



Virtual AutumnTECH Appliance



Use and Administration Guide v2.0.1

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Welcome to the Virtual AutumnTECH *User's Reference Guide*. This guide is designed to be your single source for information about your Virtual appliance. It is intended to be viewed on-line, using Adobe Acrobat Reader. The information displayed has been deliberately designed to present the maximum information in the minimum space on your screen. You can keep this document open while you perform any of the procedures described, and find useful information about the procedure you're performing.

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Chapter 1: Introduction

Welcome

Thank you for choosing the Virtual AutumnTECH appliance. This solution provides your network with a highly effective way to filter spam and stop most e-mail viruses while saving expensive bandwidth. How is this done? Inside this Virtual appliance you have powerful applications specifically designed to perform these duties. But what does all of this mean? At the core of this virtual appliance is a UNIX-like operating system security-hardened by a team of Certified Information Systems Security Professionals (CISSP).

AutumnTECH™ is a software development company that specializes in enterprise virtual appliances that protect and secure corporate e-mail messaging traffic assets including e-mail systems and users.

Solutions Highlights:

- Simple web-based administration and configuration using Webtivity
- Sophisticated self updating and self learning anti-spam and anti-virus e-mail traffic filters that keep end users mailboxes free of nearly all spam, phishing scams, and e-mail attached viruses
- Extract and remotely store e-mail attachments for sharing and document management
- Archive any hosted mailbox that is reachable via the IMAP connection protocol and make it available without the need to purchase expensive per-user archive licenses
- Ability to change e-mail message header content including sender based on user defined rules
- Postgrey e-mail filtering checking
- Ability to deny e-mail traffic based on public remote blocklist lookups databases
- Reject, accept, whitelist, and blacklisting of e-mail addresses and entire e-mail domains
- LDAP directory lookup for validating recipients before delivery
- No per-domain or per mailbox licensing, filter as much as your hosting hardware can manage
- Available AutumnTECH customization software development services fine tune your Virtual AutumnTECH Enterprise solution to your exact specifications and needs
- Low-cost introduction point allowing any business access to effective e-mail messaging security filtering
- Built using the most effective open-source platforms including OpenBSD, OpenSSH, Spamassassin, ClamAV, and Postfix.

AutumnTECH™ was founded in 2002 by managing partner and twenty year information technology security veteran Todd Boyer, CISSP @toddboyer. Since established, AutumnTECH™ solutions have scanned and blocked millions of unwanted and malicious e-mail messages for thousands of domains across the globe.

AutumnTECH™ is privately held and internationally headquartered just outside of Washington, D.C.

Operating System

When choosing a hardware appliance that performs activities such as spam fighting and e-mail virus blocking, one of the most important aspects to consider is the underlying operating system. AutumnTECH appliances run the OpenBSD UNIX-like operating system. OpenBSD is widely known for its unparalleled attention to security. Since its introduction, OpenBSD has only experienced two remote security holes in the default install.

E-Mail Server

AutumnTECH integrates the open-source project Postfix into our appliances. Postfix is a fully scalable and highly secure email system. We've included tools to block dangerous attachments at the MTA level, block e-mail sent from any number of block lists, absolutely deny any relay of e-mail other than to specified domains, and more.

Spam Identification

AutumnTECH integrates the open-source project Spamassassin™ into our appliances. Spamassassin is an extensible email filter which is used to identify spam. Using its rule base, it uses a wide range of advanced heuristic and statistical analysis tests on mail headers and body text to identify "spam", also known as unsolicited bulk email. The spam-identification tactics used include:

- **header analysis:** spammers use a number of tricks to mask their identities, fool you into thinking they've sent a valid mail, or fool you into thinking you must have subscribed at some stage. Spamassassin tries to spot these.
- **text analysis:** again, spam mails often have a characteristic style (to put it politely), and some characteristic disclaimers and CYA text. Spamassassin can spot these, too.
- **blacklists:** Spamassassin supports many useful existing blacklists, such as mail-abuse.org, ordb.org, SURBL, and others.
- **learning classifier:** Spamassassin uses a Bayesian-like form of probability-analysis classification, so that a user can train it to recognize mails similar to a training set.

