

# 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

# Cybersecurity Case Study For Startups 14 1745

## Cybersecurity Case Study

**Biju Issac, Nauman Israr**



## **Cybersecurity Case Study For Startups 14 1745 Cybersecurity Case Study:**

**Cyber Security Innovation for the Digital Economy** Petrenko, Sergei, 2018-12-07 Cyber Security Innovation for the Digital Economy considers possible solutions to the relatively new scientific technical problem of developing innovative solutions in the field of cyber security for the Digital Economy The solutions proposed are based on the results of exploratory studies conducted by the author in the areas of Big Data acquisition cognitive information technologies cognitive technologies new methods of analytical verification of digital ecosystems on the basis of similarity invariants and dimensions and computational cognitivism involving a number of existing models and methods In practice this successfully allowed the creation of new entities the required safe and trusted digital ecosystems on the basis of the development of digital and cyber security technologies and the resulting changes in their behavioral preferences Here the ecosystem is understood as a certain system of organizations created around a certain Technological Platform that use its services to make the best offers to customers and access to them to meet the ultimate needs of clients legal entities and individuals The basis of such ecosystems is a certain technological platform created on advanced innovative developments including the open interfaces and code machine learning cloud technologies Big Data collection and processing artificial intelligence technologies etc The mentioned Technological Platform allows creating the best offer for the client both from own goods and services and from the offers of external service providers in real time This book contains four chapters devoted to the following subjects Relevance of the given scientific technical problems in the cybersecurity of Digital Economy Determination of the limiting capabilities Possible scientific and technical solutions Organization of perspective research studies in the area of Digital Economy cyber security in Russia

**Managing Cybersecurity Risk** Jonathan Reuvid, 2018-02-28 This book provides detailed information about the cybersecurity environment and specific threats and offers advice on the resources available to build defences and the selection of tools and managed services to achieve enhanced security at acceptable cost

**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 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 First Principles: A Reboot of Strategy and Tactics** Rick Howard, 2023-04-19 The first expert discussion of the foundations of cybersecurity In *Cybersecurity First Principles* Rick Howard the Chief Security Officer Chief Analyst and Senior fellow at The Cyberwire challenges the conventional wisdom of current cybersecurity best practices strategy and tactics and makes the case that the profession needs to get back to first principles The author convincingly lays out the arguments for the absolute cybersecurity first principle and then discusses the strategies and tactics required to achieve it In the book you ll explore Infosec history from the 1960s until the early 2020s and why it has largely failed What the infosec community should be trying to achieve instead The arguments for the absolute and atomic cybersecurity first principle The strategies and tactics to adopt that will have the greatest impact in pursuing the ultimate first principle Case studies through a first principle lens of the 2015 OPM hack the 2016 DNC Hack the 2019 Colonial Pipeline hack and the Netflix Chaos Monkey resilience program A

top to bottom explanation of how to calculate cyber risk for two different kinds of companies This book is perfect for cybersecurity professionals at all levels business executives and senior security professionals mid level practitioner veterans newbies coming out of school as well as career changers seeking better career opportunities teachers and students

**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

**Cyber Risk, Intellectual Property Theft and Cyberwarfare** Ruth Taplin,2020-11-12 The desire to steal the intellectual property IP of others be they creative individuals or company teams working in patent pools to create new innovations remains the same Political methods have become more sophisticated in terms of devaluing the output of creative humans by creating open source access which can be taken freely by all and sundry What has changed is the new cyber based technology that allows increased theft of IP Likewise warfare for geo political imperatives is not new but sophisticated cyber based methods that can actually carry out infrastructural damage through cyberspace are new and are accordingly termed cyberwarfare How cyber strategies are used in IP theft and cyberwarfare in relation to new complex digital technology such as the Internet of Things IoT is explored in relation to particular essential sectors in the economy marine smart energy power grids and insurance Country specific studies based on either being the recipient or perpetrator or both of cyberattacks provide analysis in relation to Japan China and North Korea Russia Europe the UK in particular Iran and the USA

Real World Effects of Cyber-attacks Lucian Tipi,2016 This case study is based on a real incident which aims to raise awareness of state sponsored cyber crime

