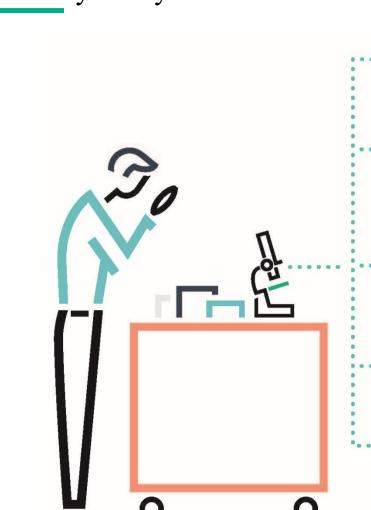


TODAY'S EXISTING SECURITY THREATS

Security Today



Denial of Service (DOS):

Make crucial changes to the target's firmware that interfere with it's ability to perform key functions.

Distribution Denial of Service (DDoS): Overwhelm the target with bogus requests for information or assistance from multiple sources, tying up resources and hindering its ability to respond to

legitimate users. **Data Theft or Information Theft:** Malware or compromised code copied directly into the target's firmware renders it

completely useless. Sometimes called "bricking" a server, i.e., rendering it as useful as a brick.

Permanent Denial of Service (PDoS): Bricked or permanently disabled servers.

Ransomware:

Hostile software that invades a PC or server and locks it permanently, preventing legitimate users from accessing any content unless a ransom payment is made.

SECURITY ATTACK TRENDS

Hardware & firmware attacks

Regulatory, GDPR, **SEC**

Machine learning and AI

element

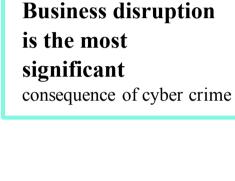
Human

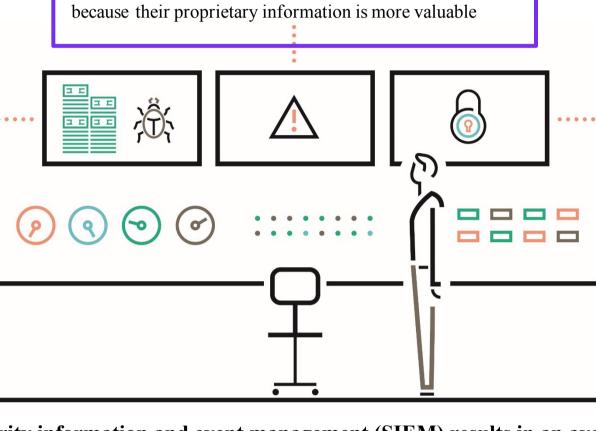
Pervasive ransomware

COST OF CYBER CRIME AND THE RISK OF BUSINESS INNOVATION **Security Today**

More innovative businesses risk higher losses





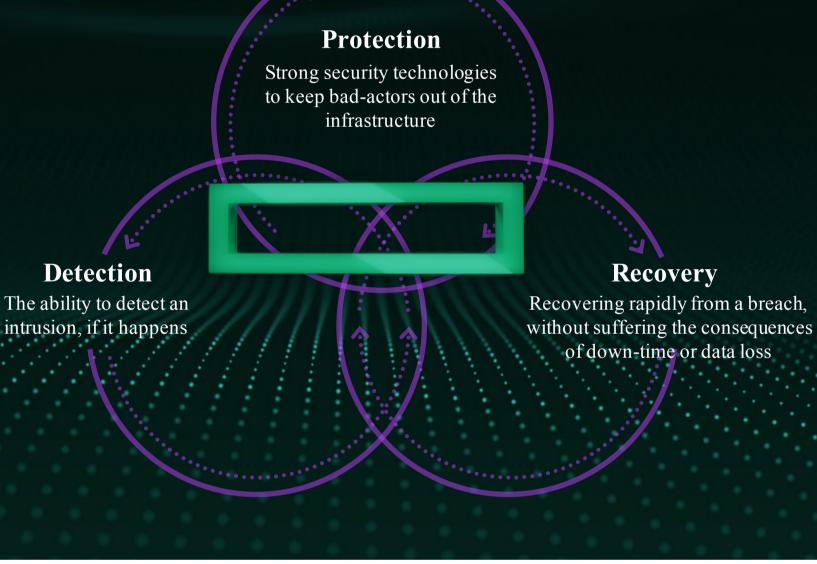


Advanced access management and encryption technologies help reduce the cost of

cyber crime and provide encryption at scale.

Persistent use of advanced security information and event management (SIEM) results in an average savings of nearly \$3 million.

