

UNIVERSIDAD AUTONOMA DE SINALOA

UNIDAD ACADEMICA FACULTAD DE INGENIERIA MOCHIS

LICENCIATURA EN INGENIERIA DE SOFTWARE



ASIGNATURA:

Asministración de sistemas

DOCENTE:

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ALUMNO:

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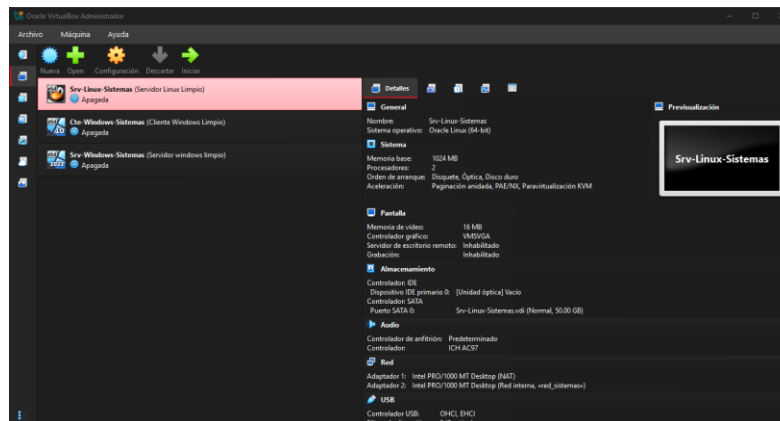
GRUPO:

3-01

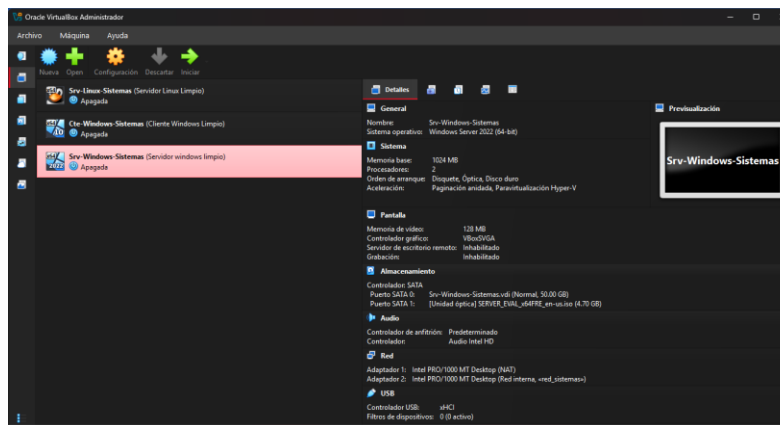
TAREA 1:

Entorno de Virtualización e Infraestructura Base

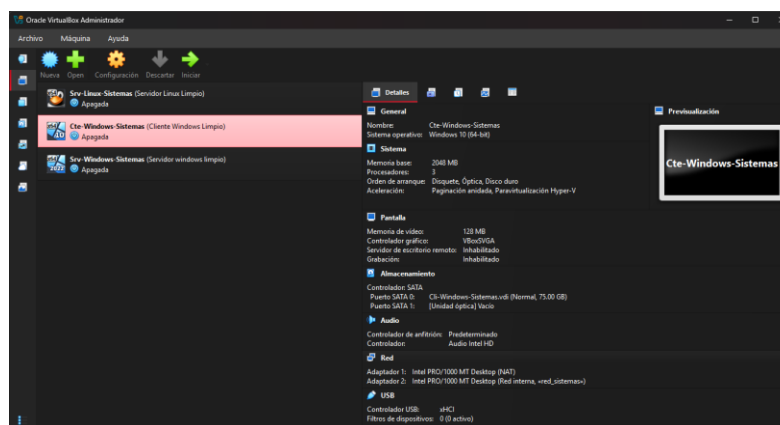
Máquinas virtuales en el hipervisor VirtualBox



Nodo#1 Servidor Linux (Oracle Linux Server 10.1)

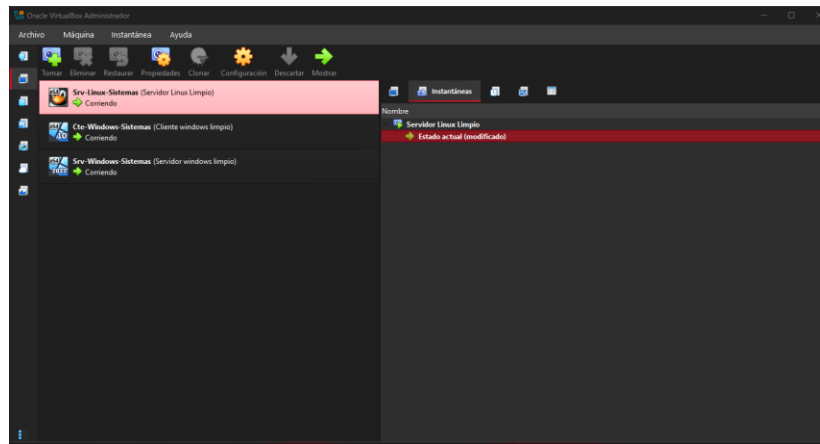


Nodo #2 Servidor Windows (Windows Server 2022)

