



Network Security Through Data Analysis

BUILDING SITUATIONAL AWARENESS

Michael Collins

Network Security Through Data Analysis Building Situational Awareness

Jessica J Manson



Network Security Through Data Analysis Building Situational Awareness:

Network Security Through Data Analysis Michael Collins, 2014 Traditional intrusion detection and logfile analysis are no longer enough to protect today's complex networks In this practical guide security researcher Michael Collins shows you several techniques and tools for collecting and analyzing network traffic datasets You'll understand how your network is used and what actions are necessary to protect and improve it Divided into three sections this book examines the process of collecting and organizing data various tools for analysis and several different analytic scenarios and techniques It's ideal for network administrators and operational security analysts familiar with scripting Explore network host and service sensors for capturing security data Store data traffic with relational databases graph databases Redis and Hadoop Use SiLK the R language and other tools for analysis and visualization Detect unusual phenomena through Exploratory Data Analysis EDA Identify significant structures in networks with graph analysis Determine the traffic that's crossing service ports in a network Examine traffic volume and behavior to spot DDoS and database raids Get a step by step process for network mapping and inventory

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