

UNIVERSIDAD AUTÓNOMA DE SINALOA
FACULTAD DE INGENIERIA MOCHIS



Administración de Sistemas

Tema:

Entorno de virtualización e infraestructura base

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Grupo: 3-01

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Tabla de direccionamiento IP

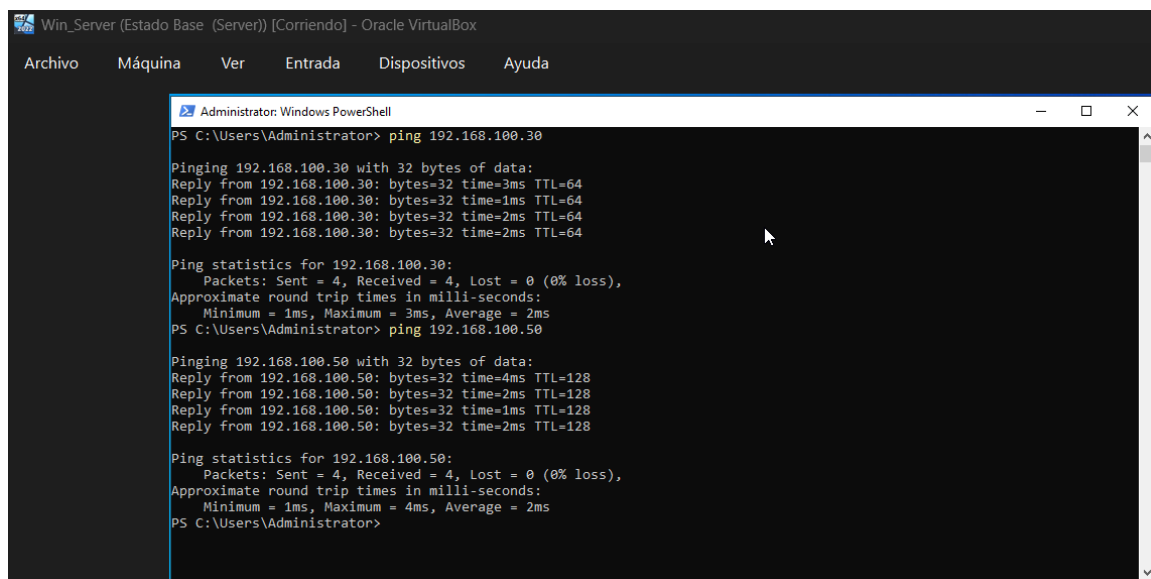
Sistema Operativo	Dirección IP	Máscara de Subred	Puerta de Enlace	Función
Linux Debian	192.168.100.30	255.255.255.0	N/A	Servidor
Windows Server	192.168.100.70	255.255.255.0	N/A	Servidor
Windows 10	192.168.100.50	255.255.255.0	N/A	Cliente

Captura de pantalla del comando ping exitoso entre los 3 nodos

Ping desde Debian

```
root@debian:~# ping 192.168.100.70
PING 192.168.100.70 (192.168.100.70) 56(84) bytes of data.
64 bytes from 192.168.100.70: icmp_seq=1 ttl=128 time=1.82 ms
64 bytes from 192.168.100.70: icmp_seq=2 ttl=128 time=1.25 ms
64 bytes from 192.168.100.70: icmp_seq=3 ttl=128 time=1.35 ms
64 bytes from 192.168.100.70: icmp_seq=4 ttl=128 time=3.72 ms
^C
--- 192.168.100.70 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3005ms
rtt min/avg/max/mdev = 1.247/2.033/3.721/0.997 ms
root@debian:~# ping 192.168.100.50
PING 192.168.100.50 (192.168.100.50) 56(84) bytes of data.
64 bytes from 192.168.100.50: icmp_seq=1 ttl=128 time=1.55 ms
64 bytes from 192.168.100.50: icmp_seq=2 ttl=128 time=1.19 ms
64 bytes from 192.168.100.50: icmp_seq=3 ttl=128 time=2.41 ms
64 bytes from 192.168.100.50: icmp_seq=4 ttl=128 time=1.08 ms
^C
--- 192.168.100.50 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3020ms
rtt min/avg/max/mdev = 1.078/1.558/2.411/0.522 ms
root@debian:~#
```

