# ASA Deep Dive

# NAT

# Configuring Twice NAT

▷ Twice NAT translates both, the source and the destination in both direction.

▷ Twice NAT is bi-directional.

▷ Twice NAT is mainly used for exempting VPN traffic from NAT.

▷ Twice NAT can also be used with service objects.

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▷ Twice NAT.

- Example 1

  - In this example when the source 192.168.65.3 that is behind inside segment accesses the destination R4 locally on 192.168.65.4, the source 192.168.65.3 would be translated to ip 74.0.0.3 and the destination 192.168.65.4 would be translated to 74.0.0.4. The Source Port and Destination Port remains unchanged.

  - Also when the source 74.0.0.4 from the outside segment accesses the public translated ip 74.0.0.3 the destination 74.0.0.3 would be translated to private ip 192.168.65.3 and the source would be translated from 74.0.0.4 to 192.168.65.4. However you would need an access-list to permit from a lower security level to a higher security level.

```
ASAx1(config)# sh run object
object network R3internal
 host 192.168.65.3
object network R3public
 host 74.0.0.3
object network R4public
 host 74.0.0.4
object network R4internal
 host 192.168.65.4

ASAx1(config)# sh run nat
nat (INSIDE,OUTSIDE) source static R3internal R3public destination static R4internal R4public
```