

Proxmox Mail Gateway 2.1

Proxmox addresses the full spectrum of unwanted E-mail traffic, focusing spam and virus detection

Anti Spam

- Enterprise-class anti spam engine with more than 30 different filter methods including **OCR** image recognition
- The systems attempt to optimize the efficiency of the rules that are run in terms of minimizing the number of false positives and false negatives

Anti Virus and Anti Phishing

- Dual layer virus blocking
- Integration of two high performance and multithreaded anti virus engines: Kaspersky AV and ClamAV

Hardware Independent & Full Virtualization support

- Works with industry standard servers from leading hardware companies—See actual list of certified hardware on www.proxmox.com
- **RAID** support on all versions (including free version)
- Multiprocessor support (tested with Intel Dual Core Xeon Processors)
- VMware™ Virtual Appliance
- Virtuozzo™ and OpenVZ Appliance

Easy Implementation and Administration

- Installed in minutes
- Administration is done via a easy to use secure web interface

Object-oriented Rule System

- Powerful objects to manage incoming and outgoing e-mail traffic

LDAP Integration

- User LDAP groups and users to manage E-mail traffic
- Complete integration in your existing environment

Administration, Reporting and Statistics

- Daily reporting
- Advanced per user and per domain statistics
- Message Tracking Center, Syslog support
- Performance statistics



Hardware

Proxmox certified:

- Hewlett Packard
- IBM
- Fujitsu-Siemens
- Intel
- Lex Computech

Hewlett Packard



Fujitsu-Siemens



Contact

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Proxmox Mail Gateway

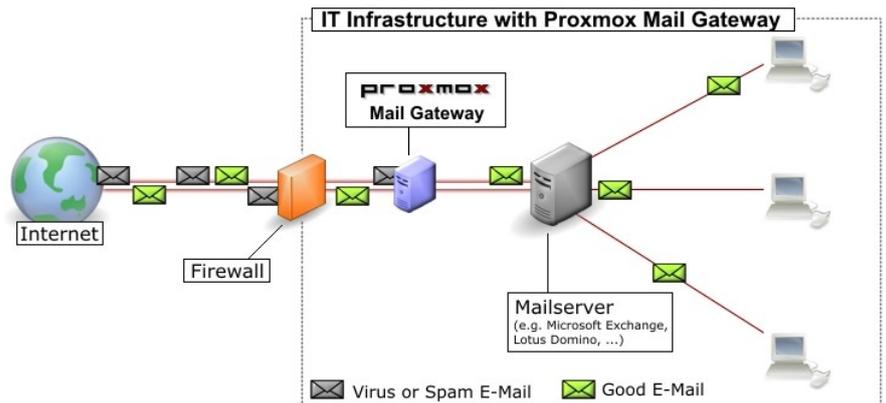
Welcome to the Proxmox Mail Gateway
For more information please visit our homepage at: www.proxmox.com

License Information

License Nr.	91E5-4537-693E-AC0A-2088
Company	Smith Ltd.
Name	John Smith
Product	Proxmox Mail Gateway Professional (Unlimited)
Expires	02.03.2007
License MAC Address	00:0C:29:FC:18:D2
Kaspersky Antivirus Status	License valid (500 Users)

