

Stuxnet

Richard A. Clarke, Robert K. Knake

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.

Stuxnet Roman Poroshyn, 2013-02-12 Not Every Cyber-Weapon Gets A Second Chance...Computer viruses can be confusing. They can also be fascinating. A new book by Roman Poroshyn is about a notorious computer virus Stuxnet. You might be wondering: there are so many computer viruses, why Stuxnet? What is so special about the Stuxnet computer worm? Stuxnet never managed to become the biggest, the scariest, or the most sophisticated malware. At the same time, because of some unexpected twists of fate, Stuxnet had become much more than just a computer worm. Stuxnet brought from shadows into spotlight some very serious issues with the Internet security ranging from stolen digital certificates and defenselessness of industrial computers to an existence of gray market of pre-written software vulnerabilities for sale. Overall, the story of Stuxnet is a story of its evolution from an ordinary malware to a cyber-weapon that was followed by its major transformation into a successful long-term propaganda-weapon. The appearance of Stuxnet that was loaded with two digital certificates and four previously unknown breaches in Window's defense raised some painful questions. Who was behind Stuxnet? For how long was this cyber-war going on? Are secure Internet transactions really secure? Can we trust digital certificates? Who is in the business of creating and selling malware to penetrate Internet browsers' security? The story of the computer worm Stuxnet is full of surprises and unexpected twists that might change your opinion about the present and future of the Internet and the World Wide Web.

Stuxnet to Sunburst Andrew Jenkinson, 2021-10-14 Stuxnet to Sunburst: 20 Years of Digital Exploitation and Cyberwarfare takes the reader on a journey from the terrorist attacks of 9/11 onwards and the massive insatiable appetite, focus and investment by the Five Eyes agencies, in particular the U.S., to build the capability of digital eavesdropping and industrial espionage. With tens of trillions of dollars moving throughout hundreds of thousands of staff, and many contractors draining the country of intelligence and technical capability, the quest was simple and the outcome horrifying. No one in the world has connected the dots, until now. From digital eavesdropping and manipulation of the agencies to Stuxnet, this book covers

how the world's first use of digital code and digital certificates for offensive purposes against the Iranians and their nuclear power facilities, caused collateral damage. Proceeding to today's SolarWinds attack, code-named Sunburst, the same methods of exploitation and manipulation originally used by the agencies are now being used against companies and governments with devastating effects. The SolarWinds breach has caused knock-on breaches to thousands of client companies including the U.S. government and is estimated to cost more than one trillion dollars. The monster has truly been turned against its creator and due to the lack of security and defence, breaches are occurring daily at an alarming rate. The U.S. and UK governments have little to no answer. The book also contains a chapter on breaches within the COVID-19 sector from research to immunisation and the devastating December 2020 breach of SolarWinds.

Robust Control System Networks Ralph Langner, 2011-09-15 From the researcher who was one of the first to identify and analyze the infamous industrial control system malware Stuxnet, comes a book that takes a new, radical approach to making Industrial control systems safe from such cyber attacks: design the controls systems themselves to be robust. Other security experts advocate risk management, implementing more firewalls and carefully managing passwords and access. Not so this book: those measures, while necessary, can still be circumvented. Instead, this book shows in clear, concise detail how a system that has been set up with an eye toward quality design in the first place is much more likely to remain secure and less vulnerable to hacking, sabotage or malicious control. It blends several well-established concepts and methods from control theory, systems theory, cybernetics and quality engineering to create the ideal protected system. The book's maxim is taken from the famous quality engineer William Edwards Deming, If I had to reduce my message to management to just a few words, I'd say it all has to do with reducing variation. Highlights include: - An overview of the problem of cyber fragility in industrial control systems - How to make an industrial control system robust, including principal design objectives and overall strategic planning - Why using the methods of quality engineering like the Taguchi method, SOP and UML will help to design more armored industrial control systems.

