

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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**United States. Congress. Senate.
Committee on Homeland Security and
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Cyber Security Solutions for Protecting and Building the Future Smart Grid Divya Asija, R K Viral, Resul Daş, Gürkan Tuna, 2024-10-08 Cyber Security Solutions for Protecting and Building the Future Smart Grid guides the reader from the fundamentals of grid security to practical techniques necessary for grid defense Through its triple structure readers can expect pragmatic detailed recommendations on the design of solutions and real world problems The book begins with a supportive grounding in the security needs and challenges of renewable integrated modern grids Next industry professionals provide a wide range of case studies and examples for practical implementation Finally cutting edge researchers and industry practitioners guide readers through regulatory requirements and develop a clear framework for identifying best practices Providing a unique blend of theory and practice this comprehensive resource will help readers safeguard the sustainable grids of the future Provides a fundamental overview of the challenges facing the renewable integrated electric grid Offers a wide range of case studies examples and practical techniques for implementing security in smart and micro grids Includes detailed guidance and discussion of international standards and regulations for industry and implementation

Handbook of Research on Advancing Cybersecurity for Digital Transformation Sandhu, Kamaljeet, 2021-06-18

Cybersecurity has been gaining serious attention and recently has become an important topic of concern for organizations government institutions and largely for people interacting with digital online systems As many individual and organizational activities continue to grow and are conducted in the digital environment new vulnerabilities have arisen which have led to cybersecurity threats The nature source reasons and sophistication for cyberattacks are not clearly known or understood and many times invisible cyber attackers are never traced or can never be found Cyberattacks can only be known once the attack and the destruction have already taken place long after the attackers have left Cybersecurity for computer systems has increasingly become important because the government military corporate financial critical infrastructure and medical organizations rely heavily on digital network systems which process and store large volumes of data on computer devices that are exchanged on the internet and they are vulnerable to continuous cyberattacks As cybersecurity has become a global concern it needs to be clearly understood and innovative solutions are required The Handbook of Research on Advancing Cybersecurity for Digital Transformation looks deeper into issues problems and innovative solutions and strategies that are linked to cybersecurity This book will provide important knowledge that can impact the improvement of cybersecurity which can add value in terms of innovation to solving cybersecurity threats The chapters cover cybersecurity challenges technologies and solutions in the context of different industries and different types of threats This book is ideal for cybersecurity researchers professionals scientists scholars and managers as well as practitioners stakeholders researchers academicians and students interested in the latest advancements in cybersecurity for digital transformation **Research Anthology on Securing Medical Systems and Records** Management Association, Information Resources, 2022-06-03 With

the influx of internet and mobile technology usage many medical institutions from doctor s offices to hospitals have implemented new online technologies for the storage and access of health data as well as the monitoring of patient health Telehealth was particularly useful during the COVID 19 pandemic which monumentally increased its everyday usage However this transition of health data has increased privacy risks and cyber criminals and hackers may have increased access to patient personal data Medical staff and administrations must remain up to date on the new technologies and methods in securing these medical systems and records The Research Anthology on Securing Medical Systems and Records discusses the emerging challenges in healthcare privacy as well as the technologies methodologies and emerging research in securing medical systems and enhancing patient privacy It provides information on the implementation of these technologies as well as new avenues of medical security research Covering topics such as biomedical imaging internet of things and watermarking this major reference work is a comprehensive resource for security analysts data scientists hospital administrators leaders in healthcare medical professionals health information managers medical professionals mobile application developers security professionals technicians students libraries researchers and academicians

Advanced Research in Technologies, Information, Innovation and Sustainability Teresa Guarda, Filipe Portela, Maria Fernanda Augusto, 2026-03-06 This two volume set consists of the peer reviewed papers from 15 workshops of the 2025 International Conference on Advanced Research in Technologies Information Innovation and Sustainability ARTIIS 2025 held in Cartagena de Indias Colombia during October 21 23 2025 The 59 full papers and 8 short papers included in these volumes were carefully reviewed and selected from 177 submissions These papers focus on topics such as computing solutions data intelligence sustainability ethics security and privacy

International Business Shad Morris, James Oldroyd, 2023-03-21 An incisive and comprehensive exploration of international business in the modern world In the newly updated third edition of International Business an accomplished team of educators and business practitioners delivers a revitalized approach to the discipline that brings international business to life This latest edition of the book includes one of a kind chapters on sustainability poverty and innovation as well as new Mini Simulation activities explorations of the Covid 19 pandemic and its effects on commerce the business implications of social and civic justice race and inequality debates new whiteboard animations a video and podcast series and new case studies on equity diversity and inclusion at Microsoft International Business efficiently prepares students for the global economy and transforms the authors impressive international experience at multi national corporations into an indispensable pedagogical resource

