Estudo Técnico: Ping Sweep

- + Alguns hosts podem estar ativos, mas não responder ao ping por ter algum firewall que bloqueie o protocolo icmp.
- + O objetivo dessa aula foi fazer a captura [com o tcpdump] e análise do envio de pacotes icmp setados pelo ping numa rede interna.
- + Basicamente, quando o host está com as regras de firewall desligadas, podemos ver a resposta do protocolo icmp

```
PING 172.16.1.5 (172.16.1.5) 56(84) bytes of data.
64 bytes from 172.16.1.5: icmp_seq=1 ttl=63 time=275 ms
--- 172.16.1.5 ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 8ms
rtt min/avg/max/mdev = 274.838/274.838/274.838/0.000 ms
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+ Quando o host está ativo mas o firewall impede o input de icmp, não consequiremos ver a ICMP echo reply



+ Quando o firewall estiver configurado para rejeitar (nem aceitar [accept], nem bloquear [drop]), poderemos ver uma echo reply dizendo que a porta está fechada

```
iptables -A INPUT -p icmp -j REJECT
```

```
root@pentest:-# ping -cl 172.16.1.5
PING 172.16.1.5 (172.16.1.5) 56(84) bytes of data.
From 172.16.1.5 icmp_seq=1 Destination Port Unreachable
--- 172.16.1.5 ping statistics ---
1 packets transmitted, 0 received, +1 errors, 180% packet loss, time 0ms

root@pentest:-#

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Penetration Testing

root@pentest:-#

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root@pentest:-# tcpdump -vn -i tun0 host 172.90.0.151 and 172.16.1.5
tcpdump: listening on tun0, link-type RAW (Raw IP), capture size 262144 bytes
01:16:05.053182 IP (tos 0x0, ttl 64, id 61328, offset 0, flags [0F], proto ICMP (1), length 84)
172.90.0.151 > 172.16.1.5: ICMP echo request, id 5175, seq 1, length 64
01:16:05.297312 IP (tos 0x0, ttl 63, id 61328, offset 0, flags [none], proto 172.16.1.5 > 172.90.0.151: ICMP 172.16.1.5 protocol 1 port 63344 unreachab
IP (tos 0x0, ttl 63, id 61328, offset 0, flags [0F], proto ICMP (1), length 64
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