

Cybersecurity Case Study #2

Title: GitHub's Battle Against the Largest DDoS Attack

Introduction

GitHub, a platform where developers collaborate on projects, experienced an extraordinary event on Wednesday, February 28, 2018, at around 12:15 pm EST. A massive wave of traffic, 1.35 terabits per second, hit the website, marking the most powerful distributed denial of service (DDoS) attack ever recorded. Surprisingly, this attack did not require a botnet.

The Attack and Initial Response

A DDoS attack is like a digital traffic jam, where a website gets flooded with so much traffic that it can't handle it all, causing it to slow down or even stop working. In this case, GitHub faced a digital storm. For a few minutes, the website struggled with outages, but then it called for help from its DDoS mitigation service, Akamai Prolexic. Prolexic acted as a shield, routing all the traffic coming in and out of GitHub. It sent the data through special cleaning centers to separate and block the bad traffic from the good.

Comparing to Previous Attacks

The attack was significantly larger than a similar attack that happened in 2016 against an internet infrastructure company called Dyn. That attack reached 1.2 terabits per second and caused connectivity issues across the United States. However, this time, the good guys were prepared.

Defending Against the Attack

Akamai defended against the attack in several ways. In addition to Prolexic's general DDoS defense infrastructure, the company had also recently implemented specific defenses for a type of DDoS attack that comes from something called memcached servers. These servers are like digital librarians that help speed up networks and websites by remembering and quickly providing information. However, they're not supposed to be exposed on the public internet, where anyone can access them.

The Role of Memcached Servers

Unfortunately, about 100,000 memcached servers were exposed online without any protection. This meant that an attacker could access them and send them a special command, which the server would respond to with a much larger reply. This is like asking a librarian a simple question and getting a truckload of books in response!

Amplification Attacks

Unlike other DDoS attacks that use botnets (networks of infected computers) to flood websites with traffic, memcached DDoS attacks don't need a botnet. Instead, attackers just pretend to be their victim by using their victim's IP address and send small requests to multiple memcached

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Sebastian Brünink



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Cybersecurity Defensive Walls in Edge Computing Agbotiname Lucky Imoize, Mohammad S. Obaidat, Houbing Herbert Song, 2025-10-01 Cybersecurity Defensive Walls in Edge Computing dives into the creation of robust cybersecurity defenses for increasingly vulnerable edge devices This book examines the unique security challenges of edge environments including limited resources and potentially untrusted networks providing fundamental concepts for real time vulnerability detection and mitigation through novel system architectures experimental frameworks and AI ML techniques Researchers and industry professionals working in cybersecurity edge computing cloud computing defensive technologies and threat intelligence will find this to be a valuable resource that illuminates critical aspects of edge based security to advance theoretical analysis system design and practical implementation of defensive walls With a focus on fast growing edge application scenarios this book offers valuable insights into strengthening real time security for the proliferation of interconnected edge devices Provides researchers with insights into real world scenarios of the design development deployment application management and benefits of cybersecurity defensive walls in edge computing Discusses critical cybersecurity defensive walls and their applications to resolve security and privacy issues which affect all parties in edge computing and provide practical learning based solutions to solve these problems Presents well structured chapters from industry experts and global researchers who consider unique security challenges including limited resources diverse device types and potentially untrusted network environments

Advancing Smart Cities Simon Elias Bibri, Anna Visvizi, Orlando Troisi, 2024-03-22 This book presents a comprehensive exploration of the transformative journey toward smart cities and the implementation of cutting edge technologies in urban development Divided into four distinct parts it covers a broad range of topics that contribute to sustainable efficient and innovative urban living Encompassing diverse research from IEREK's Future Smart Cities FSC conference it focuses on smart city advancement through sustainable practices digital transformation and IoT integration Covering topics such as smart buildings urban planning during pandemics and IoT applications in health care and agriculture this book shapes the future of urban living It delves further into opportunities in city regeneration human centric smart design IoT data effectiveness and more A valuable resource for academics researchers and policymakers it offers insights into telecommunications AI smart manufacturing and methodologies for urban ecosystem improvement

