



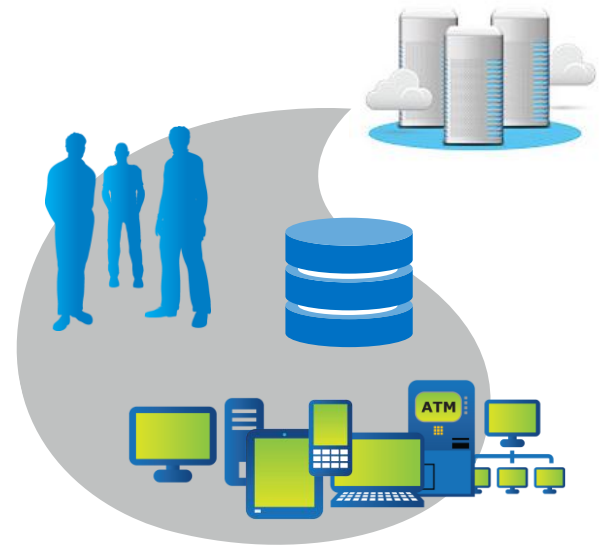
CLOUD SECURITY: Secure Your Data



Explosive Growth



Rapid growth in users, devices, and data is leading to increased reliance on the cloud.



Love the cloud,
but worried about
security?

Many companies see the
benefits of cloud
computing but continue
to worry about securing
their data.

