

Minutes of Meeting 4/2/2025

Project Name: CYBER1-CodeVersion

Client Name: Tashi Stirewalt

Date: Apr 2, 2025

Time: 3:30PM - 4:30PM

Location: Microsoft Teams

Attendees: Tashi Stirewalt, Bryan Frederickson, Samantha Brewer

Client Representative: Tashi Stirewalt

Project Team Members: Bryan Frederickson, Samantha Brewer

1. Agenda

Discuss plan for finding malware that is undetected after obfuscation, find other current research in the field to compare against on the paper.

2. Meeting Summary

Introduction:

Bryan Frederickson and Samantha Brewer are seniors at WSU serving as developers for Tashi Stirewalt for the CYBER1-CodeVersion project.

This project is meant to help signature-based intrusion detection by being able to generate semantic copies of known code, to better identify malicious software that has been changed to avoid detection.

Client's Requirements:

Have a malware that goes undetected by antivirus after obfuscation for the paper.

Finish up the app's documentation for the paper's implementation section.

Key Discussion Points:

Discussion Point 1: Bryan looked at Ghidra, static analysis, found open source online virus checker called TotalVirus that lists characteristics found in the file.

Discussion Point 2: Since current logic obfuscation now is naive/simple and doesn't really influence malware, Bryan is working on new techniques to try and get a clone output past the antivirus.

Discussion Point 3: Samantha has finished up the Obfuscator and will now help Bryan find an applicable malware/find other research articles for paper.

Decisions Made:

Bryan and Samantha will focus solely on finding an example of malware that can go undetected after obfuscation. The obfuscation can be done manually to show the application of the program without costing more development time.

Action Items:

Action Item 1: Have malicious code that can be undetected by antivirus – Due by April 5th, 2025

3. Project Milestones Discussed

Paper due April 9, 2025 at midnight.

4. Next Steps

After malware has been identified, begin working on paper, primarily the implementation and methodology sections.

5. Next Meeting

Date: Wednesday, April 9, 2025

Time: 3:30PM - 4:30PM

Location: Microsoft Teams