

# Python Public IP in Linux

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Time required: 30 minutes

## Python in Linux

Python3 is installed in most common Linux distributions. This tutorial is based on using Kali Linux. This Python program can be executed on any OS.

**NOTE:** Commands, filenames, and directories are case sensitive in Linux.

## Public IP CLI

1. Logon to Kali Linux.
2. Start a Terminal session.

Geany is a simple IDE that we will use to code our Python program.

3. Install Geany: **sudo apt install geany**

You are in your home directory. We are going to make a folder to store our Python programs.

4. Create a folder: **mkdir Code**
5. Change to Code folder: **cd Code**

We are going to launch Geany and create our Python program file in the same command.

6. **geany public\_ip.py**
7. The Geany IDE will open with public\_ip\_cli.py

Python does not like mixing up spaces and tabs. This setting will tell Geany to use spaces if you use the tab key to indent the code.

8. In Geany: Go to the **Edit** menu → **Preferences** → **Editor** → **Indentation**.

9. Set the **Type:** to **Spaces**.

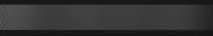
10. Add the following code to the file.

```
1  """
2  Name: public_ip_cli.py
3  Author:
4  Created:
5  Purpose: Get Public IP address from api.ipify.org
6  """
7
8  # Import the requests module
9  # pip install requests # Windows
10 # pip3 install requests # Linux
11 from requests import get
12
13 # URL for Public IP requests
14 API_URL = "https://api.ipify.org"
15
16
17 def main():
18     # Use requests get() function with the parameter of the API_URL
19     # This will return a response object
20     response = get(API_URL)
21
22     # Get the public IP value from the response text
23     # The response text is a string containing the public IP address
24     public_ip = response.text
25
26     # Print the public IP address
27     print(f"Your public IP address: {public_ip}")
28
29
30 # Call the main method to start the program
31 main()
```

To run the program in Linux: At a terminal session: **python3 public\_ip\_cli.py**

Example run

The IP address has been masked for security reasons.

Your public IP address: 

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## Assignment Submission

Linux has Firefox as a web browser. You can use that to submit your code file.

1. Attach your code file.
2. Attach a screenshot of each successful program run.
3. Submit the assignment in Blackboard.