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Intrusion Detection in Wireless Ad-Hoc Networks

Edited by
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Intrusion Detection In Wireless Ad Hoc Networks

Tapan Gondaliya



Intrusion Detection In Wireless Ad Hoc Networks:

Intrusion Detection in Wireless Ad-hoc Networks Nabendu Chaki,Rituparna Chaki,2014 Intrusion Detection in Wireless Ad Hoc Networks Sumit Gwalani,2003 *Intrusion Detection in Wireless Ad Hoc Networks* Manfred Fettingner,2009-07 Bachelor Thesis from the year 2009 in the subject Computer Science Theory grade 2 University of Applied Sciences Technikum Vienna language English abstract Wireless ad hoc networks are networks without any infrastructure Due to this fact they are very vulnerable to attacks Adversaries do not have to pass different barriers like gateways or firewalls like in wired networks Therefore different architectures for intrusion detection were developed The contribution of this paper is to present different intrusion detection architectures explains their behaviour and compare them Furthermore it is shown how game theory can be used to improve performance of intrusion detection **Intrusion Detection in Wireless Ad-Hoc Networks** Nabendu Chaki,Rituparna Chaki,2014-02-06 Presenting cutting edge research *Intrusion Detection in Wireless Ad Hoc Networks* explores the security aspects of the basic categories of wireless ad hoc networks and related application areas Focusing on intrusion detection systems IDSs it explains how to establish security solutions for the range of wireless networks including mobile ad hoc networks hybrid wireless networks and sensor networks This edited volume reviews and analyzes state of the art IDSs for various wireless ad hoc networks It includes case studies on honesty based intrusion detection systems cluster oriented based intrusion detection systems and trust based intrusion detection systems Addresses architecture and organization issues Examines the different types of routing attacks for WANs Explains how to ensure Quality of Service in secure routing Considers honesty and trust based IDS solutions Explores emerging trends in WAN security Describes the blackhole attack detection technique Surveying existing trust based solutions the book explores the potential of the CORIDS algorithm to provide trust based solutions for secure mobile applications Touching on more advanced topics including security for smart power grids securing cloud services and energy efficient IDSs this book provides you with the tools to design and build secure next generation wireless networking environments **Guide to Wireless Ad Hoc Networks** Sudip Misra,Isaac Woungang,Subhas Chandra Misra,2009-03-02 Overview and Goals Wireless communication technologies are undergoing rapid advancements The past few years have experienced a steep growth in research in the area of wireless ad hoc networks The attractiveness of ad hoc networks in general is attributed to their characteristics features such as ability for infrastructure less setup minimal or no reliance on network planning and the ability of the nodes to self organize and self configure without the involvement of a centralized network manager router access point or a switch These features help to set up a network fast in situations where there is no existing network setup or in times when setting up a fixed infrastructure network is considered infeasible for example in times of emergency or during relief operations Even though ad hoc networks have emerged to be attractive and they hold great promises for our future there are several challenges that need to be addressed Some of the well known challenges are attributed to issues relating to

scalability quality of service energy efficiency and security

Mobile Agents for Intrusion Detection in Wireless

Ad-hoc Networks Ryan Dean Hammond, 2004 While wireless ad hoc networks continue to become more popular the number of attacks on computer systems increases each year These attacks are common occurrences in both the wired and wireless network environments The wireless ad hoc environment is susceptible to many attacks Wireless ad hoc networks are vulnerable to common wireless attacks e g jamming and attacks more specific to the ad hoc environment e g sleep deprivation attacks Encryption and authentication mechanisms alone have never been enough to prevent intrusions Encryption can usually be broken even if a brute force attack is required and authentication can easily be defeated e g stealing a password or gaining access to a host which is already authenticated Because of this a second line of defense is needed Intrusion detection systems have proven to be effective at providing this second line of defense Establishing this second line of defense in a wireless ad hoc network though brings with it many challenges Such challenges consist of dealing with the ease that hosts enter and leave the network at random of hosts being physically attacked or stolen and the possibility of an attacker disrupting the network through data route changes This thesis aims to research agent based intrusion detection systems and provide the design and implementation of an intrusion detection system based on mobile agents in a wireless ad hoc network Utilizing research from intrusion detection systems mobile agents and event correlation we design a system for detecting intrusions in wireless ad hoc networks by means of mobile agents With the design created we implement our mobile agent intrusion detection system using mobile devices set up in a wireless ad hoc network The system is then tested against three attack scenarios two real time online attacks and one off line attack

