groupios

E-Mail Security Gateway

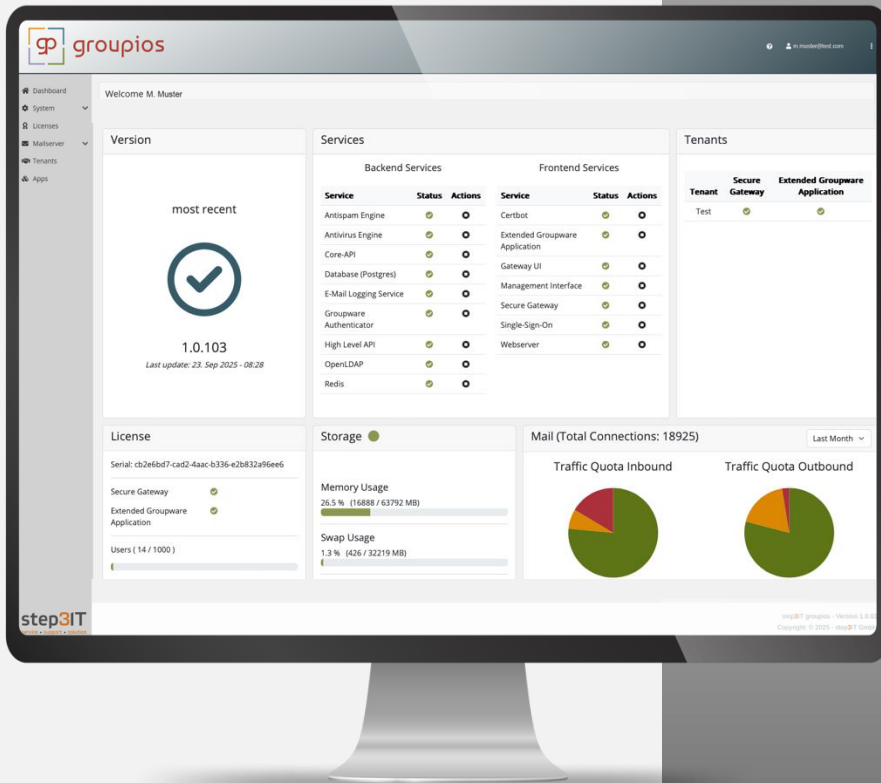## Your Future for Secure E-Mail Communication

secure. without exceptions

With groupios you combine powerful email security with user-friendly groupware and smart multi-tenant management.

