



A framework for attack patterns' discovery in honeynet data

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ABSTRACT

Collecting data related to Internet threats has now become a relatively common task for security researchers and network operators. However, the huge amount of raw data can rapidly overwhelm people in charge of analysing such data sets. Systematic analysis procedures are thus needed to extract useful information from large traffic data sets in order to assist the analyst's investigations. This work describes an analysis framework specifically developed to gain insights into honeynet data. Our forensic procedure aims at finding, within an attack data set, groups of network traces sharing various kinds of similar patterns. In our exploratory data analysis, we seek to design a flexible clustering tool that can be applied in a systematic way on different feature vectors characterizing the attacks. In this paper, we illustrate the application of our method by analysing one specific aspect of the honeynet data, i.e. the time series of the attacks. We show that clustering attack patterns with an appropriate similarity measure provides very good candidates for further in-depth investigation, which can help us to discover the plausible root causes of the underlying phenomena. The results of our clustering on time series analysis enable us to identify the activities of several worms and botnets in the collected traffic.

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Keywords:

Honeynet forensics
Traffic analysis
Attack patterns
Security data mining
Knowledge discovery

1. Introduction

1.1. Collecting malicious traffic

The experimental study of attacks on the Internet is a very active research domain, and it has gained a lot of attention in recent years. Many valuable initiatives exist for capturing or monitoring malicious activities. Broadly speaking there are three approaches used to monitor unsolicited traffic. The first approach uses low- or high-interaction honeypots (Leuridan et al., 2006; Provos, 2004; Bascher et al., 2006; Werner); in the second approach the so-called Internet telescopes, or darknets (Moore et al., 2004; Internet Motion Sensor; Team Cymru), are used in order to monitor all traffic directed to unused subnets within a locally allocated address space. The last class of techniques for gathering

information about computer attacks aims at collecting and sharing firewall and IDS logs collected from a very large number of heterogeneous sources (DSShield).

Collecting data related to Internet threats has thus become a relatively common task for security researchers or network operators. However, effectively analysing the vast amounts of data collected using these above-mentioned sensors can prove challenging. The volume and the diversity of the raw data can rapidly overwhelm people in charge of analysing those datasets. As a result, deciding which samples or which attack patterns should be investigated first is a difficult task.

1.2. Towards a systematic analysis framework

This research develops a systematic analysis framework for exploring the malicious Internet traffic obtained from a distributed

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Patterns Of Discovery

Magdalena-Benedito, Rafael



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Patterns of Discovery Norwood Russell Hanson, 1979

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Patterns of Discovery in the Social Sciences Paul Diesing, Social scientists are often vexed because their work does not satisfy the criteria of scientific methodology developed by philosophers of science and logicians who use the natural sciences as their model. In this study Paul Diesing defines science not by reference to these arbitrary norms delineated by those outside the field but in terms of norms implicit in what social scientists actually do in their everyday work. *Patterns of Discovery in the Social Sciences* is a detailed and systematic report on the full range of methods and procedures as they are actually practiced. Neither a how to do it handbook nor a lofty philosophical treatise, this is a truly interdisciplinary study of the basic modes of procedure in scientific inquiry with a special emphasis on normative politics. Diesing treats scientific methods as inductive logics of discovery in continuous evolution. He emphasizes the variety of methods available, discusses the advantages and disadvantages of specific methods, and in particular provides an account of mathematical modeling and of participant observation. The book will be of immense interest to all working social scientists, graduate students in any of the social science disciplines, and philosophers of science. It can also be employed as a text or supplement in courses in sociological methods and philosophy of science. This book is also a noteworthy companion to Diesing's major work on *Science and Ideology in the Policy Sciences*. Paul Diesing is professor emeritus of political science at the State University of New York at Buffalo. He did his graduate studies in philosophy from the University of Chicago and has taught at that university, the University of Illinois, and the University of Colorado. Diesing has also been a faculty associate at the Buffalo Center for International Conflict Studies, where he participated in the Center's program of researching in bargaining theory and international crises. He is the author of *Reason in Society: Five Types of Decisions and Their Social Conditions* and *Science and Ideology in the Policy Sciences*.