Cyber Operations Jerry M. Couretas, 2024-04-23 A rigorous new framework for understanding the world of the future Information technology is evolving at a truly revolutionary pace creating with every passing year a more connected world with an ever expanding digital footprint Cyber technologies like voice activated search automated transport and the Internet of Things are only broadening the interface between the personal and the online which creates new challenges and new opportunities Improving both user security and quality of life demands a rigorous farsighted approach to cyber operations Cyber Operations offers a groundbreaking contribution to this effort departing from earlier works to offer a comprehensive

structured framework for analyzing cyber systems and their interactions Drawing on operational examples and real world case studies it promises to provide both cyber security professionals and cyber technologies designers with the conceptual models and practical methodologies they need to succeed Cyber Operations readers will also find Detailed discussions of case studies including the 2016 United States Presidential Election the Dragonfly Campaign and more Coverage of cyber attack impacts ranging from the psychological to attacks on physical infrastructure Insight from an author with top level experience in cyber security Cyber Operations is ideal for all technological professionals or policymakers looking to develop their understanding of cyber issues *The Comprehensive Guide to Cybersecurity's Most Infamous Hacks* Jason

Edwards,2025-03-04 Understanding the evolving nature of cybersecurity threats has never been more important in a world increasingly reliant on digital technology The Comprehensive Guide to Cybersecurity's Most Infamous Hacks offers readers a guided journey through the history of cyberattacks examining key incidents that have defined and shaped modern cybersecurity This book dissects major cyber events and their impact from early hacking exploits like the Phreaking era to sophisticated breaches affecting corporations and governments Each chapter is dedicated to a specific type of cyberattack highlighting notorious breaches malware outbreaks and nation state operations These case studies are paired with a Lessons Learned section that offers readers insights into how these attacks were conducted what vulnerabilities were exploited and how the affected organizations responded While the incidents discussed are technical this book simplifies complex cyber topics to make them accessible to a broad audience whether you re a cybersecurity enthusiast a student or an industry professional **Cybersecurity Threats and Incident Response: Real-World Case Studies on Network Security, Data Breaches, and Risk Mitigation** Athira C M,Joel John,Ritam Maity,Ashvita Koli,Anina Abraham,Vivek S,Lobo Elvis Elias,Jithu

Varghese,Gokul S Unnikrishnan,Eileen Maria Tom,Glory Reji,Joel Abhishek,Gebin George,2025-08-07 Digital globalization changes our world vastly but it also brings more cyber threats Businesses and institutions including banks hospitals governments and schools grapple with threats ranging from data breaches and ransomware to network intrusions In the current changing landscape the analytical ability to identify threats take assertive action and develop resilience are not optional but are in fact necessary This book Cybersecurity Threats and Incident Response Real World Case Studies on Network Security and Incident Response helps to fill the void of information in the field of cybersecurity by health systems Unlike other textbooks which generally reflect specific theoretical points of view this book offers a balanced approach between theory and practice Each case offers technical background and context as well as organizational impact and lessons learned Readers should be able to get past precedent aspects and to the core of what a cyber incident looks like in practice as opposed to in textbook The book is divided into three major sections The first covers network security highlighting vulnerabilities and attacks that threaten the core of digital communication The second looks at data breaches where sensitive information is stolen leaked or misused often resulting in long term effects The third focuses on risk mitigation and incident

response presenting examples of strategies organizations have successfully or unsuccessfully used to contain threats and recover from crises This resource is intended for students professionals and decision makers alike By studying real world cases readers can understand attack sequences evaluate response measures and develop actionable strategies to improve security More broadly the book stresses that cybersecurity is not solely technical it also involves human judgment organizational readiness and strategic foresight Ultimately this book serves both as a guide and a learning tool encouraging readers to learn from past incidents and apply those lessons to create a safer digital future

