracle VirtualBox
Archivo Máquina Ver Entrada Dispositivos Ayuda
Administrator: C:\Windows\system32\cmd.exe - powershell
PS C:\Users\Administrator\Documents> ping 192.168.0.72

Pinging 192.168.0.72 with 32 bytes of data:
Reply from 192.168.0.72: bytes=32 time=2ms TTL=64
Reply from 192.168.0.72: bytes=32 time=1ms TTL=64
Reply from 192.168.0.72: bytes=32 time=4ms TTL=64
Reply from 192.168.0.72: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.0.72:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 4ms, Average = 1ms
PS C:\Users\Administrator\Documents>
```

- **Ping de ubuntu-linux-sistemas a srv-linux-sistemas**

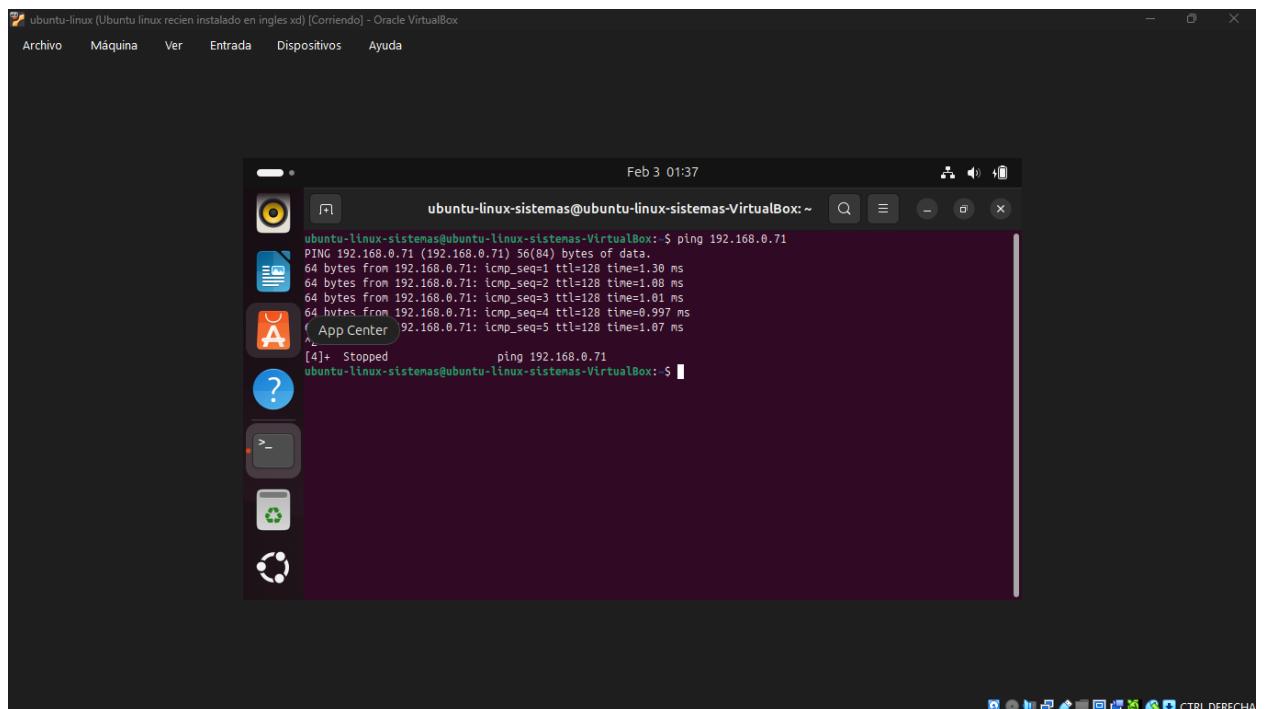