Connections H. Peter Alesso, Craig F. Smith, 2008-01-14. In their fascinating analysis of the recent history of information technology, H. Peter Alesso and Craig F. Smith reveal the patterns in discovery and innovation that have brought us to the present tipping point. A generation from now, every individual will have personally tailored access to the whole of knowledge; the sooner we all begin to think about how we got here and where we're going the better. This exciting book is an essential first step. From the Foreword by James Burke. Many people envision scientists as dispassionate characters who slavishly repeat experiments until eureka; something unexpected happens. Actually, there is a great deal more to the story of scientific discovery, but seeing the big picture is not easy. *Connections: Patterns of Discovery* uses the primary tools of forecasting and three archetypal patterns of discovery: Serendipity, Proof of Principle, and 1% Inspiration and 99% Perspiration to discern relationships of past developments and synthesize a cohesive and compelling vision for the future. It challenges readers to think of the consequences of extrapolating trends such as Moore's Law to either reach real machine intelligence or retrench in the face of physical limitations. From this perspective, the book draws the big

picture for the Information Revolution s innovations in chips devices software and networks With a Foreword by James Burke and bursting with fascinating detail throughout Connections Patterns of Discovery is a must read for computer scientists technologists programmers hardware and software developers students and anyone with an interest in tech savvy topics

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Database Systems for Advanced Applications. DASFAA 2020 International Workshops Yunmook Nah,Chulyun Kim,Seon-Young Kim,Yang-Sae Moon,Steven Euijong Whang,2020-09-21 The LNCS 12115 constitutes the workshop papers which were held also online in conjunction with the 25th International Conference on Database Systems for Advanced Applications in September 2020 The complete conference includes 119 full papers presented together with 19 short papers plus 15 demo papers and 4 industrial papers in this volume were carefully reviewed and selected from a total of 487 submissions DASFAA 2020 presents this year following five workshops The 7th International Workshop on Big Data Management and Service BDMS 2020 The 6th International Symposium on Semantic Computing and Personalization SeCoP 2020 The 5th Big Data Quality Management BDQM 2020 The 4th International Workshop on Graph Data Management and Analysis GDMA 2020 The 1st International Workshop on Artificial Intelligence for Data Engineering AIDE 2020 Intelligent Data Analysis for Real-Life Applications: Theory and Practice

Magdalena-Benedito, Rafael,2012-06-30 With the recent and enormous increase in the amount of available data sets of all kinds applying effective and efficient techniques for analyzing and extracting information from that data has become a crucial task Intelligent Data Analysis for Real Life Applications Theory and Practice investigates the application of Intelligent Data Analysis IDA to these data sets through the design and development of algorithms and techniques to extract knowledge from databases This pivotal reference explores practical applications of IDA and it is essential for academic and research libraries as well as students researchers and educators in data analysis application development and database management

Patterns of Information Management Mandy Chessell,Harald C. Smith,2013 In the era of Big Data effective information management has become crucial to the success of virtually all organizations Unfortunately few IT practitioners

know today's best practices for successfully managing enterprise information resources. Patterns for Information Management offers the solution: a multi-disciplinary, patterns-based approach that reflects where information comes from, how it is distributed, protected, governed, monitored, and ultimately utilized.

Data Mining Patterns: New Methods and Applications Poncelet, Pascal, Massegia, Florent, Teisseire, Maguelonne, 2007-08-31. This book provides an overall view of recent solutions for mining and explores new patterns offering theoretical frameworks and presenting challenges and possible solutions concerning pattern extractions, emphasizing research techniques and real world applications. It portrays research applications in data models, methodologies for mining patterns, multi-relational and multidimensional pattern mining, fuzzy data mining, data streaming, and incremental mining. Provided by publisher.

Local Pattern Detection Katharina Morik, Jean-Francois Boulicaut, Arno Siebes, 2005-07-11. Introduction: The dramatic increase in available computer storage capacity over the last 10 years has led to the creation of very large databases of scientific and commercial information. The need to analyze these masses of data has led to the evolution of the new field: knowledge discovery in databases (KDD) at the intersection of machine learning, statistics, and database technology. Being interdisciplinary by nature, the field offers the opportunity to combine the expertise of different fields into a common objective. Moreover, within each field, diverse methods have been developed and justified with respect to different quality criteria. We have to investigate how these methods can contribute to solving the problem of KDD. Traditionally, KDD was seeking to find global models for the data that explain most of the instances of the database and describe the general structure of the data. Examples are statistical time series models, cluster models, logic programs with high coverage, or classification models like decision trees or linear decision functions. In practice, though, the use of these models often is very limited because global models tend to find only the obvious patterns in the data, which domain experts already are aware of. What is really of interest to the users are the local patterns that deviate from the already known background knowledge. David Hand, who organized a workshop in 2002, proposed the new field of local patterns.

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