The U.S. Cybersecurity and Intelligence Analysis Challenges John Michael Weaver, 2022-03-02 One of the prevailing issues regarding security to North America and more pointedly the United States gravitates on the topic of cyber threats confronting this nation These threats are becoming more disruptive and destructive and many nations infrastructure is vulnerable to them This book makes use of a qualitative research methodology looking at a conventional understanding of the four instruments of power that include diplomacy information military and economic D I M E efforts through the use of the York Intelligence Red Team Model Cyber Modified and seeing how adversaries are using them against the United States Moreover this project uses secondary data and makes use of the Federal Secondary Data Case Study Triangulation Model to ensure a balance of sources to dissect the problem

Real World Effects of Cyber-attacks Lucian Tipi, 2016

Cybersecurity Law Jeff Kosseff, 2022-12-13 CYBERSECURITY LAW Learn to protect your clients with this definitive guide to cybersecurity law in this fully updated third edition Cybersecurity is an essential facet of modern society and as a result the application of security measures that ensure the confidentiality integrity and availability of data is crucial Cybersecurity can be used to protect assets of all kinds including data desktops servers buildings and most importantly humans Understanding the ins and outs of the legal rules governing this important field is vital for any lawyer or other professionals looking to protect these interests The thoroughly revised and updated Cybersecurity Law offers an authoritative guide to the key statutes regulations and court rulings that pertain to cybersecurity reflecting the latest legal developments on the subject This comprehensive text deals with all aspects of cybersecurity law from data security and enforcement actions to anti hacking laws from surveillance and privacy laws to national and international cybersecurity law New material in this latest edition includes many expanded sections such as the addition of more recent FTC data security consent decrees including Zoom SkyMed and InfoTrax Readers of the third edition of Cybersecurity Law will also find An all new chapter focused on laws related to ransomware and the latest attacks that compromise the availability of data and systems New and updated sections on new data security laws in New York and Alabama President Biden s cybersecurity executive order the Supreme Court s first opinion interpreting the Computer Fraud and Abuse Act American Bar Association guidance on law firm cybersecurity Internet of Things cybersecurity laws and guidance the Cybersecurity Maturity Model Certification the NIST Privacy Framework and more New cases that feature the latest findings in the constantly evolving cybersecurity law space An article by the author of

this textbook assessing the major gaps in U S cybersecurity law A companion website for instructors that features expanded case studies discussion questions by chapter and exam questions by chapter Cybersecurity Law is an ideal textbook for undergraduate and graduate level courses in cybersecurity cyber operations management oriented information technology IT and computer science It is also a useful reference for IT professionals government personnel business managers auditors cybersecurity insurance agents and academics in these fields as well as academic and corporate libraries that support these professions Case Studies in Secure Computing Biju Issac,Nauman Israr,2014-08-29 In today s age of wireless and mobile computing network and computer security is paramount Case Studies in Secure Computing Achievements and Trends gathers the latest research from researchers who share their insights and best practices through illustrative case studies This book examines the growing security attacks and countermeasures in the stand alone and networking worlds along with other pertinent security issues The many case studies capture a truly wide range of secure computing applications Surveying the common elements in computer security attacks and defenses the book Describes the use of feature selection and fuzzy logic in a decision tree model for intrusion detection Introduces a set of common fuzzy logic based security risk estimation techniques with examples Proposes a secure authenticated multiple key establishment protocol for wireless sensor networks Investigates various malicious activities associated with cloud computing and proposes some countermeasures Examines current and emerging security threats in long term evolution backhaul and core networks Supplies a brief introduction to application layer denial of service DoS attacks Illustrating the security challenges currently facing practitioners this book presents powerful security solutions proposed by leading researchers in the field The examination of the various case studies will help to develop the practical understanding required to stay one step ahead of the security threats on the horizon This book will help those new to the field understand how to mitigate security threats It will also help established practitioners fine tune their approach to establishing robust and resilient security for next generation computing systems