In addition to Spamassassin, AutumnTECH integrates the open-source spam-fighting project **Greylisting**. Greylisting is a new method of blocking significant amounts of spam at the mailserver level, but without resorting to heavyweight statistical analysis or other heuristical approaches. Consequently, implementations are fairly lightweight, and may even decrease network traffic and processor load on your mailserver. Greylisting relies on the fact that most spam sources do not behave in the same way as "normal" mail systems.

Virus Blocker

AutumnTECH integrates the open-source project ClamAV into our appliances. ClamAV detects hundreds of thousands of viruses, worms, and Trojans. ClamAV supports archives and compressed files, detects Microsoft Office and MacOffice macro viruses, built-in support for RAR (2.0), Zip, Gzip, Bzip2 and others, built-in protection against archive bombs, and includes a database updater with support for digital signatures. Virtual AutumnTECH appliances perform hourly updates to the local ClamAV antivirus database file. When a virus is detected, the message is dropped and an e-mail alert is sent to the original recipient.

Webtivity Management

In order to simplify the management of the projects described above, AutumnTECH has built a simple, web-based application that we call "Webtivity". Webtivity allows you to control services, modify messaging handling rules, update spam thresholds, reboot the appliance, backup/restore/update and more. Access to Webtivity is done through a standard web browser and is secured by a username and password.

OPTIONAL SOFTWARE: To get the most out of your new virtual appliance, you'll need a SYSLOG Service running in your network.

Recommended:

- Syslog Daemon: www.kiwisyslog.com

Chapter 2: Configuring

Webtivity the Web-Based Management Utility

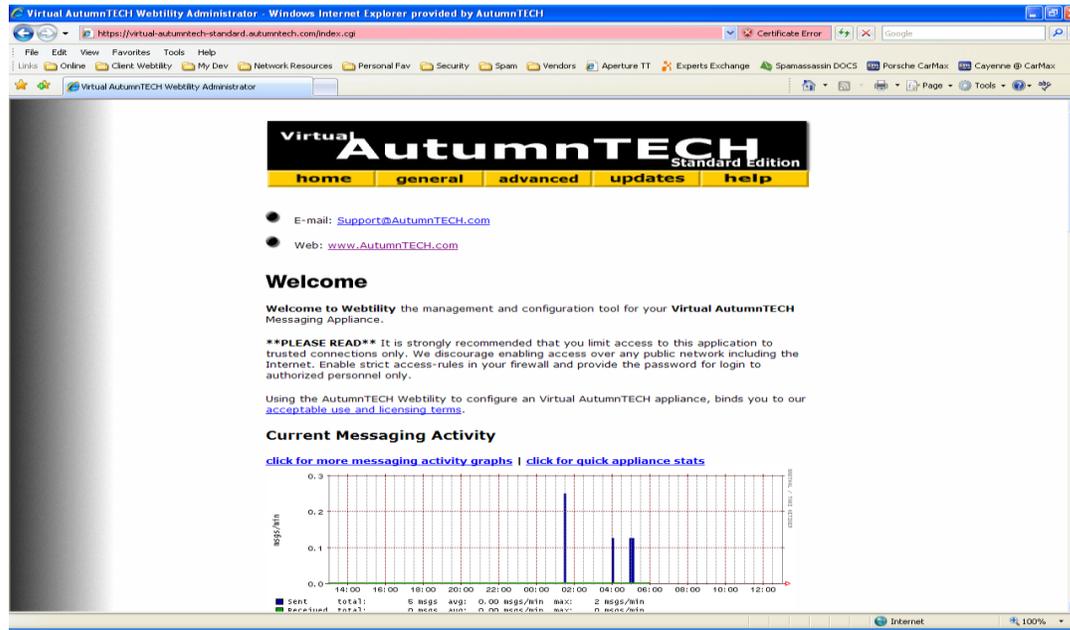
Webtivity can be accessed via any popular web browser. The URL is the same as the network IP address assigned, i.e. `https://theipaddressassigned`

The default Webtivity username is: **admin**
The default Webtivity password is: **(sent in your welcome e-mail)**

Webtivity contains five tabs; home, general, advanced, updates, and help

Home

The home tab contains useful information regarding the operating status of your Virtual Appliance. The information includes graphs that will update as e-mail traffic passes through the appliance.