Transnational Repression in the Age of Globalisation Saipira Furstenberg, Dana Moss, 2024-04-30 Bringing together leading scholars this volume is the first of its kind to address the growing global phenomenon of transnational repression in a comparative perspective Authoritarian regimes in places like China Russia and Saudi Arabia are infamous for cracking down on domestic opposition movements and democracy activists at home And in our age of globalisation migration and technological development dictators are

increasingly able to extend their authoritarian power over their critics abroad Using tactics that include surveillance coercion harassment and physical violence transnational repression threatens the lives of democracy defenders the basic rights of diaspora members and the rule of law in host states

Grounded Robert M. Farley, 2014-01-31 Director and producer Tim Burton impresses audiences with stunning visuals sinister fantasy worlds and characters whose personalities are strange and yet familiar Drawing inspiration from sources as varied as Lewis Carroll Salvador Dalí Washington Irving and Dr Seuss Burton's creations frequently elicit both alarm and wonder Whether crafting an offbeat animated feature a box office hit a collection of short fiction or an art exhibition Burton pushes the envelope and he has emerged as a powerful force in contemporary popular culture In *The Philosophy of Tim Burton* a distinguished group of scholars examines the philosophical underpinnings and significance of the director's oeuvre investigating films such as *Batman* 1989 *Edward Scissorhands* 1990 *The Nightmare before Christmas* 1993 *Sleepy Hollow* 1999 *Big Fish* 2003 *Sweeney Todd* 2007 *Alice in Wonderland* 2010 and *Dark Shadows* 2012 The essays in this volume explore Burton's distinctive style often disturbing content and popular appeal through three thematic lenses identity views on authority and aesthetic vision Covering topics ranging from Burton's fascination with Victorian ideals to his celebration of childhood to his personal expression of the fantastic the contributors highlight the filmmaker's peculiar narrative style and his use of unreal settings to prompt heightened awareness of the world we inhabit *The Philosophy of Tim Burton* offers a penetrating and provocative look at one of Hollywood's most influential auteurs

China's Relations with Africa Joshua Eisenman, David H. Shinn, 2023-08-01 Since Xi Jinping's accession to power in 2012 nearly every aspect of China's relations with Africa has grown dramatically Beijing has increased the share of resources it devotes to African countries expanding military cooperation technological investment and educational and cultural programs as well as extending its political influence This book examines the full scope of contemporary political and security relations between China and Africa David H Shinn and Joshua Eisenman not only explain the specific tactics and methods that Beijing uses to build its strategic relations with African political and military elites but also contextualize and interpret them within China's larger geostrategy They argue that the priorities of Chinese leaders including the conflation of threats to the Communist Party with threats to the country a growing emphasis on relations in the Global South and a focus on countering U S hegemony have combined to elevate Africa's importance among policy makers in Beijing Ranging from diplomacy and propaganda to arms sales and space cooperation from increasingly frequent People's Liberation Army Navy port calls in Africa to the rising number of African students studying in China this book marshals extensive and compelling qualitative and quantitative evidence of the deepening ties between China and Africa Drawing on two decades of systematic data and hundreds of surveys and in person interviews Shinn and Eisenman shed new light on the state of China Africa relations today and consider what the future may hold

Toward a Grand Strategy Against Terrorism Christopher Harmon, Andrew Pratt, Sebastian Gorka, 2010-04-22 *Toward A Grand Strategy Against Terrorism* is a cohesive series of essays prepared by

noted academics and counterterrorism practitioners within and associated with the counterterrorism program of the George C Marshall European Center for Security Studies These chapters address both the use of military force and the employment of non military tools the role of international cooperation and the importance of the ideological contest Collectively they push toward a grand strategy against terrorism This volume makes the prudence and research and experience of the Program on Terrorism and Security Studies available to all who want to help in countering terrorism students those at military graduate schools private experts on security in the business world members of police forces and defense departments conflict resolution experts and many other sorts of practitioners seeking a sober and highly international approach

CIS Annual,2005

Hacked Charlie Mitchell,2016-06-20 The spectacular cyber attack on Sony Pictures and costly hacks of Target Home Depot Neiman Marcus and databases containing sensitive data on millions of U S federal workers have shocked the nation Despite a new urgency for the president Congress law enforcement and corporate America to address the growing threat the hacks keep coming each one more pernicious than the last from China Russia Iran North Korea the Middle East and points unknown The continuing attacks raise a deeply disturbing question Is the issue simply beyond the reach of our government political leaders business leaders and technology visionaries to resolve In *Hacked* veteran cybersecurity journalist Charlie Mitchell reveals the innovative occasionally brilliant and too often hapless government and industry responses to growing cybersecurity threats He examines the internal power struggles in the federal government the paralysis on Capitol Hill and the industry s desperate effort to stay ahead of both the bad guys and the government

Cyber Operations Jerry M. Couretas,2024-04-08 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 U.S. Cybersecurity and Intelligence Analysis Challenges John Michael Weaver,2022-03-03 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.

