Documentation for “usbwiper3000”

Please execute this in PowerShell.

This Python script aims to manage USB devices in a seamless manner. The order of operations is as follows:

* Detect when USB is inserted.
* Scan the USB using Windows Defender.
* If a virus is detected, a system log is created.
* Start a countdown of 120 seconds.
* Prompt the user with a selection to wipe the USB.
* If yes, wipe and eject.
* If no, eject.
* Repeat.

Main Functions

* While Loop

Uses win32api and win32file to detect when a drive with type removable is inserted into the computer. Appends the drive letter to array “scannableDevices” and calls remaining functions.

* scan()

Saves initial count of files on USB, scans device with Windows Defender, and takes another count of files post-scan. If number of files post-scan is not equal to the initial file count, a virus has been quarantined by Windows Defender. It then creates the event log and prompt user. Prompt will be destroyed after 5 seconds.

* showConfirmationPopup()

Initializes Tkinter window and countdown, and prompts the user with “Do you want to wipe device X?” If the user answers “No”, the device will eject. Otherwise, the code will continue.

* wipeCallback()

The function is required for the wiping of USB devices. It is used to output the result of the wiping functions. It is currently commented, making it useless yet necessary for execution.

* wipeUSBDrive()

The function handles the wiping of the USB. It initializes a critical DLL, and a few other variables necessary for execution. It uses a try catch statement and wipes the USB.