General

The General area contains utilities to modify the appliance's date and time, networking information, passwords for Webility login, syslog settings, and rebooting to powering off the appliance.

Depending on the operating version, the quick stats reports will show a variety of information. The following is an example of the Enterprise version:

Quick Appliance Stats

Accepted E-mails Processed:

6

Latest Spam Activity:
[View High Limit Spam Traffic](#)

Tagged Spam	Not Tagged Spam	Tagged Spam Quarantined	Large Message Skipped
0	1	0	5

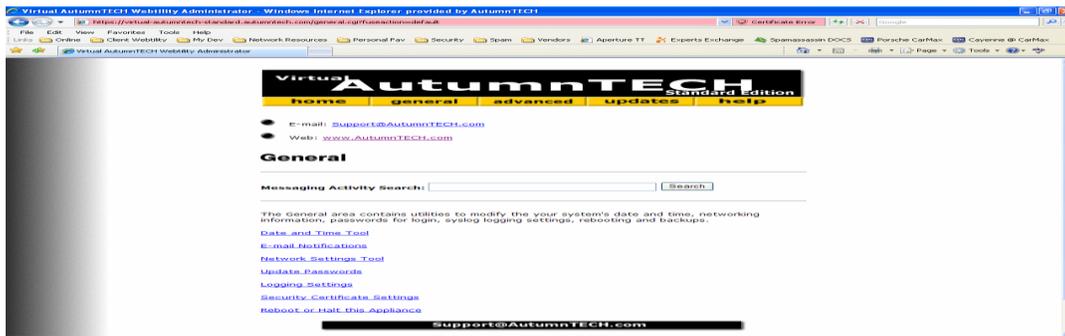
Number of Virus Infected E-mails:

0
ClamAV 0.94.2/9057/Sat Feb 28 08:56:20 2009

Latest Virus Activity:
[View the Anti-virus Capture Report](#)

Date/Time:	None
Sender:	None
Recipient:	None
Subject:	None
Sender Network:	None
Virus Info:	None

Enterprise Edition - Quick Appliance Stats



Date and Time Tool

Use this tool to configure the network time server addresses, select your location time zone, and to manually set the appliances date and time.

E-mail Notifications

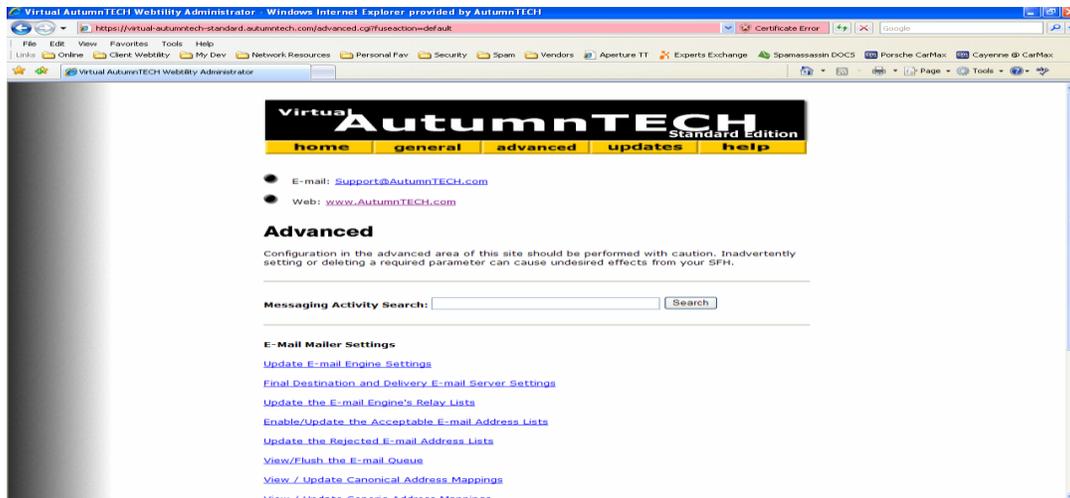
Use this tool to specify e-mail addresses that should receive appliance information including daily reports, status, and monitoring results.

