

PROXMOX MAIL GATEWAY

OPEN-SOURCE EMAIL SECURITY

Proxmox Mail Gateway is the leading open-source email security solution, protecting your mail server against all email threats from the moment they emerge. Organizations of any size can easily implement and deploy the anti-spam and anti-virus platform in just a few minutes. Deploying the full featured mail proxy between the firewall and an internal mail server allows you to control all incoming and outgoing email traffic from a single platform.

ENTERPRISE-CLASS PROTECTION

Proxmox Mail Gateway can handle unlimited email domains with multiple internal mail servers and millions of emails per day. With the comprehensive, enterprise-class feature-set and the powerful web-based management interface, IT professionals can control all messaging, detect and block spam and viruses, customize roles and user management, and provide spam quarantine previews to end-users. The flexible architecture and many powerful integrated management tools like ZFS storage, Proxmox HA cluster, the message tracking center, the object-oriented rule system, and spam quarantine make Proxmox Mail Gateway the ideal solution for maintaining a secure and continuous email workflow, ensuring data integrity and business continuity. The future-proof, open-source development model of Proxmox guarantees full access to the source code, as well as maximum flexibility and security. Professional enterprise support on a subscription basis will help you to keep your deployments secure and up-to-date.

BENEFITS



Reduced Cybersecurity Risks

Protects against all email threats and helps to efficiently control all incoming and outgoing email traffic.



Affordable and Scalable

Handle unlimited users, email domains, internal mail servers, and millions of emails per day.



Easy Integration

Customize and analyze email flows with the object-oriented rule system, and use the REST API for seamless 3rd party integration.



Clear Insights and Control

Add clarity with the integrated web interface, provide spam quarantine previews to end-users, and trace emails with the Tracking Center.



100% Open-Source

No hidden licensing fee and full access to source code for customization.



Made for Production

Keep your business running smoothly with Enterprise-grade services & technical support from Proxmox.



Enterprise-Class Email Security

- ✓ Powerful open-source solution – no vendor lock-in.
- ✓ Based on reliable and trusted Proxmox technology.
- ✓ Enterprise-grade features.
- ✓ Incoming & outgoing email scans.
- ✓ Overview and control of all functions via the GUI.
- ✓ Runs on dedicated hardware or on all leading virtualization platforms including LXC.

Free & Open-Source Software

- ✓ Licensed under the GNU AGPL, v3.
- ✓ Debian-based, using Proxmox kernel with OpenZFS support.
- ✓ Public code repository (Git).
- ✓ Bugtracker for issue tracking.
- ✓ Community support forum.
- ✓ Documentation, project page, video tutorials, howto guides,...

Fast & Easy Installation

- ✓ Fully functional system setup within minutes.
- ✓ Available as ISO-install on bare-metal, or in a VM.
- ✓ Installation wizard.
- ✓ Install on top of existing Debian GNU/Linux system or as container on Proxmox VE.

Enterprise Support Agreement

- ✓ Avoid hidden costs, with clear subscription model.
- ✓ Flexible support options that grow with your needs.
- ✓ Access to the stable and extensively tested Enterprise Repository.
- ✓ Updates and version upgrades via GUI.
- ✓ Proxmox Offline Mirror tool to keep air-gapped systems up-to-date.
- ✓ Premium technical support from the highly-skilled Proxmox support team.

Proxmox High Availability Cluster

- ✓ 100% secure email system for business continuity.
- ✓ High performance, thanks to unique application level clustering scheme.
- ✓ Primary node and several secondary nodes.
- ✓ Central management configuration via GUI.
- ✓ Fully redundant storage.
- ✓ Synchronization of configuration and data to all cluster nodes via VPN (using SSH).

Unique Message Tracking Center

- ✓ Fast and powerful Proxmox Message Tracking Center.
- ✓ Track and summarize all email related logs for each message.
- ✓ TLS-logging.

Object-Oriented Rule System

- ✓ Enables custom rules for domains.
- ✓ Granular filters by user, domain, time frame, content type, and resulting action definable, with a well thought-through default set.
- ✓ Objects for WHO, WHAT, WHEN, and ACTION.

User Management

- ✓ Role-based access control scheme.
- ✓ Multiple authorization roles: Superuser – Administrator – Quarantine Manager – Auditor.

State of the art SMTP Deployments

- ✓ Support all current best practices of modern SMTP deployments.
- ✓ DKIM Signing.
- ✓ Before-Queue or After-Queue filter.
- ✓ Support for outbound delivery status notifications (DSN).
- ✓ SMTUTF8 aware SMTP Proxy.