Stuxnet Roman Poroshyn, 2014-01-05 Computer viruses can be confusing. They can also be fascinating. This book is about a notorious computer virus Stuxnet. You might be wondering: there are so many computer viruses, why Stuxnet? What is so special about the Stuxnet computer worm? Stuxnet never managed to become the biggest, the scariest, or the most sophisticated malware. At the same time, because of some unexpected twists of fate, Stuxnet had become much more than just a computer worm. Stuxnet brought from shadows into spotlight some very serious issues with the Internet security ranging from stolen digital certificates and defenselessness of industrial computers to an existence of gray market of pre-written software vulnerabilities for sale. Overall, the story of Stuxnet is a story of its evolution from an ordinary malware to a cyber-weapon that was followed by its major transformation into a successful long-term propaganda-weapon. The appearance of Stuxnet that was loaded with two digital certificates and four previously unknown breaches in Window's defense raised some painful questions. Who was behind Stuxnet? For how long was this cyber-war going on? Are secure Internet transactions really secure? Can we trust digital certificates? Who is in the

business of creating and selling malware to penetrate Internet browsers' security? The story of the computer worm Stuxnet is full of surprises and unexpected twists that might change your opinion about the present and future of the Internet and the World Wide Web. Note: This is the Third Edition of the book *Stuxnet: The True Story of Hunt and Evolution*. The book was revised, and three new chapters were added to reflect new developments.

Cyber Conflict After Stuxnet Adam Segal, 2016-06 With the discovery of Stuxnet in 2010, the cyber conflict community crossed a strategic Rubicon. For years, Cassandras had warned of a future in which networked cyberspace would move beyond hacking and espionage to become a battlefield with effects in the real world. Stuxnet proved this was possible. After careful testing, the Stuxnet malware found its way into closed industrial control system networks controlling Iran's nuclear centrifuges and subtly caused them to destroy themselves in a way that looked like random, unexplainable malfunctions. This edited volume represents the first effort to comprehensively analyze Stuxnet and its implications. It brings together an interdisciplinary group of experts to examine the incident's strategic, legal, economic, military, and diplomatic consequences. The essays explore Stuxnet in the context of both international and US domestic law; reveal the varied reactions in Beijing, Moscow, and Tehran; and offer confidence-building measures and frameworks for dealing with a post-Stuxnet world.

The Stuxnet Computer Worm and Industrial Control System Security Jackson C. Rebane, 2011 In September 2010, media reports emerged about a new form of cyber attack that appeared to target Iran, although the actual target, if any, is unknown. Through the use of thumb drives in computers that were not connected to the Internet, a malicious software program known as Stuxnet infected computer systems that were used to control the functioning of a nuclear power plant. Once inside the system, Stuxnet had the ability to degrade or destroy the software on which it operated. This book examines the discovery of the Stuxnet worm which has raised several issues for Congress, including the effect on national security, what the government's response should be, whether an international treaty to curb the use of malicious software is necessary, and how such a treaty could be implemented.

Before Stuxnet Roman Poroshyn, 2017-11-29 The idea of creating a computer worm capable of attacking uranium enrichment facilities could not come up out of nowhere. It all began with two isolated events, which happened in different geographical places and years apart from each other. The first event took place in India near Pakistan's eastern border in 1974. The second event happened in the coastal city of Taranto, Italy, in 2003. Despite the fact that both events took place outside Iran, they combined to create a background for everything that later would become known as the Stuxnet computer worm and its cyber-attacks against the Iranian uranium enrichment program. For this reason alone, those events and their aftermath deserve a closer look. This brief book puts the creation of the computer worm Stuxnet in context. It follows an amazing journey of uranium enrichment centrifuges from the Soviet Union to Western Europe, then to Pakistan, and finally from Malaysia to Libya to the USA to Israel, where they were utilized to test the infamous computer worm Stuxnet. It also looks at unsuccessful attempts of sabotage, which had become the main weapon of choice for Western secret services in their secret war against Iranian nuclear program.

Cyberterrorism After STUXNET Thomas M Chen, Strategic Studies

Institute,2014-06-11 The discovery of STUXNET was a recent milestone in the arena of cyber security because it was the first malware designed to cause real world damage to industrial control systems. It demonstrated that a sufficiently determined adversary might be able to cause physical damage to U.S. critical infrastructure through a cyberattack. This monograph asks if STUXNET has had an effect on cyberterrorism in terms of motive, means, and opportunity. It is argued that terrorists have ample motive, opportunity, and modest means, which raises the question of why a major cyberattack has not happened yet. The lack of cyberattacks can be explained by a cost-benefit argument, and STUXNET has not changed the cost-benefit equation. Cyberattacks are unlikely in the near future, but the cost-benefit argument does not rule out the possibility of cyberattacks in the long term if costs change. There seems little that can be done to change terrorist motive or means. The only factor that is feasible to address is opportunity. Specifically, policies should enhance protection of national infrastructure to reduce the risk exposure to cyberattacks.