Security for

Wireless Ad Hoc Networks Farooq Anjum, Petros Mouchtaris, 2007-02-26 This book addresses the problems and brings solutions to the security issues of ad hoc networks Topics included are threat attacks and vulnerabilities basic cryptography mechanisms authentication secure routing firewalls security policy management and future developments An Instructor Support FTP site is available from the Wiley editorial board

Intrusion Detection System in mobile ad hoc network in

MAC layer Tapan Gondaliya, 2014-07-15 Master's Thesis from the year 2013 in the subject Computer Science IT Security grade C Lovely Professional University Punjab School Of Computer Science and Engineering course M Tech CSE language English abstract The rapid proliferation of Mobile ad hoc network has changed the landscape of network security The recent DOS attacks on major Internet sites have shown us no open computer network is immune from intrusions The ad hoc network is particularly vulnerable due to its features of open medium dynamic changing topology and cooperative algorithms lack of centralized monitoring and management point and lack of a clear line of defense The traditional way of protecting networks with firewalls and encryption software is no longer sufficient and effective There are many intrusion detection techniques have been developed on Ad hoc network but have been turned to be inapplicable in this new environment Here we need to search for new architecture and mechanisms to protect Mobile Ad hoc network In the above all technique of intrusion

detection is applied on the only one layer and that is probably on routing layer But here we apply this intrusion detection system in the MAC layer for the more security efficiency and high speed compare to other technique those whose apply in the network layer

Networked Digital Technologies, Part II Filip Zavoral, Jakub Yaghob, Pit Pichappan, Eyas El-Qawasmeh, 2010-06-30 On behalf of the NDT 2010 conference the Program Committee and Charles University in Prague Czech Republic we welcome you to the proceedings of the Second International Conference on Networked Digital Technologies NDT 2010 The NDT 2010 conference explored new advances in digital and Web technology applications It brought together researchers from various areas of computer and information sciences who addressed both theoretical and applied aspects of Web technology and Internet applications We hope that the discussions and exchange of ideas that took place will contribute to advancements in the technology in the near future The conference received 216 papers out of which 85 were accepted resulting in an acceptance rate of 39% These accepted papers are authored by researchers from 34 countries covering many significant areas of Web applications Each paper was evaluated by a minimum of two reviewers Finally we believe that the proceedings document the best research in the studied areas We express our thanks to the Charles University in Prague Springer the authors and the organizers of the conference

Security in Ad Hoc and Sensor Networks Raheem Beyah, Janise McNair, Cherita Corbett, 2010 Security issues in ad hoc and sensor networks have become extremely important This edited book provides a comprehensive treatment for security issues in these networks ranging from attack mitigation to recovery after an attack has been successfully executed Security issues addressed include but are not limited to attacks malicious node detection access control authentication intrusion detection privacy and anonymity key management location verification security architectures and protocols secrecy and integrity network resilience and survivability and trust models This complete book provides an excellent reference for students researchers and industry practitioners related to these areas

Advances in Ad Hoc Networking Pedro Cuenca, Carlos Guerrero, Ramon Puigjaner, Bartomeu Serra, 2008-06-02 This volume contains the proceedings of the Seventh Mediterranean Ad Hoc Networking Workshop Med Hoc Net 2008 celebrated in Palma de Mallorca Illes Balears Spain during June 25 27 2008 This IFIP TC6 Workshop was organized by the Universitat de les Illes Balears in cooperation with the Associaci6n de Tdnicos de Inform tica and sponsored by the following Working Groups WG6 3 Performance of Computer Networks and WG6 8 Mobile and Wireless Communications The rapid evolution of the networking industry introduces new exciting challenges that need to be explored by the research community Aside the adoption of Internet as the global network infrastructure these last years have shown the growing of a set of new network architectures without a rigid and known a priori architecture using wireless techniques like sensor and ad hoc networks These new types of networks are opening the possibility to create a large number of new applications ranging from domestic to nature surveying These new networks are generating new technical challenges like the capability of auto reconfiguration in order to give the network an optimal configuration the energy saving need when

the nodes have not a source of energy other than a small battery new protocols to access the network and to convey the information across the network when its structure is not completely known or should be discovered new paradigms for keeping the needed information security and privacy in a quite uncontrolled environment and others

