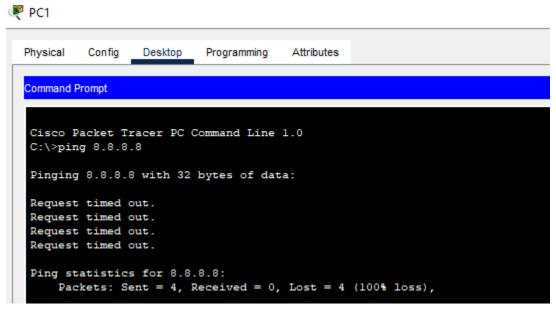


1. Attempt to ping from PC1 to 8.8.8.8. Does the ping work?



- 2. Configure static NAT on R1.
- > Configure the appropriate inside/outside interfaces
- > Map the IP addresses of PC1, PC2, and PC3 to 100.0.0.x/24

R1#int g0/0

R1#ip nat outside

R1#int g0/1

R1#ip nat inside

R1#ip nat inside source static 172.16.0.1 100.0.0.1

R1#ip nat inside source static 172.16.0.2 100.0.0.2

R1#ip nat inside source static 172.16.0.3 100.0.0.3

3. Ping 8.8.8.8 from PC1 again. Does the ping work?

```
C:\>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:

Reply from 8.8.8.8: bytes=32 time<lms TTL=126

Reply from 8.8.8.8: bytes=32 time<lms TTL=126

Reply from 8.8.8.8: bytes=32 time<lms TTL=126
```

4. Ping google.com from each PC, and then check the NAT translations on R1.

```
C:\>ping google.com

Pinging 172.217.175.238 with 32 bytes of data:

Reply from 172.217.175.238: bytes=32 time<1ms TTL=254
```

r1#do sh ip nat translations

```
Inside global
                  Inside local
                                     Outside local
                                                         Outside global
                                     172.217.175.238:10 172.217.175.238:10
                                     172.217.175.238:11 172.217.175.238:11
                                     8.8.8.8:5
                                                        8.8.8.8:5
                                                        8.8.8.8:6
100.0.0.1:7
                                                        8.8.8.8:7
100.0.0.1:8
                                     172.217.175.238:9
                                                        172.217.175.238:9
                  172.16.0.1:9
100.0.0.3
```

The udp is form the dns lookup

5. Clear the NAT translations on R1. Which entries remain?

r1#clear ip nat translations*

It should only show the outside global addresses ie 100.0.0.1, 100.0.0.2, 100.0.0.3