System Status

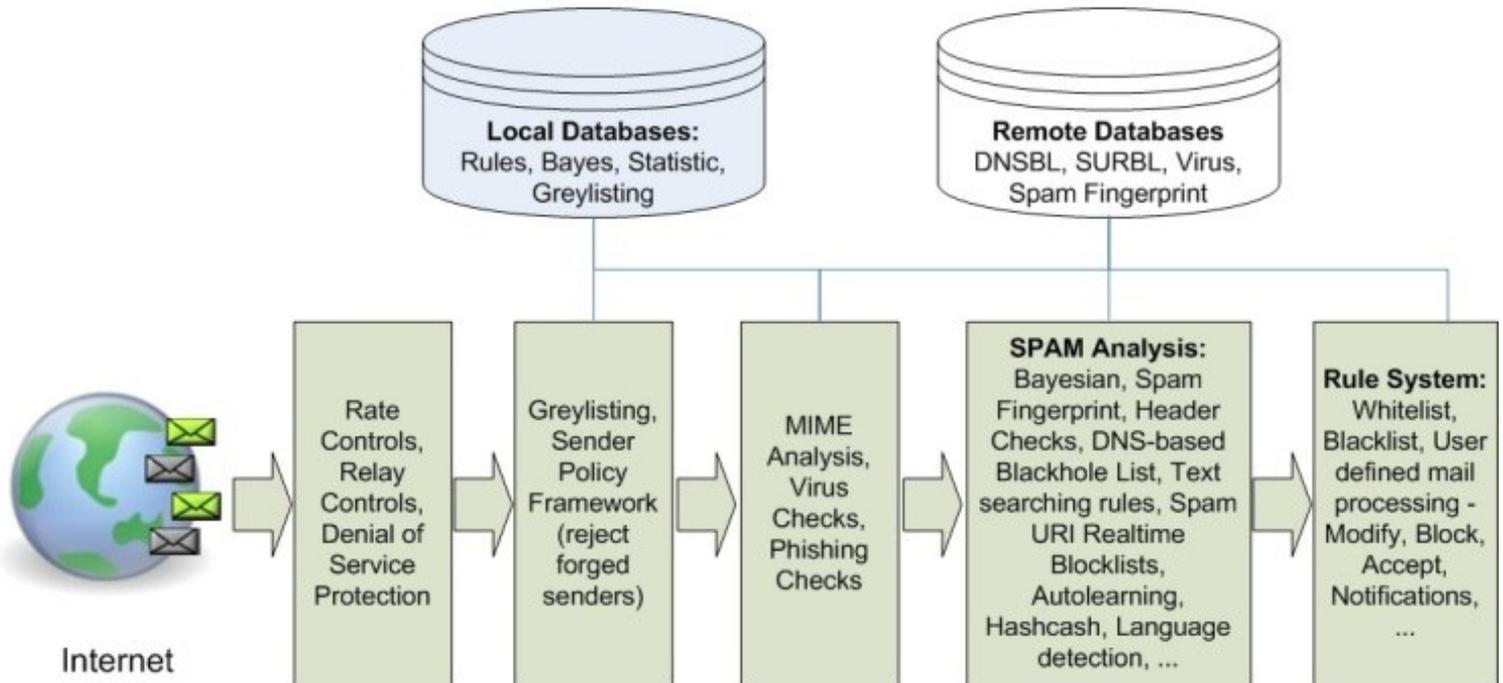
Uptime	16:22:55 up 5 min, 0 users, load average: 0.13, 0.40, 0.24
CPU(s)	1 x Intel(R) Pentium(R) 4 CPU 2.40GHz
Physical Memory (250MB/174MB)	
Swap Space (2047MB/2MB)	
HD Space (201098/404MB)	
Version (package/version/build)	proxmox-mailgateway/1.3/1994
Kernel Version	Linux 2.6.15 #1 SMP Mon Feb 20 18:47:04 CET 2006
Host MAC Address	00:0C:29:FC:18:D2



Mail Processing Details



Proxmox Mail Gateway Processing of Incoming E-Mail Traffic



Spam Filtering Methods

Greylisting

Greylisting is effective because many mass e-mail tools utilised by spammers are not set up to handle temporary failures (or any failures for that matter) so the Spam is never received and traffic is reduced.

Bayesian Filter

The Bayesian filter is a statistical filter which relies on the fact that particular words have different likelihoods of occurring across different categories. For instance, most e-mail users will seldom see the word "Viagra" in legitimate e-mail, but will encounter it frequently in spam e-mail.

Advanced Header Analysis and Text Searching Rules

E-mail headers are usually hidden, but they are required to deliver an e-mail to its destination. The system can detect inconsistent headers that are a feature of many spam e-mails. Around 600 text searching rules are used to detect phrases and other features common in spam e-mails.

