

Not All Encrypted Storage is Secure



By Michael Ryan
CEO, South River
Technologies

Sensitive and confidential documents stored on your servers need to be protected. PGP (Pretty Good Privacy) Encryption is likely a requirement on your security checklist. PGP is a method of securing digital information and is usually used to encrypt data "at rest."

Not all PGP implementations offer complete point-to-point security. Standard PGP implementations often leave your data exposed, or leave images of unencrypted data on disk.

Standard PGP Implementation

A file is sent to a server using a secure protocol. When it reaches the server, an unencrypted version is written to disk. The file is encrypted, and a new, encrypted version is written to disk. The unencrypted version is marked as deleted. In some implementations, the original encrypted version is scrubbed, but sometimes that file image remains until the operating system re-uses that space.

Streaming PGP Implementation

A file is sent to a server using a secure protocol. When it reaches the server, it is encrypted and written to disk in a single step. Using this method, no unencrypted data is written to disk, and there is no need to remove the original file image after encryption.

Whether implementing a secure server internally, or through a service provider who offers encrypted storage, you need to know how it works.

Streaming PGP is essential to a managed file transfer solution, as it ensures that non-encrypted data is never present in the storage repository. While this may not seem obvious, it's critical to ensuring that your data is never exposed.

INTRODUCING...

TKO®
TOTAL KNOWLEDGE OUTLOOK

Total Knowledge Outlook is InfoTeK Corporation's one-of-a-kind risk assessment tool that delivers a real solution for insider threat prevention, detection, and mitigation. Each year, millions of dollars are lost to insider threats. Insiders are responsible for lost revenue, stolen trade secrets, and putting the workforce at risk. TKO's risk assessment methodology was developed by former intelligence community experts with decades of experience. Only TKO provides a complete picture of your true risk.

SECURE YOUR FUTURE.



UNDERSTAND THEIR PAST.

- ✓ Tailorable to any industry
- ✓ Combines traditional methods with real world intel-grade best practices
- ✓ Insider threat solution like none other

www.totalknowledgeoutlook.com

INFOTEK

Imagine. Inspire. Innovate.

About Us

Established in 2001, InfoTeK Corporation is a Cybersecurity, Software, and Systems Engineering Firm. ITK is an industry leader in providing Engineering, Security, Information Technology, and Professional Services to some of the most recognized entities in our nation, including several Federal and State Government agencies, commercial leaders, the DoD and intelligence community.

InfoTeK Corporation

7240 Parkway Drive, Suite 200 Hanover, MD 21076

Phone: 410-782-4862

www.infotekcorp.com