Intrusion Detection Prevention System using SNORT

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ABSTRACT
Living in the age of information, each and every action result in some form of data creation. According to statistics, over 300 thousand tweets and over 4 million Facebook posts are being generated per minute. Knowing the fact that more users and more data require more security. In the modern era, security and reliability have become the major concerns for an individual or an organization. In this paper, various terminologies, techniques and methodologies related to Intrusion Detection and Prevention System (IDPS) have been discussed. This paper provides different approaches on implementation of IDPS that is based on in-depth study of various research endeavors. It majorly deals with the concept of Intrusion Detection System using Snort which is a popular tool for network security. It is widely accepted by corporate sectors in order to secure their organization's network. The paper gives a fair knowledge of Snort, about its purpose, the modes it associated with, its implementations and the applications. Review has been made on the basis of the studies and research done in the literature section.

Keywords
Intrusion Detection System; Intrusion Prevention System; Snort.

1. INTRODUCTION
Since the digital age is taken over, our lives have been encoded into digital clouds and stored on hard drives. Protecting this data has become the number one priority in ensuring privacy and security. IDPS is just another tool that when used properly will ensure that attacks are mitigated quickly. In fact, a network with a firewall and no IDPS is just as high security prison with no guards on Patrol. The major significance of IDPS are because of these two reasons, i.e. data protection & data privacy.

2. IDS/IPS
In general term, an intrusion can be said as an unauthorized access to someone's property or area, but when it comes to computer science, it is an act to compromise the basic computer network security goals viz. confidentiality, integrity, and privacy. Intrusion Detection is the process of monitoring the events occurring in a computer system or network and analyzing them for signs of possible incidents of threats and violations of computer security practices, acceptable use policies or standard security policies.

Intrusion Detection System (IDS) detects the presence of intrusion in the network. It is designed to monitor the events occurring in a computer system or network and responds to events with signs of possible incidents of violations of security policies. On the other hand, Intrusion Prevention System (IPS), is the network security systems or technology that is capable of not only detecting the intrusion activities but also take required counter measures to prevent them.

3. TYPES OF TECHNOLOGIES
There are many types of IDPS technologies. For the purposes of this document, they are divided into the following four groups based on the type of events that they monitor and the ways in which they are deployed.

3.1 Network based IDPS
A network-based intrusion detection system monitors and examines the network traffic for any suspicious activity or threats in the network. It reads the packets flowing in the network and searches for any malicious activity by identifying suspicious pattern in the packets. If any threat is discovered, then based upon the threat the system will take actions such as notifying administrators about it.

3.2 Wireless based IDPS
Wireless based Intrusion Detection Prevention System analyzes the traffic of wireless network by analyzing wireless protocol activities and take appropriate actions. It detects unauthorized wireless local area network in use. It cannot identify suspicious activity in the application layer, transport layer and protocol activities. It is deployed in a particular range where the organization can monitor the wireless network.

3.3 Network Behavior Analysis
NBA examines network traffic to identify threats which generate unusual traffic flows such as DDoS (Distributed Denial of Service) attack, malwares (e.g. worms, backdoors), and policy violations. These systems are deployed for monitoring the flow on an organization's internal network, sometimes it is used to monitor organization's networks and external network.

3.4 Host based IDPS
HIDPS monitors characteristics of a single host and identifies intrusions within that host by monitoring host's file system, file access, system calls or network events. It can prevent system level attacks and can detect attacks which NIDPS cannot. The hosts load can be distributed over the network. It can even analyze activities that are transferred in end-to-end encrypted communications.

4. METHODOLOGIES OF IDPS
To detect and prevent any intrusions, there are a lot of methodologies which IDPS uses. These methodologies are used as per the requirement of the system.

4.1 Anomaly based Methodology
These types of attack are used for detecting the unknown attacks i.e. it detects behavior that is not known before. No rules are needed to be written for this methodology. It detects malicious traffic based on normal network traffic pattern. The disadvantage of such method is that it generates high false alarm rate.

4.2 Signature based Methodology
This methodology is used to detect unknown attacks which are already predefined in the form of signature and are saved. When a data is sent to the network, it first goes to the server where the server scans it for malicious content. It compares the network packet from the database of signature which is