Network Settings Tool

Use this tool to configure the network settings including the IP address, DNS servers, and default gateway. In addition, a network test utility is included for “pinging” and “trace routing” for diagnostic purposes.

Update Passwords

Use this tool to update the Webility admin access password.



Update Spam Flag and Tag Settings

This tool allows for the configuration and selection of common anti-spam fighting techniques. Settings include the minimum threshold score that a message will be considered as spam and a maximum threshold spam score limit that will delete and not deliver a message that's score exceeds.

In addition, you can configure the alteration of the subject line to include text if a message is detected as spam. Attaching suspected spam will generate a new message body for the e-mail that scored higher than the minimum threshold attaching the original message to that new message body.

The Bayesian learning system when set to auto-learn will extract and tokenize spam messages saving the result in a local database file. These tokens will then be used on future messages seeking similarities and scoring based on those similarities. The minimum and maximum setting is useful if your desire is to learn a maximum amount of e-mail first BEFORE scoring messages. Set this value to a higher number than the 200 default to train more and scoreless.

Use the "Allowed Senders" text area to specify e-mail addresses and entire domains that should always pass through the anti-spam check as not spam.

Use the "Blacklisted Senders" text area to specify e-mail addresses and entire domains that should always fail the anti-spam check. Depending on the maximum threshold defined above, blacklisting will most likely block e-mail entirely, deleting and removing the message off of the appliance.

Update the Anti-Spam Engine Settings

Use this tool to enable or disable the anti-spam check, set a maximum message size to send through the anti-spam engine, whether or not to quarantine e-mail tagged as spam, and finally whether or not to enable the e-mail message footer text that appends to all incoming e-mail and what that text should be.

Update LDAP Search Before Delivery Settings

Use this tool to authenticate sender and recipients before mail delivery. Authentication is validated by making a LDAP query call into an active and compliant directory. The LDAP authentication query includes FROM, TO, and CC e-mail addresses. BCC recipients **CAN NOT** be used for authentication. If any of the submitted addresses match a corresponding object in the directory, mail is allowed to pass to the next processing rule. If no match can be made, the "failed" option switch is activated.

The advantages of this tool included reduced failure reports generated by your mail delivery system and faster mail handling and processing. In addition, enabling this tool allows Administrators greater control over handling "spoofed" e-mail addresses and their delivery. Results from the lookup can be reviewed in the e-mail message header. Look for the value associated with the message header: "Virtual-AutumnTECH-ldapsearch"

Update E-mail Engine Settings

Use this tool to update the primary e-mail server settings. Description of each of the features should be self-explanatory.

Update Final Delivery Transport Settings

Use this form to manage final SMTP delivery of filtered e-mail addresses and entire domains. Use of this tool allows for extreme flexibility with the final or next e-mail "hop" for delivery of a filtered e-mail message. This form is read from the top down until a match is made. Specify one entry per line, click "save" to store settings, changes are instant.

