

Ransomware Detector

- This program use **watchdog observer** and looking for changes in the local file and handle each change.
- We use the **assumption** that before activating the tool there is no such threat.
- Use some technique detections such as:
 - Check if new word is valid – by unexpected signs in word.
 - Check if file extension is valid – we assume that the directory contains only .txt files.
 - Sign all the files with magical sign – if changed then it is suspicious.
 - Encryption detection by number of word appearance – following "Shannon Entropy" technique.
 - Limit the number of deletions in period of time.
 - Unexpected file moving – we assume that the files not should move to another directory.