



# Threats Report

McAfee Labs

## Going BERserk

**BERserk vulnerability opens the door to cybercriminals by enabling man-in-the-middle attacks without users' knowledge.**



<https://www.secure.companyx.com>

### Victims

have no idea their secure connections have been exploited.



### Trusted Websites

have no idea cybercriminals are intercepting secure information.

### The Man-in-the-Middle

can manipulate sessions in multiple ways.



BERserk is just 1 of more than 7,000 known vulnerabilities in the National Vulnerability Database.<sup>1</sup>



The number of application vulnerabilities reported by the National Vulnerability Database has grown by over 380% since 2003.<sup>2</sup>

## Trust Abuse

**Human behavior is usually the weakest link in information security.**

### Inherited Trust

exploits the value users place in a brand name.

Websites often blur the relationship between trusted brands and other brands.

Copycat applications exploit trust in app stores.



Trusted.exe

### Product and Operating System

trust abuse occurs when malicious code is inserted into common applications or system software.

DNS changers force all queries to DNS servers controlled by attackers.

Attackers can deploy malware by directing operating systems to malicious upgrade servers and misusing certificates.

Subverting secure links between users and websites abuses trust between operating systems and the Internet.

DLL side loading is a common technique used to insert malicious code into a legitimate application's execution stream.



Unknown.dll

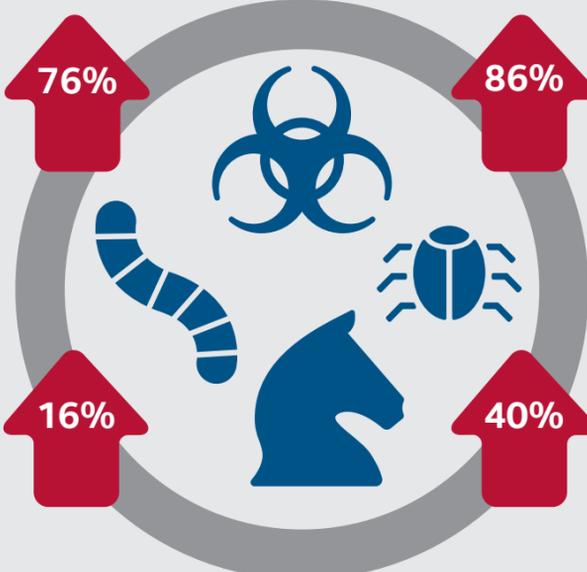
The number of malicious signed binaries, a form of trust abuse, has grown by 1,076% in two years.

## Threat Statistics

Third quarter, 2014

There are 307 new threats every minute, or more than 5 every second.

The McAfee Labs malware zoo grew by 76% in the past year, to more than 300 million samples.



New suspect URLs skyrocketed by 86% in Q3, as new short URLs doubled and phishing URLs increased sharply.

Mobile malware samples grew by 16% in Q3, to more than 5 million.

Spam volume increased by 40% in Q3. Kelihos emails made up 76% of spam generated by the leading botnets.

McAfee Labs Threats Report: November 2014

Visit [www.mcafee.com/November2014ThreatsReport](http://www.mcafee.com/November2014ThreatsReport) for the full report.



McAfee is now part of Intel Security.

<sup>1</sup> The National Vulnerability Database.  
<sup>2</sup> The National Vulnerability Database.