David Wang

CSE 005

Lassen Group

**Lab 2 03: Research Project Milestone 2 – Subtopic, Citations, and Summaries**

Group Topic: Malware

Sub-topic: Malware detection/prevention

**Source 1:**

Saeed, Imithal A, et al. “A Survey on Malware and Malware Detection Systems.” *International Journal of Computer Applications*, vol. 67, no. 16, Apr. 2013.

[Link to source](https://pdfs.semanticscholar.org/0645/884497d8be3257531026737b791c6614ddb0.pdf) 1

This article was taken out of a volume from the International Journal of Computer Applications, a peer-reviewed publisher. The article’s main focus was to review the progress in anti-malware and malware detection techniques as well as the evolution of malware over time. The article was intended to provide an up-to-date reference for malware-detection developers in 2013. I think that this article is very helpful for understanding how malware and the techniques to prevent and detect malware have advanced over time. This is a good starting point article for learning more about malware detection.

**Source 2:**

Eze, Aru Okureke, and Chiaghana Chukwunoso E. “Malware Analysis and Mitigation in Information Preservation.” *IOSR Journal of Computer Engineering*, vol. 20, no. 4, 2018, pp. 53–62.

[Link to source](https://www.iosrjournals.org/iosr-jce/papers/Vol20-issue4/Version-1/H2004015362.pdf) 2

This article was also taken from a peer-viewed publisher, the IOSR Journal of Computer Engineering. The article has very helpful graphs and charts showing the evolution of malware over time, and even breaks down types of malware into categories such as web browsing, usb thumb drives, and email phishing. The article breaks down each of those categories and has good explanations into the methodology used to infect systems with malware, and also has information on types of malware. The article breaks down the types of malware into explanations on adware, worms, spyware and other types of malware. This article is helpful not only to me in understanding malware, but also to my groupmates who may need more information about malware for their subtopics. Most helpful to my subtopic, the article describes modern malware detection techniques and explains how they work.

**Source 3:**

Gounder, Muni Prashneel, and Mohammed Farik. “New Ways to Fight Malware.” *International Journal of Scientific Technology Research* , vol. 6, no. 6, June 2017.

[Link to source](https://www.ijstr.org/final-print/june2017/New-Ways-To-Fight-Malware.pdf) 3

This article is from a credible, peer-reviewed publisher. The article lists its primary beneficiaries as network engineers, network admins, and students. The article’s focus is on the trends in malware types, attack methods, malware propagation, and most relevant to my topic: malware detection. This article discusses trends in malware types such as mobile malware, trojan horses, and other malware to highlight the need to develop different techniques to combat the rise in malware diversity. The article lists information on techniques such as signature-based detection, behavioral-based detection, and also potential future solutions to countering the propagation of malware.