



The **high-availability** enterprise mail platform you own — end to end

Whitemail is a self-hosted email platform for organizations of every size — sized per deployment, from a single-host evaluation to multi-node HA clusters. Every tier survives losing a node. It integrates directly with your Active Directory, runs in your own data center, and keeps every message inside your organization: no external cloud dependency — with licensing tailored to your requirement.

Perpetual

license options — the platform is yours to keep

N-1

every tier survives losing a node at full service

TB-scale

HA shared mail store, sized to mailbox count and quota

1

login for mail, calendar, chat and files

WHY WHITEMAIL



High availability at every layer

A service VIP with automatic failover across the edge tier, a director that pins each user to a fixed mailbox server, and odd-numbered tiers that hold quorum on their own — lose any single machine and service continues.



Direct Active Directory integration

Users sign in with their existing AD accounts (read-only — never writes back), with an automatic corporate address book and optional hybrid local accounts.



Complete webmail in one login

Mail, calendar, contacts, tasks, notes, internal chat and link-based file sharing — one application, no second login. Mobile syncs over ActiveSync.



Enterprise-grade security

2FA (TOTP) for administrators, TLS between every internal tier, per-account encryption (PGP and S/MIME), and an SMTP scanner chain with spam, antivirus and BEC (business-email-compromise) filtering.



Web Admin — the whole system from one screen

Dashboard, domain / account / alias management, logs and audit trail, service control — with guardrails: destructive operations require step-up 2FA and a second approver.



Data sovereignty, open source

Built on proven open-source software, deployable fully air-gapped. Your data stays in your jurisdiction — no vendor lock-in, with license options to match each deployment.

ARCHITECTURE — REDUNDANT TIERS, SIZED TO YOUR DEPLOYMENT

Clients

Outlook · phones · browser



Edge tier

VIP · SMTP + spam/AV · director · webmail · database · sessions



Mailbox tier

IMAP / POP3 · LMTP delivery



HA storage

one shared namespace · sized per build

Node counts follow your requirement — odd-numbered tiers hold quorum on their own, with the database and session store on the edge nodes. Active Directory stays external and read-only (LDAPS). Each sizing ships with its own build sheet.

Key features for users and administrators

A clean, modern experience for end users — and a secure, fully auditable console for the operations team.

● For users — Webmail & groupware

- **Clean, focused layout**
An uncluttered interface with central search and a single toolbar — consistent on every device.
- **Minimal, shareable calendar**
Corporate calendars with sharing, reminders, month/week views and right-click actions.
- **Built-in internal chat**
1:1 and group rooms with attachments, directory search and read receipts — in the same webmail window, no separate app.
- **Files & large-file sharing**
Oversized attachments become expiring download links, with a "My shared files" page to manage or revoke them.
- **Per-account message encryption**
Server-managed encryption (recoverable, searchable, virus-scannable) plus S/MIME for standards-based X.509 signing.
- **AI assistant via MCP**
Connect Claude Desktop to your own mailbox through the built-in MCP gateway — summarize mail, check calendar, notes and files. Admin-gated per account, OAuth 2.1, fully audited.
- **Clear quota visibility**
A green / amber / red mailbox-space widget so users see capacity before it runs out.

● For admins — Web Admin console

- **System-health dashboard**
Every service on every node, mail queues, storage and cluster state — on one page.
- **Domains & accounts**
Manage domains, accounts and aliases (catch-all supported) — AD-linked or standalone, in hybrid mode.
- **Fail-closed policy guardrails**
Commands that would break quorum are rejected automatically; high-risk operations require step-up 2FA plus second-person approval.
- **Append-only audit log**
Every action — including rejected requests — is recorded permanently for full traceability.
- **Config as data**
Settings live in a central store, rendered to config → dry-run diff → apply — one auditable change path, no hand-edited files.
- **Secure node control**
Every command to a target machine runs through an mTLS-authenticated agent with an explicit allow-list (deny-by-default).
- **Built-in observability**
Metrics, centralized logs and dashboards behind the same 2FA login.

● Platform specifications

ITEM	SPECIFICATION
Scale	Unlimited by design — reference builds from a single host to multi-node clusters of thousands of mailboxes; scale by adding nodes per tier
Topology	Edge tier (VIP · SMTP + filtering · director · webmail · database · session store · Web Admin) · mailbox tier (IMAP / POP3 / LMTP) · shared storage — node counts per build sheet
Storage	HA shared storage exporting one namespace (NFS v4.1 or distributed) — RAID-protected, capacity sized to mailbox count and quota
Identity	Active Directory (LDAPS, read-only) by default, plus hybrid local accounts — AD always owns passwords
Protocols	SMTP, IMAP, POP3, Sieve, CalDAV, CardDAV, ActiveSync (EAS), HTTPS — TLS on every channel, including intra-cluster traffic
Deployment	One-command single-host install for evaluation · offline / air-gapped bundle · a production build sheet matched to your sizing
Clients	Any standards-based client — Outlook and desktop IMAP clients, phones via ActiveSync / CalDAV / CardDAV, and the full Whitemail webmail in any browser

Get started with Whitemail

Evaluate the full system on a single host, then grow into production — with architecture docs, build sheets and a failover test suite. Licensing is tailored to each customer's requirement.

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Evaluate
single-host install

2

Pilot
onboard real users

3

Production
full HA cluster