MALWARE

1.5
MILLION



new malware samples per
quarter¹

CYBER ATTACKS

10
MILLION



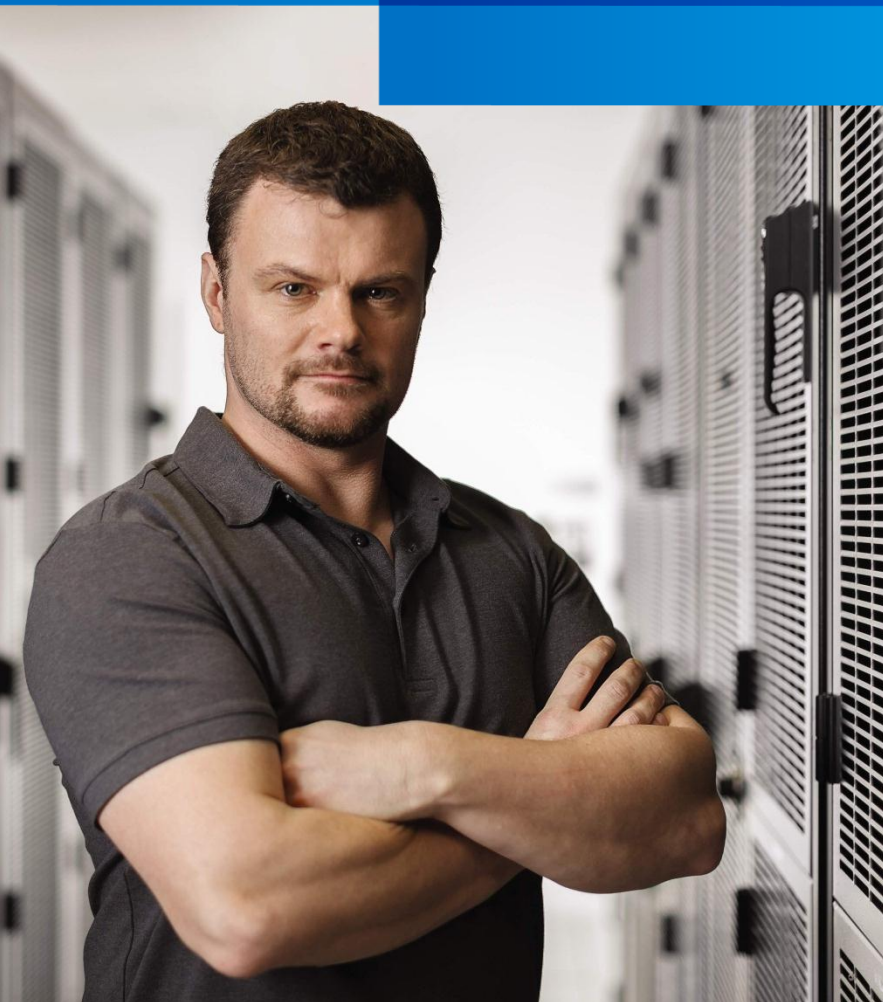
U.S. cyber attacks per day²



¹ "McAfee Threats Report: Second Quarter 2012," McAfee, www.mcafee.com/us/resources/reports/rp-quarterly-threat-q2-2012.pdf (PDF)

² Koebler, Jason, "U.S. Nukes Face Up to 10 Million Cyber Attacks Daily," *U.S. News & World Report* (2012), www.usnews.com/news/articles/2012/03/20/us-nukes-face-up-to-10-million-cyber-attacks-daily

It's a tough choice



Data encryption offers a viable solution for protecting your data. But software-based encryption can cause significant performance slow-downs.

ENCRYPTION



Encryption can protect your data...



PERFORMANCE



...but may hurt your performance.

WHAT'S AN IT MANAGER TO DO?

Intel has the solution



Hardware-assisted security technologies can help keep your data safe in the cloud.



Intel AES-NI¹ enhances encryption performance so you don't have to choose between data security and system performance.

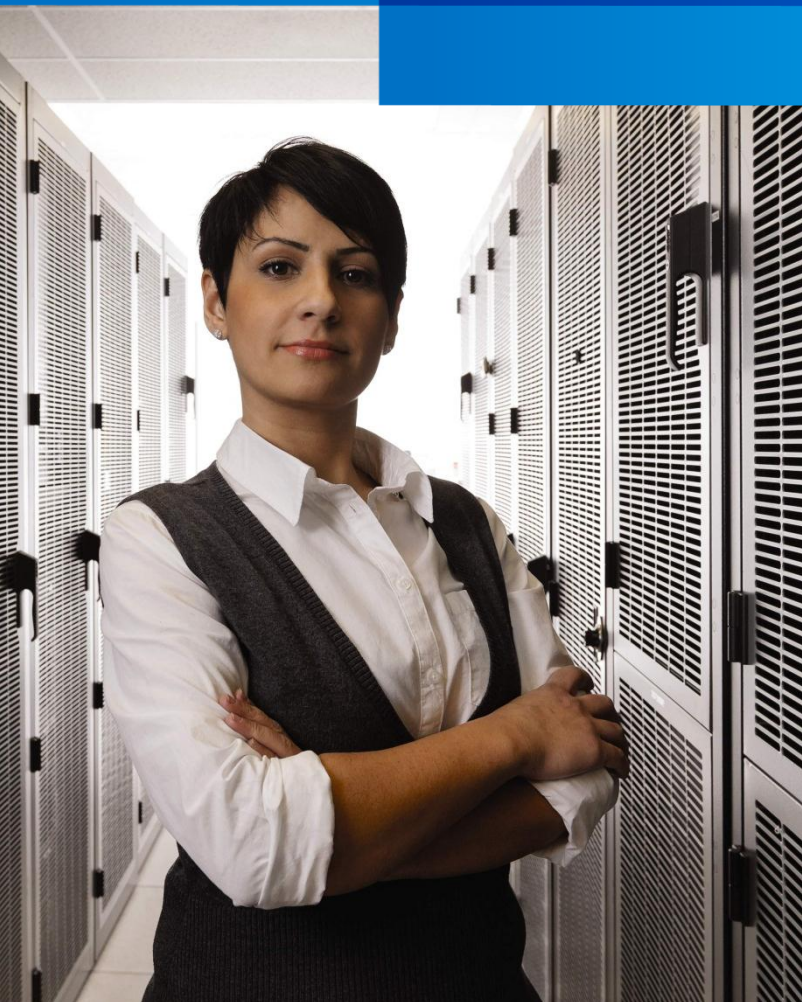


OpenSSL helps data to move safely across secure connections. Intel software optimizations improve HTTPS/SSL performance.

