

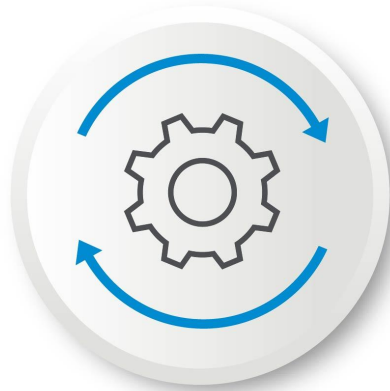


Reverse Engineering

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What is reverse engineering?

1. “Reversing” code to figure how the code script works
2. In CTF, reversing the code in a script will allow us to figure out the flag



What do we need to know first?

1. Learn the following concepts in Python:
 - a. Basic syntax
 - b. Variables
 - c. Loops
 - d. Data types(integers, strings, etc.)
2. Write a Python file in repl.it(they should show that you have learned the topics in Part 1)
3. Upload file contents to website



Reverse engineering also uses bash as well...

1. Learn bash
 - a. Variables
 - b. For loops
2. Write a for loop that prints out numbers 1-10, upload it to the website
3. The script should also store a number in a variable



example.py(level 1)

```
a = "yhpargonagets"
```

```
decoded = ""
```

```
for i in range(len(a)):
```

```
    decoded += a[len(a)-i-1]
```

What is the string decoded?

ChatGPT...

1. Using Chatgpt, you can analyze a lot of these files without much effort
2. However, Chatgpt doesn't always work
3. Use it as a tool to help you understand code
4. Try to use ChatGPT for the code on the previous slide

Thanks for listening!

Next meeting is next week