

End-to-End Network Security Defense-in-Depth

Best practices for assessing and improving network
defenses and responding to security incidents

End To End Network Security Defense In Depth Omar Santos

**Roberta Bragg, Mark Rhodes-
Ousley, Keith Strassberg**



End To End Network Security Defense In Depth Omar Santos:

End-to-End Network Security Omar Santos, 2007-08-24 End to End Network Security Defense in Depth Best practices for assessing and improving network defenses and responding to security incidents Omar Santos Information security practices have evolved from Internet perimeter protection to an in depth defense model in which multiple countermeasures are layered throughout the infrastructure to address vulnerabilities and attacks This is necessary due to increased attack frequency diverse attack sophistication and the rapid nature of attack velocity all blurring the boundaries between the network and perimeter End to End Network Security is designed to counter the new generation of complex threats Adopting this robust security strategy defends against highly sophisticated attacks that can occur at multiple locations in your network The ultimate goal is to deploy a set of security capabilities that together create an intelligent self defending network that identifies attacks as they occur generates alerts as appropriate and then automatically responds End to End Network Security provides you with a comprehensive look at the mechanisms to counter threats to each part of your network The book starts with a review of network security technologies then covers the six step methodology for incident response and best practices from proactive security frameworks Later chapters cover wireless network security IP telephony security data center security and IPv6 security Finally several case studies representing small medium and large enterprises provide detailed example configurations and implementation strategies of best practices learned in earlier chapters Adopting the techniques and strategies outlined in this book enables you to prevent day zero attacks improve your overall security posture build strong policies and deploy intelligent self defending networks Within these pages you will find many practical tools both process related and technology related that you can draw on to improve your risk mitigation strategies Bruce Murphy Vice President World Wide Security Practices Cisco Omar Santos is a senior network security engineer at Cisco Omar has designed implemented and supported numerous secure networks for Fortune 500 companies and the U S government Prior to his current role he was a technical leader within the World Wide Security Practice and the Cisco Technical Assistance Center TAC where he taught led and mentored many engineers within both organizations Guard your network with firewalls VPNs and intrusion prevention systems Control network access with AAA Enforce security policies with Cisco Network Admission Control NAC Learn how to perform risk and threat analysis Harden your network infrastructure security policies and procedures against security threats Identify and classify security threats Trace back attacks to their source Learn how to best react to security incidents Maintain visibility and control over your network with the SAVE framework Apply Defense in Depth principles to wireless networks IP telephony networks data centers and IPv6 networks This security book is part of the Cisco Press Networking Technology Series Security titles from Cisco Press help networking professionals secure critical data and resources prevent and mitigate network attacks and build end to end self defending networks Category Networking Security Covers Network security and incident response **Software War Stories** Donald J. Reifer, 2013-10-14 A

comprehensive practical book on software management that dispels real world issues through relevant case studies Software managers inevitably will meet obstacles while trying to deliver quality products and provide value to customers often with tight time restrictions The result Software War Stories This book provides readers with practical advice on how to handle the many issues that can arise as a software project unfolds It utilizes case studies that focus on what can be done to establish and meet reasonable expectations as they occur in government industrial and academic settings The book also offers important discussions on both traditional and agile methods as well as lean development concepts Software War Stories Covers the basics of management as applied to situations ranging from agile projects to large IT projects with infrastructure problems Includes coverage of topics ranging from planning estimating and organizing to risk and opportunity management Uses twelve case studies to communicate lessons learned by the author in practice Offers end of chapter exercises sample solutions and a blog for providing updates and answers to readers questions Software War Stories Case Studies in Software Management mentors practitioners software engineers students and more providing relevant situational examples encountered when managing software projects and organizations Cisco ASA Jazib Frahim,Omar Santos,Andrew

Ossipov,2014 This is the definitive up to date practitioner s guide to planning deploying and troubleshooting comprehensive security plans with Cisco ASA Written by two experienced Cisco Security and VPN Solutions consultants who work closely with customers to solve security problems every day the book brings together valuable insights and real world deployment examples for both large and small network environments Jazib Frahim and Omar Santos begin by introducing the newest ASA Firewall Solution and its capabilities Next they walk through configuring and troubleshooting both site to site and remote access VPNs and implementing Intrusion Prevention System IPS features supported by the ASA s Advanced Inspection and Prevention Security Services Module AIP SSM Each chapter is comprised of many sample configurations accompanied by in depth analysis of design scenarios plus a complete set of debugs in every section **Cisco**