The New Era of Cybersecurity Breaches Graeme Payne, 2019-08-08. Over the last decade, as companies have continued to march forward on the digitization of everything, the cybersecurity risk profile has continued to change. Since 2005, there have been over 9,000 publicly disclosed data breaches. In the last five years, the financial losses due to cyber attacks have risen by over 62%. Identifying, mitigating, and managing cybersecurity risks in today's environment is a challenging task. On July 29, 2017, Equifax discovered criminal hackers had broken into its systems. Graeme Payne was one of the first senior executives to be told about the attack. Six weeks later, Equifax announced that the personal information of over 140 million US consumers had been exposed in one of the largest data breaches of the 21st Century. What followed was a challenging response that drew widespread criticism. Graeme Payne was fired on October 2, the day before former Chairman CEO Richard Smith testified to Congress that the root cause of the data breach was a human error and a technological failure. Graeme Payne would later be identified as the human error. In *The New Era of Cybersecurity Breaches*, Graeme Payne describes the new era of cybersecurity breaches, the challenges of managing cybersecurity, and the story of the Equifax Cybersecurity Breach. Graeme tells the story of how Equifax became a valuable target for cybercriminals, the conclusions reached by various investigators regarding the cause of the breach, the challenges faced by Equifax in responding to the breach, and the widespread consequences that continue to have an impact. *The New Era of Cybersecurity Breaches* is a must-read for board members, executives, managers, and security leaders. This book will help you understand the importance of implementing strong procedural, technical, and people controls to secure your systems. Essential lessons in preparing for and responding to a major data breach when not if one occurs. The critical role boards and senior leaders have in your organization's cybersecurity program. The lessons learned from major cybersecurity breaches, including the Equifax 2017 Data Breach, can be applied to your company to test and improve your cybersecurity posture.

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

[America's Data Held Hostage](#) United States. Congress. Senate. Committee on Homeland Security and Governmental Affairs,2022

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

A Case Study of the Capital One Data Breach Nelson Novaes Neto,2020 In an increasingly regulated world with companies prioritizing a big part of their budget for expenses with cyber security protections why have all of these protection initiatives and compliance standards not been enough to prevent the leak of billions of data points in recent years New data protection and privacy laws and recent cyber security regulations

such as the General Data Protection Regulation GDPR that went into effect in Europe in 2018 demonstrate a strong trend and growing concern on how to protect businesses and customers from the significant increase in cyberattacks Does the flaw lie in the existing compliance requirements or in how companies manage their protections and enforce compliance controls The purpose of this research was to answer these questions by means of a technical assessment of the Capital One data breach incident one of the largest financial institutions in the U S This case study aims to understand the technical modus operandi of the attack map out exploited vulnerabilities and identify the related compliance requirements that existed based on the National Institute of Standards and Technology NIST Cybersecurity Framework version 1.1 an agnostic framework widely used in the global industry to provide cyber threat mitigation guidelines The results of this research and the case study will help government entities regulatory agencies and companies to improve their cyber security controls for the protection of organizations and individuals

Fixing American Cybersecurity Larry Clinton, 2023 Incentivizing Cybersecurity goes beyond books that simply describe cybersecurity technology or law to provide a coherent and comprehensive explanation of why we are making so little progress in addressing the threat and it lays out a specific path to address the threat in a new more effective fashion The book calls for a new market based social contract between the public and private sectors Since virtually every aspect of modern life is dependent on these cyber systems cybersecurity is everybody's issue It should be required reading for both industry and government leaders as well as cybersecurity practitioners The book is a collaborative effort of the Board of Directors of the Internet Security Alliance Each author is a recognized expert in cybersecurity typically with substantial frontline responsibility for addressing the most sophisticated cyber attackers Taken together these authors bring elite level cybersecurity expertise into one coherent volume

US National Cybersecurity Damien Van Puyvelde, Aaron Brantly, 2017-07-20 This volume explores the contemporary challenges to US national cybersecurity Taking stock of the field it features contributions by leading experts working at the intersection between academia and government and offers a unique overview of some of the latest debates about national cybersecurity These contributions showcase the diversity of approaches and issues shaping contemporary understandings of cybersecurity in the West such as deterrence and governance cyber intelligence and big data international cooperation and public private collaboration The volume's main contribution lies in its effort to settle the field around three main themes exploring the international politics concepts and organization of contemporary cybersecurity from a US perspective Related to these themes this volume pinpoints three pressing challenges US decision makers and their allies currently face as they attempt to govern cyberspace maintaining international order solving conceptual puzzles to harness the modern information environment and coordinating the efforts of diverse partners The volume will be of much interest to students of cybersecurity defense studies strategic studies security studies and IR in general

Whispering the Techniques of Language: An Emotional Quest through **Cybersecurity Case Study America 41 341 Cybersecurity Case Study America**

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