Integration with Directory Services and Email Sources

- ✓ Use existing LDAP/Active Directory Accounts as objects in the rule system.
- ✓ Integrate externally hosted IMAP/POP3 Accounts using Fetchmail.

Backup/Restore

- ✓ Backup/restore the complete configuration, the mail filter rules, and the statistic database via GUI.
- ✓ Integration of Proxmox Backup Server.
- ✓ Choose local backups or Proxmox Backup Server.
- ✓ Backup the Proxmox Mail Gateway configuration on one or more Remotes.
- ✓ Quick restore in case of large-scale disaster.
- ✓ Schedule regular backups via GUI to periodically create backups of Proxmox Mail Gateway.

Spam Virus and Attachment Quarantine

- ✓ End-user spam quarantine with preview.
- ✓ Stores identified spam mails and makes them accessible to end-users.
- ✓ Attachment Quarantine, accessible only by administrators.
- ✓ Display quarantined emails of all users at once.

Spam Detection

- ✓ Receiver verification.
- ✓ Sender policy framework (SPF).
- ✓ DNS Blocklist.
- ✓ SMTP Accesslis.
- ✓ Block- and Welcomelists.
- ✓ Auto-learning Algorithm.
- ✓ Spam Uri Realtime BlockList (SURBL).
- ✓ Greylisting.
- ✓ SMTP Protocol Tests.
- ✓ Spam analysis on texts in attached documents and images.

Virus Detection

- ✓ Integrated, open-source antivirus engine ClamAV® Third party virus scanners optional.
- ✓ Detects Trojans, viruses, malware, and other malicious threats.
- ✓ High performance, multi-threaded scanning daemon.
- ✓ On-demand file scanning.
- ✓ Automatic signature updates.

ZFS for Data Integrity

- ✓ ZFS for both combined file system and LVM.
- ✓ Zero data loss, and high configurability.
- ✓ Detects any silent data corruption, and corrects errors in case of data redundancy.
- ✓ Checksums for data integrity.
- ✓ Built-in software RAID-Z using ZFS.
- ✓ Enables high performance SSD Hybrid Storage Pools.
- ✓ Support for high storage capacities.

Command Line Interface

- ✓ Manage all components.
- ✓ CLI with intelligent tab completion and full UNIX man page documentation.

Integrated Web Interface

- ✓ Web-based graphical user interface (GUI) - no need to install a separate management tool nor any additional management nodes.
- ✓ Secure web-based xterm.js console.
- ✓ Seamless integration and management of Proxmox HA Cluster.
- ✓ Simple subscription management via GUI updates.
- ✓ Download quarantined message in .eml format.



Rest API

- ✓ Easy integration for third party management tools
- ✓ REST API (JSON as primary data format).
- ✓ Easy and human readable data format (native web browser format).
- ✓ Automatic parameter verification (and verification of return values).
- ✓ Automatic generation of API documentation.
- ✓ Easy means of creating command line tools (use the same API).
- ✓ Resource Oriented Architecture (ROA).
- ✓ Declarative API definition using JSON Schema.

Mobile User Interface

- ✓ Based on Framework7.
- ✓ Check Delivery/Welcomelist/Blocklist/Deleted emails in the quarantine from a mobile device.

Certificate Management Via GUI

- ✓ Upload custom certificates from the web interface.
- ✓ Set up a cluster-wide ACME account.
- ✓ Full integration of the ACME protocol via the GUI.
- ✓ Create valid and trusted certificates with Let's Encrypt.
- ✓ Full support for http-01 and dns-01 challenges.

Two-Factor Authentication

- ✓ Providing high security.
- ✓ Time-based One Time Passwords (TOTP).
- ✓ Web Authentication (WebAuthn).
- ✓ Recovery codes for single use.
- ✓ TFA/TOTP lockout to protect against brute-force attacks.

Multiple Authentication Sources

- ✓ Proxmox Mail Gateway supports multiple authentication sources.
- ✓ Linux PAM standard authentication (e.g., 'root' user and other local users).
- ✓ Single sign-on (SSO) with OpenID Connect.

Modern Linux Server Experience

- ✓ Secure boot compatibility.
- ✓ Automated and unattended installation for full automation of the setup of bare-metal nodes.

IPv4 and IPv6

- ✓ Full IPv4 and IPv6 support, including customizable netmask length for greylist matching.

 **LEARN MORE**

Project page: pmg.proxmox.com
Bugtracker: bugzilla.proxmox.com
Code repository: git.proxmox.com

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Please contact our team:
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**ABOUT PROXMOX**

Proxmox Server Solutions GmbH is a software provider dedicated to developing powerful and efficient open-source server solutions. The privately held company is based in Vienna (Europe).

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