

ASA Pre-8.3 to 8.3 NAT configuration examples

Static NAT/PAT

Pre-8.3 NAT	8.3 NAT
Regular Static NAT static (inside,outside) 192.168.100.100 10.1.1.6 netmask 255.255.255.255	object network obj-10.1.1.6 host 10.1.1.6 nat (inside,outside) static 192.168.100.100
Regular Static PAT static (inside,outside) tcp 192.168.100.100 80 10.1.1.16 8080 netmask 255.255.255.255	object network obj-10.1.1.16 host 10.1.1.16 nat (inside,outside) static 192.168.100.100 service tcp 8080 www
Static Policy NAT access-list NET1 permit ip host 10.1.2.27 10.76.5.0 255.255.255.224 static (inside,outside) 192.168.100.100 access-list NET1	object network obj-10.1.2.27 host 10.1.2.27 object network obj-192.168.100.100 host 192.168.100.100 object network obj-10.76.5.0 subnet 10.76.5.0 255.255.255.224 nat (inside,outside) source static obj-10.1.2.27 obj-192.168.100.100 destination static obj-10.76.5.0 obj-10.76.5.0

Pre-8.3 NAT	8.3 NAT
Regular Dynamic PAT nat (inside) 1 192.168.1.0 255.255.255.0 nat (dmz) 1 10.1.1.0 255.255.255.0 global (outside) 1 192.168.100.100	object network obj-192.168.1.0 subnet 192.168.1.0 255.255.255.0 nat (inside,outside) dynamic 192.168.100.100 object network obj-10.1.1.0 subnet 10.1.1.0 255.255.255.0 nat (dmz,outside) dynamic 192.168.100.100
Regular Dynamic PAT nat (inside) 1 10.1.2.0 255.255.255.0	object network obj-10.1.2.0 subnet 10.1.2.0 255.255.255.0

<pre>global (outside) 1 192.168.100.100 global (dmz) 1 192.168.1.1</pre>	<pre>nat (inside,outside) dynamic 192.168.100.100 object network obj-10.1.2.0-01 subnet 10.1.2.0 255.255.255.0 nat (inside,dmz) dynamic 192.168.1.1</pre>
<p>Regular Dynamic PAT-3</p> <pre>nat (inside) 1 0 0 global (outside) 1 interface</pre>	<pre>object network obj_any subnet 0.0.0.0 0.0.0.0 nat (inside,outside) dynamic interface</pre>
<p>Dynamic Policy NAT</p> <pre>object-group network og-net-src network-object 192.168.1.0 255.255.255.0 network-object 192.168.2.0 255.255.255.0 object-group network og-net-dst network-object 192.168.200.0 255.255.255.0 object-group service og-ser-src service-object tcp gt 2000 service-object tcp eq 1500 access-list NET6 extended permit object-group og-ser-src object-group og-net-src object-group og-net-dst nat (inside) 10 access-list NET6 global (outside) 10 192.168.100.100</pre>	<pre>object network obj-192.168.100.100 host 192.168.100.100 object service obj-tcp-range-2001-65535 service tcp destination range 2001 65535 object service obj-tcp-eq-1500 service tcp destination eq 1500 nat (inside,outside) source dynamic og-net-src obj-192.168.100.100 destination static og-net-dst og-net-dst service obj-tcp-range-2001-65535 obj-tcp-range-2001-65535 nat (inside,outside) source dynamic og-net-src obj-192.168.100.100 destination static og-net-dst og-net-dst service obj-tcp-eq-1500 obj-tcp-eq-1500</pre>
<p>Policy Dynamic NAT (with multiple ACEs)</p> <pre>access-list ACL_NAT permit ip 172.29.0.0 255.255.0.0 192.168.1.0 255.255.255.0 access-list ACL_NAT permit ip 172.29.0.0 255.255.0.0 192.168.2.0 255.255.255.0 access-list ACL_NAT permit ip 172.29.0.0 255.255.0.0 192.168.3.0 255.255.255.0 access-list ACL_NAT permit ip 172.29.0.0 255.255.0.0 192.168.4.0 255.255.255.0 nat (inside) 1 access-list ACL_NAT</pre>	<pre>object network obj-172.29.0.0 subnet 172.29.0.0 255.255.0.0 object network obj-192.168.100.100 host 192.168.100.100 object network obj-192.168.1.0 subnet 192.168.1.0 255.255.255.0 object network obj-192.168.2.0 subnet 192.168.2.0 255.255.255.0 object network obj-192.168.3.0 subnet 192.168.3.0 255.255.255.0 object network obj-192.168.4.0 subnet 192.168.4.0 255.255.255.0 nat (inside,outside) source dynamic obj-172.29.0.0 obj-192.168.100.100</pre>

<pre>global (outside) 1 192.168.100.100</pre>	<pre>destination static obj-192.168.1.0 obj-192.168.1.0 nat (inside,outside) source dynamic obj-172.29.0.0 obj-192.168.100.100 destination static obj-192.168.2.0 obj-192.168.2.0 nat (inside,outside) source dynamic obj-172.29.0.0 obj-192.168.100.100 destination static obj-192.168.3.0 obj-192.168.3.0 nat (inside,outside) source dynamic obj-172.29.0.0 obj-192.168.100.100 destination static obj-192.168.4.0 obj-192.168.4.0</pre>
<p>Outside NAT</p> <pre>global (inside) 1 10.1.2.30-1-10.1.2.40 nat (dmz) 1 10.1.1.0 255.255.255.0 outside static (inside,dmz) 10.1.1.5 10.1.2.27 netmask 255.255.255.255</pre>	<pre>object network obj-10.1.2.27 host 10.1.2.27 nat (inside,dmz) static 10.</pre>
<p>NAT & Interface PAT together</p> <pre>nat (inside) 1 10.1.2.0 255.255.255.0 global (outside) 1 interface global (outside) 1 192.168.100.100-192.168.100.200</pre>	<pre>object network obj-192.168.100.100_192.168.100.200 range 192.168.100.100 192.168.100.200 object network obj-10.1.2.0 subnet 10.1.2.0 255.255.255.0 nat (inside,outside) dynamic obj-192.168.100.100_192.168.100.200 interface</pre>
<p>NAT & Interface PAT with additional PAT together</p> <pre>nat (inside) 1 10.0.0.0 255.0.0.0 global (outside) 1 192.168.100.1-192.168.100.200 global (outside) 1 interface global (outside) 1 192.168.100.210</pre>	<pre>object network obj-192.168.100.100_192.168.100.200 range 192.168.100.100 192.168.100.200 object network obj-10.0.0.0 subnet 10.0.0.0 255.0.0.0 object network second-pat host 192.168.100.210 object-group network dynamic-nat-pat network-object object obj-192.168.100.100_192.168.100.200 network-object object second-pat nat (inside,outside) dynamic dynamic-nat-pat interface</pre>
<p>Static NAT for a Range of Ports</p> <p>Not Possible - Need to write multiple Statements or perform a Static one-to-one NAT</p>	<pre>(in) (out) 10.1.1.1-----ASA----- --xlate-----> 10.2.2.2 Original Ports: 10000 - 10010 Translated ports: 20000 - 20010 object service ports service tcp source range 10000 10010</pre>

```
object service ports-xlate
service tcp source range 20000 20010

object network server
host 10.1.1.1

object network server-xlate
host 10.2.2.2

nat (inside,outside) source static server server-xlate service ports ports-x
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