100% GDPR compliant

99.9% availability

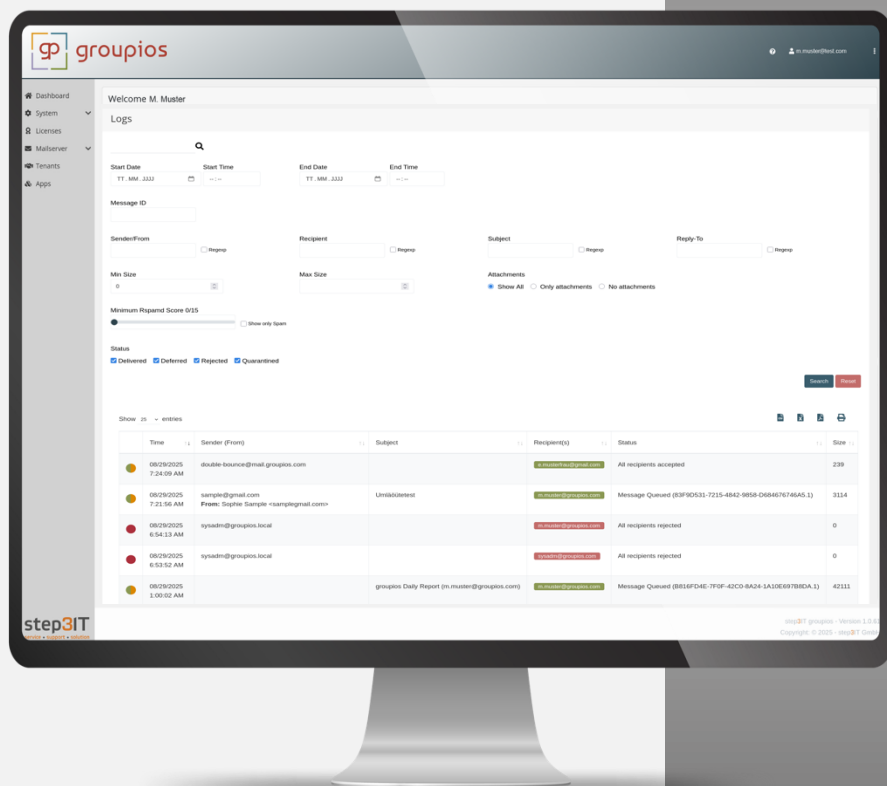99.6% less spam

Optimization potential with groupios

- Spam, virus, and manipulation protection
- Load balancing & high availability
- Real-time performance overview
- Future-oriented with S/MIME &
- worker concept
- Quarantine management

Empowerment with groupios

- Granular domain & email rule management
- Central control with multi-tenant capability
- Dashboard & system statistics in real time

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groupios dashboard

Welcome M. Muster

Dashboard
System
Licenses
Mailserver
Tenants
Apps

Version

most recent

1.0.103
Last update: 23. Sep 2025 - 08:28

Services

Backend Services

Service	Status	Actions
Antispam Engine	✓	⚙
Antivirus Engine	✓	⚙
Core-API	✓	⚙
Database (Postgres)	✓	⚙
E-Mail Logging Service	✓	⚙
Groupware Authenticator	✓	⚙
High Level API	✓	⚙
OpenLDAP	✓	⚙
Redis	✓	⚙

Frontend Services

Service	Status	Actions
Certbot	✓	⚙
Extended Groupware Application	✓	⚙
Gateway UI	✓	⚙
Management Interface	✓	⚙
Secure Gateway	✓	⚙
Single-Sign-On	✓	⚙
Webserver	✓	⚙

Tenants

Tenant	Secure Gateway	Extended Groupware Application
Test	✓	✓

License

Serial: cb2e6bd7-cad2-4aac-b336-e2b832a96ee6

Secure Gateway ✓
Extended Groupware Application ✓
Users (14 / 1000)

Storage

Memory Usage
26.5 % (16888 / 63792 MB)

Swap Usage
1.3 % (426 / 32219 MB)

Mail (Total Connections: 18925)

Last Month

Traffic Quota Inbound
Traffic Quota Outbound

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step3IT groupios - Version 1.0.0
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groupios

E-Mail-Security-Gateway

Centralized Management, Easy Integration

- Real-Time Dashboard with System Status, Traffic & Quotas
- Analysis of the "Top 50 Daily Activities"
- Granular Evaluation of Log Data for Monitoring & Optimization
- Flexible Administration with multi-tenant interface for targeted permission allocation
- Management of Domains, Smart Hosts, White-/Blacklists & Message limits
- Permissions custom controllable

Uncompromising Email Security

- Integrated protection against spam, malware, and phishing
- Rspamd, ClamAV (including unofficial signatures) and attachment filters
- Pre- and post-checks (SPF, rDNS, HELO, watermarking, etc.)

For outgoing emails

- Automatic DKIM signature
- Management of keys directly in the interface
- Complete SPF & DMARC integration

Incoming Emails

- Verification of DKIM & SPF
- Implementation of DMARC Policy
- Protection Against Spoofed Senders

S/MIME Encryption

- Encrypt & sign emails per industry standard
- Protection of confidentiality & authenticity of communication
- Integration in Outlook, Apple Mail & other common clients

