

مطابق تصاویر زیر ping با موفقیت انجام می شود و می شود از pc1 و pc2 ، ISP را ping کرد

```
Press Enter to begin
C:>ping 200.152.200.1

Pinging 200.152.200.1 with 32 bytes of data:
Reply from 200.152.200.1: bytes=32 time=66ms TTL=241
Reply from 200.152.200.1: bytes=32 time=64ms TTL=241
Reply from 200.152.200.1: bytes=32 time=58ms TTL=241
Reply from 200.152.200.1: bytes=32 time=68ms TTL=241
Reply from 200.152.200.1: bytes=32 time=63ms TTL=241

Ping statistics for 200.152.200.1:
    Packets: Sent = 5, Received = 5, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 58ms, Maximum = 68ms, Average = 64ms

C:>|
```

RouterA ✖ PC 1 ✖ PC 2 ✖

```
C:>ping 200.152.200.1

Pinging 200.152.200.1 with 32 bytes of data:
Reply from 200.152.200.1: bytes=32 time=72ms TTL=241
Reply from 200.152.200.1: bytes=32 time=54ms TTL=241
Reply from 200.152.200.1: bytes=32 time=59ms TTL=241
Reply from 200.152.200.1: bytes=32 time=50ms TTL=241
Reply from 200.152.200.1: bytes=32 time=50ms TTL=241

Ping statistics for 200.152.200.1:
    Packets: Sent = 5, Received = 5, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 50ms, Maximum = 72ms, Average = 57ms

C:>|
```

RouterA ✖ PC 1 ✖ PC 2 ✖

```
RouterA(config)#exit
RouterA#show ip nat translations
Pro Inside global      Inside local      Outside local      Outside global
icmp 200.152.100.65:9392 192.168.100.2:9392 200.152.200.1:9392 200.152.200.1:9392
icmp 200.152.100.65:9393 192.168.100.2:9393 200.152.200.1:9393 200.152.200.1:9393
icmp 200.152.100.65:9394 192.168.100.2:9394 200.152.200.1:9394 200.152.200.1:9394
icmp 200.152.100.65:9395 192.168.100.2:9395 200.152.200.1:9395 200.152.200.1:9395
icmp 200.152.100.65:9396 192.168.100.2:9396 200.152.200.1:9396 200.152.200.1:9396
```

به مانند قبل می توان از هر دوی آنها ping کرد.

```

C:\>ping 200.152.200.1

Pinging 200.152.200.1 with 32 bytes of data:
Reply from 200.152.200.1: bytes=32 time=71ms TTL=241
Reply from 200.152.200.1: bytes=32 time=69ms TTL=241
Reply from 200.152.200.1: bytes=32 time=64ms TTL=241
Reply from 200.152.200.1: bytes=32 time=49ms TTL=241
Reply from 200.152.200.1: bytes=32 time=69ms TTL=241

Ping statistics for 200.152.200.1:
    Packets: Sent = 5, Received = 5, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 49ms, Maximum = 71ms, Average = 64ms

C:\>

```

RouterA ✖ PC 1 ✖ PC 2 ✖

```

C:\>ping 200.152.200.1

Pinging 200.152.200.1 with 32 bytes of data:
Reply from 200.152.200.1: bytes=32 time=49ms TTL=241
Reply from 200.152.200.1: bytes=32 time=56ms TTL=241
Reply from 200.152.200.1: bytes=32 time=61ms TTL=241
Reply from 200.152.200.1: bytes=32 time=53ms TTL=241
Reply from 200.152.200.1: bytes=32 time=52ms TTL=241

Ping statistics for 200.152.200.1:
    Packets: Sent = 5, Received = 5, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 49ms, Maximum = 61ms, Average = 54ms

C:\>

```

RouterA ✖ PC 1 ✖ PC 2 ✖

جواب سوال ۹ -

همه ادرس هایی که در inside local هستند، به یک inside global نگاشت شده اند و سپس به یک آدرس outside global مپ شده است که در آن outside local همه با هم برابر است.

```

RouterA#show ip nat translations
Pro Inside global      Inside local      Outside local      Outside global
icmp 200.152.200.2:9392  192.168.100.2:9392 200.152.200.1:9392 200.152.200.1:9392
icmp 200.152.200.2:9393  192.168.100.2:9393 200.152.200.1:9393 200.152.200.1:9393
icmp 200.152.200.2:9394  192.168.100.2:9394 200.152.200.1:9394 200.152.200.1:9394
icmp 200.152.200.2:9395  192.168.100.2:9395 200.152.200.1:9395 200.152.200.1:9395
icmp 200.152.200.2:9396  192.168.100.2:9396 200.152.200.1:9396 200.152.200.1:9396

icmp 200.152.200.2:9392  192.168.100.129:9392 200.152.200.1:9392 200.152.200.1:9392
icmp 200.152.200.2:9393  192.168.100.129:9393 200.152.200.1:9393 200.152.200.1:9393
icmp 200.152.200.2:9394  192.168.100.129:9394 200.152.200.1:9394 200.152.200.1:9394
icmp 200.152.200.2:9395  192.168.100.129:9395 200.152.200.1:9395 200.152.200.1:9395
icmp 200.152.200.2:9396  192.168.100.129:9396 200.152.200.1:9396 200.152.200.1:9396

```

جواب سوال ۱۰ –

زمان lease ۲ برابر renewl است.

$$\text{Renewal} = 86400$$

$$\text{Lease} = 2 * 86400 = 172800$$

$$\text{Rebind} = 151200$$