NAT Quick Guide

Static NAT configuration:

R1#int f0/0

R1#ip nat outside

R1#int f1/0

R1#ip nat inside

R1#ip nat inside source static 10.0.1.10 203.0.113.3

Dynamic NAT configuration:

R1#int f0/0

R1#ip nat outside (faces internet)

R1#int f2/0

R1#ip nat inside (faces desktop pcs)

Then we need to configure the pool of global addresses…

R1#ip nat pool Flackbox 203.0.113.4 203.0.113.14 netmask 255.255.255.240

We need to create an access list which references the internal IP addresses we want to translate…

R1#access-list 1 permit 10.0.2.0 0.0.0.255

We need to associate the access list with the NAT pool to complete the configuration…

R1#ip nat inside source list 1 pool Flackbox

Or…

R1#ip nat inside source list 1 pool Flackbox overload (PAT Configuration)

To verify…

R1#show ip nat translation

R1#show ip nat statistics

R1#debug ip icmp

R1#debug ip nat

*Note: use the below command to remove translations from the translation table and can be used with troubleshooting…

R1#clear ip nat translation (removes dynamic translations. Use)

PAT with Single IP Address config:

R1#int f0/0

R1#ip address dhcp

R1#ip nat outside

R1#int f1/0

R1#ip nat inside

R1#access-list 1 permit 10.0.2.0 0.0.0.255

R1#ip nat inside source list 1 interface f0/0 overload