Autolearning

The system gathers statistical information about spam e-mails. This information is used by an autolearning algorithm, so the system becomes smarter over time.

Spam URI Realtime Blocklists (SURBL)

SURBLs differ from most other RBLs in that they're used to detect spam based on message body URIs (usually web sites). Unlike most other RBLs, SURBLs are not used to block spam senders. Instead they allow you to block messages that have spam hosts which are mentioned in message bodies.

... please see Proxmox documentation for the complete list of methods.

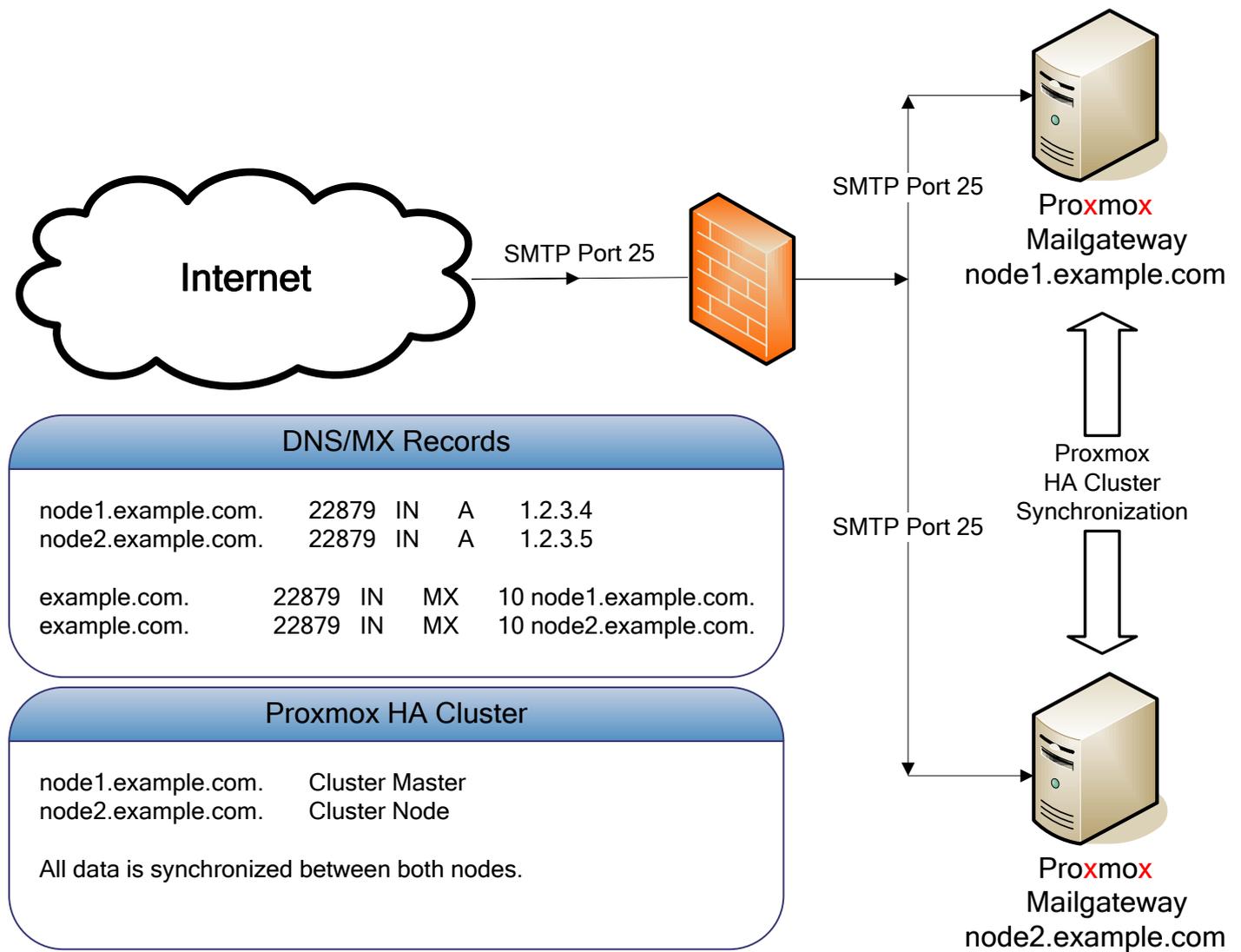
Proxmox HA Cluster



The Proxmox HA Cluster consists of a master and several nodes (minimum one node). Configuration is done on the master. Configuration and data is synchronized to all cluster nodes over a VPN tunnel. This provides the following advantages:

- centralized configuration management
- fully redundant data storage
- high availability
- high performance

We use a unique application level clustering scheme, which provides extremely good performance. Special considerations were taken to make management as easy as possible. Complete Cluster setup is done within minutes, and nodes automatically reintegrate after temporary failures without any operator interaction.



Proxmox Features & Performance



Feature Description	EDU/GOV	Professional	Standard	Free
Advanced spam detection	✓	✓	✓	✓
Virus removal including phishing e-mails	✓	✓	✓	✓
OCR support (Optical Character Recognition)	✓	✓	✓	✓
Automatic update of virus signature database	✓	✓	✓	✓
Automatic installation within minutes	✓	✓	✓	✓
Support for standard PC / Server hardware (i386)	✓	✓	✓	✓
SCSI and SCSI Raid support, Software Raid, SATA Raid	✓	✓	✓	✓