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MADEINGERMANY

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E-Mail-Security-Gateway

Optimized and Efficient Processes
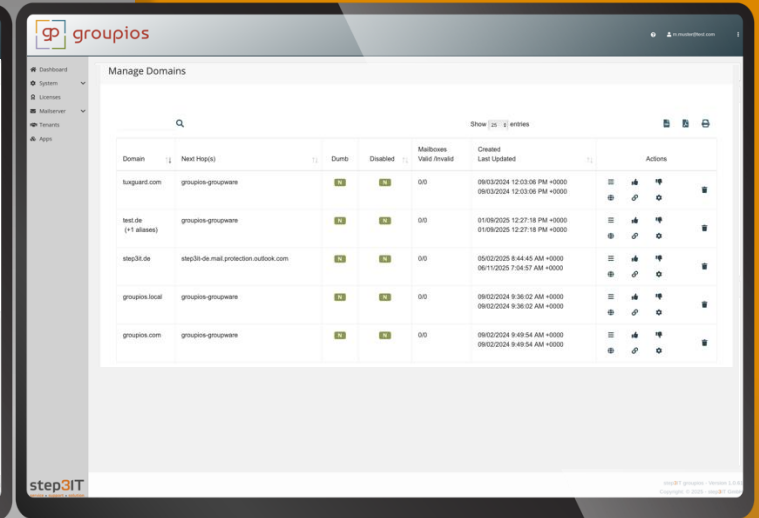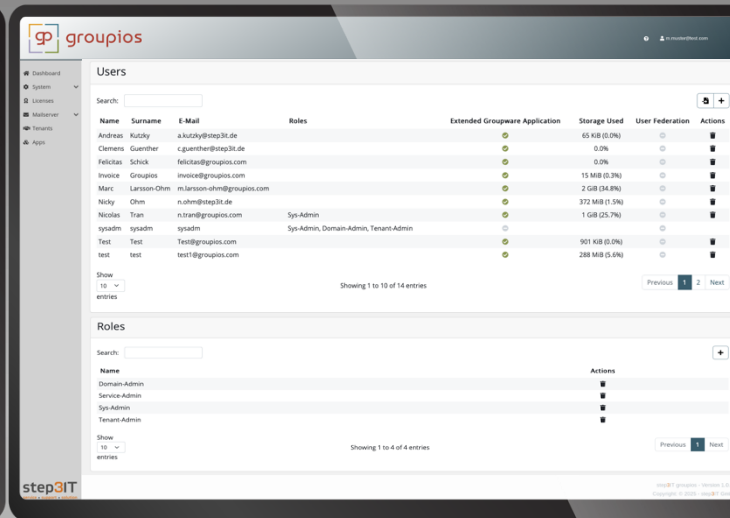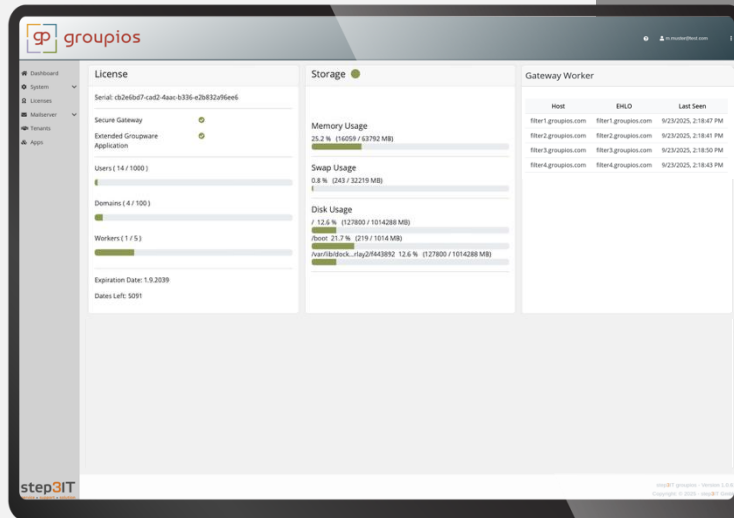
- **Worker Architecture:**
  Distributed Instances with Central Management
- **High Availability:**
  next instance takes over in case of failure
- **growing System:**
  new instances can be added flexibly

- Fixing and assigning central administrative rights or for foreign branches
- Division of administrative rights into different levels

- Domain Management, simple and clear
- Central monitoring of traffic per domain
- Post-check of traffic with verification of data attachments
- Report and alert planning

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![groupios logo]

Gateway Filter –
E-Mail Threat Protection

Proactive Threat Defense

The groupios Gateway Filter stops over 99.6% of all email-based attacks before they reach your network, ensuring the integrity, availability, and smooth operation of your systems.

