NAT Verification – show ip nat translation

R1#sh ip nat translation

Pro Inside global	Inside local
icmp 203.0.113.3:1	10.0.1.10:1
tcp 203.0.113.3:80	10.0.1.10:80
203.0.113.3	10.0.1.10

Outside local	Outside global
203.0.113.20:1	203.0.113.20:1
203.0.113.20:45849	203.0.113.20:45849



NAT Definitions

- Inside local address—The IP address actually configured on the inside host's Operating System.
- Inside global address The NAT'd address of the inside host as it will be reached by the outside network.
- Outside local address—The IP address of the outside host as it appears to the inside network.
- Outside global address—The IP address assigned to the host on the outside network by the host's owner.



Outside Local vs Outside Global

- Router R1 in our example knows one address to reach the outside host (203.0.113.20) and does not translate that address.
- For one way NAT, the Outside Local and Outside Global addresses will be reported as being the same.







Translate the source address from 10.10.10.10 to 10.10.20.10 Translate the destination address from 10.10.30.10 to 10.10.10.10