```
ubuntu-linux-sistemas@ubuntu-linux-sistemas-VirtualBox: ~
```

```
Feb 3 01:36
```

```
ubuntu-linux-sistemas@ubuntu-linux-sistemas-VirtualBox: $ ping 192.168.0.70
PING 192.168.0.70 (192.168.0.70) 56(84) bytes of data.
64 bytes from 192.168.0.70: icmp_seq=1 ttl=64 time=0.954 ms
64 bytes from 192.168.0.70: icmp_seq=2 ttl=64 time=0.948 ms
64 bytes from 192.168.0.70: icmp_seq=3 ttl=64 time=0.818 ms
64 bytes from 192.168.0.70: icmp_seq=4 ttl=64 time=0.892 ms
64 bytes from 192.168.0.70: icmp_seq=5 ttl=64 time=0.709 ms
64 bytes from 192.168.0.70: icmp_seq=6 ttl=64 time=0.913 ms
64 bytes from 192.168.0.70: icmp_seq=7 ttl=64 time=0.829 ms
64 bytes from 192.168.0.70: icmp_seq=8 ttl=64 time=1.19 ms
64 bytes from 192.168.0.70: icmp_seq=9 ttl=64 time=0.962 ms
64 bytes from 192.168.0.70: icmp_seq=10 ttl=64 time=0.953 ms
64 bytes from 192.168.0.70: icmp_seq=11 ttl=64 time=3.41 ms
[2]+ Stopped ping 192.168.0.70
ubuntu-linux-sistemas@ubuntu-linux-sistemas-VirtualBox: $
```

- **Ping de ubuntu-linux-sistemas a srv-win-sistemas**



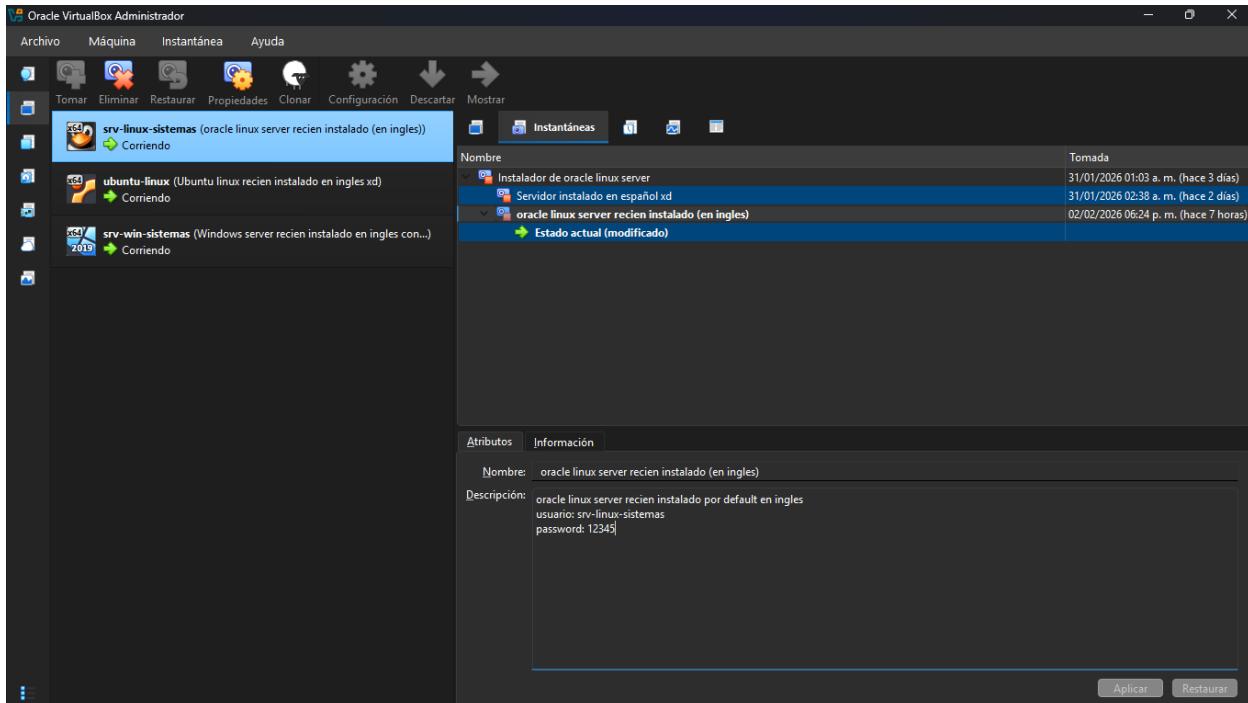
```
ubuntu-linux-sistemas@ubuntu-linux-sistemas-VirtualBox: ~
```

