



To succeed in business it is necessary to make others see things as you see them.

Case Study

TrueMail - Spam Filtering Gateway

Abstract

TrueMail is an Anti-spam and Anti-virus Email Filtering System that provides the most comprehensive solution to email threats. Any incoming mail, instead of going directly to user mailserver, goes through the TrueMail appliance first. The messages are scanned using a number of spam detection methods. Each email message is then assigned a corresponding score - the higher the score, the higher the likelihood that the e-mail is spam. The appliance can then be set to reject messages that are above a certain score, either by tagging these messages, or sending the messages to a separate quarantine inbox.



Case Study

Client Profile

The client is technology solution company headquartered in USA that offers quality Network Management, Network Security, Email Security solution, and high quality Business Process Outsourcing & Managed IT Services.

Business Need

The client was looking for an advanced anti-spam/anti-virus email system to cater to the hi-end emails traffic of the business sector. The system needs to be capable to identify spam and non-spam mails. In addition, the system should authenticate user before sending email, so the unknown users cannot send spam mails using the system.

The main idea behind this solution was to take mail processing away from the web servers as well as delivering a great range of additional functionality.

Challenges

- Communication with PostFix MTA, a computer program for the routing and delivery of email.
- Communication with KasperSky, a well-known anti-virus tool, used to check the email.
- Communication with SpamAssassin, a well-known tool for detecting spam mails, used to scan and identify emails.
- Implementation of X.509 Certificates to handle the licenses of the system
- Scan password protected attachment for virus
- Development of a Mail Client Plug-in, which allow user to mark a spam or non-spam mail, this will be useful to retrain the spam-checking tool.

Solution

Gateway developed an email solution, which is an Anti-Spam and Anti-Virus Email filtering system, deployed on a standalone Intel x86 based appliance, catering to these requirements by integration with third party security tools, and destined to filter all Email traffic of small to mid-size businesses.

The solution is developed with the following core components:

- Server, the appliance based solution that works as sub-system of the MTA. The main role of the sub-system is to filter emails, which are given by the parent MTA server, apply rules and send back to parent MTA. The server is multi-threaded to handle the heavy mail traffic.
- A Web-Interface for end-users and administrator, that provides functionalities based on their user type. The administrator accesses web-interface to manage users, rules, system level white-list/black-list and sub-system configuration, whereas, end-user logged in to manage their account, quarantine mails and white-list/blank-list.
- The Email-client plug-in, downloaded via web-interface that provides functionality to report the email as spam mail.



Case Study

Features

- Remote configuration
- Real time server monitor and administration
- Spontaneous request status retrieval
- KasperSky integration for **Anti-Virus Scanning**
- SpamAssassin integration for spam checking, that returns scores, which is used for identifying a spam mail.
- Implement multiple authentication methodologies for sender & receiver identity verification like SMTP verification and LDAP verification.
- Domain Black list/ white list management
- Email Address blank list / white list management
- Quarantine management
- User management
- Group management

Benefits

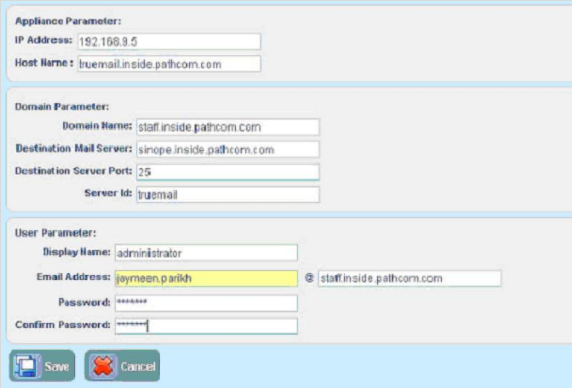
- A complete, robust, bug-free, ready to market product
- A highly effective, low cost solution for spam control
- Generates ROI immediately
- New addition in product umbrella

Technology

- GNU C++, Struts Frame work, JSDK 1.4, Postgres
- Presentation Layer: developed in JSP using struts frame work for separation of presentation layer with the data
- Middle-Ware: Java Beans and Enterprise Java Beans (EJB) deployed on tomcat container

Industry

- IT



The screenshot shows a web-based configuration form for initial login. It is divided into three main sections: Appliance Parameter, Domain Parameter, and User Parameter. At the bottom, there are 'Save' and 'Cancel' buttons.

