Elcomsoft Distributed Password Recovery Enhances MacOS Forensics, Adds Amazon EC2 Support, Breaks ZIP and RAR Archives Faster
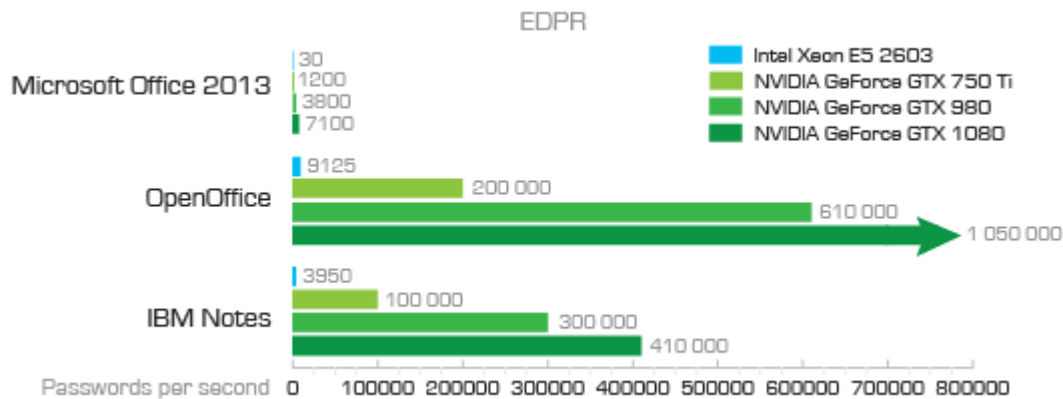
Moscow, Russia – July 26, 2016 - ElcomSoft Co. Ltd. updates [Distributed Password Recovery](#) with enhanced Mac OS X forensics, Amazon EC2 cloud support and nearly double the speed of ZIP/RAR password recovery. The new release can break passwords to OS X user accounts, encrypted DMG images and FileVault 2 volumes. Amazon EC2 support enables enterprise customers building high-performance clusters for recovering passwords in Amazon cloud as opposed to maintaining a dedicated data center. The improved ZIP and RAR recovery algorithm nearly doubles the speed of breaking passwords protecting compressed archives. In addition, Elcomsoft Distributed Password Recovery now supports the latest NVIDIA Pascal architecture, offering unmatched 1.5 to 2 times the performance compared to NVIDIA's last flagship 900-series boards.

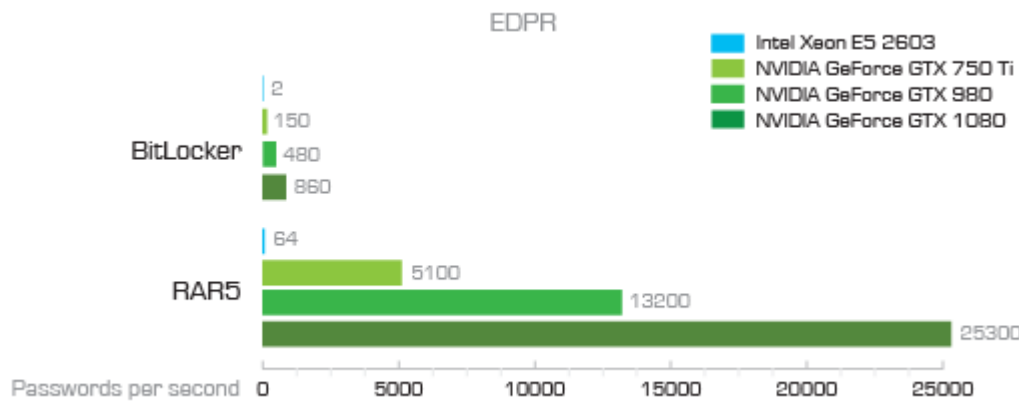The complete list of supported formats is available at https://www.elcomsoft.com/edpr.html#formats

"We're constantly working on extending our products with new data formats while improving performance for existing ones", says Vladimir Katalov, ElcomSoft CEO. "This time we are targeting Mac OS X, allowing experts to break into encrypted FileVault 2 volumes, accessing encrypted DMG files and recovering OS X account passwords. Coupled with a bunch of performance and architectural improvements, Elcomsoft Distributed Password Recovery becomes one the fastest and most comprehensive solutions on the market."

NVIDIA Pascal Architecture

NVIDIA's latest GPU architecture code-named Pascal gives a significant performance boost compared to NVIDIA's past flagship. GTX 1080 boards are 1.5 to 2 times faster breaking passwords compared to GTX 980. According to ElcomSoft's internal benchmarks, Elcomsoft Distributed Password Recovery can try 7100 passwords per second for Office 2013 documents using a single NVIDIA GTX 1080 board compared to 2200 passwords per second on an NVIDIA GTX 980.

