



CASESTUDY

RETURNIL VIRTUAL SYSTEM and Gateway

Before Returnil, all Gateway maintenance could do, was rely on the limited protection provided by traditional anti-virus programs. When Returnil Virtual System (RVS) stepped into the picture, the situation changed completely. RVS features extended functionality to protect shared network partitions and to make central management more convenient.

About Geteway

Geteway is a provider of cutting-edge information technology, operating in the Taiwanese market, locally distributing and reselling select software from an elite set of global vendors. Apart from the distribution and maintenance of strategically chosen security software, Geteway is also the main proprietor of public access computers to a wide range of locales in Taiwan, such as transportation hubs, public libraries and Internet cafes, and, consequently, makes heavy use of the Internet Small Computer System Interface (iSCSI) protocol. With iSCSI, Geteway maintenance is able to provide Cloud Computing functionalities to its clients dispersed in a wide area network across Taiwan. Software updates and shared storage facilitated through iSCSI instantaneously to tens of thousands of clients is how Geteway sets itself apart from its competition, making it one of the main proprietors of public access computing services in Taiwan.

The Problem

With iSCSI technology, Geteway is able to serve content and do maintenance work to a large number of geographically dispersed client computers from a central location. The iSCSI architecture is comprised of several Internet access content servers that provide applications, games, videos and other such content to the dedicated local iSCSI servers. These servers proxy the centralized content to the local subscription PCs connected to them via the iSCSI protocol. The local PCs mount an iSCSI partition providing them access to the centralized content. By virtue of the iSCSI protocol, the partition is seen as an internal hard drive by the local operating system and all applications running on the PC, including all the viruses, spyware and trojans.

While the simplicity and the power of the iSCSI technology enables Geteway to provide instant access to applications, updates and storage to a dispersed set of users, the prospect of a local rogue application spreading via the iSCSI protocol to all connected clients was a real concern. A simple, local infection had the potential to turn into a devastating epidemic. Since the cloud computing applications also require transitional storage in the same partition they are running on, any write protection scheme was not an option.

The Solution

Before Returnil, all Geteway maintenance could do, was rely on the limited protection provided by traditional anti-virus programs. Rigorous updating and frequent, time consuming reinstallations of the iSCSI partitions gave some breathing space to the Geteway staff, but the danger remained constant.

When Returnil Virtual System (RVS) stepped into the picture, the situation changed completely. Returnil Virtual System creates a copy of the operating system, applications are therefore run in a virtual, sandboxed environment and users work with that copy rather than underlying operating system. Configuration changes and software installed by a user – including unintentionally installed malware - during a session can be eradicated by a simple reboot. In short, RVS provides complete protection against both viruses and other forms of malware and unwanted configuration changes.

In Geteway's case, special configuration of RVS was installed to all client computers that extended the protection provided by RVS to the iSCSI partition, rather than the system partition. The maintenance work needed to enable a secure iSCSI Cloud Computing environment was immediately reduced to nil. Since the iSCSI partition was virtualized and recreated with each new system start between customers, security became a natural, built-in extension of the existing architecture and usage scheme of the iSCSI protocol.

The solution provided by Returnil was a perfect match to the problems faced by Geteway. So much, that Geteway agreed to also become the distributor of Returnil products in the Taiwanese market. Thus the Returnil solution has transformed a difficult, time-consuming problem into a prosperous, long-term relationship between two providers of cutting-edge high technology.

About Returnil

Returnil is a privately held company with offices in Helsinki, Finland; St. Petersburg, Russia and Nanjing, China. Founded in 2007, Returnil is led by a strong executive team with many years of experience in managing and developing security companies and solutions and is backed by a range of private investors including VTB - Venture Fund.

Returnil uses advanced technology to provide innovative security solutions for enterprises of all sizes and for home users. Returnil's mission is to provide both businesses and home users with a more effective way of securing their computers and networks.

To learn more about Returnil, please visit www.returnil.com .