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: 7.53
Volume 4, Issue 4, April 2024

The Hidden Threat: Exposing OSINT Exploitation in Cyber Attacks

Sanjeev Arora
Student, Department of Computer Science Engineering
(IoT & Cyber Security including Blockchain)
Dronacharya College of Engineering, Gurugram, India

Abstract: *The use of open-source intelligence (OSINT) has become an important tool for hackers in modern cyber warfare. This paper examines how attackers use publicly available information to target individuals and organizations. We explore various OSINT collection techniques, including data scraping, social engineering, and reconnaissance. This paper analyses how hackers use data fusion and analysis to extract actionable information from various OSINT sources. Case studies illustrate real-world scenarios for OSINT exploitation in social media, public records, and data breaches. We discuss the significant risks associated with misuse of OSINT, such as: B. Data breaches, identity theft, financial fraud, and corporate espionage. The paper concludes with an overview of remediation strategies, including enhanced data protection measures, security awareness training, and threat intelligence monitoring. We emphasize the importance of adhering to legal and ethical considerations concerning data protection and responsible disclosure practices. Finally, the paper explores future trends in OSINT automation, evolving online behaviour, and regulatory landscapes, highlighting the need for continuous adaptation in the cybersecurity domain.*

Keywords: OSINT Exploitation, Targeted Attacks, Mitigation Strategies, Privacy Violations, Cyber Warfare

REFERENCES

[1]. Chen, H., & Zhao, X. (2020). A survey on open-source intelligence (OSINT) in the big data age. Journal of Information Science, 46(1), 146-165

[2]. Russell, D., & O'Neil, M. (2016). The art of deception: Controlling the human element of security. John Wiley & Sons.