When recovering RAR 5 passwords, using a single NVIDIA GeForce GTX 1080 results in 20000 passwords per second compared to 5000 passwords per second on a GTX 980.

Mac OS Forensics

In the world of Windows dominance, Apple's Mac OS X enjoys a healthy market share of 9.5% among desktop operating systems. With that many users, support for Apple's desktop OS is essential for investigators.

In this release, [Elcomsoft Distributed Password Recovery](#) gains the ability to attack plain-text passwords protecting disk volumes encrypted with FileVault 2, a full-disk encryption tool that uses XTS-AES to prevent unauthorized access to the startup disk. FileVault 2 ships with all versions of Mac OS X since OS X Lion. Since attacking a 256-bit XTS-AES key or a 120-bit Recovery Key is fruitless, ElcomSoft's tool attacks the original password instead.

The tool employs the company's proprietary GPU acceleration techniques that allow utilizing the computational power of today's gaming video cards to receive a 20x to 50x performance gain compared to a modern multi-core CPU. By recovering a FileVault 2 password, investigators can decrypt the encrypted volume and gain access to evidence stored on the protected disk.

FileVault 2 is unlockable with the user's account password. If multiple user accounts exist on a given Mac, the encrypted container can be unlocked with a password to any user account if the user is authorized to unlock the computer. Since some users choose weaker passwords than others, attacking passwords to multiple user accounts may offer a better chance of breaking FileVault 2 protection. Elcomsoft Distributed Password Recovery delivers GPU-accelerated recovery for OS X user account passwords, enabling quick dictionary attacks along with accelerated brute force.

Finally, the new release adds support for encrypted DMG images, enabling the recovery of plain-text passwords required to decrypt the file.

Amazon EC2 Support

Elcomsoft Distributed Password Recovery is about breaking passwords using the combined computational power of multiple computers. The more computers have joined the attack, the less time is required to finish the job.

Building a dedicated data center is not for everyone. One-time hardware costs are upped with maintenance, air conditioning and administration expenses, not to mention rental and electricity costs. In this release, Elcomsoft Distributed Password Recovery targets this issue by allowing installing into the customer's Amazon EC2 cloud. Amazon EC2 is a cost-effective alternative to building a dedicated data center.

Amazon EC2 can easily scale to match even the most demanding requirements, and can be scaled back when not in use. Elcomsoft Distributed Password Recovery running in an Amazon cloud is a perfect solution for occasional password recovery tasks and one-off jobs.

ZIP and RAR Enhancements

ZIP and RAR archives are among the most common targets for users of Elcomsoft Distributed Password Recovery. ZIP and RAR archives, when discovered on suspects' computers, are extremely likely to contain valuable evidence. In this release, Elcomsoft Distributed Password Recovery comes with important architectural enhancements to nearly double the speed of recovering ZIP and RAR/RAR 5 passwords when used on the same hardware. Coupled with NVIDIA's latest GPUs based on the Pascal architecture, Elcomsoft Distributed Password Recovery can achieve unparalleled performance. Using a new NVIDIA GTX 1080 board, Elcomsoft Distributed Password Recovery can try 20,000 passwords per seconds on RAR 5 archives.

About Elcomsoft Distributed Password Recovery

Elcomsoft Distributed Password Recovery enables accelerated password recovery for Microsoft Office documents, Adobe PDF, PGP disks and archives, personal security certificates and exchange keys, MD5 hashes and Oracle passwords, Windows and UNIX login and domain passwords.
Supporting ElcomSoft's patent-pending GPU acceleration technology and being able to scale to over 10,000 workstations with zero scalability overhead, Elcomsoft Distributed Password Recovery is a high-end password recovery solution offering the speediest recovery with the most sophisticated commercially available technologies.

Pricing and Availability

Elcomsoft Distributed Password Recovery is available immediately. Licensing starts from 599 EUR for 5 clients. A license for 100 clients is available for 4999 EUR. Other tiers are available on request. Customers are welcome to contact ElcomSoft about larger purchases. Local pricing may vary.

An additional licensing option is now available for smaller networks. The affordable option covers concurrent GPU-accelerated distributive recovery on up to 5 computers. Even this minimal 5-PC license supports up to 8 GPU cores, offering a maximum computational power of 40 GPU cores per license.

Elcomsoft Distributed Password Recovery supports Windows 7, 8.x, 10, as well as Windows 2003, 2008 and 2012 Server.

About ElcomSoft Co. Ltd.

Founded in 1990, ElcomSoft Co. Ltd. develops state-of-the-art computer forensics tools, provides computer forensics training and computer evidence consulting services. Since 1997, ElcomSoft has been providing support to businesses, law enforcement, military, and intelligence agencies. ElcomSoft tools are used by most of the Fortune 500 corporations, multiple branches of the military all over the world, foreign governments, and all major accounting firms. ElcomSoft is a Microsoft Gold Certified Partner and an Intel Software Partner.