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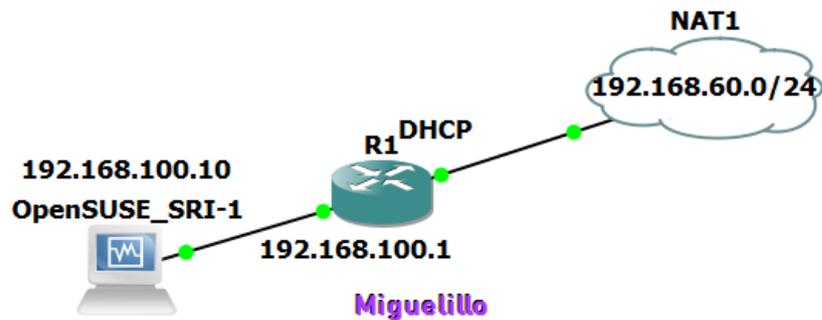
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Ejercicio 1

a) NAT PAT

Solución:

Escenario



Configuración del Router

```

R1#
R1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#interface FastEthernet 0/0
R1(config-if)#ip address 192.168.100.1 255.255.255.0
R1(config-if)#no shutdown
R1(config-if)#interface Ethernet 2/0
R1(config-if)#ip address dhcp
R1(config-if)#no shutdown
R1(config-if)#exit
R1(config)#
R1(config)#
R1(config)#access-list 1 permit 192.168.100.0 0.0.0.255
R1(config)#ip nat inside source list 1 interface Ethernet 2/0 overload
R1(config)#interface FastEthernet 0/0
R1(config-if)#ip nat inside
R1(config-if)#interface Ethernet 2/0
R1(config-if)#ip nat outside
R1(config-if)#
*Sep 27 14:13:22.123: %LINEPROTO-5-UPDOWN: Line protocol on Interface NVI0, changed state to up
R1(config-if)#
R1(config-if)#
R1(config-if)#
*Sep 27 14:13:22.423: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
*Sep 27 14:13:22.563: %LINK-3-UPDOWN: Interface Ethernet2/0, changed state to up
*Sep 27 14:13:23.423: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
R1(config-if)#
*Sep 27 14:13:23.563: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet2/0, changed state to up
R1(config-if)#do wr
Warning: Attempting to overwrite an NVRAM configuration previously written
by a different version of the system image.
Overwrite the previous NVRAM configuration?[confirm]
Building configuration...
[OK]
R1(config-if)#end
R1#
*Sep 27 14:13:36.119: %SYS-5-CONFIG_I: Configured from console by console
R1#
*Sep 27 14:13:36.767: %DHCP-6-ADDRESS_ASSIGN: Interface Ethernet2/0 assigned DHCP address 192.168.211.131, mask 255.255.255.0, hostname R1

R1#show ip nat tran
R1#show ip na
R1#show ip nat trans
R1#show ip nat translations
Pro Inside global      Inside local      Outside local      Outside global
icmp 192.168.211.131:5 192.168.100.10:5 8.8.8.8:5          8.8.8.8:5
icmp 192.168.211.131:6 192.168.100.10:6 192.168.60.254:6 192.168.60.254:6
R1#

```

Prueba

Network diagram showing a host (192.168.100.10) connected to a router (R1) with IP 192.168.100.1. The router is connected to a NAT cloud (192.168.60.0/24) with a DHCP server.

```

--- 192.168.100.1 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1002ms
rtt min/avg/max/mdev = 11.410/35.728/60.046/24.318 ms
usuario@localhost:~> ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
^C
--- 8.8.8.8 ping statistics ---
8 packets transmitted, 0 received, 100% packet loss, time 7179ms

usuario@localhost:~> ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
^C
--- 8.8.8.8 ping statistics ---
27 packets transmitted, 0 received, 100% packet loss, time 26636ms

usuario@localhost:~> ping 192.168.60.254
PING 192.168.60.254 (192.168.60.254) 56(84) bytes of data.
64 bytes from 192.168.60.254: icmp_seq=1 ttl=127 time=16.8 ms
64 bytes from 192.168.60.254: icmp_seq=2 ttl=127 time=29.2 ms
^C
--- 192.168.60.254 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1002ms
rtt min/avg/max/mdev = 16.813/23.009/29.206/6.196 ms
usuario@localhost:~>
    
```

5.15.7.