**Big Breaches** Neil Daswani,Moudy Elbayadi,2021-06-02 The cybersecurity industry has seen an investment of over 45 billion in the past 15 years Hundreds of thousands of jobs in the field remain unfilled amid breach after breach and the problem has come to a head It is time for everyone not just techies to become informed and empowered on

the subject of cybersecurity In engaging and exciting fashion Big Breaches covers some of the largest security breaches and the technical topics behind them such as phishing malware third party compromise software vulnerabilities unencrypted data and more Cybersecurity affects daily life for all of us and the area has never been more accessible than with this book You will obtain a confident grasp on industry insider knowledge such as effective prevention and detection countermeasures the meta level causes of breaches the seven crucial habits for optimal security in your organization and much more These valuable lessons are applied to real world cases helping you deduce just how high profile mega breaches at Target JPMorganChase Equifax Marriott and more were able to occur Whether you are seeking to implement a stronger foundation of cybersecurity within your organization or you are an individual who wants to learn the basics Big Breaches ensures that everybody comes away with essential knowledge to move forward successfully Arm yourself with this book s expert insights and be prepared for the future of cybersecurity Who This Book Is For Those interested in understanding what cybersecurity is all about the failures have taken place in the field to date and how they could have been avoided For existing leadership and management in enterprises and government organizations existing professionals in the field and for those who are considering entering the field this book covers everything from how to create a culture of security to the technologies and processes you can employ to achieve security based on lessons that can be learned from past breaches

*Start-Up Secure*  
Chris Castaldo, 2021-03-30 Add cybersecurity to your value proposition and protect your company from cyberattacks

Cybersecurity is now a requirement for every company in the world regardless of size or industry Start Up Secure Baking Cybersecurity into Your Company from Founding to Exit covers everything a founder entrepreneur and venture capitalist should know when building a secure company in today s world It takes you step by step through the cybersecurity moves you need to make at every stage from landing your first round of funding through to a successful exit The book describes how to include security and privacy from the start and build a cyber resilient company You ll learn the basic cybersecurity concepts every founder needs to know and you ll see how baking in security drives the value proposition for your startup s target market This book will also show you how to scale cybersecurity within your organization even if you aren t an expert

Cybersecurity as a whole can be overwhelming for startup founders Start Up Secure breaks down the essentials so you can determine what is right for your start up and your customers You ll learn techniques tools and strategies that will ensure data security for yourself your customers your funders and your employees Pick and choose the suggestions that make the most sense for your situation based on the solid information in this book Get primed on the basic cybersecurity concepts every founder needs to know Learn how to use cybersecurity know how to add to your value proposition Ensure that your company stays secure through all its phases and scale cybersecurity wisely as your business grows Make a clean and successful exit with the peace of mind that comes with knowing your company s data is fully secure Start Up Secure is the go to source on cybersecurity for start up entrepreneurs leaders and individual contributors who need to select the right

frameworks and standards at every phase of the entrepreneurial journey

**Countdown to Zero Day** Kim Zetter, 2015-09-01 A top cybersecurity journalist 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 Immensely enjoyable Zetter turns a complicated and technical cyber story into an engrossing whodunit The Washington Post The virus now known as Stuxnet was unlike any other piece of malware built before Rather than simply hijacking targeted computers or stealing information from them it proved that a piece of code could escape the digital realm and wreak actual physical destruction in this case on an Iranian nuclear facility In these pages journalist Kim Zetter tells the whole story behind the world's first cyberweapon covering its genesis in the corridors of the White House and its effects in Iran and telling the spectacular unlikely tale of the security geeks who managed to unravel a top secret sabotage campaign years in the making But Countdown to Zero Day also ranges beyond Stuxnet itself exploring the history of cyberwarfare and its future showing us what might happen should our infrastructure be targeted by a Stuxnet style attack and ultimately providing a portrait of a world at the edge of a new kind of war