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Science of Cyber Security Jun Zhao,Weizhi Meng,2025-03-03 This book constitutes the refereed proceedings of the 6th International Conference on Science of Cyber Security SciSec 2024 held in Copenhagen Denmark during August 14 16 2024 The 25 full papers presented here were carefully selected and reviewed from 79 submissions These papers focus on the recent research trends and challenges in the emerging field of Cyber Security **Open Source Software for Digital Forensics** Ewa Huebner,Stefano Zanero,2010-01-27 Open Source Software for Digital Forensics is the first book dedicated to the use of FLOSS Free Libre Open Source Software in computer forensics It presents the motivations for using FLOSS applications as tools for collection preservation and analysis of digital evidence in computer and network forensics It also covers extensively several forensic FLOSS tools their origins and evolution Open Source Software for Digital Forensics is based on the OSSCoNF workshop which was held in Milan Italy September 2008 at the World Computing Congress co located with OSS 2008 This edited volume is a collection of contributions from researchers and practitioners world wide Open Source Software for Digital Forensics is designed for advanced level students and researchers in computer science as a secondary text and reference book Computer programmers software developers and digital forensics professionals will also find this book to be a valuable asset **Network and System Security** Joseph K. Liu,Xinyi Huang,2019-12-10 This book constitutes the proceedings of the 13th International Conference on Network and System Security NSS 2019 held in Sapporo Japan in December 2019 The 36 full papers and 7 short papers presented together with 4 invited papers in this book were carefully reviewed and selected from 89 initial submissions The papers cover a wide range of topics in the field including authentication access control availability integrity privacy confidentiality dependability and sustainability of computer networks and systems **Intrusion Detection & Prevention** Carl Endorf,Eugene Schultz,Jim Mellander,2004 This volume covers the most popular intrusion detection tools including Internet Security Systems Black ICE and RealSecurity Cisco Systems Secure IDS and Entercept Computer Associates eTrust and the open source tool Snort **Illumination of Artificial Intelligence in Cybersecurity and Forensics** Sanjay Misra,Chamundeswari Arumugam,2022-02-08 This book covers a variety of topics that span from industry to academics hybrid AI model for IDS in IoT intelligent authentication framework for IoMT mobile devices for extracting bioelectrical signals security audit in terms of vulnerability analysis to protect the electronic medical records in healthcare system using AI classification using CNN a multi face recognition attendance system with anti spoofing capability challenges in face morphing attack detection a dimensionality reduction and feature level fusion technique for morphing attack detection MAD systems findings and discussion on AI assisted forensics challenges and open issues in the application of AI in forensics a terrorist computational model that uses Baum Welch optimization to improve the intelligence and predictive accuracy of the activities of criminal elements a novel method for detecting security violations in IDSs graphical based city block distance algorithm method for E payment systems image

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tools or large capital investments There are ways to capture the necessary data Teams protecting data and supporting HIPAA compliance can do this All that s required is a plan which author Eric Thompson provides in this book What You Will Learn Know what threat intelligence is and how you can make it useful Understand how effective vulnerability management extends beyond the risk scores provided by vendors Develop continuous monitoring on a budget Ensure that incident response is appropriate Help healthcare organizations comply with HIPAA Who This Book Is For Cybersecurity privacy and compliance professionals working for organizations responsible for creating maintaining storing and protecting patient information *Security in Cyber-Physical Systems* Ali Ismail Awad,Steven Furnell,Marcin Paprzycki,Sudhir Kumar Sharma,2021-03-05 This book is a relevant reference for any readers interested in the security aspects of Cyber Physical Systems and particularly useful for those looking to keep informed on the latest advances in this dynamic area Cyber Physical Systems CPSs are characterized by the intrinsic combination of software and physical components Inherent elements often include wired or wireless data communication sensor devices real time operation and automated control of physical elements Typical examples of associated application areas include industrial control systems smart grids autonomous vehicles and avionics medial monitoring and robotics The incarnation of the CPSs can therefore range from considering individual Internet of Things devices through to large scale infrastructures Presented across ten chapters authored by international researchers in the field from both academia and industry this book offers a series of high quality contributions that collectively address and analyze the state of the art in the security of Cyber Physical Systems and related technologies The chapters themselves include an effective mix of theory and applied content supporting an understanding of the underlying security issues in the CPSs domain alongside related coverage of the technological advances and solutions proposed to address them The chapters comprising the later portion of the book are specifically focused upon a series of case examples evidencing how the protection concepts can translate into practical application **International Joint Conferences** Héctor Quintián,Emilio Corchado,Alicia Troncoso Lora,Hilde Pérez García,Esteban Jove,José Luis Calvo Rolle,Francisco Javier Martínez de Pisón,Pablo García Bringas,Francisco Martínez Álvarez,Álvaro Herrero Cosío,Paolo Fosci,2024-11-15 This volume of Lecture Notes in Networks and Systems contains accepted papers presented at the 17th International Conference on Computational Intelligence in Security for Information Systems CISIS 2024 and the 15th International Conference on EUropean Transnational Education ICEUTE 2024 which were held in the beautiful city of Salamanca Spain in October 2024 The aim of the CISIS 2024 conference is to offer a meeting opportunity for academic and industry related researchers belonging to the various vast communities of Computational Intelligence Information Security and Data Mining The need for intelligent flexible behavior by large complex systems especially in mission critical domains is intended to be the catalyst and the aggregation stimulus for the overall event After peer review the CISIS 2024 International Program Committee selected 24 papers for publication in these conference proceedings In this edition one special session was organized Artificial

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