Examples:

The following entry would delivery e-mail addressed to support@anycompany.com to the smtp server located at mail.anycompany.com:

support@anycompany.com smtp:mail.anycompany.com:25

The following entry would delivery e-mail addressed to anyone at anycompany.com to the smtp server located at mail.anycompany.com:
anycompany.com smtp:mail.anycompany.com:25

The error mailer can be used to bounce mail. This causes all mail for user@example.com to be bounced.

example.com error:mail for *example.com is not deliverable

NOTE: The [] form is required when you specify an IP address instead of a hostname.

example: anycompany.com smtp:[192.168.1.15]:25

NOTE: If you used the Quick Start Configuration Wizard described in a Chapter 2, your domain will already be listed here. You must always configure here when adding additional e-mail domains that will filter through your Virtual AutumnTECH appliance.

Final Destination and Delivery E-mail Server Settings (deprecated, will be removed in a future firmware release, use Update Final Delivery Transport Settings to specify final destination servers)

Virtual AutumnTECH uses split horizon DNS addressing to determine the final destination for e-mail delivery. The public will believe that the Virtual AutumnTECH appliance is the final destination for your e-mail, the Virtual AutumnTECH through configuration of this tool will understand that your internal e-mail server is the final destination.

Update the E-mail Engine's Relay List

This tool will allow you to specify the e-mail domains that are allowed to relay through and filter inside of your Virtual AutumnTECH appliance. Domains listed in the first text area and NOT in the second will only relay through the appliance and will not be passed to the filtering engine. Normally, the top two text areas contain the exact same domain information.

The final text area allows you to specify domains to send through the filter engine that are relaying out to the Internet. In order for outbound relaying to work, you must set "Permit relay mail out of my local area network?" to Enabled and then specify by IP address the servers actually allowed to relay out in the "Permitted these my local area relay network subnets" text field. These settings are found in Update E-mail Engine Settings.

IMPOTANT – Make sure that you create a mapping in “Final Destination and Delivery E-mail Server Settings” for ALL new incoming filtering domains created with this tool.

Enable/Update the Acceptable E-mail Address List

Set Current Status to “Enabled” and provide a list of acceptable e-mail address that your Virtual AutumnTECH will accept. Any recipient e-mail address not listed here will be rejected.

Update the Rejected E-mail Address Lists

Reject sender and recipient e-mail addresses and entire domains can be specified in this tool.

View/Flush the E-mail Queue

Check the status of the Virtual AutumnTECH e-mail queue. Search the queue and force re-queuing or deletion of e-mail.

View / Update Canonical Address Mappings

Use this tool to redirect e-mail and/or to masquerade the sender e-mail address before final delivery.

View / Update Generic Address Mappings

Address mapping tool that applies to the sender portion of outbound messages.

Update E-mail Attachment Extract and Save Settings

Use this tool to extract e-mail attachments. The extracted attachments will be uploaded to your file transfer protocol (FTP) server.

Attachments will be uploaded by FTP and stored by the / recipient domain / recipient's e-mail address / sender's domain / sender's full e-mail address / the exact date and time the message arrived / subject of message /

RIPMIME DOES NOT secure the remote directory (although it will create the directories automatically) and the associated attachments. We highly suggest setting parent permission on the destination FTP server and allowing that permission to propagate to the created subfolders.

Manage and Update E-mail Archive User Settings

Use this tool to manage e-mail archive settings for specified users. This tool will query a remote IMAP server for the specified user and create an IMAP reachable local copy of their e-mail data on this appliance. This tool will allow for a cleaner source e-mail server database and allow instant and easy access to older e-mail for the user.

Specify connection info including the remote server name, server port, user login info, the remote user's folders to search, how many days from the beginning of time up to query for and save, and finally which folder on the remote source mailbox (default Deleted Items) to move archived e-mail.

For example, Jonny Smith has a mailbox on his IMAP-enabled remote e-mail server located at IP address 192.168.1.3 which is listening on port 143. His mailbox has been online for over 5 years and he wishes to have any e-mail located in his Inbox (including all subfolders) and Sent Items archived that are older than 3 years or 1095 days. His settings would look something like this:

Use this tool to manage e-mail archive settings for specified users. This tool will query a remote IMAP server for the specified user and create an IMAP reachable local copy of their e-mail data on this appliance. This tool will allow for a cleaner source e-mail server database and allow instant and easy access to older e-mail for the user.

