## **Prerequisites**

➤ Lab 7-- passed all tests and got all the points

## Machine-A/Router

- 1. Allow the appropriate DHCP traffic to/from 100.64.N.0/24 & 10.21.32.0/24 (So your other machines can get their configs).
  - > Done in previous lab
- 2. Deny your users access to Facebook from any machine on your network. You need not block all Facebook IP addresses, just the one you receive from a one-time resolve of facebook.com.
  - > Done in previous lab
- 3. Deny your users access to icanhas.cheezburger.com and cheezburger.com. Again, you need not block all such IP addresses, just the ones you receive from a one-time resolve.
  - ➤ Done in previous lab

## ens192 internet facing, ens224 DMZ, ens256 internal files

- 4. Only forward packets to/from machines behind the router, based on the intended purpose of that specific machine. In other words, there should be rules on Machine A that mimic the rules for Machines B-F. This is an added layer of security in case the firewall on one of the other machines is inadvertently dropped.
  - ➤ iptables -N FORWARD && iptables -A FORWARD -d 157.240.28.35 -j DROP && iptables -A FORWARD -s 157.240.28.35 -j DROP && iptables -A FORWARD -d 216.176.186.210 -j DROP && iptables -A FORWARD -s 216.176.186.210 -j DROP && service iptables save
  - ▶ iptables -N ITODMZ && iptables -N DMZTOI && iptables -N ITOLOC && iptables -N LOCTOI && iptables -N LOCTODMZ && iptables -N DMZTOLOC
  - ➤ iptables -A FORWARD -p icmp -j ICMP-ALLOW
  - ▶ iptables -A FORWARD -i ens192 -o ens224 -j ITODMZ && iptables -A FORWARD -i ens192 -o ens256 -j ITOLOC && iptables -A FORWARD -o ens192 -i ens224 -j DMZTOI && iptables -A FORWARD -o ens192 -i ens256 -j LOCTOI && iptables -A FORWARD -o ens256 -i ens224 -j DMZTOLOC && iptables -A FORWARD -o ens224 -i ens256 -j LOCTODMZ
  - ▶ iptables -A LOCTODMZ -p tcp --dport=22 -j SSH-ALLOW && iptables -A ITODMZ -p tcp --dport=22 -j SSH-ALLOW
  - > iptables -A FORWARD -m conntrack --ctstate ESTABLISHED,RELATED -j ACCEPT
  - > service iptables save
  - iptables -A DMZTOI -p tcp -m multiport --dport 21,22 -s 100.64.12.3 -j ACCEPT
  - ➢ iptables -A ITODMZ -p tcp -m multiport --dport 80,443 -d 100.64.12.2,100.64.12.5 -j
    ACCEPT && iptables -A LOCTODMZ -p tcp -m multiport --dport 80,443 -d
    100.64.12.2,100.64.12.5 -j ACCEPT
  - ➤ iptables -A DMZTOI -p udp --dport=53 -s 100.64.12.0/24 -j ACCEPT
  - ➤ iptables -A LOCTOI -s 10.21.32.0/24 -j ACCEPT
  - ➤ iptables -A ITODMZ -p udp --dport=53 -d 100.64.12.4 -j ACCEPT && iptables -A LOCTODMZ -p udp --dport=53 -d 100.64.12.4 -j ACCEPT && service iptables save
  - > SET EVERYTHING ELSE TO DROP:
    - iptables -A ITODMZ -j DROP && iptables -A ITOLOC -j DROP && iptables -A LOCTODMZ -j DROP && iptables -A LOCTOI -j DROP && iptables -A DMZTOI -j DROP && iptables -A DMZTOLOC -j DROP && service iptables save

0 '	turning o	ff machir	dig, ssh, a ne firewall l to be wo	s, and wat	tched pack	ent pathwa ets reboote	ys from difed and repea	ferent mach nted checkin	nines, ng and