

Secure, trusted e-mail has arrived. Lead the way.



The Challenge

E-mail has become an essential business communication tool, and is rapidly evolving as of this fact.

There are a number of security features a company has to incorporate in order to establish trusted e-mail communication with its partners and customers.

The Solution

The **VSP** is an advanced yet easy-to-use e-mail security gateway available as a virtual machine.

It provides, and simplifies the deployment of, all today's and tomorrow's technologies without you having to make changes in existing e-mail infrastructure.

"We are extremely satisfied!"
— Anders Aleborg, CEO, Binero

"Following a thorough evaluation, we have chosen Halon Security"
— Murat Yigit, Crystone

"Reduced spam to almost nothing. We are very happy with both performance and support!"
— Leif Wenker, Becker Acroma

THREATS

First of all, an efficient spam, virus and phishing filter that prevents threats such as data leakage without risking that genuine messages are lost.



Outbreak signatures combined with pattern and definition databases is the answer, solving the spam and malware problem with virtually no false positives.

TRUST

Authenticity is a serious concern, and companies are expected to both sign the messages they send and validate the ones they receive.



Being the first gateway to support DKIM with DNSSEC, cryptographically perfected validation is finally being provided.

ROI

The typical e-mail security appliance demands considerable investment, both in purchase, subscription and maintenance.



Being a zero-maintenance, light-weight virtual appliance, it requires only a per-user subscription, resulting in unparalleled ROI.

TOPOLOGY

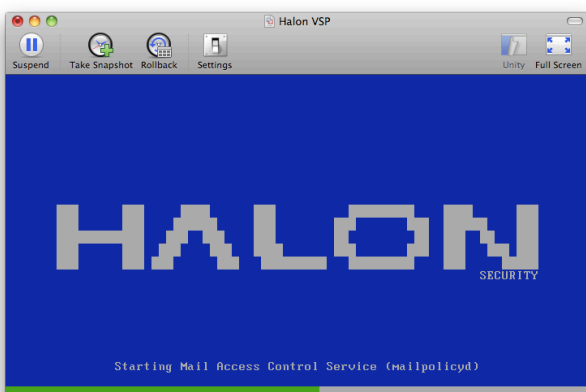


The Virtualization Advantage

The VSP integrates seamlessly with all of VMware virtualization platforms. The advantages of moving security appliances into your private cloud are many;

- ▶ **Scalability:** the VSP scales with your virtual platform, and the process of adding and removing cluster nodes couldn't be any more convenient thanks to the virtual machine packaging and the VSP's clustering.
- ▶ **Reliability:** VMware offers the absolute cream of high availability, and there's no longer excuse for down-time. The VSP is optimized to fully harness the power of a high availability cluster.
- ▶ **Efficiency:** the lightweight architecture of the VSP enables you to actually *lower* the overall load of a virtual platform, as the e-mail or groupware server is no longer troubled with anything but genuine messages while the VSP blocks more than 98% of spam, viruses etc. on connection (IP) level using very modest resources. The VSP uses excessive caching in order not to trouble neither the back-end e-mail server, the storage system nor the network system with dispensable requests. The virtual infrastructure approach elegantly organize and supervise load and thus enable full utilization of hardware investments and minimize energy consumption.
- ▶ **Return On Investment:** in addition to the well-known economical benefits of virtualization, migrating traditionally expensive hardware appliances into your private cloud further increases its ROI as the only cost is the annual per-user subscription.

The VSP starting up in VMware Fusion



Technical Features

- ▶ **Fights:** spam, viruses, phishing, malware and other threats, with less than 1 in 5 million false positives using commercial technologies from the industry-leading spam and virus protection vendors, in combination with in-house technology.
- ▶ **DKIM, DNSSEC and IPv6:** jump-start deployment of future technologies using the first e-mail gateway to fully support signing and validation with a secure domain resolver.
- ▶ **Clustering:** full master-master scheme clustering with private keys, e-mail index replication and central management administration.
- ▶ **Zero maintenance:** the real-time outbreak technique makes "training" obsolete, as signatures, reputation data and malware definitions are automatically updated.
- ▶ **Rapid deployment:** optimized for VMware and featuring an un-precedented setup experience.
- ▶ **Scripting:** feel the power of being able to control and extend the appliance using the native, highly cached language HSL; Halon Scripting Language.
- ▶ **Outgoing mode:** stay out of blacklists, by not distributing spam or viruses. The VSP supports inbound and outbound mode simultaneously, and can be made fully transparent. Corporate security policy enforcement, rate controls, encryption and signatures can be applied.
- ▶ **Management:** as the web administration is in fact a JavaScript application, the entire product can be fully controlled and monitored using SOAP, and an enterprise SNMP MIB is available in addition to syslog. The revision-based human-readable configuration combined with automatic application of changes provides a trackable, transparent administration without the need to restart.
- ▶ **Quarantine:** in addition to rejecting, many other actions are available and can be combined; such as an easy-to-use quarantine (supporting branding, seamless Exchange and GroupWise integration, clustering, etc), direct delivery (bypassing the outgoing queue), deferring, wrapping, duplication, etc
- ▶ **H/OS:** the time-proven security-hardened operating system from Halon Security is found in security gateways, firewalls and mail gateways all around the world. Built upon the proprietary HSL scripting language running on a bare-bone FreeBSD kernel are the asynchronous services that enables H/OS 2 to handle immense amounts of connections.