Last Activity Result:

Fri Jan 24 13:09:39 EST 2014 Successfully removed user: admin123

Create a New E-mail Archive Account

E-mail Archive Server IP or Host Name:

E-mail Archive Server IMAP Connection Port (default 143):

E-mail Archive Server IMAP Username:

E-mail Archive Server IMAP Password (leave blank during update request to keep original account password):

E-mail Archive Server IMAP E-mail Address:

E-mail Archive Server Start Search Sent up to This Number of Days Prior to Today:

E-mail Archive Server User Folder List to Archive (comma separated):

E-mail Archive Server User Source Folder to move Archived E-mail Into:

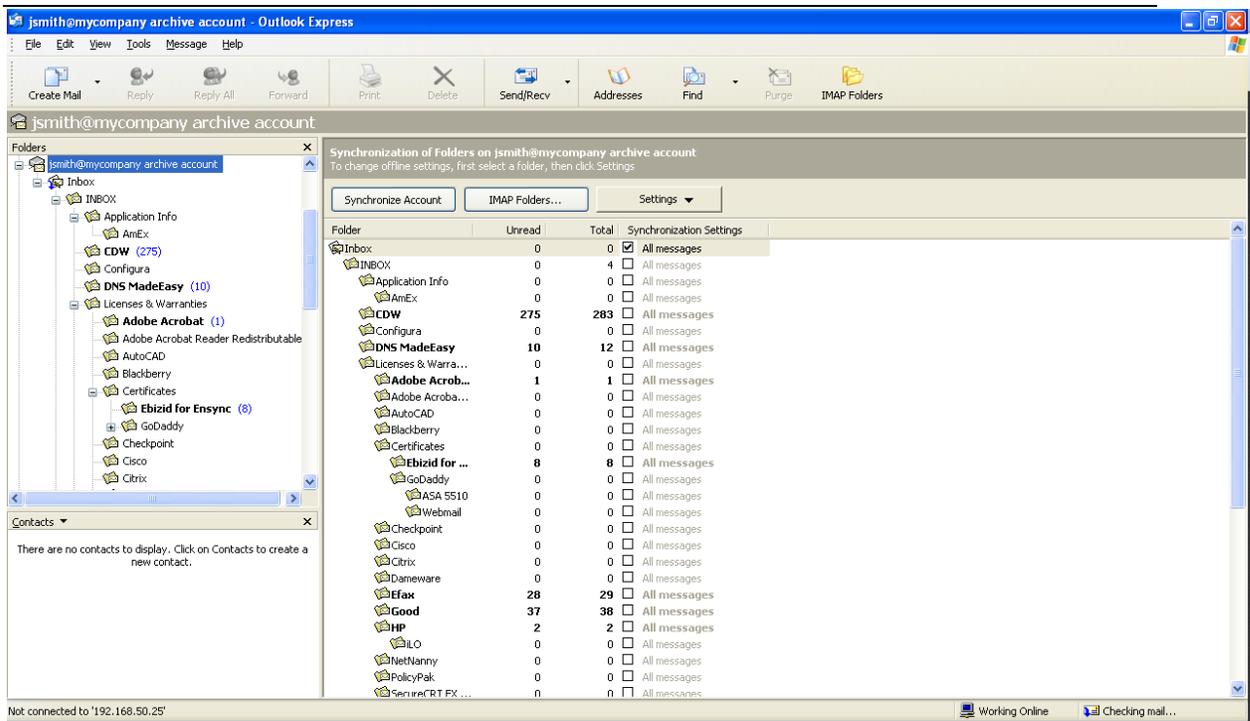
Account Active? Yes No

NOTE: Saved accounts will appear below in "Manage User Accounts". Use those action options once this account has been saved.

When enabled, use the **'Manage Archive User Accounts'** to run, view logs, update a user settings, and to remove an account.