**Developing a Cybersecurity Immune System for Industry 4.0** Sergei Petrenko, 2020-04-30 Cyber immune systems try to mimic the adaptive immune system of humans and animals because of their capability to detect and fend off new unseen pathogens Today's current cybersecurity systems provide an effective defense mechanism against known cyber attacks but are not so good when it comes to defending against unknown attacks This book describes the possible development and organization of self healing computing based on cyber immunity techniques and aimed at working in the new realm of Industry 4.0 Industry 4.0 is the trend towards automation and data exchange in manufacturing technologies and processes which include cyber physical systems CPS the internet of things IoT industrial internet of things IIOT cloud computing cognitive computing and artificial intelligence The book describes the author's research and development of cyber immunity systems that will prevent the destruction of critical information infrastructure by future unknown cyber attacks and thus avoid the significant or catastrophic consequences of such attacks The book is designed for undergraduate and post graduate students for engineers in related fields as well as managers of corporate and state structures chief information officers CIO chief information security officers CISO architects and research engineers in the field of cybersecurity This book contains four chapters Cyber Immunity Concept of the Industry 4.0 Mathematical Framework for Immune Protection of Industry 4.0 Trends and prospects of the development of Immune Protection of Industry 4.0 From detecting cyber attacks to self healing Industry 4.0

**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

**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 For Startups** Leo Goode,2025-09-09 Launching a startup is exhilarating but navigating the complex world of cybersecurity can feel overwhelming Cybersecurity For Startups The Ultimate Handbook For Success provides the essential knowledge and practical strategies you need to protect your burgeoning business from cyber threats without breaking the bank or hindering your growth This comprehensive guide offers a clear concise and actionable approach to cybersecurity tailored specifically for the unique challenges faced by startups Forget dense technical jargon this book is written in plain English making it accessible to founders entrepreneurs and anyone involved in a startup's operations regardless of their technical expertise This book goes beyond theoretical concepts offering practical step by step guidance on implementing effective security measures Learn how to identify and mitigate vulnerabilities build a strong security culture within your team and respond effectively to incidents From securing your cloud infrastructure to protecting sensitive customer data this handbook equips you with the tools and

knowledge to build a robust and resilient cybersecurity posture from the ground up We cover crucial aspects such as developing a comprehensive security policy choosing the right security tools for your budget managing employee access and permissions responding to security incidents and staying ahead of emerging threats With real world examples and case studies this book demystifies cybersecurity and empowers you to make informed decisions minimizing your risk and maximizing your chances of success Written by experienced cybersecurity professionals with a deep understanding of the startup ecosystem **Cybersecurity For Startups The Ultimate Handbook For Success** is your indispensable guide to navigating the digital landscape safely and confidently It s an investment in your peace of mind and the long term success of your venture **Practical Actionable Steps** Learn exactly what to do step by step to improve your cybersecurity **Budget Friendly Strategies** Implement effective security without breaking the bank **Startup Specific Focus** Addresses the unique cybersecurity challenges faced by startups **Clear Concise Language** Easy to understand even without a technical background **Real World Examples Case Studies** Learn from the successes and failures of others

**Cyber Wars** Charles Arthur,2018-05-03 **Cyber Wars** gives you the dramatic inside stories of some of the world s biggest cyber attacks These are the game changing hacks that make organizations around the world tremble and leaders stop and consider just how safe they really are Charles Arthur provides a gripping account of why each hack happened what techniques were used what the consequences were and how they could have been prevented Cyber attacks are some of the most frightening threats currently facing business leaders and this book provides a deep insight into understanding how they work how hackers think as well as giving invaluable advice on staying vigilant and avoiding the security mistakes and oversights that can lead to downfall No organization is safe but by understanding the context within which we now live and what the hacks of the future might look like you can minimize the threat In **Cyber Wars** you will learn how hackers in a TK Maxx parking lot managed to steal 94m credit card details costing the organization 1bn how a 17 year old leaked the data of 157 000 TalkTalk customers causing a reputational disaster how Mirai can infect companies Internet of Things devices and let hackers control them how a sophisticated malware attack on Sony caused corporate embarrassment and company wide shut down and how a phishing attack on Clinton Campaign Chairman John Podesta s email affected the outcome of the 2016 US election

**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

**Case Study** Lucian Tipi,2016 This case study is based on a real incident which aims to raise awareness of state sponsored cyber crime

## The Enigmatic Realm of **Cybersecurity Case Study For Startups 14 1745 Cybersecurity Case Study**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Cybersecurity Case Study For Startups 14 1745 Cybersecurity Case Study** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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