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Guide to network defense and countermeasures chapter 7

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The Network Defense and Countermeasures GuideThird Edition Chapter 8 Of the IDPS Intrusion Detection and Prevention System - Network Intrusions - Attempting to Gain Unauthorized Access to Network Resources - Intrusion Detection and Prevention System (IDPS) - consists of more than one application or hardware device - includes not only the detection and prevention of intrusions - includes prevention, Detection and Response, 3rd EditionFigure 8-1 Role of Intrusion Detection and Prevention in Network Defense Guide to Network Defense and Countermeasures , 3rd edition Of Goals IDPS - IDPS should be able to: - Assess large amounts of network traffic or system activity, to find signs of unauthorized access - Replace their findings in the journal so administrators can examine past actions - Detect and record unauthorized access without compromising to obtain evidence as unavailable as possible for attackers Guide to Network Defense and Countermeasures, 3rd edition Anomaly and Signature Detection System - Anomaly Detection System : Uses profiles described by services and resources, each authorized user is usually related to them, and the basic lines of the network are linked to profiles - The system can track profiles for suspicious activity that does not correspond to profiles, IDPS can create baseline levels by tracking network traffic to observe what is considered normal behavior, 3rd edition Anomaly and signature detection systems - If the profiles are incomplete or incomplete :: - IDPS sends alarms, that false positives (legitimate traffic, not actual attacks) - False negatives (genuine attacks that IDPS does not detect) can occur - True negatives: legitimate messages that do not cause alarm - True positive: used to describe a genuine attack that IDPS detects successfully, 3rd editionAnomaly and signature detection system : Signature detection: triggers alarms based on the characteristic signatures of known external attacks - who want basic IDPS and are mainly associated with known attacks - Network Engineers research known attacks and record rules related to each signature - Signatures should be regularly updated By Guide to Network Defense and Countermeasures, 3rd EditionTable 8-1 Benefits, 3rd EditionTable 8-1 and the shortcomings of detection systems (continued) the Network Defense and Countermeasures Guide, 3rd Analysis of the EditionStateful Protocol and State Protocol Analysis: Connection Information Collection - When IDPS receives a package, the connection information between the host and the remote computer is compared to the notes in the status table - State table: the connections between computers are recorded: source and address ip address and port of destination, and protocol - Event Horizon: the entire length of the attack - IDPS must maintain government information during this Network Defense Guide , 3rd Analysis of the EditionStateful Protocol - Approaches to The Analysis of State Protocol: - Traffic Speed Monitoring - If IDPS detects a sudden increase in traffic, it can stop and reset all TCP traffic - State Tracking Protocol - IDPS maintains a record of the state of the connection and allows packages to be verified using standard ports - a reassembly IP package - can collect fragmented packages to prevent the passage of fragments into the internal network , 3rd editionDesearch for IDPS components - Components - Network sensors or host-based agents - detection and prevention capabilities - Command console - Database server, which stores signature attacks or behavior Guide to Network Defense and Countermeasures, 3rd Edition Sensors and Agents - Sensor or Agent - Features as Electronic Eye IDPS - IDPS-based host - IDPS installed on one computer- its agent, built-in IDPS software - Network IDPS - sensor is hardware or software that tracks network traffic in real time - Attacks detected by the IDPS sensor - single-network attacks - isolated attempt - multi-session attacks - occur over a period of time The Guide to Network Defense and Countermeasures, 3rd edition Sensors and Agents - Sensors should be placed at common entry points - Internet gateways - Connections between one network and another - Remote access server that receives connections with remote users - Virtual Private Network Devices (VPN) Sensors can be located on either side of the firewall - Behind the firewall is more secure Location - IDPS Control Server: Central Data Repository of Sensors and Agents Guide to Network Defense and Countermeasures, 3rd EditionFigure 8-2 Positioning Sensors at The Network Entry Guide to Network Defense and Countermeasures, 3rd EditionFigure 8-3 Positioning Sensors Behind the Firewall in, 3rd EditionDetection and Preventive Opportunities - When Choosing IDPS, consider the following: the limit between normal and abnormal behavior - Blacklists - lists of organizations that have been associated with malicious activity - White lists - lists of entities that are known to be harmless - Alert Settings - specifying priorities by default or levels of severity, determining what prevention capabilities should be used for certain events, and specifying what information should be registered by the Network and Countermeasures Defense Manual, 3rd EditionDetection and Prevention : Reset all network connections when intrusion detection - Some IDPS allow administrators to specify what steps to take for each type of alert - Some of them have a simulation mode in which all prevention capabilities are disabled, but generate reports used to fine-tune the prevention capabilities of the Network Defense and Countermeasures Guide, 3rd Edition EditionCommand Console - provides a front-end graphical interface for IDPS - allows administrators to receive and analyze alerts across the network dedicated exclusively to IDPS - To maximize the response rate of the Network Defense and Countermeasures Guide, 3rd editionDatabase signatures of attacks or behavior - IDPS do not have the ability to use judgments , it sends an alert - Keep the database updated - Anomaly based on IDPS - Keep user information in