Next-Generation Security Solutions Omar Santos,Panos Kampanakis,Aaron Woland,2016-07-06 Network threats are emerging and changing faster than ever before Cisco Next Generation Network Security technologies give you all the visibility and control you need to anticipate and meet tomorrow s threats wherever they appear Now three Cisco network security experts introduce these products and solutions and offer expert guidance for planning deploying and operating them The authors present authoritative coverage of Cisco ASA with FirePOWER Services Cisco Firepower Threat Defense FTD Cisco Next Generation IPS appliances the Cisco Web Security Appliance WSA with integrated Advanced Malware Protection AMP Cisco Email Security Appliance ESA with integrated Advanced Malware Protection AMP Cisco AMP ThreatGrid Malware Analysis and Threat Intelligence and the Cisco Firepower Management Center FMC You ll find everything you need to succeed easy to follow configurations application case studies practical triage and troubleshooting methodologies and much more Effectively respond to changing threat landscapes and attack continuums Design Cisco ASA with FirePOWER

Services and Cisco Firepower Threat Defense FTD solutions Set up configure and troubleshoot the Cisco ASA FirePOWER Services module and Cisco Firepower Threat Defense Walk through installing AMP Private Clouds Deploy Cisco AMP for Networks and configure malware and file policies Implement AMP for Content Security and configure File Reputation and File Analysis Services Master Cisco AMP for Endpoints including custom detection application control and policy management Make the most of the AMP ThreatGrid dynamic malware analysis engine Manage Next Generation Security Devices with the Firepower Management Center FMC Plan implement and configure Cisco Next Generation IPS including performance and redundancy Create Cisco Next Generation IPS custom reports and analyses Quickly identify the root causes of security problems

Network Security with Netflow and IPFIX Omar Santos, 2015-09-08 A comprehensive guide for deploying configuring and troubleshooting NetFlow and learning big data analytics technologies for cyber security Today's world of network security is full of cyber security vulnerabilities incidents breaches and many headaches Visibility into the network is an indispensable tool for network and security professionals and Cisco NetFlow creates an environment where network administrators and security professionals have the tools to understand who what when where and how network traffic is flowing Network Security with NetFlow and IPFIX is a key resource for introducing yourself to and understanding the power behind the Cisco NetFlow solution Omar Santos a Cisco Product Security Incident Response Team PSIRT technical leader and author of numerous books including the CCNA Security 210 260 Official Cert Guide details the importance of NetFlow and demonstrates how it can be used by large enterprises and small to medium sized businesses to meet critical network challenges This book also examines NetFlow's potential as a powerful network security tool Network Security with NetFlow and IPFIX explores everything you need to know to fully understand and implement the Cisco Cyber Threat Defense Solution It also provides detailed configuration and troubleshooting guidance sample configurations with depth analysis of design scenarios in every chapter and detailed case studies with real life scenarios You can follow Omar on Twitter [santosomar](#) NetFlow and IPFIX basics Cisco NetFlow versions and features Cisco Flexible NetFlow NetFlow Commercial and Open Source Software Packages Big Data Analytics tools and technologies such as Hadoop Flume Kafka Storm Hive HBase Elasticsearch Logstash Kibana ELK Additional Telemetry Sources for Big Data Analytics for Cyber Security Understanding big data scalability Big data analytics in the Internet of everything Cisco Cyber Threat Defense and NetFlow Troubleshooting NetFlow Real world case studies