Cybersecurity Law, Standards and Regulations, 2nd Edition Tari Schreider,2020-02-22 ASIS Book of The Year Runner Up Selected by ASIS International the world s largest community of security practitioners In today s litigious business world cyber related matters could land you in court As a computer security professional you are protecting your data but are you protecting your company While you know industry standards and regulations you may not be a legal expert Fortunately in a few hours of reading rather than months of classroom study Tari Schreider s Cybersecurity Law Standards and Regulations 2nd Edition lets you integrate legal issues into your security program Tari Schreider a board certified information security practitioner with a criminal justice administration background has written a much needed book that bridges the gap between cybersecurity programs and cybersecurity law He says My nearly 40 years in the fields of cybersecurity risk management and disaster recovery have taught me some immutable truths One of these truths is that failure to consider the law when developing a cybersecurity program results in a protective facade or false sense of security In a friendly style offering real

world business examples from his own experience supported by a wealth of court cases Schreider covers the range of practical information you will need as you explore and prepare to apply cybersecurity law His practical easy to understand explanations help you to Understand your legal duty to act reasonably and responsibly to protect assets and information Identify which cybersecurity laws have the potential to impact your cybersecurity program Upgrade cybersecurity policies to comply with state federal and regulatory statutes Communicate effectively about cybersecurity law with corporate legal department and counsel Understand the implications of emerging legislation for your cybersecurity program Know how to avoid losing a cybersecurity court case on procedure and develop strategies to handle a dispute out of court Develop an international view of cybersecurity and data privacy and international legal frameworks Schreider takes you beyond security standards and regulatory controls to ensure that your current or future cybersecurity program complies with all laws and legal jurisdictions Hundreds of citations and references allow you to dig deeper as you explore specific topics relevant to your organization or your studies This book needs to be required reading before your next discussion with your corporate legal department This new edition responds to the rapid changes in the cybersecurity industry threat landscape and providers It addresses the increasing risk of zero day attacks growth of state sponsored adversaries and consolidation of cybersecurity products and services in addition to the substantial updates of standards source links and cybersecurity products

Social Engineering in Cybersecurity Gururaj H L,Janhavi V,Ambika V,2024-06-28 In today s digitally interconnected world the threat landscape has evolved to include not just sophisticated technical exploits but also the art of human manipulation Social engineering attacks have emerged as a formidable and often underestimated threat to information security The primary aim of this textbook is to provide a comprehensive and in depth exploration of social engineering attacks The book seeks to equip cybersecurity professionals IT practitioners students and anyone concerned with information security with the knowledge and tools needed to recognize prevent and mitigate the risks posed by social engineering The scope of this textbook is broad and multifaceted It covers a wide range of social engineering attack vectors including phishing vishing pretexting baiting tailgating impersonation and more Each attack vector is dissected with detailed explanations of how they work real world examples and countermeasures

Key Features

- Comprehensive Coverage** Thorough exploration of various social engineering attack vectors including phishing vishing pretexting baiting quid pro quo tailgating impersonation and more
- Psychological Insights** In depth examination of the psychological principles and cognitive biases that underlie social engineering tactics
- Real World Case Studies** Analysis of real world examples and high profile social engineering incidents to illustrate concepts and techniques
- Prevention and Mitigation** Practical guidance on how to recognize prevent and mitigate social engineering attacks including security best practices
- Ethical Considerations** Discussion of ethical dilemmas and legal aspects related to social engineering that emphasizes responsible use of knowledge

This comprehensive textbook on social engineering attacks provides a deep and practical exploration of this increasingly prevalent threat in cybersecurity It covers a wide array of

attack vectors including phishing vishing pretexting and more offering readers an in depth understanding of how these attacks work The book delves into the psychology behind social engineering and examines the cognitive biases and emotional triggers that make individuals susceptible Real world case studies illustrate concepts and techniques while practical guidance equips readers with the knowledge to recognize prevent and mitigate social engineering threats

