IP Spoofing Prevention

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udp.py
                                t.py
                                                 tcppacketcreation.py
                                                                         ipspoofingprevention.py ×
ICMP.py
home > kali > 💠 ipspoofingprevention.py > ..
       from scapy.all import sniff, IP
       def packet_callback(packet):
  4
           if IP in packet:
  5
                source_ip = packet[IP].src
  6
                dest ip = packet[IP].dst
                # Check if the source IP is from a range it shouldn't be
                # Replace "10.0.0.0/8" with appropriate network range
  9
 10
                if source ip.startswith("10.") and dest ip != "192.168.56.1":
                    print(f"Possible IP spoofing: Source IP {source ip} not valid for this network")
 11
 12
 13
       sniff(prn=packet_callback, store=0)
                                     TERMINAL
PROBLEMS
           OUTPUT
                     DEBUG CONSOLE
                                               PORTS
Possible IP spoofing: Source IP 10.0.2.15 not valid for this network Possible IP spoofing: Source IP 10.0.2.15 not valid for this network
```

These can be implemented in practice using router configurations or firewall rules, for example:

Ingress Filtering: This is applied by network routers or firewalls to check incoming traffic and block packets with source addresses that shouldn't come from outside the network.

Egress Filtering: This is used to inspect outgoing traffic from the network and prevent packets with forged source IP addresses from leaving the network. This ensures that no one inside your network is spoofing an IP address.