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Malware – A BILLION DOLLAR BUSINESS

THE MALWARE LANDSCAPE

- CONVENTIONAL THREATS, KNOWN FROM THE PREVIOUS YEARS
 - Banker Trojans (Zeus, Carberp, SpyEye)
 - Information Stealers (especially password stealers)
 - Spam-sending Trojans

- NEW THREATS
 - RANSOMWARE
 - EXPLOIT KITS
 - ADVANCED PERSISTENT THREATS

THE MALWARE LANDSCAPE

- Approximately **60% of targeted malware aims at small and medium business** because they have less resources to invest in security. This does not mean that large organizations aren't targeted and breached.
- **25%** of all malware is virtual machine aware.
- Security experts must understand that **virtualization alone is not the key to security.**

MALWARE NOW AVAILABLE AS A SERVICE



- Malware Creation Toolkits
- Selling for between \$100 - \$10,000; some are free
- Hourly updates
- Technical support for “customers”

TARGETS

MedStar Ransomware Attack Caused by Known Security Flaw

By Jacqueline Belliveau on April 07, 2016



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Recent potential healthcare data breaches included a case of a ransomware attack and an incident with stolen healthcare documents.

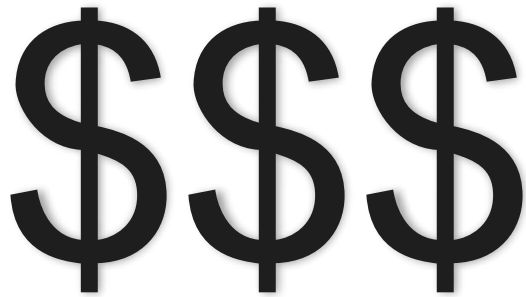
Last month's ransomware attack on MedStar Health's computer systems was from a well-known security vulnerability in an application server, according to an [Associated Press article](#).



The ransomware attack occurred after hackers discovered that MedStar Health uses JBoss, an application server with a recognized design flaw. The hackers used Samas, or "samsam," a virus-like software, to scan the Internet for vulnerable JBoss servers.

JBoss technology, which is supported by Red Hat Inc., allows IT programmers to develop custom software tools that can be quickly implemented across a company.

MALWARE – A BILLION DOLLAR BUSINESS



1,425% ROI *

- For every dollar spent, hackers make 1,400 times more
- Example: Cryptolocker (**\$28 million** in 4 months)
- CryptoWall: **380 million** in one year

*source: the RAND Report

COST TO BUSINESSES

74% of small organizations reported a security breach last year

\$99,000 Per crypto-malware or ransomware attack

€20 million fines or 4% of their annual turnover,
according to the EU's new General Data Protection Regulation that will come
into force in 2018



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PROTECTING 500 MILLION USERS WORLDWIDE