

Strong Passwords ICA

In CYBR 428, we have discussed system vulnerabilities that can allow attackers to obtain sensitive information. One of the most common vulnerabilities that people face every day is the use of weak passwords. Weak passwords are a MAJOR cybersecurity vulnerability because they make systems and data much more susceptible to unauthorized access by attackers. We want to ensure that you are abiding by best practices for protecting your data by creating strong, unique, memorable passwords.

Step 1: Getting the project files

- Visit this Github repository: <https://github.com/lukecotnoir/cybr428ica.git>
- Clone this project to your local device using terminal or Git Bash.
 - **git clone https://github.com/lukecotnoir/cybr428ica.git**

Step 2: Running the program

- Important: Please do not modify any of the code
- There are 2 python files, but you only need to use login.py.
- You can run the program in one of two ways:
 1. Terminal
 - a. Navigate to the project folder in a terminal or git bash window
 - b. Run the program with **python3 login.py** or **python login.py** depending on which version you have.
 2. Run via an IDE
 - a. Open the cybr428ica project in your IDE.
 - b. Locate and run login.py.

Step 3: Using the program

1. A window will appear asking you to enter a **Username** and **Password**. Use any username (e.g., your name, CNU ID, or email).
2. Use the **dropdown menu** to select a difficulty level. Start with **Easy**, and work your way up to **Epic**.
3. Create a password that meets the requirements for each level. You can click **"Show Password"** to view the one you entered.
 - Remember your password! To complete a level, you'll need to log in again using the same Username and Password.

Step 4: What to turn in

1. After completing each difficulty level, a window will pop up saying: "Completed <difficulty> mode".
2. Screenshot this window for each level you complete, then run login.py again and try the next level.

Tips for Success:

- Easy mode: Think about the strong password recommendations discussed in the slides.
- Hard & Epic mode: Start with your Easy mode password. Follow any feedback prompts given by the program. If you are still stuck, look at **password.py** to see what all the requirements are.
 - The final requirement on Evil mode can be very tricky. You may want to use these websites to help you:
<https://www.browserling.com/tools/text-to-ascii>
<https://www.asciitable.com/>
<https://www.numberempire.com/primenumberstable.php>