Intrusion Detection Systems in Wireless Ad-hoc Networks Jacob Russell Lynch,2006 As wireless networks become more commonplace it is important to have methods to detect attacks against them We have surveyed current open source and commercial wireless intrusion detection systems and we present our findings An intrusion detection system utilizing cross layer detection which has been designed and implemented is described Kismet in conjunction with Snort and a custom developed CPU usage monitoring tool is used to detect worm attacks on wireless networks The process of designing and implementing a computer worm to test the accuracy of the developed system is detailed The design implementation and configuration of the wireless intrusion detection system are presented After testing how well this system detects the worm the results are given and discussed which indicate that the tools we use work well together and can accurately detect a worm attack We include a discussion on how our intrusion detection system can be broadened into a more useful general framework that can be used in different environments to detect different attacks Conclusions about the performance of this system and directions of future research are included at the end

Intrusion Detection Systems

Pawel Skrobanek,2011-03-22 The current structure of the chapters reflects the key aspects discussed in the papers but the papers themselves contain more additional interesting information examples of a practical application and results obtained for existing networks as well as results of experiments confirming efficacy of a synergistic analysis of anomaly detection and signature detection and application of interesting solutions such as an analysis of the anomalies of user behaviors and many others

Ad Hoc Networks Shiwen Mao,Scott Midkiff,Hua Zhu,2010-02-17 Ad hoc networks refer to the wireless networking paradigm that covers a variety of network forms for specific purposes such as mobile ad hoc networks sensor networks vehicular networks underwater networks underground networks personal area networks and home networks The various forms of ad hoc networks promise a broad scope of applications in civilian commercial and military areas which have led to significant new research problems and challenges and have attracted great efforts from academia industry and government This unique networking paradigm necessitates re examination of many established wireless networking concepts and protocols and calls for developing new fundamental understanding of problems such as interference mobility connectivity capacity and security among others While it is essential to advance theoretical research on fundamentals and practical research on efficient algorithms and protocols it is also critical to develop useful applications experimental prototypes and real world deployments to achieve a practical impact on our society for the success of this networking paradigm The annual International Conference on Ad Hoc Networks AdHocNets is a new event that aims at providing a forum to bring together researchers from academia as well as practitioners from industry and government to meet and exchange ideas and recent

research work on all aspects of ad hoc networks As the first edition of this event AdHocNets 2009 was successfully held in Niagara Falls Ontario Canada during September 22 25 2009 *Networking And Mobile Computing* Xicheng Lu,2005-07-20

Welcome to Zhangjiajie for the 3rd International Conference on Computer Network and Mobile Computing ICCNMC 2005 We are currently witnessing a proliferation in mobile wireless technologies and applications However these new technologies have ushered in unprecedented challenges for the research community across the range of networking mobile computing network security and wireless web applications and optical network topics ICCNMC 2005 was sponsored by the China Computer Federation in cooperation with the Institute for Electrical and Electronics Engineers IEEE Computer Society The objective of this conference was to address and capture highly innovative and state of the art research and work in the networks and mobile computing industries ICCNMC 2005 allowed sharing of the underlying theories and applications and the establishment of new and long term collaborative channels aimed at developing innovative concepts and solutions geared to future markets The highly positive response to ICCNMC 2001 and ICCNMC 2003 held in Beijing and Shanghai respectively encouraged us to continue this international event In its third year ICCNMC 2005 continued to provide a forum for researchers professionals and industrial practitioners from around the world to report on new advances in computer network and mobile computing as well as to identify issues and directions for research and development in the new era of evolving technologies **Ad-Hoc Networking Towards Seamless Communications** Liljana Gavrilovska,Ramjee Prasad,2007-01-07 Ad Hoc Networking Towards Seamless Communications is dedicated to an area that attracts growing interest in academia and industry and concentrates on wireless ad hoc networking paradigm The persistent efforts to acquire the ability to establish dynamic wireless connections from anywhere to anyone with any device without prerequisite imbedded infrastructure move the communications boundaries towards ad hoc networks Recently ad hoc networking has attracted growing interest due to advances in wireless communications and developed framework for running IP based protocols The expected degree of penetration of these networks will depend on the successful resolution of the key features Ad hoc networks pose many complex and open problems for researchers Ad Hoc Networking Towards Seamless Communications reveals the state of the art in wireless ad hoc networking and discusses some of the key research topics that are expected to promote and accelerate the commercial applications of these networks e g MAC routing QoS cross layer optimization issues service discovery mobility handovers security **Advances in Network Security and Applications** David C. Wyld,Michal Wozniak,Nabendu Chaki,Natarajan Meghanathan,Dhinaharan Nagamalai,2011-06-30 This book constitutes the proceedings of the 4th International Conference on Network Security and Applications held in Chennai India in July 2011 The 63 revised full papers presented were carefully reviewed and selected from numerous submissions The papers address all technical and practical aspects of security and its applications for wired and wireless networks and are organized in topical sections on network security and applications ad hoc sensor and ubiquitous computing as well as peer to