Secure web based configuration	✓	✓	✓	✓
Object-oriented rulesystem	✓	✓	✓	*
File type blocking	✓	✓	✓	✓
Advanced statistics	✓	✓	✓	✓
Daily reports for administrators	✓	✓	✓	✓
Quarantine Management (Spam- and Virus)	✓	✓	✓	✓
Personal white/blacklist	✓	✓	✓	✓
Daily Spam report for end user	✓	✓	✓	✓
Outbound e-mail filtering	✓	✓	✓	✓
Syslog support	✓	✓	✓	✓
Load Balancing using MX Records	✓	✓	✓	✓
Customizable Branding	✓	✓	✓	✓
Virtualization support: VMware™, Virtuozzo™ and OpenVZ	✓	✓	✓	✓
Disclaimers	✓	✓	✓	✗
Support for multiple mailservers via transports	✓	✓	✓	✗
Systemupdates via web interface	✓	✓	✓	✗
Additional powerful objects for the object-oriented rule system	✓	✓	✓	✗
Multiple mail domains support (depends on license)	✓	✓	✓	✗
Scheduled backup and restore	✓	✓	✓	✗
Kaspersky Antivirus integration (Dual layer virus blocking)	✓	✓	✓	✗
LDAP support for multiple LDAP Profiles	✓	✓	✗	✗
LDAP integration: use LDAP groups and users for rule system	✓	✓	✗	✗
Host locked license	✓	✓	✗	✗
Proxmox HA Cluster (High availability) - requires Cluster License	✓	✓	✗	✗
* Rulesystem is read only - only existing rules can be edited.				

Performance Overview (valid for all license types, including free version license)	Maximum number of Emails per day *	Active Email Users	Quarantine Storage **
HP DL380G5 X3.0GHz/4MB - Two Dual Core Xeon 5160 CPU´s, 4 GB Ram, four 146GB SAS 10K GB 10Krpm HDD´s, Raid5	20 millions	unlimited	400 GB
HP DL360G4p X3.4GHz/2MB - Two Xeon CPU´s, 2 GB Ram, two 146GB 15Krpm U320 HDD´s, Raid1	15 millions	unlimited	120 GB
HP DL320G4 P3.0/800-2M - One Pentium D, 1 GB Ram, 250 GB 7.2K SATA HDD´s	7 millions	unlimited	220 GB
* Capacity depends on settings and environment			
** Storage capacity depends on used harddrives			