Ping desde Windows Server



```
Administrator: Windows PowerShell
PS C:\Users\Administrator> ping 192.168.100.30

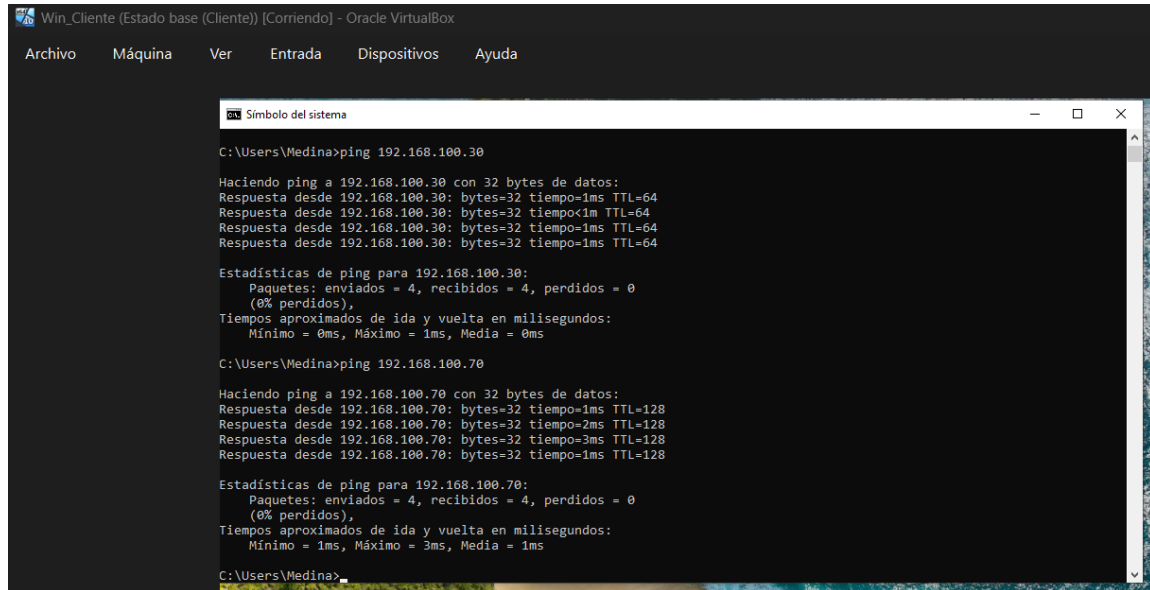
Pinging 192.168.100.30 with 32 bytes of data:
Reply from 192.168.100.30: bytes=32 time=3ms TTL=64
Reply from 192.168.100.30: bytes=32 time=1ms TTL=64
Reply from 192.168.100.30: bytes=32 time=2ms TTL=64
Reply from 192.168.100.30: bytes=32 time=2ms TTL=64

Ping statistics for 192.168.100.30:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 2ms
PS C:\Users\Administrator> ping 192.168.100.50

Pinging 192.168.100.50 with 32 bytes of data:
Reply from 192.168.100.50: bytes=32 time=4ms TTL=128
Reply from 192.168.100.50: bytes=32 time=2ms TTL=128
Reply from 192.168.100.50: bytes=32 time=1ms TTL=128
Reply from 192.168.100.50: bytes=32 time=2ms TTL=128

Ping statistics for 192.168.100.50:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 4ms, Average = 2ms
PS C:\Users\Administrator>
```

Ping desde Windows Server



The screenshot shows a Windows Server environment with a menu bar at the top containing 'Archivo', 'Máquina', 'Ver', 'Entrada', 'Dispositivos', and 'Ayuda'. Below the menu is a command prompt window titled 'Símbolo del sistema'. The prompt shows the user executing two ping commands. The first command is 'ping 192.168.100.30', which returns four successful responses with 1ms latency and a TTL of 64. The second command is 'ping 192.168.100.70', which returns four successful responses with latencies of 1ms, 2ms, 3ms, and 1ms, and a TTL of 128. Both commands also display summary statistics showing 0% packet loss.

```
Win_Cliente (Estado base (Cliente)) [Corriendo] - Oracle VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda

Símbolo del sistema

C:\Users\Medina>ping 192.168.100.30

Haciendo ping a 192.168.100.30 con 32 bytes de datos:
Respuesta desde 192.168.100.30: bytes=32 tiempo=1ms TTL=64
Respuesta desde 192.168.100.30: bytes=32 tiempo=1ms TTL=64
Respuesta desde 192.168.100.30: bytes=32 tiempo=1ms TTL=64
Respuesta desde 192.168.100.30: bytes=32 tiempo=1ms TTL=64

Estadísticas de ping para 192.168.100.30:
    Paquetes: enviados = 4, recibidos = 4, perdidos = 0
              (0% perdidos),
    Tiempos aproximados de ida y vuelta en milisegundos:
        Mínimo = 0ms, Máximo = 1ms, Media = 0ms

C:\Users\Medina>ping 192.168.100.70

Haciendo ping a 192.168.100.70 con 32 bytes de datos:
Respuesta desde 192.168.100.70: bytes=32 tiempo=1ms TTL=128
Respuesta desde 192.168.100.70: bytes=32 tiempo=2ms TTL=128
Respuesta desde 192.168.100.70: bytes=32 tiempo=3ms TTL=128
Respuesta desde 192.168.100.70: bytes=32 tiempo=1ms TTL=128

Estadísticas de ping para 192.168.100.70:
    Paquetes: enviados = 4, recibidos = 4, perdidos = 0
              (0% perdidos),
    Tiempos aproximados de ida y vuelta en milisegundos:
        Mínimo = 1ms, Máximo = 3ms, Media = 1ms

C:\Users\Medina>
```

Captura de los "Snapshots" creados en el hipervisor.