When a 'run archive' is initiated, Jonny's e-mail messages older than 3 years will be copied to his local archive mailbox account (reachable from any e-mail client via a IMAP account setup) and then moved to the folder defined (default Deleted Items) by his settings. Items in his remote Deleted Items folder can then be purged by Jonny or by an e-mail server policy defined by his Administrator.

Jonny's e-mail archive can now be reached by adding an additional (or creating a new) mailbox account within his e-mail client. He simply connects to the AutumnTECH appliance via the IMAP protocol using the login credentials created during signup.



Update the Anti-Virus Engine Settings

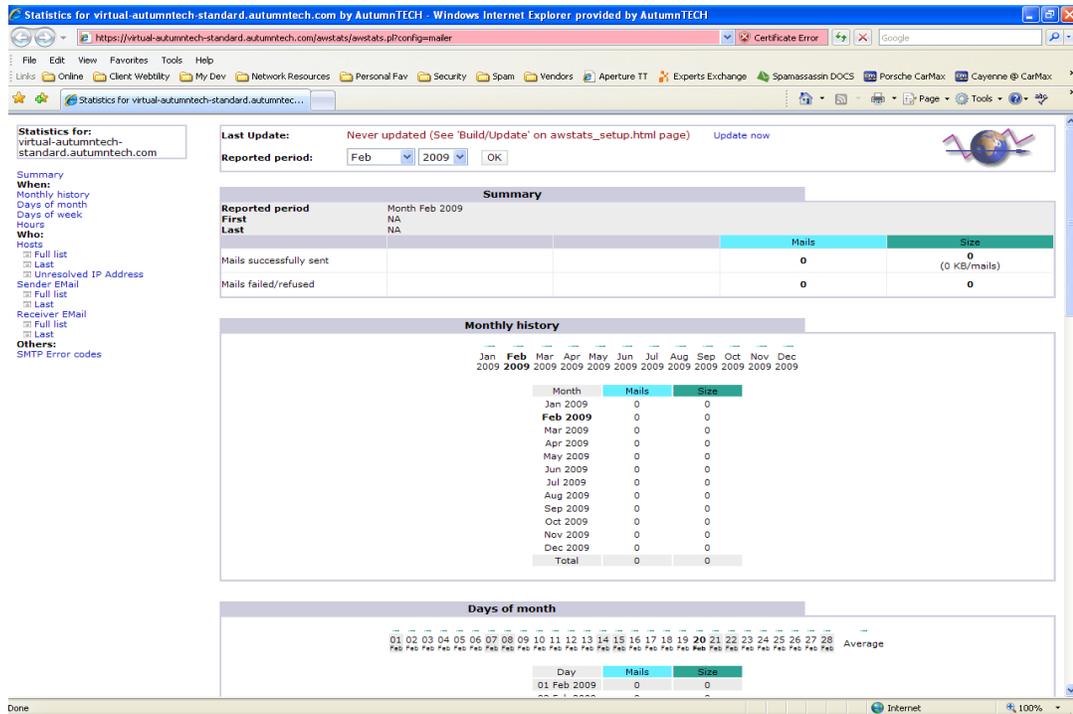
Use this tool to manage the whether the anti-virus engine should check e-mail as it filters through the Virtual appliance. In addition, set whether or not to notify the original recipient and/or appliance Administrators is a virus is detected.

Update Firewall Configuration and Ruleset

Use this tool to restrict access to the network services running on this appliance to specific network addresses.

E-mail Traffic Reports (graphics version)

This is a graphical tool for displaying current and archived e-mail traffic.



E-mail Traffic Reports (text only version)

Display current e-mail traffic and hourly statistics occurring today and over the past four days.

Anti-Virus Capture Report

This tool will report on the number of viruses detected, sender's public IP addresses, subjects of those viruses, and finally the top recipients of virus infected e-mail.

Anti-Virus Traffic Report

This tool will redirect to the search page using "virus-infected" as the search string. In here you'll be able to sort and filter the detected virus traffic.

