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                                                                                                                                                             □ ...
       basic_network_sniffer.py ×
(D)
       D: > Internships Files > Codealpha_basic_network_sniffing Task1 > 💠 basic_network_sniffer.py
          1 import socket
Q
وړ
               print("Admin rights:", ctypes.windll.shell32.IsUserAnAdmin())
# SCAPY TEST BLOCK  Run once at start to verify Scapy works
☆
                    from scapy.all import sniff
留
                    def test_scapy(packet):
                         print("Scapy is working! Example Packet:", packet.summary())
                   print(" Verifying Scapy installation...")
sniff(count=1, prn=test_scapy, store=False)
               except ImportError
                   print("Scapy is not installed. Please run: pip install scapy")
               # Raw socket-based sniffer (Windows-compatible)
(Q)
                   return '.'.join(map(str, addr))
£553
               def parse ip header(data):

    Restricted Mode ⊗ 0 ▲ 0

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Administrator: Windows PowerShell
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\Windows\system32> & "C:/Program Files/Python313/python.exe" "d:/Internships Files/CyberSecurity Int
ernship 1 - Copy/basic network sniffer.py"
>> & "C:/Program Files/Python313/python.exe" "d:/Internships Files/CyberSecurity Internship 1 - Copy/basi
c_network_sniffer.py"
Admin rights: 1
Verifying Scapy installation...
Scapy is working! Example Packet: Ether / IP / TCP 192.168.100.4:51797 > 4.213.25.242:https PA / Raw
 Raw Socket Sniffer Running on 192.168.56.1 (Windows) - Press Ctrl+C to stop
 IPv4 Packet: 192.168.56.1 → 192.168.56.255, Protocol: 17, TTL: 128
 UDP: 192.168.56.1:137 → 192.168.56.255:137, Length=50
 IPv4 Packet: 192.168.56.1 → 192.168.56.255, Protocol: 17, TTL: 128
 UDP: 192.168.56.1:137 → 192.168.56.255:137, Length=50
 IPv4 Packet: 192.168.56.1 → 192.168.56.255, Protocol: 17, TTL: 128
 UDP: 192.168.56.1:137 → 192.168.56.255:137, Length=50
 IPv4 Packet: 192.168.56.1 → 192.168.56.255, Protocol: 17, TTL: 128
 UDP: 192.168.56.1:137 → 192.168.56.255:137, Length=50
 IPv4 Packet: 192.168.56.1 → 192.168.56.255, Protocol: 17, TTL: 128
 UDP: 192.168.56.1:137 → 192.168.56.255:137, Length=50
 IPv4 Packet: 192.168.56.1 → 192.168.56.255, Protocol: 17, TTL: 128
 UDP: 192.168.56.1:137 → 192.168.56.255:137, Length=50
 IPv4 Packet: 192.168.56.1 → 224.0.0.251, Protocol: 17, TTL: 1
 UDP: 192.168.56.1:5353 → 224.0.0.251:5353, Length=190
```

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∠ Search

 Windows PowerShell
                                                                                        basic_network_sniffer.py X
Copyright (C) Microsoft Corporation. All rights reserved.
                                                                                         D: > Internships Files > Codealpha_basic_network_sniffing Task1 > 💠 basic_network_sniffer.py
Install the latest PowerShell for new features and improvem ents! https://aka.ms/PSWindows
                                                                                  Q
                                                                                                import socket
                                                                                                 import struct
PS C:\Windows\system32> & "C:/Program Files/Python313/pytho
                                                                                 مړ
n.exe" "d:/Internships Files/CyberSecurity Internship 1 - C
ppy/basic_network_sniffer.py"
>> & "C:/Program Files/Python313/python.exe" "d:/Internship
                                                                                                print("Admin rights:", ctypes.windll.shell32.IsUserAnAdmin())
# SCAPY TEST BLOCK  Run once at start to verify Scapy works
                                                                                 $
                                                                                                    from scapy.all import sniff
                                                                                 出
 dmin rights: 1
                                                                                                     def test_scapy(packet):
Verifying Scapy installation...
Scapy is working! Example Packet: Ether / IP / TCP 192.168.
100.4:51797 > 4.213.25.242:https PA / Raw
                                                                                                         print("Scapy is working! Example Packet:", packet.summary())
                                                                                                    print(" Verifying Scapy installation...")
sniff(count=1, prn=test_scapy, store=False)
Raw Socket Sniffer Running on 192.168.56.1 (Windows) — Press Ctrl+C to stop
                                                                                          16 v except ImportError:
                                                                                                  print("Scapy is not installed. Please run: pip install scapy")
 IPv4 Packet: 192.168.56.1 → 192.168.56.255, Protocol: 17,
 UDP: 192.168.56.1:137 → 192.168.56.255:137, Length=50
 IPv4 Packet: 192.168.56.1 → 192.168.56.255, Protocol: 17,
                                                                                                # Raw socket-based sniffer (Windows-compatible)
TL: 128
UDP: 192.168.56.1:137 → 192.168.56.255:137, Length=50
 IPv4 Packet: 192.168.56.1 → 192.168.56.255, Protocol: 17,
                                                                                           25 v def ipv4(addr):
                                                                                 (8)
                                                                                                    return '.'.join(map(str, addr))
 UDP: 192.168.56.1:137 → 192.168.56.255:137, Length=50
                                                                                               # Parse the IP header
                                                                                 £653
 IPv4 Packet: 192.168.56.1 → 192.168.56.255, Protocol: 17,
                                                                                          29 ∨ def parse_ip_header(data):
 TL: 128
                                                                                                                                       Ln 1, Col 1 Spaces: 4 UTF-8 CRLF () Python 😝 🚨
                                                                                 ➤ Restricted Mode ⊗ 0 🛦 0
```