

UDP Packet Creation with socket

```
ramya@kali-  
File Actions Edit View Help  
[sudo] password for ramya:  
Get:1 http://kali.download/kali kali-rolling InRelease [41.5 kB]  
Get:2 http://kali.download/kali kali-rolling/main amd64 Packages [19.8 MB]  
Get:3 http://kali.download/kali kali-rolling/main amd64 Contents (deb) [47.7 MB]  
Get:4 http://kali.download/kali kali-rolling/contrib amd64 Packages [106 kB]  
Get:5 http://kali.download/kali kali-rolling/contrib amd64 Contents (deb) [266 kB]  
Get:6 http://kali.download/kali kali-rolling/non-free amd64 Packages [192 kB]  
Get:7 http://kali.download/kali kali-rolling/non-free amd64 Contents (deb) [862 kB]  
Fetched 69.8 MB in 27s (2546 kB/s)  
935 packages can be upgraded. Run 'apt list --upgradable' to see them.  
--(ramya@kali)-  
└─$ sudo apt install python3 python3-pip  
python3 is already the newest version (3.11.8-1).  
python3 set to manually installed.  
Upgrading:  
libjs-sphinxdoc python3-pip python3-pip-whl  
Summary:  
Upgrading: 3, Installing: 0, Removing: 0, Not Upgrading: 932  
Download size: 3086 kB  
Free space: 428 kB  
Continue? [Y/n] y  
Get:1 http://mirrors.ocf.berkeley.edu/kali kali-rolling/main amd64 libjs-sphinxdoc all 7.4.7-3 [158 kB]  
Get:2 http://http.kali.org/kali kali-rolling/main amd64 python3-pip all 24.2+dfsg-1 [1434 kB]  
Get:3 http://http.kali.org/kali kali-rolling/main amd64 python3-pip-whl all 24.2+dfsg-1 [1494 kB]  
Fetched 3086 kB in 1s (2182 kB/s)  
(Reading database ... 399860 files and directories currently installed.)  
Preparing to unpack .../libjs-sphinxdoc_7.4.7-3_all.deb ...  
Unpacking libjs-sphinxdoc (7.4.7-3) over (7.2.6-6) ...  
Preparing to unpack .../python3-pip_24.2+dfsg-1_all.deb ...  
Unpacking python3-pip (24.2+dfsg-1) over (24.0+dfsg-2) ...  
Preparing to unpack .../python3-pip-whl_24.2+dfsg-1_all.deb ...  
Unpacking python3-pip-whl (24.2+dfsg-1) over (24.0+dfsg-2) ...  
Setting up python3-pip-whl (24.2+dfsg-1) ...  
Setting up python3-pip (24.2+dfsg-1) ...  
Setting up libjs-sphinxdoc (7.4.7-3) ...  
Processing triggers for man-db (2.12.1-1) ...  
Processing triggers for kali-menu (2023.4.7) ...  
--(ramya@kali)-  
└─$ nano my_script.py  
--(ramya@kali)-  
└─$
```

```
Text Editor  
File Edit Simple Text Editor Help  
ramya@kali-  
my_script.py *  
import socket  
  
def send_udp_packet(ip, port, message):  
    # Create a new UDP socket  
    sock = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)  
    try:  
        # Send the packet  
        sock.sendto(message.encode('utf-8'), (ip, port))  
        print(f'Sent packet to {ip}:{port} with message: {message}')  
    finally:  
        # Close the socket  
        sock.close()  
  
if __name__ == '__main__':  
    target_ip = '127.0.0.1' # Change this to the desired IP address  
    target_port = 12345 # Change this to the desired port  
    message = 'Hello, World!'  
    send_udp_packet(target_ip, target_port, message)
```

```
GNU nano 8.0 my_script.py
import socket

def send_udp_packet(ip, port, message):
    # Create a UDP socket
    sock = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)
    try:
        # Send the packet
        sock.sendto(message.encode("utf-8"), (ip, port))
        print(f'Sent packet to {ip}:{port} with message: {message}')
    finally:
        # Close the socket
        sock.close()

if __name__ == "__main__":
    target_ip = "8.8.8.8" # Change this to the desired IP address
    target_port = 53 # Change this to the desired port
    message = "Hello, Google DNS"
    send_udp_packet(target_ip, target_port, message)
```

```
(ramya@kali) ~$ nano my_script.py
(ramya@kali) ~$ nano my_script.py
(ramya@kali) ~$ nano my_script.py
(ramya@kali) ~$ python3 my_script.py
Sent packet to 8.8.8.8:53 with message: Hello, Google DNS
(ramya@kali) ~$ wireshark
** (Wireshark:17676) 02:37:14.824877 [Capture MESSAGE] -- Capture Start ...
** (Wireshark:17676) 02:37:14.82837 [Capture MESSAGE] -- Capture started
** (Wireshark:17676) 02:37:14.873052 [Capture MESSAGE] -- File: /tmp/wireshark_eth0D0A972.pcapng
** (Wireshark:17676) 02:33:53.483457 [Capture MESSAGE] -- Capture Stop ...
** (Wireshark:17676) 02:33:53.444054 [Capture MESSAGE] -- Capture stopped
** (Wireshark:17676) 02:33:53.444078 [Capture WARNING] ./ui/capture.c:722 -- capture_input_closed():
** (Wireshark:17676) 02:33:57.297624 [Capture MESSAGE] -- Capture Start ...
** (Wireshark:17676) 02:33:57.298429 [Capture MESSAGE] -- Capture started
** (Wireshark:17676) 02:33:57.298477 [Capture MESSAGE] -- File: /tmp/wireshark_eth0VTW72.pcapng
** (Wireshark:17676) 02:34:48.989238 [Capture MESSAGE] -- Capture Stop ...
** (Wireshark:17676) 02:34:48.956696 [Capture MESSAGE] -- Capture stopped.
** (Wireshark:17676) 02:34:48.957017 [Capture WARNING] ./ui/capture.c:722 -- capture_input_closed():
^C
(ramya@kali) ~$ nano my_script.py
(ramya@kali) ~$ python3 my_script.py
Sent packet to 127.0.0.1:12345 with message: Hello, python user
(ramya@kali) ~$ wireshark
** (Wireshark:28443) 02:37:48.948913 [Capture MESSAGE] -- Capture Start ...
** (Wireshark:28443) 02:37:48.985164 [Capture MESSAGE] -- Capture started
** (Wireshark:28443) 02:37:48.985191 [Capture MESSAGE] -- File: /tmp/wireshark_eth0S06B02.pcapng
```