Maintaining Network Reputation

A clean, trustworthy network is a crucial part of your security strategy. By providing reliable protection against malware, phishing, and spam, the Gateway Filter actively supports the maintenance of your organization's email reputation.

Multilayered Security Architecture

As the first line of defense, groupios Threat Protection blocks dangerous content right at the gateway. The combination of multiple detection technologies strengthens your security infrastructure and significantly reduces the risk of data loss or system outages.

For Your Safety – Inbound/Outbound Filters

Combined Block List
Consolidates all recommended IP lists (blacklists, exploit lists, policy lists)

IP Spam Blocklist
Records IP addresses that have been sent to spam traps or manually classified as spammers

IP Exploit Blocklist
Lists IPs with suspicious behavior such as botnet activities, compromised hosts, proxies, VPNs, or TOR exit nodes
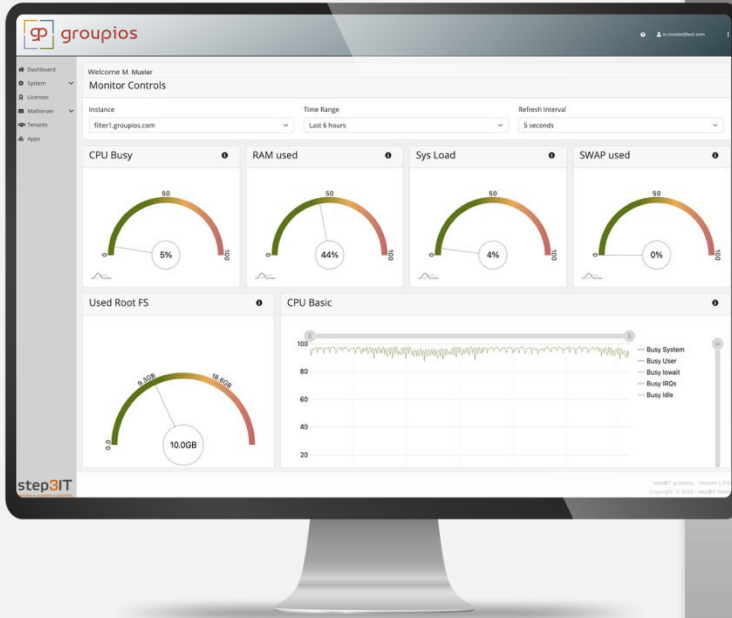
Domain Blocklist
Captures suspicious domains and IPs from spam content as well as short URLs from spam messages

Authbl Blocklist
Short-term monitoring list (12 hours) for outgoing emails to quickly detect acute exploits with minimal false alarm risk

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groupios

E-Mail-Security-Gateway

System Requirements

groupios Gateway
- 50 GB Hard Disk Space
- 8 Cores
- min. 16 GB RAM

groupios Worker
- 30 GB Hard Disk Space
- 2 Cores
- min. 8 GB RAM

Back-End

License Client *license-client*	APIs *core-api, hla*
Groupware Authenticator *groupware-authenticator*	Databases *openldap, mariadb, postgres, elasticsearch*
Gateway Config Sync *gateway-config-sync*	Cache *Redis*

Spam Engine
rspamd

Anti-Virus Engine
clamav

Front-End

Groupware
kopano
993, 995

Single-Sign-On
keycloak
8443

Management
Interface
gui

WebServer
apache
80, 443

Gateway Interface
mtaweb

SMTP Gateway
haraka
25, 587

IMAP, POP3

https,
http

SMTP

Diagram

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groupios

E-Mail-Security-Gateway

overview

High Availability & Performance

99.9% downtime-free operation

Real-time Dashboard & System Statistics

Load Balancing & Redundancy

Central Management

Multi-tenant & GDPR-compliant

Granular rights and domain management

Easy integration into existing systems

Scalable Architecture

Worker Concept for Distributed Instances

Flexible Expandability & High Operational Reliability

Maximum security

Protection against spam, malware & phishing (>99.6 %)

S/MIME encryption & signature

Full SPF, DKIM & DMARC integration

Proactive Threat Defense

Multilayered Security Architecture

Combined IP, Domain & Auth Blocklists

Protection of Network Reputation

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Welcome M. Muster

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