the database Guide to Network Defense and Countermeasures, 3rd editionFigure 8-4 Database SecuritycusFo known vulnerabilities Guide to Network Defense and Countermeasures , 3rd editionOptions for IDPSs - Network IDPS - Host-IDPS - Hybrid IDPS Guide to Network Defense and Countermeasures, 3rd EditionNetwork-based IDPSs - Network IDPS (NIDPS) - Network Traffic Monitors using well-located sensors, Control Servers, Command console, and signature database - There may be hardware devices equipped with NICs to capture and analyze packages - There may also be software sensors installed on a special computer - Positioning NIDPS on the web - Behind the firewall and in front of LAN - Between firewall and DM - Any Network Segment Guide to Network Defense and Countermeasures, 3rd EditionNetwork-Based IDPS: - Inline sensors - located so that network traffic has to pass through it, is used to stop attacks from blocking network traffic - usually placed where firewalls are located - passive sensors - track copies of traffic; Actual Traffic Passes Through Them - Can Control Traffic by: 3rd EditionFigure 8-6 Positioning In-Line Sensor Guide to Network Defense and Countermeasures, 3rd editionFigure 8-7 Positioning Passive Sensor Guide to Network Defense and Countermeasures, 3rd EditionNetwork based on IDPSs and NIDPS Opportunities Vary Depending on the product Some may: O.S., applications, as well as network actions and characteristics used to identify vulnerable hosts - Analysis of headline packages to identify unusual behavior - Most of them have traffic To help identify and analyze potential attacks, find vulnerabilities, and evaluate the use of the Network and Performance Guide to Network Defense and Countermeasures, 3rd EditionNetwork-based IDPSs - Benefits - Network Segments and Network Hosts - You can report attacks aimed at certain segments or the entire network Guide to Network Defense and Countermeasures, 3rd editionHybrid IDPSs - Combining IDPS Detection Methods - IDPS combines anomaly and signature detection - Database of known attack signatures allows IDPS to run immediately - systems based on anomalies keep the alert system flexible - hybrid IDPS, which combines anomalies and detection signatures can respond to external - So do on internal attacks - Administrators have more configuration and coordination work, to make a Guide to Network Defense and Countermeasures, 3rd EditionHybrid IDPSs - Benefits - Combine Aspects of CONFIGURAC NIDPS and HIDPS - Can Control The Network as a Whole - Can Monitor Attacks That Reach Individual Hosts - Disadvantages - Getting Disparate Systems to Work in Fashion Coordination, 3rd EditionSecret components IDPS - IDPS should be able to handle the volume of traffic or the people he's facing, - IDPS should be regularly tested, sensors should not be targeted - Communication between IDPS components should be encrypted should be required for use and administration of IDPS - IDPS should be able to operate during doS attacks - Remote log should be used in HIDPS - OS HIDPS must be corrected and tempered by the Network Defense and Countermeasures Guide, 3rd Edition Of IDPS Filter Rules- To create IDPS filter rules you need to know the basics of the Snort rule syntax - the Snort rule has two sections : headline and options - Example: - Tcp alert any - !11 (content: 00 01 86 a5; msg: installed access.) - Headline is the opening part - Options are bracketed by a guide to network defense and countermeasures, 3rd EditionSease Intrusion Detection Step by Step - Installation of IDPS Database - Data Collection - Sending Signal Messages - IDPS Responds - Administrator Assesses Damage - After Escalation Procedures - Registration and Review Of Events Guide to Network Defense and Countermeasures, 3rd EditionFigure 8-11 Steps in Intrusion Detection Guide to Network And Countermeasures , 3rd editionStep 1: Installation of IDPS database - IDPS uses a database to compare traffic detected by sensors - Systems based on anomalies - Requires compiling the base line of the network by observing network traffic (during the week) - Signature-based IDPS, 3rd editionStep 2: Data collection - Network sensors collect data, reading packages - Sensors should be located where they can capture all packages - Sensors must be located where they can capture all packages - Sensors are able to capture all packages - Sensors must be located where they can capture all packages - Sensors are able to capture all packages - that enters and leaves the host - Sensors on network segments read packages. When they pass across the segment - Sensors on network segments can't capture all packages - If the level of traffic becomes too heavy a guide to network protection and countermeasures, 3rd edition ofStep 3: Sending alert messages and IDPS detection software compares captured packages with information in its database - IDPS sends alerts - If captured match packets of signature attacks or deviate from normal network behavior Countermeasures, 3rd EditionStep 4: IDPS Responds to Queries - Command console receives notifications about administrator's actions and IDPS: Alarm - Send alarm - Drop - Package resets - Reset - IDPS stops and restarts network traffic - Code Analysis - Prevents the launch of malicious code File system monitoring - Preventing file changes - Filtering network traffic - Act as a firewall - Network traffic analysis , 3rd edition OfStep 5: Administrator assesses damage - Administrator tracks alerts - Determines Whether countermeasures are needed - Administrator needs to fine-tune the database - The goal is to avoid false negatives - The line between acceptable and unacceptable network use is not always clear, 3rd editionFigure 8-12 Differentiation of acceptable and unacceptable network use Guide to Network Defense and Countermeasures, 3rd edition of Step 6: After the escalation of Procedure and Escalation Of Procedure - Action Set that will follow if IDPS detects a true positive Company's Security Policy - Incident Levels - Level 1 - Can Be Managed Fast - Level 2 - Poses a More Serious Threat - Level 3 - Is the Highest Threat Guide to Network Defense and Countermeasures, 3rd Edition Edition

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