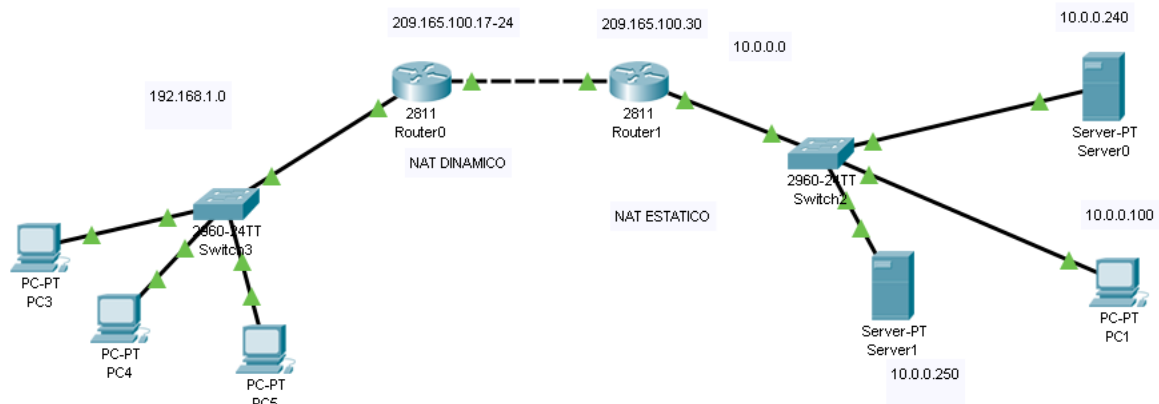


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1. DIAGRAMA DEL SISTEMA REALIZADO



2. LA IMAGEN DE LA CONFIGURACIÓN DE NAT ESTÁTICO PARA LOS DOS SERVIDORES

```
Router(config)#access-list 1 permit 10.0.0.0  
0.0.0.255
```

```
Router(config)#ip nat inside source list 1  
interface f0/1  
Router(config)#int f0/0  
Router(config-if)#ip nat inside  
Router(config-if)#exit  
Router(config)#int f0/1  
Router(config-if)#ip nat outside  
Router(config-if)#ex  
Router(config)#ex  
Router#
```

3. La imagen de la verificación de NAT estático (usar los comandos show ip nat translations y show ip nat statistics)

Show ip nat translations

```
Router#show ip nat translations
Pro Inside global      Inside local      Outside local
-----
icmp 209.165.100.30:1024 10.0.0.100:10      192.168.1.101:10
192.168.1.101:1024
icmp 209.165.100.30:1025 10.0.0.100:11      192.168.1.101:11
192.168.1.101:1025
icmp 209.165.100.30:1026 10.0.0.100:14      192.168.1.101:14
192.168.1.101:1026
icmp 209.165.100.30:1027 10.0.0.100:15      192.168.1.101:15
192.168.1.101:1027
icmp 209.165.100.30:10  10.0.0.240:10      192.168.1.100:10
192.168.1.100:10
icmp 209.165.100.30:11  10.0.0.250:11      192.168.1.100:11
192.168.1.100:11
icmp 209.165.100.30:12  10.0.0.250:12      192.168.1.100:12
192.168.1.100:12
icmp 209.165.100.30:12  10.0.0.250:12      192.168.1.101:12
192.168.1.101:12
icmp 209.165.100.30:13  10.0.0.240:13      192.168.1.100:13
192.168.1.100:13
icmp 209.165.100.30:13  10.0.0.240:13      192.168.1.101:13
192.168.1.101:13
icmp 209.165.100.30:14  10.0.0.240:14      192.168.1.100:14
192.168.1.100:14
```

Show ip nat statistics

```
Router#show ip nat statistics
Total translations: 0 (0 static, 0 dynamic, 0 extended)
Outside Interfaces: FastEthernet0/1
Inside Interfaces: FastEthernet0/0
Hits: 1 Misses: 77
Expired translations: 25
Dynamic mappings:
```

4. La imagen de la configuración de NAT sobrecargado (PAT) para el PC1 (cambiar la IP para probar que funciona la ACL).

```
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip nat inside source list 1 interface 0/1 overload
```

Cambiando la ip 10.0.0.100 a 10.0.0.101

PC1

Physical	Config	Desktop	Programming	Attributes
<input type="radio"/> DHCP <input checked="" type="radio"/> Static				
IP Address		10.0.0.100		
Subnet Mask		255.255.255.0		
Default Gateway		10.0.0.1		
DNS Server		0.0.0.0		

PC1

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static



IP Address: 10.0.0.101

Subnet Mask: 255.255.255.0

Default Gateway: 10.0.0.1

DNS Server: 0.0.0.0

IPv6 Configuration

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Nt
	Successful	PC1	PC4	ICMP		0.000	N	

5. La imagen de la configuración de NAT dinámico para la red de la izquierda.

```
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip nat pool natd 209.165.100.17 209.165.100.24 netmask
255.255.255.0
Router(config)#access-list 2 permit 192.168.1.0 0.0.0.255
Router(config)#ip nat inside source list 2 pool natd
Router(config)#int fa0/0
Router(config-if)#ip nat inside
Router(config-if)#ex
Router(config)#int fa0/1
Router(config-if)#ip nat outside
Router(config-if)#ex
Router(config)#ex
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

6. La imagen de la verificación de NAT dinámico (usar los comandos show ip nat translations y show ip nat statistics)

Show ip nat statistics

```
Router#show ip nat statistics
Total translations: 0 (0 static, 0 dynamic, 0 extended)
Outside Interfaces: FastEthernet0/1
Inside Interfaces: FastEthernet0/0
Hits: 0 Misses: 12
Expired translations: 0
Dynamic mappings:
-- Inside Source
access-list 2 pool natd refCount 0
pool natd: netmask 255.255.255.0
start 209.165.100.17 end 209.165.100.24
type generic, total addresses 8 , allocated 0 (0%), misses 0
Router#
```

Show ip nat translations

```
Router#show ip nat translations
Pro Inside global      Inside local      Outside local      Outside
global
icmp 209.165.100.18:5  192.168.1.100:5   209.165.100.30:5
209.165.100.30:5
icmp 209.165.100.18:6  192.168.1.100:6   209.165.100.30:6
209.165.100.30:6
icmp 209.165.100.19:3  192.168.1.103:3   209.165.100.30:3
209.165.100.30:3
icmp 209.165.100.20:4  192.168.1.101:4   209.165.100.30:4
209.165.100.30:4
```

Ping pc3 a 209.165.100.30

