



Python for Pentesters

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Python is probably the most widely used and most convenient scripting language in cybersecurity. This room covers real examples of Python scripts including hash cracking, key logging, enumeration and scanning.

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Difficulty: Easy

Active Machine Information				
Title	IP Address	Expires		
Py4PT2	10.10.96.99	1h 41m 01s	?	Add 1 hour Terminate

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- Task 1 Introduction
- Task 2 Subdomain Enumeration
- Task 3 Directory Enumeration
- Task 4 Network Scanner

Python can be used to build a simple ICMP (Internet Control Message Protocol) scanner to identify potential targets on the network. However, ICMP packets can be monitored or blocked as the target organization would not expect a regular user to “ping a server”. On the other hand, systems can be configured to not respond to ICMP requests. These are the main reasons why using the ARP (Address Resolution Protocol) to identify targets on the local network is more effective.

The code:

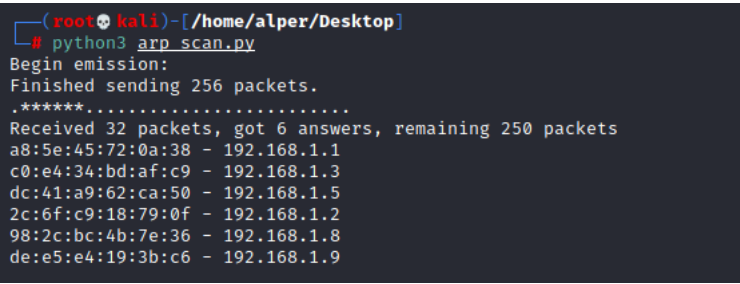
```
from scapy.all import *

interface = "eth0"
ip_range = "10.10.X.X/24"
broadcastMac = "ff:ff:ff:ff:ff:ff"

packet = Ether(dst=broadcastMac)/ARP(pdst = ip_range)

ans, unans = srp(packet, timeout =2, iface=interface, inter=0.1)

for send,receive in ans:
    print (receive.sprintf(r"%Ether.src% - %ARP.psrc%"))
```



If you are using the AttackBox, you will need to install Scapy first. This can easily be done using the " `apt install python3-scapy` " command.

```
root@ip-10-10-143-223:~# apt install python3-scapy
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libjs-sphinxdoc libjs-underscore
Suggested packages:
  python3-matplotlib ipython3
The following NEW packages will be installed
  libjs-sphinxdoc libjs-underscore python3-scapy
```

Answer the questions below

What module was used to create the ARP request packets?

scapy

Correct Answer

💡 Hint

Which variable would you need to change according to your local IP block?

ip_range

Correct Answer

💡 Hint

What variable would you change to run this code on a system with the network interface named ens33?

interface

Correct Answer

Task 5 ☐ Port Scanner



Task 6 ☐ File Downloader



Task 7 ☐ Hash Cracker



Task 8 ☐ Keyloggers



Task 9 ☐ SSH Brute Forcing



Task 10 ☐ Extra challenges



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