CURRENT CYBER -THREATS

8

Cyberwar, consumerisation of IT and APT, or new trends in computer security

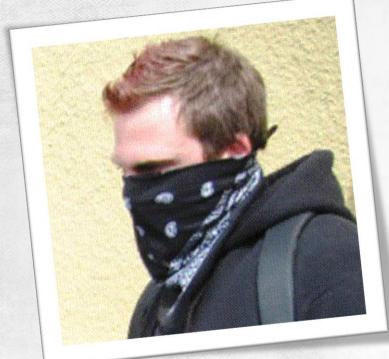
INTRODUCTION

The world of computer system connected to the Internet may prove dangerous for users if you downplay its perils:

- It follows its own rules
- Sticking to the rules doesn't bring immediate benefits and may turn into a tedious routine, while bypassing or even flouting rules is often easy and not considered risky
- Computer experts have a vastly wider knowledge and interest in security than the average user
- For the longest time, there's been an arms race between security specialists and cyber criminals
- The criminals have the upper hand now
- The goal of this course is to understand why we are losing this war



INTRODUCTION



LET'S SAY THERE ARE TWO BILLION INTERNET USERS WORLDWIDE, ALL OF THEM PROTECTED AGAINST 99% OF THREATS

Even if each user is only attacked once a month, statistically 20 million attacks monthly reach their targets and compromise the systems, meaning 240 million machines become infected yearly



T SECURITY ACADEMY www.SecAcademy.com

PREHISTORY The 1990s: Fear of the Unknown



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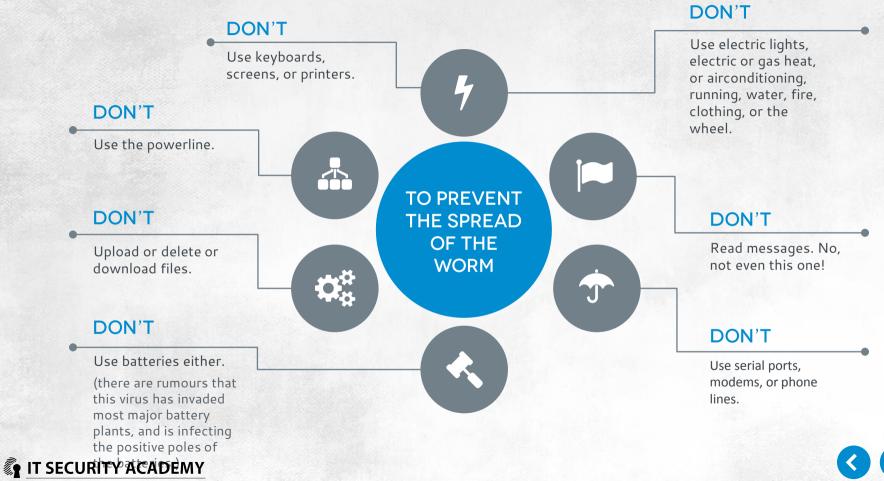
IT SECURITY ACADEMY www.SecAcademy.com

PREHISTORY The 1990s: Fear of the Unknown

WARNING:

There's a new virus on the loose that's worse than anything I've seen before! It gets in through the power line, riding on the powerline 60 Hz subcarrier. It works by changing the serial port pinouts, and by reversing the direction one's disks spin. Over 300,000 systems have been hit by it here in Murphy, West Dakota, alone! And that's just in the last 12 minutes.

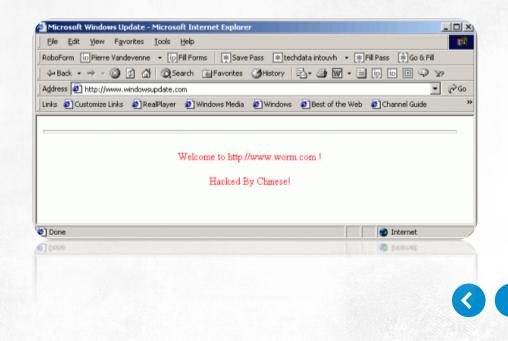




HISTORY

The world of computer system connected to the Internet may prove dangerous for users if you downplay its perils:

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HISTORY

CODE RED:



Exploited an IIS server vulnerability to deface affected websites



Infections doubled every 27 minutes



Every 20 or 27 days, it run denial of service attacks against selected web servers





HISTORY

NIMDA:



Propagated in 12 different ways



Infected more than 2 million computers in three days

KLEZ:



Spread over the entire web in just 2.5 hours







NOW RECENT YEARS: The Cyber Crime Era



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NOW RECENT YEARS:

The Cyber Crime Era

ZOTOB (2005):



THE FIRST COMMISSIONED VIRUS TARGETED SPECIFIC COMPANIES, WAS WRITTEN TO MAKE A PROFIT.



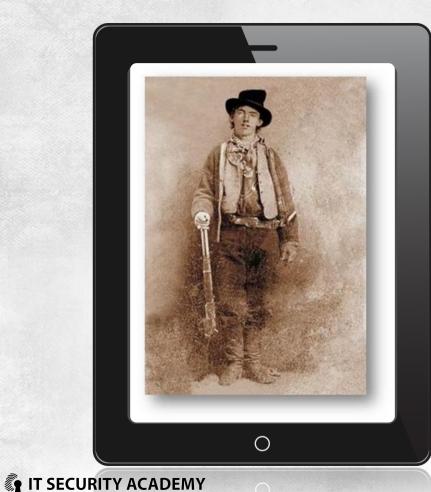
"IT'S ALL ABOUT MAKING MONEY, AND [I] DON'T CARE IF PEOPLE REMOVE THE WORM BECAUSE IT'S THE SPYWARE STUFF THAT [I] INSTALL THAT'S MAKING [ME] THE MONEY" ATILLA EKICI, ONE OF ZOTOB CREATORS

Fame-seeking is no longer a motivator for attackers. They are now profit-driven

The lack of mass media coverage on viruses doesn't mean computer systems have become more secure lately: quite the opposite







CYBER CRIME

It's an Evolution, not Revolution



CYBER CRIME It's an Evolution, not Revolution







CYBER CRIME It's an Evolution, not Revolution







CYBER CRIME

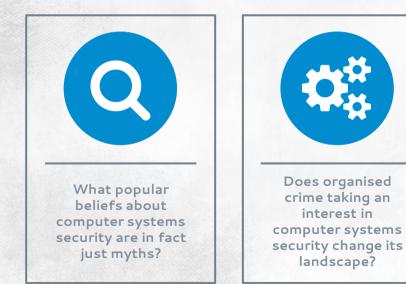
Most security solutions only protect you from a fraction of threats





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HERE'S WHAT YOU'LL LEARN IN THIS MODULE:

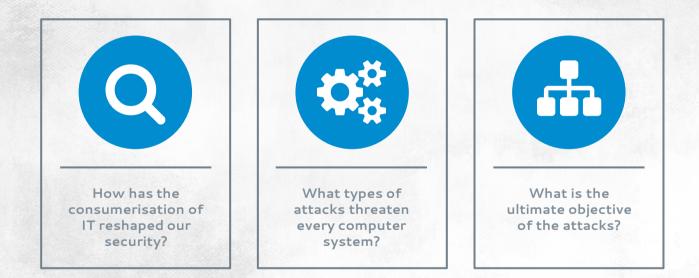








HERE'S WHAT YOU'LL LEARN IN THIS MODULE:







SEE YOU IN THE TRAINING