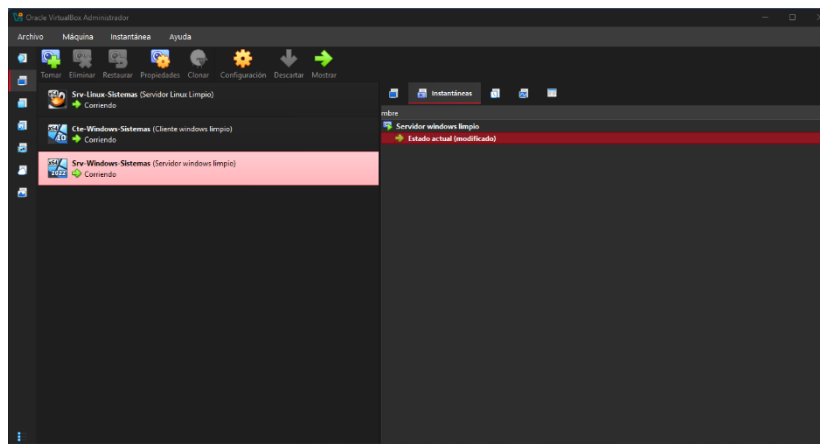


Nodo #3 Cliente Windows (Windows 10)

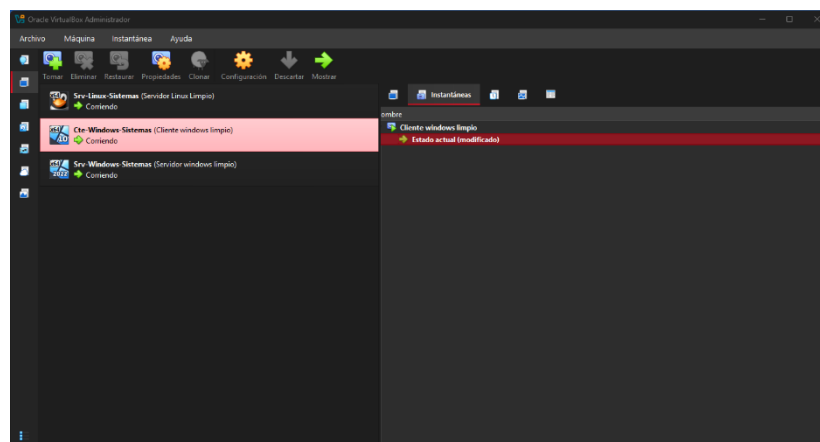
Snapshots de cada Nodo



Nodo #1



Nodo #2



Nodo #3

Tabla de direcciones IP

No. Nodo	Sistema operativo	Nombre del equipo	dirección IP	Mascara de subred
1	Oracle Linux	srv-linux	192.168.10.10	255.255.255.0
2	Windows Server	srv-windows	192.168.10.20	255.255.255.0
3	Windows 10	cte-windows	192.168.10.30	255.255.255.0

Ping entre los nodos

```

Oracle Linux Server 19.1
Kernel 6.12.0-165.el10ck.x86_64 on an x86_64

Web console: https://srv-linux:9090/ or https://192.168.10.10:9090/

srv-linux login: altorch
Password:
Last login: Sat Jan 31 17:58:51 on tttyl
altorch@srv-linux:~$ ping 192.168.10.20
PING 192.168.10.20 (192.168.10.20) 56(84) bytes of data:
64 bytes from 192.168.10.20: icmp_seq=1 ttl=128 time=1.69 ms
64 bytes from 192.168.10.20: icmp_seq=2 ttl=128 time=0.755 ms
64 bytes from 192.168.10.20: icmp_seq=3 ttl=128 time=0.654 ms
64 bytes from 192.168.10.20: icmp_seq=4 ttl=128 time=0.674 ms
^C
--- 192.168.10.20 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3037ms
rtt min=0.654ms max=1.692ms avg=0.807ms
altorch@srv-linux:~$ ping 192.168.10.30
PING 192.168.10.30 (192.168.10.30) 56(84) bytes of data:
64 bytes from 192.168.10.30: icmp_seq=1 ttl=128 time=1.29 ms
64 bytes from 192.168.10.30: icmp_seq=2 ttl=128 time=0.826 ms
64 bytes from 192.168.10.30: icmp_seq=3 ttl=128 time=1.58 ms
64 bytes from 192.168.10.30: icmp_seq=4 ttl=128 time=2.38 ms
^C
--- 192.168.10.30 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3808ms
rtt min=0.826ms max=2.38ms avg=1.477ms
altorch@srv-linux:~$