Designing Networks and Services for the Cloud Huseni Saboowala, Muhammad Abid, Sudhir Modali, 2013-05-16 Designing Networks and Services for the Cloud Delivering business grade cloud applications and services A rapid easy to understand approach to delivering a secure resilient easy to manage SLA driven cloud experience Designing Networks and Services for the Cloud helps you understand the design and architecture of networks and network services that enable the delivery of business grade cloud services Drawing on more than 40 years of experience in network and cloud design validation and deployment the authors demonstrate how networks spanning from the Enterprise

branch HQ and the service provider Next Generation Networks NGN to the data center fabric play a key role in addressing the primary inhibitors to cloud adoption security performance and management complexity The authors first review how virtualized infrastructure lays the foundation for the delivery of cloud services before delving into a primer on clouds including the management of cloud services Next they explore key factors that inhibit enterprises from moving their core workloads to the cloud and how advanced networks and network services can help businesses migrate to the cloud with confidence You ll find an in depth look at data center networks including virtualization aware networks virtual network services and service overlays The elements of security in this virtual fluid environment are discussed along with techniques for optimizing and accelerating the service delivery The book dives deeply into cloud aware service provider NGNs and their role in flexibly connecting distributed cloud resources ensuring the security of provider and tenant resources and enabling the optimal placement of cloud services The role of Enterprise networks as a critical control point for securely and cost effectively connecting to high performance cloud services is explored in detail before various parts of the network finally come together in the definition and delivery of end to end cloud SLAs At the end of the journey you preview the exciting future of clouds and network services along with the major upcoming trends If you are a technical professional or manager who must design implement or operate cloud or NGN solutions in enterprise or service provider environments this guide will be an indispensable resource Understand how virtualized data center infrastructure lays the groundwork for cloud based services Move from distributed virtualization to IT as a service via automated self service portals Classify cloud services and deployment models and understand the actors in the cloud ecosystem Review the elements requirements challenges and opportunities associated with network services in the cloud Optimize data centers via network segmentation virtualization aware networks virtual network services and service overlays Systematically secure cloud services Optimize service and application performance Plan and implement NGN infrastructure to support and accelerate cloud services Successfully connect enterprises to the cloud Define and deliver on end to end cloud SLAs Preview the future of cloud and network services

Web Commerce Security Hadi Nahari,Ronald L. Krutz,2011-04-26 Provides information on designing effective security mechanisms for e commerce sites covering such topics as cryptography authentication information classification threats and attacks and certification

Developing Cybersecurity Programs and Policies in an AI-Driven World Omar Santos,2024-07-16 ALL THE KNOWLEDGE YOU NEED TO BUILD CYBERSECURITY PROGRAMS AND POLICIES THAT WORK Clearly presents best practices governance frameworks and key standards Includes focused coverage of healthcare finance and PCI DSS compliance An essential and invaluable guide for leaders managers and technical professionals Today cyberattacks can place entire organizations at risk Cybersecurity can no longer be delegated to specialists Success requires everyone to work together from leaders on down Developing Cybersecurity Programs and Policies in an AI Driven World offers start to finish guidance for establishing effective cybersecurity in any organization Drawing on more than two decades

of real world experience Omar Santos presents realistic best practices for defining policy and governance ensuring compliance and collaborating to harden the entire organization Santos begins by outlining the process of formulating actionable cybersecurity policies and creating a governance framework to support these policies He then delves into various aspects of risk management including strategies for asset management and data loss prevention illustrating how to integrate various organizational functions from HR to physical security to enhance overall protection This book covers many case studies and best practices for safeguarding communications operations and access alongside strategies for the responsible acquisition development and maintenance of technology It also discusses effective responses to security incidents Santos provides a detailed examination of compliance requirements in different sectors and the NIST Cybersecurity Framework

LEARN HOW TO Establish cybersecurity policies and governance that serve your organization s needs Integrate cybersecurity program components into a coherent framework for action Assess prioritize and manage security risk throughout the organization Manage assets and prevent data loss Work with HR to address human factors in cybersecurity Harden your facilities and physical environment Design effective policies for securing communications operations and access Strengthen security throughout AI driven deployments Plan for quick effective incident response and ensure business continuity Comply with rigorous regulations in finance and healthcare Learn about the NIST AI Risk Framework and how to protect AI implementations Explore and apply the guidance provided by the NIST Cybersecurity Framework

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for PCI compliance to safely process payments Explore and apply the guidance provided by the NIST Cybersecurity Framework

