

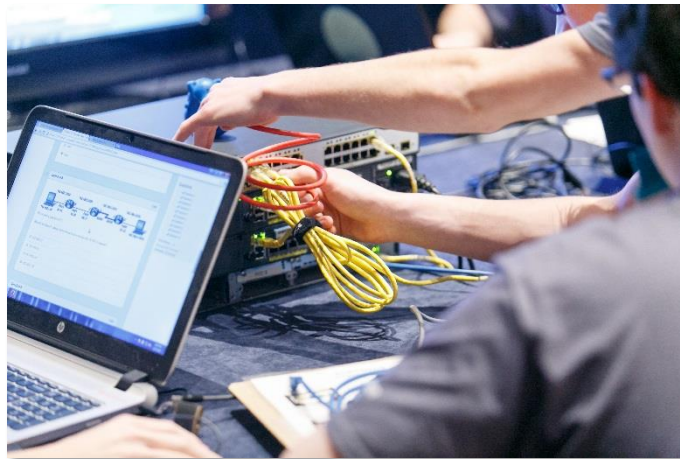
## CYBER PATRIOTS - THE NEW "CHESS CLUB" FOR THE HIGH TECH STUDENT

# What Is CyberPatriot?

- The National Youth Cyber Education Program
  - AFA CyberCamps
  - Elementary School Initiative
  - National Youth Cyber Defense Competition
- Not hacker training
- Fun way to learn skills that will be useful in the future



# The National Youth Cyber Defense Competition



# What is CyberPatriot?



[Let's watch a video to find out...](#)



# Introduction to Cybersecurity

# What is cybersecurity?

All the tools we use and actions we take to keep computers, networks, and information safe and available for those who need it, and **unavailable** for those who should not have it.



# Why is cybersecurity important?

## Things that rely on computers:

- Banks
- Factories
- Schools
- Airlines and Railroads
- Stores
- Police and fire departments
- Military and government systems
- Doctors' offices

Answer: Cybersecurity isn't just about protecting computers.  
**Almost everything relies on, or could be affected by a computer.**



Source: US Department of Homeland Security

⇒ 7,200+ critical American industrial control systems are linked to the Internet, and therefore vulnerable to attack.

# Why is cybersecurity important?

- **2006:** 26.5 million veterans' personal information is compromised after the theft of a Veteran Affairs employee's laptop.
- **2009:** Coca-Cola executive clicks link in spoof email allowing attackers to steal confidential files on \$2.4 billion business deal with Chinese juice company.
- **2011:** DHS plants USB drives and CDs outside of government and government contractor buildings. The majority are picked up by employees and inserted directly into their organization's computers.

Answer: People make mistakes.

**Cybersecurity is often about protecting organizations and individuals from themselves.**



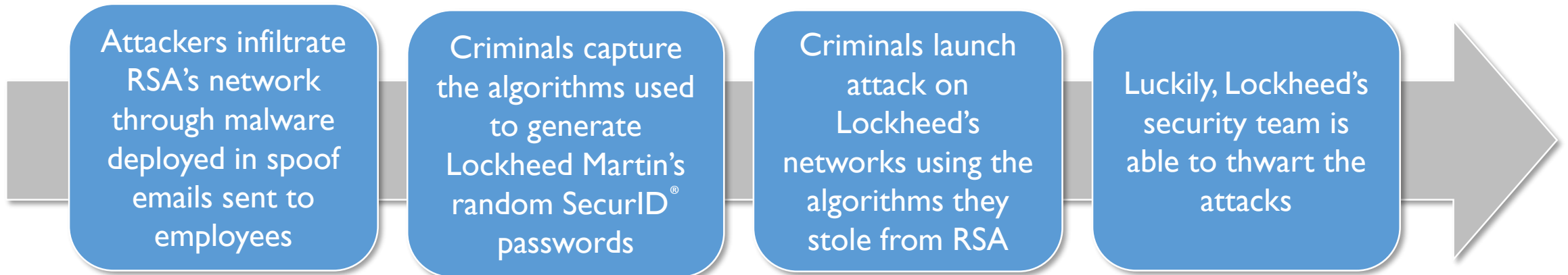
# Why is cybersecurity important?