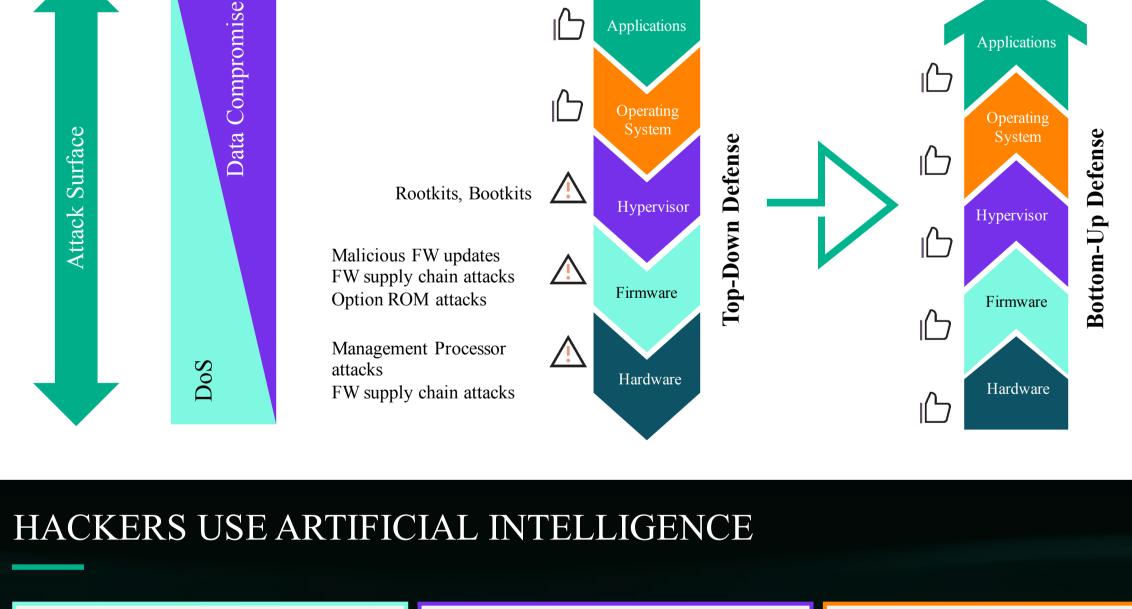
SECURITY REQUIRES DEFENSE IN DEPTH



HPE SECURITY VISION: SERVER PLATFORM SECURITY

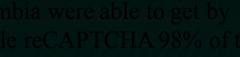
HPE servers comprehensive security approach protects key server infrastructure

Applications



Improving Phishing Bypassing CAPTCHA

2017.



fell victim to phishing attacks in

AI identifies valuable targets and

A reported 76% of organizations

hardware configurations and if a human is operating the machine

executes when it reaches a specific

AI performs checks to identify

DeepLocker's AI is trained to

ensure that its payload only

Evasive Malware

SIRRENT

quickly develop a profile of that target based on what they have tweeted in the past. Using this approach targets click on malicious links 30% of the time (compared to the 5-15% success rate of other

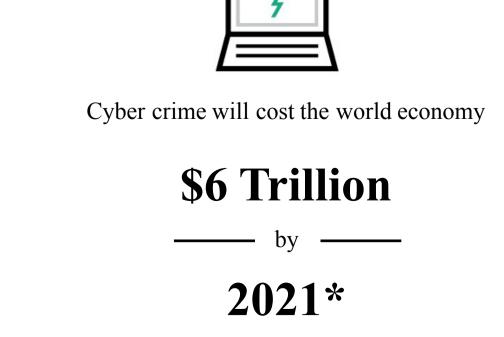
automated approaches).

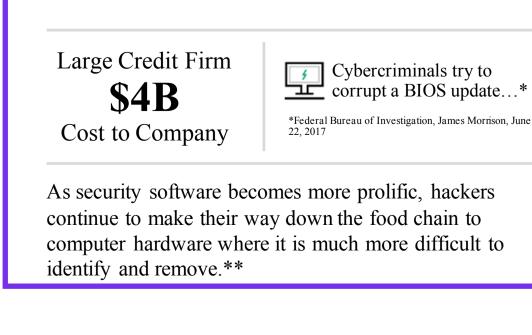
target, relying on three layers of concealment to prevent security tools from identifying the threat.

SECURITY TODAY - REAL WORLD EXAMPLES **Evolving Threats**

Global Security Threats

Source: Artificial Intelligence Part 2: Cyber Criminals Get Smart with AI, August 27, 2018, Stephen Helm





Real World Examples

Large Oil Company

30,000

Systems Destroyed by Malware in Firmware

*Cyber security business report, October 19, 2017, by Steve Morgan **New York Times, Technology Section, Jan 22, 2014, Nicole Perlroth

For more information on HPE Gen10 Servers, contact us today: