

# THE HISTORY OF CYBERTHREATS

History is a good teacher. Knowing the history of cyberthreats provides a better understanding of how we got here—and helps us prepare the resources we'll need to battle them in the future better.

## PRE-CYBER ERA THE RISE OF THE WORM

- 1940s** The possibility of replicating computer programs is floated.
- 1950s** Core Wars, a game that vies for control of the computer, launches.
- 1960s** *Game of Life*, a life-emulating program, comes to life.
- 1970s** The first true self-replicating programs launch.
- 1971** "I'm the creeper, catch me if you can" scrolls across computer screens.

## THE CONTAGION ERA THE RISE OF VIRAL ATTACKS

*Worms evolve, the law catches up.*

- 1983** Patent for a "cryptographic communications system and method" is granted.
- 1983** The term "computer virus" is born.
- 1986** The "Pakistani Brain" virus becomes the first to cause serious damage.
- 1986** The U.S. passes the Computer Fraud and Abuse Act (CFAA).
- 1988** Robert T. Morris releases the Morris Worm and is convicted under CFAA.

## THE LONE WOLF ERA THE RISE OF ME-TOO ATTACKS

*"Lone wolf" hackers launch attention-grabbing viruses and anti-virus software emerges. The media takes notice.*

- 1993** DEF CON Conference launches with 100 attendees.
- 1995** Secure Sockets Layer (SSL) becomes online purchasing standard.
- 2000** Mafiaboy brings down major websites, causing an estimated \$7.5 million in damages.
- 2000** ILOVEYOU virus attacks tens of millions of Windows PCs, causing email systems to crash.

## THE CROWDSOURCING ERA THE RISE OF TARGETED ATTACKS

*Groups use technology for financial gain and political/social change. Organizations respond.*

- 2003** Anonymous launches a DDoS attacks on the Church of Scientology.
- 2006** More than 45.7 million customer records stolen in TJX Companies attack.

## THE CYBERWAR ERA THE RISE OF NATION-STATE ATTACKS

*The technologies, attack vectors, and goals continue to advance.*

- 2010** Google announces an attack on its infrastructure in China.
- 2017** Linked to Russian intelligence, APT28 (Fancy Bear), launches a cyberespionage campaign against the Montenegrin government.
- 2018** U.S. intelligence reveals a U.S. military program aimed at gleaning information from terrorists' computers.
- 2018** China-linked hackers target U.S. and Southeast Asian firms to intercept their military and civilian communications.
- 2018** China breaches the computers of U.S. government agencies and major corporations, ending a 12-year cyberespionage campaign that was later found to affect as many as 12 other countries.

## THE FUTURE THE RISE OF THE CYBERSECURITY LABOR SHORTAGE

Even as cyberthreats become more routine, they're becoming more sophisticated. **Yet the biggest threat may be the lack of skilled professionals to deal with the onslaught of attacks.**

### AS ONE EXPERT SAYS:

*"The greatest virtual threat today is not state sponsored cyber-attacks; newfangled clandestine malware; or a hacker culture run amok. The most dangerous looming crisis in information security is instead a severe cybersecurity labor shortage..."*

### WHICH BEGS THE QUESTION:

**HOW CAN THE CYBERWAR BE WON WITH FEW RESOURCES ON THE BATTLEFIELD?**

### INTRODUCING THE TECH DATA CYBER RANGE.

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