# WELCOME TO CLASS 2! BLACK HAT PYTHON3 RALEIGH ISSA

### LOGISTICS

- Web class Wednesdays 7:00 8:30 EDT
- Discord Channel to help each other https://discord.gg/WR23qUj
- Discord Office Hour Monday, 7:00 8:00
- Direct message on Discord or email: tim@reachtim.com
- GitHub Repo of class materials/updated code https://github.com/tiarno/bhp3\_class

# RECORDING FROM LAST CLASS

https://www.dropbox.com/s/a0sx0k69siy10ia/2018-07-18%2019.00%20Raleigh%20ISSA%20-%20Blackhat%20Python%20Class%201.mp4?dl=0

### UPDATE

Make sure your repo is up to date on commits and push to github.

#### Then:

```
git remote add upstream https://github.com/tiarno/bhp3_class.g
git fetch upstream
git checkout master
git merge upstream/master
git add -A .
git commit -m "merged upstream changes"
git push
```

# PREVIOUSLY

- os.walk
- lists, queues, deques
- threading

# LET'S CODE!

- Target website uses a popular framework.
- enumerate that website for further attacks.

# enumeration with mapper.py

Demo

# HTTP STATUS CODES

https://www.restapitutorial.com/httpstatuscodes.html

# LET'S CODE!

- Target website uses an unknown architecture.
- enumerate that website for further attacks.

### **TARGET**

http://testphp.vulnweb.com/disclaimer.php

# ONLINE WORDLISTS

https://github.com/DanMcInerney/Probable-Wordlists

https://github.com/danielmiessler/SecLists

(Discovery/Web-Content/SVNDigger)

### KALI WORDLISTS

Demo

**Activity** 

user@kali:/usr/share/wordlists

# enumeration with dirfinder.py

Demo

### try/except/else/finally

```
try:
   something that might cause an error
except SomeError as e:
   print(e)
   dosomething()
else:
   everything_is_fine()
finally:
   cleanup()
```

# LET'S CODE!

- Target website is WordPress.
- Brute force the login page.

### **BytesIO**

https://webkul.com/blog/using-io-for-creating-fileobject/

### **BROWSER DEV TOOLS**

Demo

Activity

http://boodelyboo.com/wordpress

### 1xm1 MODULE AND XPATH

## wp\_killer.py

Demo

# SUMMARY

- mapping an app
- word lists for enumeration
- word lists for password bruteforce
- browser tools
- 1xml for web parsing

#### **READING 1**

- BHP, Chapter 5 (web hacking)
- GitHub Repo: https://github.com/tiarno/bhp3\_class
- PEP-8:

https://www.datacamp.com/community/tutorials/pertutorial-python-code

### **READING 2**

- Requests http://docs.pythonrequests.org/en/master/
- Threading: https://docs.python.org/3.6/library/threading.html
- BytesIO https://webkul.com/blog/using-io-forcreating-file-object/

### **YOUR JOB**

- populate your bhp3\_class/web module
  - mapper.py
  - dirfinder.py
- Can you create a function to return words from a word list? That would let us simplify the dirfinder/wp\_killer code.

### PICK YOUR APP

https://www.makeuseof.com/tag/10-popular-content-management-systems-online/