Stuxnet Roman Poroshyn,2019-11-24 Duqu, the infamous malware from the Stuxnet family, made its return. First discovered in October 2011, Duqu was actively spying on digital certificate issuing authority in Hungary. The exposed malware was abandoned by its originators and added to a blacklist database of anti-virus software. After that initial discovery, Duqu had been out of the spotlight for almost four years, until one of the biggest names in cyber-security, Kaspersky Lab, announced that it recently detected the presence of the Duqu malware. Duqu was always after the high-profile targets but this time the malware was definitely in the wrong place. Duqu had been found alive and well within Kaspersky Lab's very own corporate computer network. That discovery had big implications not only for the ways anti-virus software detects intrusions but also for Kaspersky Lab itself. Usually malware, after being detected, has no means of fighting back. It was not the case with Duqu. Two years after its exposure, the Duqu malware had its revenge. In 2017, the USA, UK, and some other European countries issued a ban on the use of Kaspersky Lab computer security software on their government and military computers. Their decision was based on information presented to them by the originators of the Duqu malware, which had been quietly stealing data from inside of Kaspersky Lab's corporate computer network. In an unbelievable turn of events, detection of malware by one of the most recognizable names in information security industry led to a removal of Kaspersky Lab's anti-virus software from computers that by association require the most protection because they keep top secrets and constantly targeted by adversaries. To better understand how it could have happened, we need to start exploring the story about the Duqu malware, the only malware that had its revenge.

Cyberterrorism After Stuxnet Thomas M. Chen,2014 This monograph examines the threat of cyber terrorism before and after STUXNET by addressing questions of motive, means, and opportunity. STUXNET has not changed the near-term likelihood of cyber terrorism, which remains low, but has implications for the cost-benefit weights of future attacks.

Cyber Attack Threat Trends Harrison Dreggs,Ted Hobson,Xavier Hollenbeck,2015-06-15 An examination of cyber attack threat trends including Stuxnet. With background on advanced persistent threats, cyber electronic warfare, cyber security standards, cyber-attacks, cyberterrorism, Operation

High Roller, Operation Merlin, Operation Olympic Games, Siberian pipeline sabotage, Tailored Access Operations, and vulnerability of nuclear plants to attack.

Handbook of Research on Cyber Crime and Information Privacy Cruz-Cunha, Maria Manuela, Mateus-Coelho, Nuno Ricardo, 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.

The Stuxnet Computer Worm Paul K. Kerr, 2010 From the perspective of many national security and technology observers, the emergence of the Stuxnet worm is the type of risk that threatens to cause harm to many activities deemed critical to the basic functioning of modern society. The Stuxnet worm covertly attempts to identify and exploit equipment that controls a nation's critical infrastructure. A successful attack by a software application such as the Stuxnet worm could result in manipulation of control system code to the point of inoperability or long-term damage. Should such an incident occur, recovery from the damage to the computer systems programmed to monitor and manage a facility and the physical equipment producing goods or services could be significantly delayed. Depending on the severity of the attack, the interconnected nature of the affected critical infrastructure facilities, and government preparation and response plans, entities and individuals relying on these facilities could be without life sustaining or comforting services for a long period of time. The resulting damage to the nation's critical infrastructure could threaten many aspects of life, including the government's ability to safeguard national security interests. The discovery of the Stuxnet worm has raised several issues for Congress, including the effect on national security, what the government's response should be, whether an international treaty to curb the use of malicious software is necessary, and how such a treaty could be implemented. Congress may also consider the government's role in protecting critical infrastructure and whether new authorities may be required for oversight.

The Stuxnet Worm Holly Porteous, 2010

Sandworm Andy Greenberg, 2020-10-20 With the nuance of a reporter and the pace of a thriller writer, Andy Greenberg gives us a glimpse of the cyberwars of the future while at the same time placing his story in the long arc of Russian and Ukrainian history. —Anne Applebaum, bestselling author of *Twilight of Democracy* The true story of the most devastating act of