Appliance Parameter:	
IP Address:	192.168.9.5
Host Name:	truemail.inside.pathcom.com

Domain Parameter:	
Domain Name:	staff.inside.pathcom.com
Destination Mail Server:	smtp.inside.pathcom.com
Destination Server Port:	25
Server Id:	truemail

User Parameter:	
Display Name:	administrator
Email Address:	jaymeen.parkh@staff.inside.pathcom.com
Password:	*****
Confirm Password:	*****

Screenshot for Initial Login

Case Study

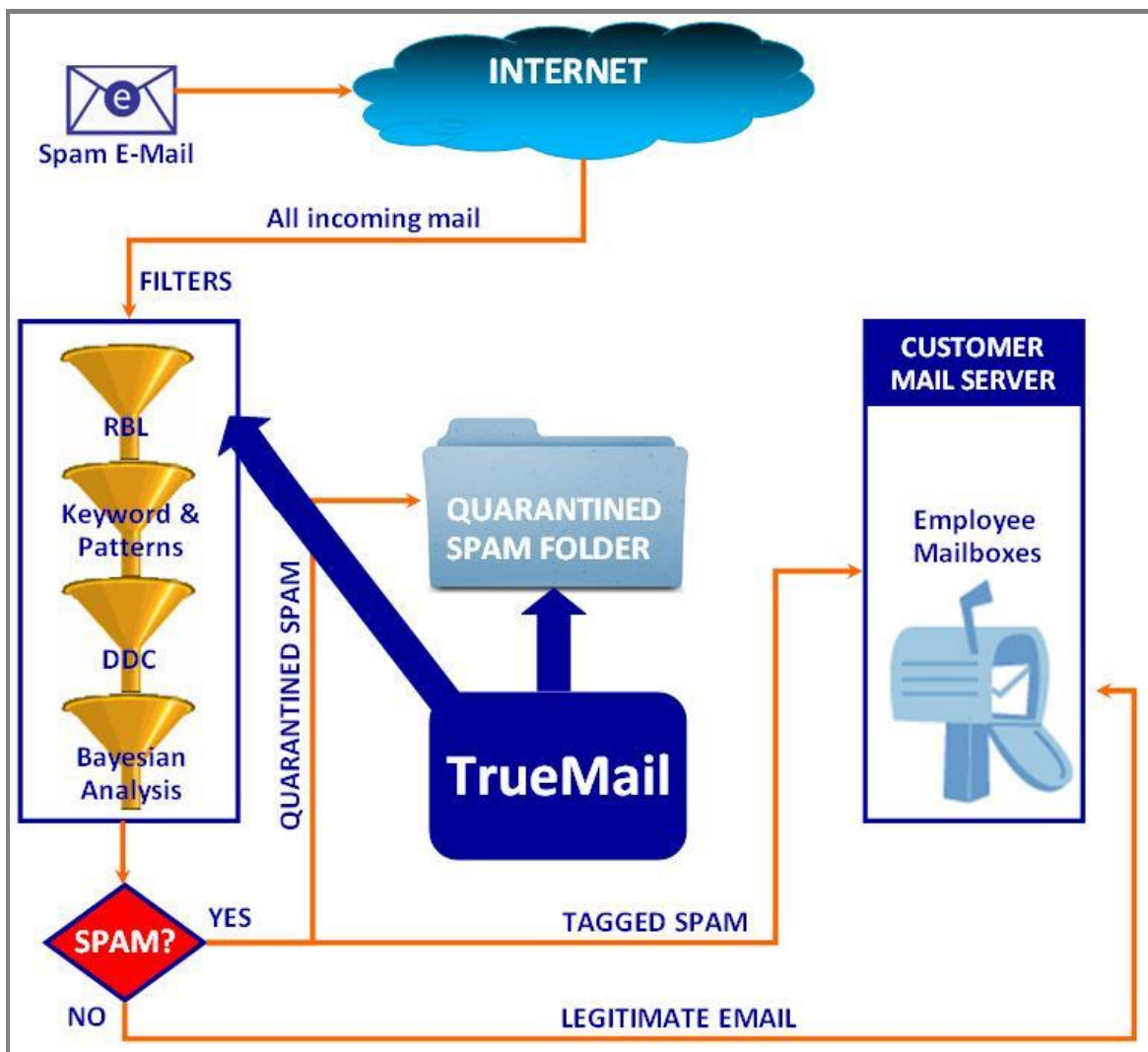


Figure: Spam Filtering Process

Gateway TechnoLabs defines designs and delivers IT-enabled business solutions that help Global 2000 companies win in a flat world. These solutions focus on providing strategic differentiation and operational superiority to clients. Gateway creates these solutions for its clients by leveraging its domain and business expertise along with a complete range of services

With Gateway, clients are assured of a transparent business partner, world-class processes, speed of execution and the power to stretch their IT budget by leveraging the Global Delivery Model.

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