Anti-Spam Traffic Report (top 100)

This tool allows you to view filtering statistics related to the filtering of e-mail inside of the anti-spam engine. Use the drop down menu to select today's history, or yesterdays, or report on traffic for the past four days.

View Spam Traffic Handler Log

Use this tool to view the filtering engine processing e-mail traffic

View E-mail Traffic Handler Log

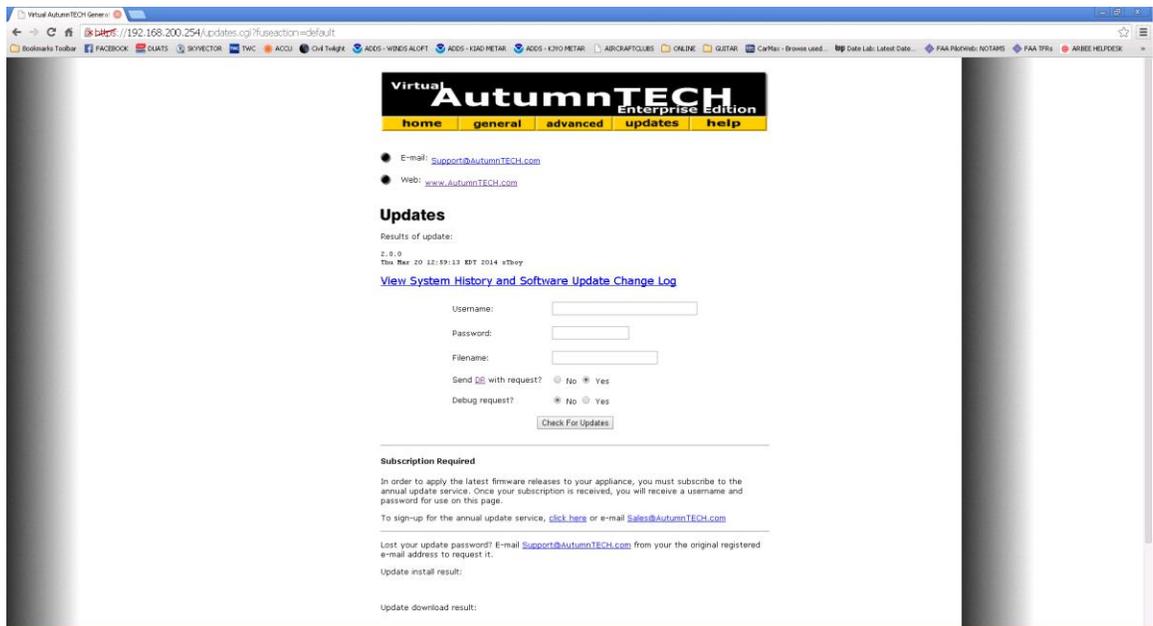
Use this tool to view raw e-mail traffic processing e-mail traffic

Show Appliance Information

Display useful operational information regarding the uptime, processor load, and startup output.

Updates

The Updates tab will allow subscribers to apply the latest Virtual AutumnTECH firmware releases.



Your update username and password will be provided after your purchase.

Help

This page provides links and the ability to submit a diagnostic report to AutumnTECH support for troubleshooting assistance.



Chapter 3: Filtering

Virtual AutumnTECH should be placed in-between your firewall and your e-mail server. To enable Virtual AutumnTECH (typically) you must update the access control rule inside of your firewall so that incoming network traffic on TCP port 25 (SMTP) is mapped to the IP address of the Virtual AutumnTECH appliance.

**** IMPORTANT **** The Postgrey Greylisting service enabled in Update E-mail Engine Settings will cause minor delays in the delivery of e-mail from first time senders. Do not be alarmed if incoming e-mail begins to arrive shortly after enabling and not immediately.

All e-mail that passes through the filtering engine will contain useful information in the header of each e-mail message. Use this information for identifying what happened to the message as it passed through the Virtual Appliance.