```

Del Nodo #1 a los Nodos #2 y #3

```

Administrator C:\Windows\system32\cmd.exe

PS C:\Users\Administrator> ping 192.168.10.10

Pinging 192.168.10.10 with 32 bytes of data:
Reply from 192.168.10.10: bytes=32 time=1ms TTL=64
Reply from 192.168.10.10: bytes=32 time=1ms TTL=64
Reply from 192.168.10.10: bytes=32 time=1ms TTL=64
Reply from 192.168.10.10: bytes=32 time=2ms TTL=64

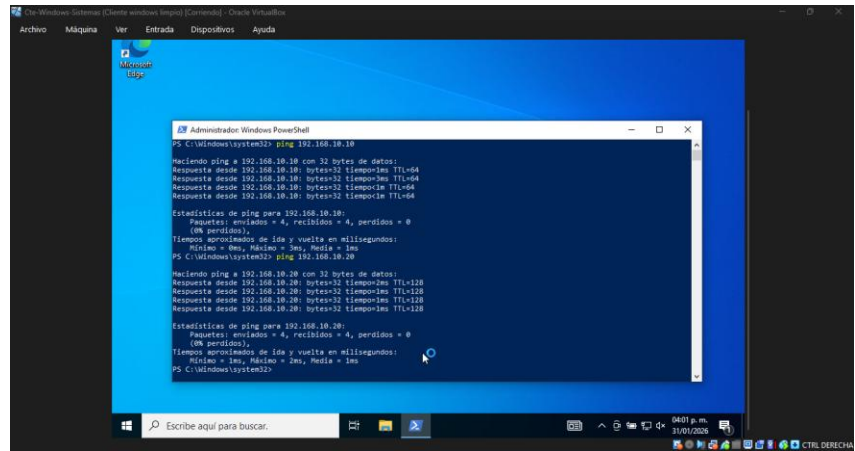
Ping statistics for 192.168.10.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 2ms, Average = 0ms
PS C:\Users\Administrator> ping 192.168.10.30

Pinging 192.168.10.30 with 32 bytes of data:
Reply from 192.168.10.30: bytes=32 time=1ms TTL=128
Reply from 192.168.10.30: bytes=32 time=1ms TTL=128
Reply from 192.168.10.30: bytes=32 time=1ms TTL=128
Reply from 192.168.10.30: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.10.30:
    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>

```

Ping del Nodo #2 a los Nodos #1 y #3



The screenshot shows a Windows 10 desktop environment. A PowerShell window titled "Administrador Windows PowerShell" is open, displaying the results of two ping commands. The first command is "ping 192.168.10.10", which shows four successful responses with 0% packet loss. The second command is "ping 192.168.10.20", which also shows four successful responses with 0% packet loss. The desktop background is blue with the Microsoft Edge logo. The taskbar at the bottom shows the Start button, a search bar, and several application icons. The system tray in the bottom right corner displays the time as 04:01 p.m. on 31/03/2024.

```
PS C:\Windows\system32> ping 192.168.10.10

Haciendo ping a 192.168.10.10 con 32 bytes de datos:
Respuesta desde 192.168.10.10: bytes=32 tiempo=1ms TTL=64
Respuesta desde 192.168.10.10: bytes=32 tiempo=1ms TTL=64
Respuesta desde 192.168.10.10: bytes=32 tiempo=1ms TTL=64
Respuesta desde 192.168.10.10: bytes=32 tiempo=1ms TTL=64

Estadísticas de ping para 192.168.10.10:
    Paquetes: enviados = 4, recibidos = 4, perdidos = 0
            (0% perdidos),
    Tiempos aproximados de ida y vuelta en milisegundos:
        Mínimo = 0ms, Máximo = 3ms, Media = 1ms
PS C:\Windows\system32> ping 192.168.10.20

Haciendo ping a 192.168.10.20 con 32 bytes de datos:
Respuesta desde 192.168.10.20: bytes=32 tiempo=2ms TTL=128
Respuesta desde 192.168.10.20: bytes=32 tiempo=1ms TTL=128
Respuesta desde 192.168.10.20: bytes=32 tiempo=1ms TTL=128
Respuesta desde 192.168.10.20: bytes=32 tiempo=1ms TTL=128

Estadísticas de ping para 192.168.10.20:
    Paquetes: enviados = 4, recibidos = 4, perdidos = 0
            (0% perdidos),
    Tiempos aproximados de ida y vuelta en milisegundos:
        Mínimo = 1ms, Máximo = 2ms, Media = 1ms
PS C:\Windows\system32>
```

Ping del Nodo #3 a los Nodos #1 y #2