



ASA Deep Dive



NAT



Configuring Dynamic PAT

- ▶ Dynamic PAT translates a group of real addresses to a single mapped address that is routable on the destination network.
- ▶ Uni-directional (The source IP and source port is translated)
- ▶ Dynamic PAT

- Example 1

- In this example when 10.0.0.0 who is behind inside segment accesses any destination on the outside segment, the source 10.0.0.0/24 would be translated to ip 20.0.0.1 and source port no would be randomly assigned. The destination Port and Destination IP remains unchanged.

```
ASAx1(config)# sh run object  
object network OBJECT-REAL  
  subnet 10.0.0.0 255.255.255.0  
object network OBJECT-MAPPED  
  host 20.0.0.1
```

```
ASAx1(config)# sh run nat  
nat (INSIDE,OUTSIDE) source dynamic OBJECT-REAL OBJECT-MAPPED
```

Configuring Dynamic PAT

► Dynamic PAT

• Example 2

- In this example when 10.0.0.0 who is behind inside segment accesses any destination on the outside segment for destination port telnet, the source 10.0.0.0/24 would be pat translated to ip 20.0.0.1 and source port no would be randomly assigned.

```
ASAx1(config)# sh run object
object network OBJ-REAL
  subnet 10.0.0.0 255.255.255.0
object network OBJ-MAPPED
  host 20.0.0.1
object service 023
  service tcp destination eq telnet
```

```
ASAx1(config)# sh run nat
nat (INSIDE,OUTSIDE) source dynamic OBJ-REAL OBJ-MAPPED service 023 023
```