Cybercrime Investigation Case Studies Brett Shavers,2012-12-17 Cybercrime Investigation Case Studies is a first look excerpt from Brett Shavers new Syngress book Placing the Suspect Behind the Keyboard Case studies are an effective method of learning the methods and processes that were both successful and unsuccessful in real cases Using a variety of case types including civil and criminal cases with different cybercrimes a broad base of knowledge can be gained by comparing the cases against each other The primary goal of reviewing successful cases involving suspects using technology to facilitate crimes is to be able to find and use the same methods in future cases This first look teaches you how to place the suspect behind the keyboard using case studies

Evaluating an Educational Cybersecurity Playable Case Study Tanner West Johnson,2018 The realities of cyberattacks have become more and more prevalent in the world today Due to the growing number of these attacks the need for highly trained individuals has also increased Because of a shortage of qualified candidates for these positions there is an increasing need for cybersecurity education within high schools and universities In this thesis I discuss the development and evaluation of Cybermatics an educational simulation or playable case study designed to help students learn and develop skills within the cybersecurity discipline

Rewired Ryan Ellis,Vivek Mohan,2019-04-23 Examines the governance challenges of cybersecurity through twelve real world case studies Through twelve detailed case studies this superb collection provides an overview of the ways in which government officials and corporate leaders across the globe are responding to the challenges of cybersecurity Drawing perspectives from industry government and academia the book incisively analyzes the actual issues and provides a guide to the continually evolving cybersecurity ecosystem It charts the role that corporations policymakers and technologists are playing in defining the contours of our digital world Rewired Cybersecurity Governance places great emphasis on the interconnection of law policy and technology in cyberspace It examines some of the competing organizational efforts and institutions that are attempting to secure cyberspace and considers the broader implications of the in place and unfolding efforts tracing how different notions of cybersecurity are deployed and built into stable routines and practices Ultimately the book explores the core tensions that sit at the center of cybersecurity efforts highlighting the ways in which debates about cybersecurity are often inevitably about much more Introduces the legal and policy dimensions of cybersecurity Collects contributions from an international collection of scholars and practitioners Provides a detailed map of the emerging cybersecurity ecosystem covering the role that corporations policymakers and technologists play Uses accessible case studies to provide a non technical description of key terms and technologies Rewired Cybersecurity Governance is an excellent guide for all policymakers corporate leaders academics

students and IT professionals responding to and engaging with ongoing cybersecurity challenges

Handbook of Research on Cyber Crime and Information Privacy Cruz-Cunha, Maria Manuela, Mateus-Coelho, Nuno, 2020-08-21 In recent years industries have transitioned into the digital realm as companies and organizations are adopting certain forms of technology to assist in information storage and efficient methods of production This dependence has significantly increased the risk of cyber crime and breaches in data security Fortunately research in the area of cyber security and information protection is flourishing however it is the responsibility of industry professionals to keep pace with the current trends within this field The Handbook of Research on Cyber Crime and Information Privacy is a collection of innovative research on the modern methods of crime and misconduct within cyber space It presents novel solutions to securing and preserving digital information through practical examples and case studies While highlighting topics including virus detection surveillance technology and social networks this book is ideally designed for cybersecurity professionals researchers developers practitioners programmers computer scientists academicians security analysts educators and students seeking up to date research on advanced approaches and developments in cyber security and information protection