CCNA Cyber Ops SECFND #210-250 Official Cert Guide Omar Santos, Joseph Muniz, Stefano De Crescenzo, 2017-04-04 This is the eBook version of the print title Note that the eBook does not provide access to the practice test software that accompanies the print book Learn prepare and practice for CCNA Cyber Ops SECFND 210 250 exam success with this Cert Guide from Pearson IT Certification a leader in IT Certification learning Master CCNA Cyber Ops SECFND 210 250 exam topics Assess your knowledge with chapter ending quizzes Review key concepts with exam preparation tasks CCNA Cyber Ops SECFND 210 250 Official Cert Guide is a best of breed exam study guide Cisco enterprise security experts Omar Santos Joseph Muniz and Stefano De Crescenzo share preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills Material is presented in a concise manner focusing on increasing your understanding and retention of exam topics The book presents you with an organized test preparation routine through the use of proven series elements and techniques Exam topic lists make referencing easy Chapter ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly Review questions help you assess your knowledge and a final preparation chapter guides you through tools and resources to help you craft your final study plan Well regarded for its level of detail assessment features and challenging review questions and exercises this study guide helps you master the concepts and techniques that will allow you to succeed on the exam the first time The study guide helps you master all the topics on the CCNA Cyber Ops SECFND exam including Fundamentals of networking protocols and networking device types Network security devices and cloud services Security principles Access control models Security management concepts and techniques Fundamentals of cryptography and PKI Essentials of Virtual Private Networks VPNs Windows based Analysis Linux MAC OS X based Analysis Endpoint security technologies Network and host telemetry Security monitoring operations and challenges Types of attacks and vulnerabilities Security evasion techniques

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Certified Ethical Hacker (CEH) Version 10 Cert Guide Omar Santos, Michael Gregg, 2019-08-09 In this best of breed study guide leading experts Michael Gregg and Omar Santos help you master all the topics you need to know to succeed on your Certified Ethical Hacker Version 10 exam and advance your career in IT security The authors concise focused approach explains every exam objective from a real world perspective helping you quickly identify weaknesses and retain everything you need to know Every feature of this book supports both efficient exam preparation and long term mastery Opening Topics Lists identify the topics you need to learn in each chapter and list EC Council s official exam objectives Key Topics figures tables and lists call attention to the information that s most crucial for exam success Exam Preparation Tasks enable you to review key topics define key terms work through scenarios and answer review questions going beyond mere facts to master the concepts that are crucial to passing the exam and enhancing your career Key Terms are listed in each chapter and defined in a complete glossary explaining all the field s essential terminology This study guide helps you master all the topics on the latest CEH exam including Ethical hacking basics Technical foundations of hacking Footprinting and scanning Enumeration and system hacking Social engineering malware threats and vulnerability analysis Sniffers session hijacking and denial of service Web server hacking web applications and database attacks Wireless technologies mobile security and mobile attacks IDS firewalls and honeypots Cryptographic attacks and defenses Cloud computing IoT and botnets

CompTIA Security+ SY0-601 Cert Guide Omar Santos, Ron Taylor, Joseph Mlodzianowski, 2021-07-05 This is the eBook edition of the CompTIA Security SY0 601 Cert Guide This eBook does not include access to the Pearson Test Prep practice exams that comes with the print edition Learn prepare and practice for CompTIA Security SY0 601 exam success with this CompTIA Security SY0 601 Cert Guide from Pearson IT Certification a leader in IT certification learning CompTIA Security SY0 601 Cert Guide presents you with an organized test preparation routine through the use of proven series elements and techniques Do I Know This Already quizzes open each chapter and enable you to decide how much time you need to spend on each section Exam topic lists make referencing easy Chapter ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly CompTIA Security SY0 601 Cert Guide focuses specifically on the objectives for the CompTIA Security SY0 601 exam Leading security experts Omar

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Network Security: The Complete Reference Roberta Bragg,Mark Rhodes-Ousley,Keith Strassberg,2004 Teaches end to end network security concepts and techniques Includes comprehensive information on how to design a comprehensive security defense model Plus discloses how to develop and deploy computer personnel and physical security policies how to design and manage authentication and authorization methods and much more *Active Defense* Chris Brenton,2006-02-20 Active Defense is our new comprehensive guide to implementing effective network security using the latest technologies Superb coverage of all security threats internal and external and ways to combat them Includes coverage of Virtual Private Networks the newest encryption technologies firewalls and much more Coverage includes Windows including Windows 2000 and sections on Unix and Linux

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