peer networks and trust management

Intrusion Detection and Prevention for Mobile Ecosystems Georgios

Kambourakis,Asaf Shabtai,Constantinos Kolias,Dimitrios Damopoulos,2017-09-06 This book presents state of the art contributions from both scientists and practitioners working in intrusion detection and prevention for mobile networks services and devices It covers fundamental theory techniques applications as well as practical experiences concerning intrusion detection and prevention for the mobile ecosystem It also includes surveys simulations practical results and case studies

Self-Powered Cyber Physical Systems Rathishchandra R. Gatti,Chandra Singh,Rajeev Agrawal,Felcy Jyothi

Serrao,2023-10-17 SELF POWERED CYBER PHYSICAL SYSTEMS This cutting edge new volume provides a comprehensive exploration of emerging technologies and trends in energy management self powered devices and cyber physical systems offering valuable insights into the future of autonomous systems and addressing the urgent need for energy efficient solutions in a world that is increasingly data driven and sensor rich This book is an attempt to aim at a very futuristic vision of achieving self powered cyber physical systems by applying a multitude of current technologies such as ULP electronics thin film electronics ULP transducers autonomous wireless sensor networks using energy harvesters at the component level and energy efficient clean energy for powering data centers and machines at the system level This is the need of the hour for cyber physical systems since data requires energy when it is stored transmitted or converted to other forms Cyber physical systems will become energy hungry since the industry trend is towards ubiquitous computing with massive deployment of sensors and actuators This is evident in using blockchain technologies such as Bitcoin or running epochs for artificial intelligence AI applications Hence there is a need for research to understand energy patterns and distribution in cyber physical systems and adopt new technologies to transcend to self powered cyber physical systems This book explores the recent trends in energy management self powered devices and methods in the cyber physical world Written and edited by a team of experts in the field this book tackles a multitude of subjects related to cyber physical systems CPSs including self powered sensory transducers ambient energy harvesting for wireless sensor networks actuator methods and non contact sensing equipment for soft robots alternative optimization strategies for DGDCs to improve task distribution and provider profits wireless power transfer methods machine learning algorithms for CPS and IoT applications integration of renewables electric vehicles EVs smart grids RES micro grid and EV systems for effective load matching self powered car cyber physical systems anonymous routing and intrusion detection systems for VANET security data driven pavement distress prediction methods the impact of autonomous vehicles on industries and the auto insurance market Intelligent transportation systems and associated security concerns digital twin prototypes and their automotive applications farming robotics for CPS farming self powered CPS in smart cities self powered CPS in healthcare and biomedical devices cyber security considerations societal impact and ethical concerns and advances in human machine interfaces and explore the integration of self powered CPS in industrial automation Whether for the veteran engineer or student this volume is a must have for any library

Mobile Ad Hoc Networks G Ram Mohana Reddy, Kiran M, 2016-08-19 In recent years a lot of work has been done in an effort to incorporate Swarm Intelligence SI techniques in building an adaptive routing protocol for Mobile Ad Hoc Networks MANETs Since centralized approach for routing in MANETs generally lacks in scalability and fault tolerance SI techniques provide a natural solution through a distributed approach for the adaptive routing for MANETs In SI techniques the captivating features of insects or mammals are correlated with the real world problems to find solutions Recently several applications of bio inspired and nature inspired algorithms in telecommunications and computer networks have achieved remarkable success The main aims objectives of this book Mobile Ad Hoc Networks Bio Inspired Quality of Service Aware Routing Protocols are twofold firstly it clearly distinguishes between principles of traditional routing protocols and SI based routing protocols while explaining in detail the analogy between MANETs and SI principles Secondly it presents the readers with important Quality of Service QoS parameters and explains how SI based routing protocols achieves QoS demands of the applications This book also gives quantitative and qualitative analysis of some of the SI based routing protocols for MANETs

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