Common Sense Guide to Cyber Security for Small Businesses ,2005

Countdown to Zero Day Kim Zetter, 2014-11-11 Top cybersecurity journalist Kim Zetter tells the story behind the virus that sabotaged Iran's nuclear efforts and shows how its existence has ushered in a new age of warfare one in which a digital attack can have the same destructive capability as a megaton bomb In January 2010 inspectors with the International Atomic Energy Agency noticed that centrifuges at an Iranian uranium enrichment plant were failing at an unprecedented rate The cause was a complete mystery apparently as much to the technicians replacing the centrifuges as to the inspectors observing them Then five months later a seemingly unrelated event occurred A computer security firm in Belarus was called in to troubleshoot some computers in Iran that were crashing and rebooting repeatedly At first the firm's programmers believed the malicious code on the machines was a simple routine piece of malware But as they and other experts around the world investigated they discovered a mysterious virus of unparalleled complexity They had they soon learned stumbled upon the world's first digital weapon For Stuxnet as it came to be known was unlike any other virus or worm built before Rather than simply hijacking targeted computers or stealing information from them it escaped the digital realm to wreak actual physical destruction on a nuclear facility In these pages Wired journalist Kim Zetter draws on her extensive sources and expertise to tell the story behind Stuxnet's planning execution and discovery covering its genesis in the corridors of Bush's White House and its unleashing on systems in Iran and telling the spectacular unlikely tale of the security geeks who managed to unravel a sabotage campaign years in the making But Countdown to Zero Day ranges far beyond Stuxnet itself Here Zetter shows us how digital warfare developed in the US She takes us inside today's flourishing zero day grey markets in which intelligence agencies and militaries pay huge sums for the malicious code they need to carry out infiltrations and attacks She reveals just how vulnerable many of our own

critical systems are to Stuxnet like strikes from nation state adversaries and anonymous hackers alike and shows us just what might happen should our infrastructure be targeted by such an attack Propelled by Zetter s unique knowledge and access and filled with eye opening explanations of the technologies involved Countdown to Zero Day is a comprehensive and prescient portrait of a world at the edge of a new kind of war **CYBERSECURITY STRATEGIES AND BEST PRACTICES** MILAD. ASLANER,2024

Many Hands in the Cookie Jar Quentin E. Hodgson,Yuliya Shokh,Jonathan Balk,2022-06-15 This report describes major cyber incidents against U S government systems and addresses whether responses have changed whether they changed adversary behavior and what the United States can learn from these cases to inform future policymaking Cyber Incident Response Rob Botwright,101-01-01 CYBER INCIDENT RESPONSE BUNDLE Dive into the world of cybersecurity with our exclusive Cyber Incident Response Counterintelligence and Forensics for Security Investigators bundle Whether you re starting your journey or enhancing your expertise this comprehensive collection equips you with the skills and strategies needed to tackle cyber threats head on Book 1 Cyber Incident Response Fundamentals Begin your exploration with essential concepts and methodologies Learn incident detection initial response protocols and the fundamentals of forensic analysis Book 2 Intermediate Cyber Forensics Advance your skills with in depth techniques and tools Master digital evidence acquisition forensic analysis and attribution methods essential for effective investigations Book 3 Advanced Counterintelligence Strategies Level up with expert tactics and strategies Discover proactive threat hunting advanced incident response techniques and counterintelligence methods to thwart sophisticated cyber threats Book 4 Mastering Cyber Incident Response Become an elite investigator with comprehensive techniques Learn crisis management incident command systems and the integration of advanced technologies for resilient cybersecurity operations Why Choose Our Bundle Progressive Learning From beginner to elite each book builds upon the last to deepen your understanding and skills Practical Insights Real world case studies and hands on exercises ensure you re ready to handle any cyber incident Expert Guidance Written by cybersecurity professionals with years of industry experience Secure Your Future in Cybersecurity Equip yourself with the knowledge and tools to protect against cyber threats Whether you re a security professional IT manager or aspiring investigator this bundle is your gateway to mastering cyber incident response Get Your Bundle Now Don t miss out on this opportunity to elevate your cybersecurity skills and defend against evolving threats Secure your bundle today and embark on a journey towards becoming a trusted cybersecurity expert Join thousands of cybersecurity professionals who have transformed their careers with our Cyber Incident Response bundle Take charge of cybersecurity today

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