The result? More secure data and connections. Stronger performance.


¹ Intel® AES-NI requires a computer system with an AES-NI enabled processor, as well as non-Intel software to execute the instructions in the correct sequence. AES-NI is available on Intel® Core™ i5-600 Desktop Processor Series, Intel® Core™ i7-600 Mobile Processor Series, and Intel® Core™ i5-500 Mobile Processor Series. For availability, consult your reseller or system manufacturer. For more information, see <http://software.intel.com/en-us/articles/intel-advanced-encryption-standard-instructions-aes-ni?wapkw=aes-ni>


Confidence in the results



Better secure your data, without compromising system performance.

up to **8x**  accelerated AES encryption performance by Intel® AES-NI, built into the latest Intel® Xeon® processors¹

up to **33x**  faster decryption by Intel® AES-NI versus software-only approaches¹

up to **4.8x**  system level performance improvement with Intel AES-NI and Intel optimized SSL on Intel Xeon processors¹

Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as SYSmark and MobileMark, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products. For more information go to <http://www.intel.com/performance>

¹ Intel's cryptographic optimizations speed up the handshake and the bulk data transfer phases of OpenSSL. The performance gains were measured on a dual Intel® Xeon® Processor X5680 [15] system, which consists of two 6-core Intel® processors based on the 32-nm microarchitecture, supporting the Intel® AES New Instructions (Intel® AES-NI) extension. We measured the performance gains for OpenSSL using the built-in speed test, as well as at the system-level running an Apache web server sending HTTP over SSL to clients on a network. Source: <http://download.intel.com/design/intarch/papers/326232.pdf>. OpenSSL versions 1.0.0d and a snapshot of the upcoming 1.0.1 version containing all of Intel's cryptographic optimizations; Apache version httpd-2.2.17; Intel® Xeon® Processor X5680 EP with two processors (3.3 GHz, 12M Cache, 6.40 GT/s Intel(R) QPI).



McAfee builds your confidence

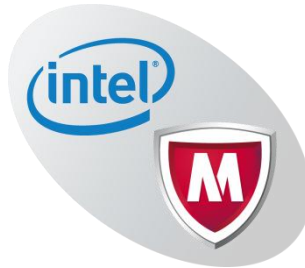


- McAfee offers multiple layers of data protection:
DATABASE / APPLICATIONS / SERVERS
- Confidence to migrate data safely between workloads



The result?
More secure data at rest, in use, and in motion.

Move to the cloud with confidence



Intel & McAfee:
BETTER TOGETHER



More secure data
and connections.
Stronger performance.



More secure data
at rest, in use,
and in motion.

We'll help you get started



“ *The economic incentives for online malicious cyber activity have grown. There's a whole economy around it, where people are actually writing tools to generate exploits and malicious code and selling those tools.* ”

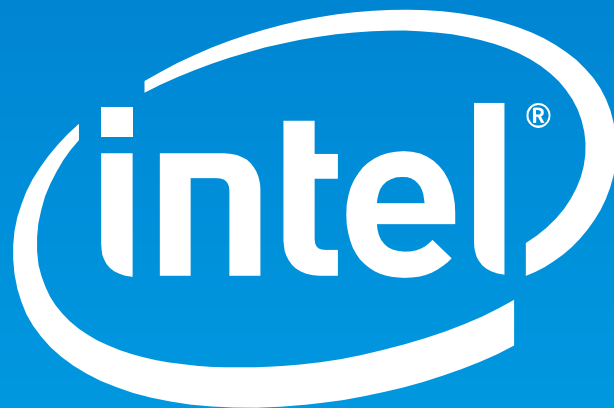
Malcolm Harkins
Intel Vice President of Information Technology Group
and Chief Information Security Officer



DOWNLOAD NOW!

Download the *Cloud Security Planning Guide* and discover valuable information on how to protect YOUR data, from device to data center.

<http://www.intel.com/content/www/us/en/cloud-computing/cloud-security-checklist-planning-guide.html>



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