

## Solution to Contest #1 – Cisco IOS ZBF and NAT

```
ip access-list extended OUT_TO_IN_ACL
  permit icmp host 192.168.13.3 host 192.168.12.2
!
class-map type inspect match-any IN_TO_OUT_CMAP
  match protocol tcp
  match protocol udp
  match protocol icmp
class-map type inspect match-all OUT_TO_IN_CMAP
  match access-group name OUT_TO_IN_ACL
!
policy-map type inspect IN_TO_OUT_PMAP
  class type inspect IN_TO_OUT_CMAP
    inspect
  class class-default
    drop
policy-map type inspect OUT_TO_IN_PMAP
  class type inspect OUT_TO_IN_CMAP
    inspect
  class class-default
    drop
!
zone security inside
zone security outside
!
zone-pair security ZP_IN_TO_OUT source inside destination outside
  service-policy type inspect IN_TO_OUT_PMAP
zone-pair security ZP_OUT_TO_IN source outside destination inside
  service-policy type inspect OUT_TO_IN_PMAP
!
interface fa0/0
  ip address 192.168.12.1 255.255.255.0
  ip nat inside
  zone-member security inside
!
interface fa0/1
  ip address 192.168.13.1 255.255.255.0
  ip nat outside
  zone-member security outside
!
ip nat inside source static 192.168.12.2 192.168.13.2
ip nat outside source static 192.168.13.3 192.168.12.3 add-route
```