Cybersecurity Portfolio Project

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Key Skills: Python scripting, Threat Detection

Project Description

At my organization, access to restricted content is controlled through an allow list of IP addresses stored in 'allow_list.txt'. A separate remove list identifies IPs that should no longer have access. I created a Python algorithm that automates the process of removing unauthorized IP addresses from the allow list.

Key Python Features Used

- The 'with' statement and open() function to handle files safely
- .read() to load file content as a string
- .split() to convert string data into a list
- A for loop to iterate over the remove list
- .remove() to delete IPs from the list
- .join() and .write() to update and save the file

Summary

This algorithm demonstrates the power of Python automation in cybersecurity. It simplifies the task of maintaining access control by programmatically updating files, minimizing human error and saving time. The project showcases the use of Python for file handling, list operations, and conditional logic, aligned with cybersecurity best practices.

GitHub Repository

https://github.com/ZacariahCyberSec