## Case: RSA Security Services

- RSA: security firm that sells SecurID®
- Lockheed Martin: a \$46 billion defense contractor that uses SecurID®



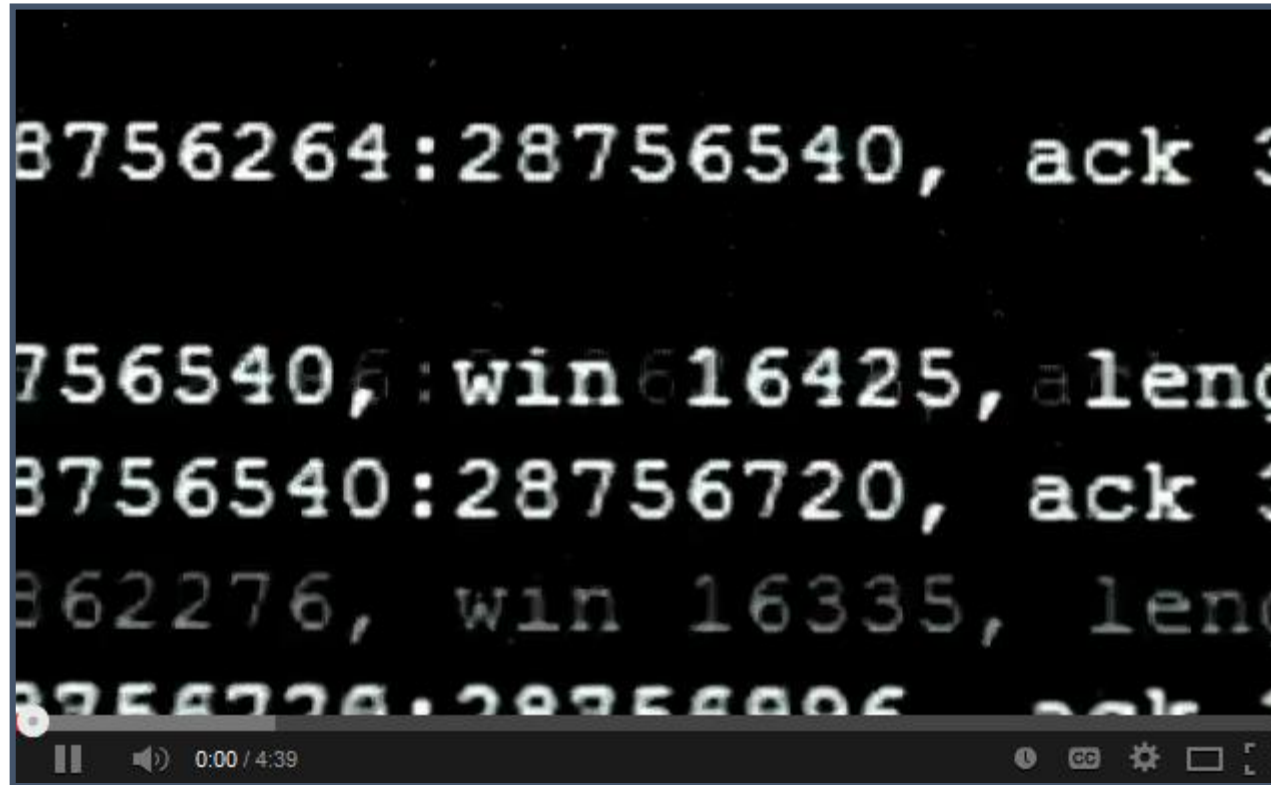
Source: blogs.rsa.com



Answer: We're all connected

**A weakness in one system can be exploited by attackers to target another system**

# Cybersecurity in Action



Source: Deloitte and Symantec [http://www.youtube.com/watch?v=l\\_XOrcBxy-E](http://www.youtube.com/watch?v=l_XOrcBxy-E)

# Who's hiring?

Google

amazon.com®



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75,100  
Information  
Security Analyst  
Jobs in 2012

102,500  
Information  
Security Analyst  
Projected in  
2022

That's 36.5% growth!