

✅ How to Run a Packet Sniffer Script Using Scapy on Windows

📖 Requirements

- Python installed
- Scapy library
- Npcap (needed for sniffing packets)
- Admin privileges to run scripts

🔧 Step-by-Step Setup

1. ✅ **Install Python (if not installed)**

Download and install Python from:

<https://www.python.org/downloads/>

During installation, make sure to check:

☒ Add Python to PATH

2. ✅ **Install Scapy**

Open **Command Prompt** and run:

```
```bash
```

```
pip install scapy
```

```
```
```

If `pip` is not recognized, use:

```
```bash
```

```
python -m pip install scapy
```

#### 3. ⚠️ \*\*Install Npcap\*\*

Scapy uses \*\*Npcap\*\* (or WinPcap) to access low-level packet data.

- Download from: [<https://npcap.com/#download>](<https://npcap.com/#download>)

- During installation, make sure to check:

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☒ Install Npcap in WinPcap API-compatible Mode

#### 4. 🏠 \*\*Run the Script with Admin Rights\*\*

Your code (e.g., `Packet\_Sniffing.py`) needs to be run as **\*\*Administrator\*\***.


Open Command Prompt as admin:

- Search `cmd` in Start menu
- Right-click → "Run as Administrator"

Then run:

```
```bash
```

```
python Packet_Sniffing.py
```

 Optional: Fix Error Without Npcap (Layer 3 fallback)

If you can't install Npcap, change this:

```
```python
```

```
sniff(prn=analyze_packet, count=10)
```

```
```
```

To:

```
```python
```

```
from scapy.config import conf
```

```
conf.L2socket = conf.L3socket
```

```
sniff(prn=analyze_packet, count=10)
```

```
```
```

It's a workaround using Layer 3 (IP level only).

 Final Output

Once setup is done, you'll see packet details like:

```
```
```

Source Port: 80

Destination Port: 50135

