

Operation Encryption

Data security is a threat to almost every company in the world, and that includes the government. It is every company's priority to protect and analyze their data, and they have various employees and tools to do so. However, analyzing data takes time and automating the process would give employees more time to analyze the data instead of waiting for the data to be collected after running the collection process. Our project would involve automating this process so the data collection programs could run over the weekend and allow employees to analyze the data when they return on Monday.

With our project, instead of waiting for the data to be collected after running the collection process, employees will be provided more time to analyze data. This project was proposed to be made with Python. Using multi-threading we will integrate three different programs that WSMR are currently using, including NMAP and Gobuster. To accomplish our goals of finishing this project, we will be using Microsoft Teams for communication, command-line Linux, and Visual Studio to write our code unless otherwise specified by WSMR.

The project is targeted towards military personnel who analyze data collected by these programs. The project will assist the target audience in enumerating the data collected during the reconnaissance phase of penetration-testing. The project will utilize three different tools to help users make sense of the raw data collected. Through the use of client feedback sessions, the project team can determine the needs of the target

user group. As a consequence, the team can simultaneously submit the application to the client during the sessions to evaluate the product throughout its development.

Since analyzing data takes time, automating the process would allow more time for data analysis. Our project would involve automating this process so the data collections programs could run over the weekend and allow employees to analyze the data when they return on Monday. Our project is beneficial to everyone at WSMR to keep their information protected. This expands to not only the safety and well being of our area, but our whole country. This project encourages new ways to deal with cyber security, and would be a good learning experience to work with a contractor.

Our team will accomplish the proposed project combining our skills and applying our prior coding experience. Our team has experience with Python and UI creation, and all members of our group have experience in scripting and developing games in Unity. We have also taken Game and Software Development courses, so we have an understanding of design models and processes. When working together to create our game titled Knock Blocks, we were successful in assigning tasks, using version control, and bringing everything back together to form a cohesive and working product.

Resumes:

https://drive.google.com/drive/folders/1tIGv-OPhw7_DJoG-9RX0Pu9dKr7gwSeZ?usp=s

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