cyberwarfare in history and the desperate hunt to identify and track the elite Russian agents behind it: [A] chilling account of a Kremlin-led cyberattack, a new front in global conflict (Financial Times). In 2014, the world witnessed the start of a mysterious series of cyberattacks. Targeting American utility companies, NATO, and electric grids in Eastern Europe, the strikes grew ever more brazen. They culminated in the summer of 2017, when the malware known as NotPetya was unleashed, penetrating, disrupting, and paralyzing some of the world's largest businesses—from drug manufacturers to software developers to shipping companies. At the attack's epicenter in Ukraine, ATMs froze. The railway and postal systems shut down. Hospitals went dark. NotPetya spread around the world, inflicting an unprecedented ten billion dollars in damage—the largest, most destructive cyberattack the world had ever seen. The hackers behind these attacks are quickly gaining a reputation as the most dangerous team of cyberwarriors in history: a group known as Sandworm. Working in the service of Russia's military intelligence agency, they represent a persistent, highly skilled force, one whose talents are matched by their willingness to launch broad, unrestrained attacks on the most critical infrastructure of their adversaries. They target government and private sector, military and civilians alike. A chilling, globe-spanning detective story, Sandworm considers the danger this force poses to our national security and stability. As the Kremlin's role in foreign government manipulation comes into greater focus, Sandworm exposes the realities not just of Russia's global digital offensive, but of an era where warfare ceases to be waged on the battlefield. It reveals how the lines between digital and physical conflict, between wartime and peacetime, have begun to blur—with world-shaking implications.

This Is How They Tell Me the World Ends Nicole Perlroth, 2021-02-18 WINNER OF THE FT & MCKINSEY BUSINESS BOOK OF THE YEAR AWARD 2021 The instant New York Times bestseller A Financial Times and The Times Book of the Year 'A terrifying exposé' The Times 'Part John le Carré . . . Spellbinding' New Yorker We plug in anything we can to the internet. We can control our entire lives, economy and grid via a remote web control. But over the past decade, as this transformation took place, we never paused to think that we were also creating the world's largest attack surface. And that the same nation that maintains the greatest cyber advantage on earth could also be among its most vulnerable. Filled with spies, hackers, arms dealers and a few unsung heroes, *This Is How They Tell Me the World Ends* is an astonishing and gripping feat of journalism. Drawing on years of reporting and hundreds of interviews, Nicole Perlroth lifts the curtain on a market in shadow, revealing the urgent threat faced by us all if we cannot bring the global cyber arms race to heel.

Cyber War Will Not Take Place Thomas Rid, 2013 Published in the United Kingdom in 2013 by C. Hurst & Co. (Publishers) Ltd--Title page verso.

Cyberterrorism P. W. Singer, 2017-07-03

The Fifth Domain Richard A. Clarke, Robert K. Knake, 2020-09-15 An urgent warning from two bestselling security experts--and a gripping inside look at how governments, firms, and ordinary citizens can confront and contain the tyrants, hackers, and criminals bent on turning the digital realm into a war zone. In the battle raging between offense and defense in cyberspace, Clarke and Knake have some important ideas about how we can avoid cyberwar for our country, prevent cybercrime against our companies, and in doing so, reduce resentment, division, and instability at home and abroad.--Bill Clinton There

is much to fear in the dark corners of cyberspace: we have entered an age in which online threats carry real-world consequences. But we do not have to let autocrats and criminals run amok in the digital realm. We now know a great deal about how to make cyberspace far less dangerous--and about how to defend our security, economy, democracy, and privacy from cyber attack. Our guides to the fifth domain -- the Pentagon's term for cyberspace -- are two of America's top cybersecurity experts, seasoned practitioners who are as familiar with the White House Situation Room as they are with Fortune 500 boardrooms. Richard A. Clarke and Robert K. Knake offer a vivid, engrossing tour of the often unfamiliar terrain of cyberspace, introducing us to the scientists, executives, and public servants who have learned through hard experience how government agencies and private firms can fend off cyber threats. With a focus on solutions over scaremongering, and backed by decades of high-level experience in the White House and the private sector, *The Fifth Domain* delivers a riveting, agenda-setting insider look at what works in the struggle to avoid cyberwar.

Enjoying the Song of Appearance: An Mental Symphony within **Stuxnet**

In a global consumed by monitors and the ceaseless chatter of immediate conversation, the melodic elegance and mental symphony produced by the written word often diminish in to the back ground, eclipsed by the persistent sound and disturbances that permeate our lives. But, located within the pages of **Stuxnet** a stunning fictional treasure overflowing with organic emotions, lies an immersive symphony waiting to be embraced. Constructed by an outstanding composer of language, that interesting masterpiece conducts visitors on a mental journey, skillfully unraveling the concealed tunes and profound affect resonating within each cautiously crafted phrase. Within the depths of this touching analysis, we can discover the book is central harmonies, analyze its enthralling publishing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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