```
Feb 3 01:37
```

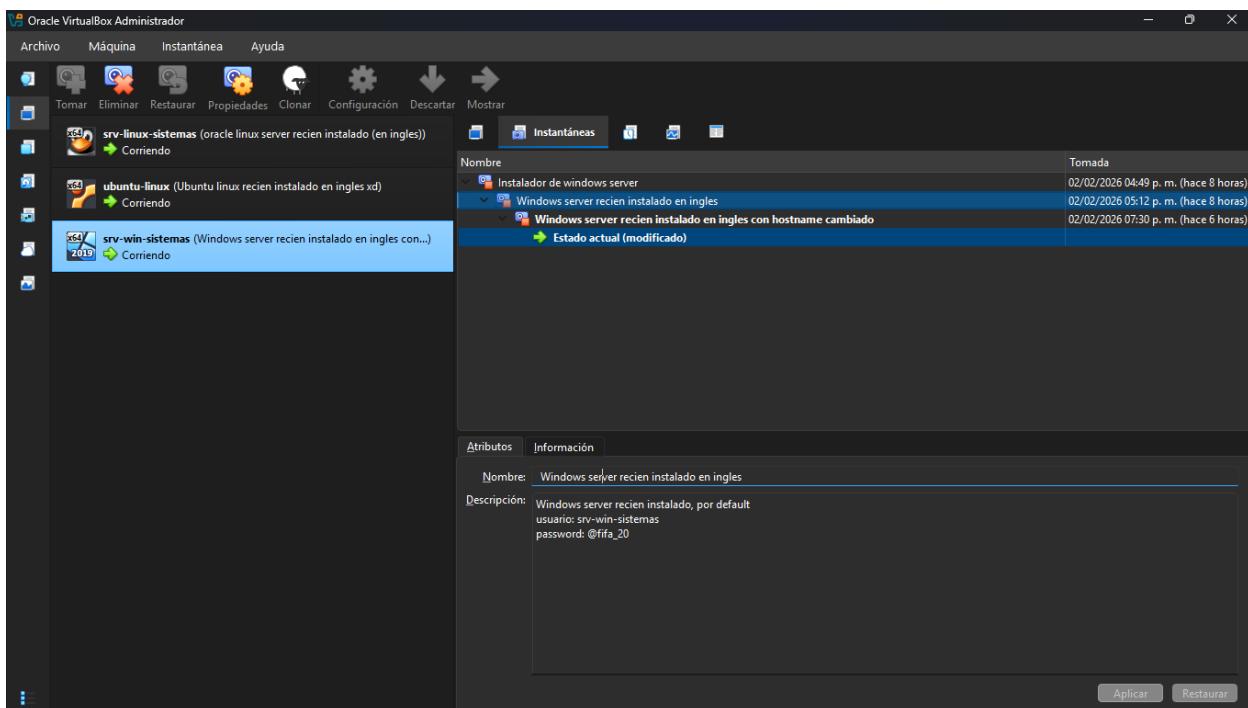
```
ubuntu-linux-sistemas@ubuntu-linux-sistemas-VirtualBox: $ ping 192.168.0.71
PING 192.168.0.71 (192.168.0.71) 56(84) bytes of data.
64 bytes from 192.168.0.71: icmp_seq=1 ttl=128 time=1.30 ms
64 bytes from 192.168.0.71: icmp_seq=2 ttl=128 time=1.00 ms
64 bytes from 192.168.0.71: icmp_seq=3 ttl=128 time=1.01 ms
64 bytes from 192.168.0.71: icmp_seq=4 ttl=128 time=0.997 ms
[4]+ Stopped ping 192.168.0.71
ubuntu-linux-sistemas@ubuntu-linux-sistemas-VirtualBox: $
```

Captura de los “Snapshots” creados en el hipervisor

- **srv-linux-sistemas**



- **srv-win-sistemas**



ubuntu-linux-sistemas