The Next Step

Trying out the VSP couldn't have been easier. To experience the critically acclaimed web administration, steer your web browser to demo.halon.se and sign in with username and password **demo**. To install and evaluate the VSP's capabilities on your own VMware platform, simply

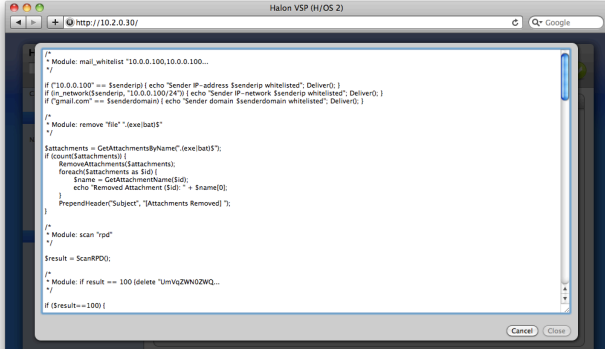
- ▶ **Deploy OVF Template:** install the appliance with a few clicks from within the Infrastructure Client, either directly using the OVA file URL, or from an OVF package downloaded from our website. It's also possible to launch the VSP from a desktop virtualization product, such as VMware Player.
- ▶ **Getting Started Guide:** from within the appliance's VMware console, provide a few details such as an IP address and the address of the back-end e-mail server.
- ▶ **Redirect:** add an extra MX record in the DNS server or change the port forwarding in the firewall to start using the VSP.

Should you like any assistance, don't hesitate to employ our free support.

- ▶ **E-mail:** support@halon.se
- ▶ **Phone:** +46 31 301 1920

The VSP is easily licensed, as the current number of users is always visible, and it's a matter of registering a software license key.

Displaying the HSL code of built-in modules



```

* Module: mail_whitelist "10.0.0.100,10.0.0.100..."
*/
if (10.0.0.100 == $senderip) { echo "Sender IP-address whitelisted"; Deliver(); }
if ($network($senderip, "10.0.0.100/24") { echo "Sender IP-network whitelisted"; Deliver(); }
if ("gmail.com" == $senderdomain) { echo "Sender domain whitelisted"; Deliver(); }
}

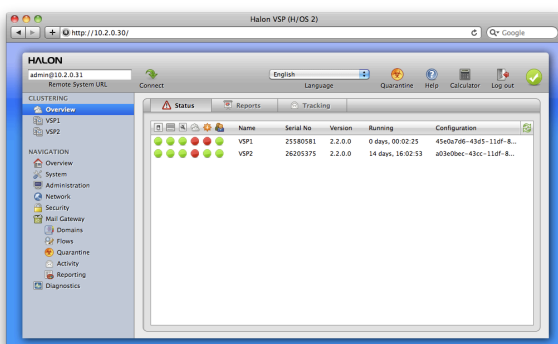
* Module: remove "file".{exe|bat|s}
*/
$attachments = GetAttachmentsByName("{exe|bat|s}");
if ($attachments) {
  RemoveAttachments($attachments);
  foreach($attachments as $id) {
    $name = GetAttachmentName($id);
    echo "Removed Attachment ($id): " + $name();
  }
  PrependHeader("Subject", "[Attachments Removed]");
}

* Module: scan "ypid"
*/
$result = ScanRPD();

* Module: if result == 100 {delete "hiviz2wng2w..."}
if ($result==100) {

```

The clustering overview status screen



Resources

- | | |
|---------------------|--|
| Company Website | halon.se |
| Product Overview | halon.se/products/mailsecurity |
| Administration Demo | demo.halon.se |
| Knowledge Base | wiki.halon.se |
| E-mail | info@halon.se |
| Support | support@halon.se |
| Sales and Marketing | sales@halon.se |
| Phone | +46 31 301 1920 |

About Halon Security

Halon Security AB is Sweden's most prominent e-mail security and spam prevention appliance manufacturer. The company was founded in 2002 and is headquartered in Gothenburg, Sweden. It's known for its award-winning firewalls and e-mail security appliances, which are used by large hosting providers, non-commercial and government organizations, municipalities and companies of all sizes.

Today Halon Security's leading product families are the mail security appliances in the SPG (hardware) and VSP (virtual machine) series and firewalls in the SX series.

All of the development, testing and support are carried out in Gothenburg, making Halon Security unique as of producing entirely Swedish products that in many cases are worldwide market leading in their respective niches. Today Halon Security is represented in 16 countries.

Learn more at www.halon.se

About VMware

VMware delivers solutions for business infrastructure virtualization that enable IT organizations to energize businesses of all sizes. With the industry leading virtualization platform – VMware vSphere™ – customers rely on VMware to reduce capital and operating expenses, improve agility, ensure business continuity, strengthen security and go green. With 2008 revenues of \$1.9 billion, more than 150,000 customers and 22,000 partners, VMware is the leader in virtualization which consistently ranks as a top priority among CIOs. VMware is headquartered in Silicon Valley with offices throughout the world and can be found online at www.vmware.com.

VMware, VMware vSphere and VMware vCenter are registered trademarks and/or trademarks of VMware, Inc. in the United States and/or other jurisdictions. All other marks and names mentioned herein may be trademarks of their respective companies.