IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
Impact Factor: 7.301
Volume 3, Issue 1, June 2023

Heuristic Flushing Detection and URL Checking Methodology based on Scraping and Web Crawling

Dr. Aniruddha S. Rumale, Harshal Kanifnath More, Chaitanya Gangadhar Umbarkar, Suyash Sunil Zalte, Radheshyam Rahulbhai Suryavanshi
Department of Information Technology
Sandip Institute of Technology and Research Centre Nashik, India

Abstract: *The Project with the improvement of techniques used by the attackers, , the detection and prevention of threatssuch as phishing and malware can represent problem and computational challenge. In the past, various research studies have tried to identify and classify the factors contributing towards the detection of phishing websites. Recent research has found that phishing and malicious code infection are the main threats triggered by social engineering. In this work, theattack vectors that cause these threats are analyzed, proposinga method of checking specific strings in URLs and e-mail messages, which canbe used in conjunction with proxies and Anti-Spam filters. The method was implemented in an experimental scenario and is capable of detecting the presenceof the main elements that have direct contact with the user, Such as; form fields, redirection of links and downloadable files. Furthermore, the proposed method was able to detect phishing URLs with accuracy values between 73.3% and97.66% with unaverage time of 30 seconds.*

Keywords: Uniform resource locators, Whitelists, Phishing, Unsolicited e-mail, Web pages, Tools, Malware

REFERENCES

[1]. Z. N. Zarandi and I. Sharifi, "Detection and Identification of Cyber-Attacks in Cyber- Physical Systems Based on Machine Learning Methods," 2020 11th International Conference on Information and Knowledge Technology (IKT), 2020

[2]. Nurjahan, F. Nizam, S. Chaki, S. Al Mamun and M. S. Kaiser, "Attack detection and prevention in the Cyber Physical System," 2016 International Conference on Computer Communication and Informatics (ICCCI), 2016, pp. 1-6.

[3]. Ding Chen, Qiseng Yan, Chunwang Wu and Jun Zhao, "SQL Injection Attack Detection and Prevention Techniques Using Deep Learning," Journal of Physics: Conference Series, Volume 1757, International Conference on Computer Big Data and Artificial Intelligence (ICCBDAI 2020) 24-25 October 2020, Changsha, China

[4]. Ercan NurcanYılmaz, SerkanGönen, "Attack detection/prevention systemagainst cyber attack in industrial control systems," Computers & Security Volume 77, August 2018, Pages 94-105

[5]. Arpitha. B, Sharan. R, Brunda. B. M, Indrakumar. D. M, Ramesh. B. E, "Cyber Attack Detection and notifying system using ML Techniques," International Journal of Engineering Science and Computing (IJESC), Volume 11, Issue No.06

[6]. Gupta D, Rani R, "Improving malware detection using big data and ensemble learning", Computer Electronic Engineering, vol. 86, no.106729, 2020

[7]. Abuzuraiq, M. Alkasassbeh, and M. Almseidin, "Intelligent methods for accurately detecting phishing websites," in 2020 11th International Conference on Information and Communication Systems (ICICS), pp. 085–090, IEEE, 2020. https://doi.org/10. 1109/ICICS49469.2020.239509

[8]. Gandotra E., Gupta D, "An Efficient Approach for Phishing Detection using Machine Learning", Algorithms for Intelligent Systems, Springer, Singapore, 2021, https://doi.org/10.1007/978-981-15-8711-5_ 12

IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
Impact Factor: 7.301
Volume 3, Issue 1, June 2023

[9]. Battery is known for its capacity to store electrical energy in the form of usable energy which energy can be used when it is required. With that, battery is an essential device to store the energy for devices ranging from small electronics to large system such as renewable energy systems.

[10]. Small electronic devices such as video/audio player, medical equipment, power tools, meters and data loggers, and remote sensors are installed with batteries.

[11]. Installed batteries in these devices freed the users from the power cord connection and allow the users to portable application. Periodically the stored energy in the batteries installed in this application will reduce and these batteries require a charging process to restore the capacity.