

Neuberg & Hughes

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Heinlein Mailserv Conference 2011

MailBridge

Zarafa Collaboration Platform

meets

Dovecot IMAP



MailBridge

- What is MailBridge
- Why MailBridge
- Requirements
- How does it work?
- Zarafa Incremental Change System
- Dovecot dsync
- Licence / Download

what is MailBridge?

- Depends on the perspective
- An IMAP cache for Zarafa
Provide IMAP clients a scalable access to Zarafa message store
- A MAPI interface for dovecot
Make dovecot mails available through MAPI to other systems (Z-Push and Blackberry Enterprise Server)

Why MailBridge?

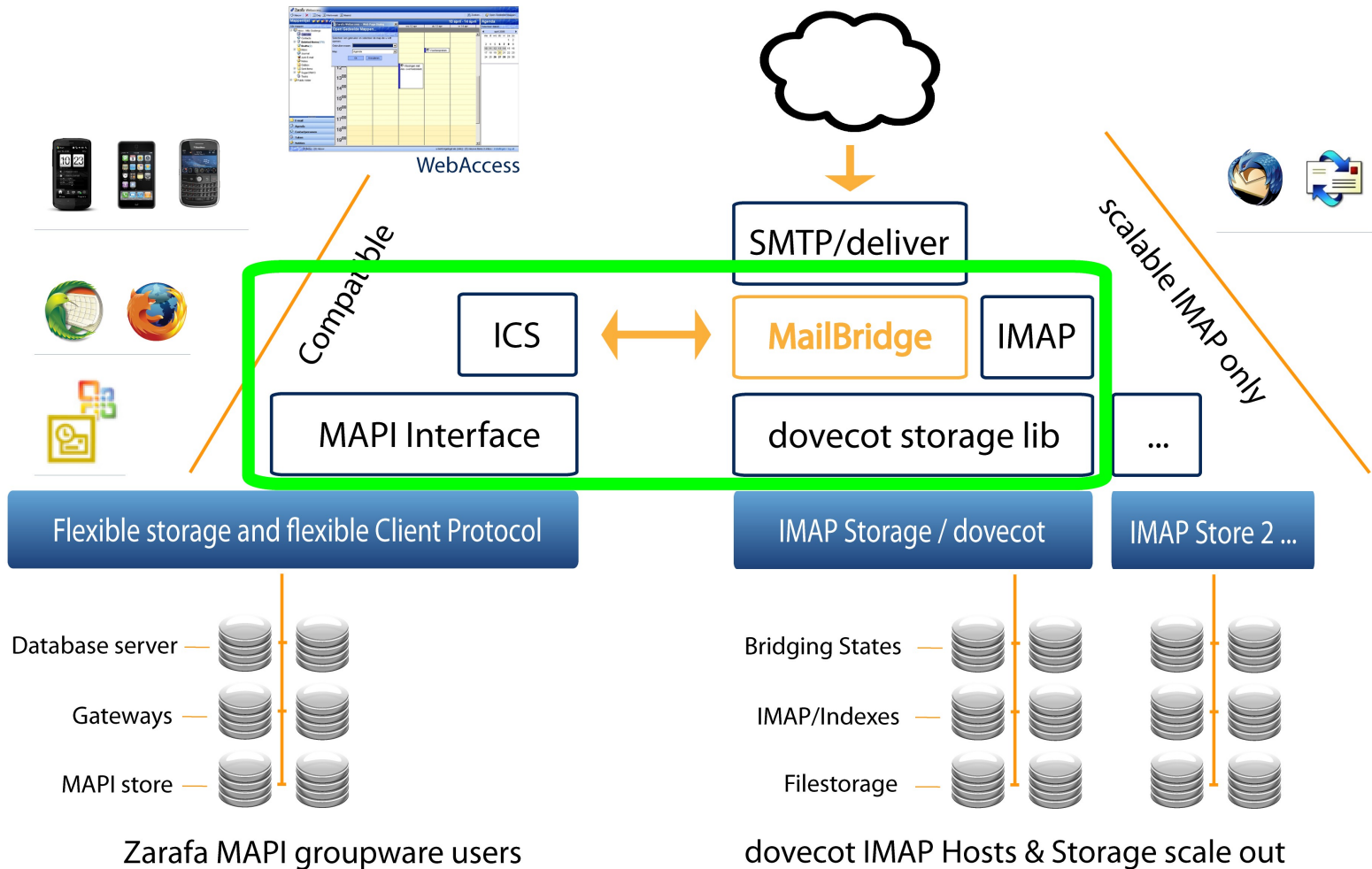
- Why MailBridge? Zarafa has an IMAP Gateway?
- Zarafa was designed to be Groupware server not a primary IMAP server
- For mail clients requiring 100% compatibility
- Scaleout to massive amounts of IMAP mailboxes / subset using Groupware



MailBridge / requirements

- Zarafa 7.x
- Dovecot 2.0.12 and later
- Python \geq 2.4
- redis
- threadpool.py

MailBridge architecture



Storage access mechanisms

- Zarafa store is accessed through native MAPI and ICS Exporters and Importers
- Dovecot is accessed through dsync subprocess running in server mode



Zarafa Incremental Change System

- Logs each change in a folder
- Logs each change to the hierarchy
- SyncKey and SyncState pointer
- Importer and Exporter
- The same mechanism used by Z-Push



Incremental Change System Layer on top of Dovecot

- Logic implementation in mailbridge
- Retrieves changes based on MODSEQ
- Change Log stored in redis
- Hierarchy changes result in folder move/rename operations

Event triggered updater

- Zafafa Events are monitored through MAPI Advise Sinks
- Dovecot Events are monitored through the dovecot maillog plugin
- No changes results in zero activity
- Changes are instantly updated through the bridge

Mapping Features

- Supports dynamic mapping of MAPI/Outlook special folders to their respective IMAP folders
- Maps all important flag changes
 - Read/Unread
 - Flag/Red Flag
 - Answered/Forwarded
 - Priority

Performance aspects

- Bridging based on Zarafa's ICS
- Event triggered bridging
- Performance measured in message changes per time interval
- and message I/O per time interval

Intergration into your setup

- Default configuration supports account mapping definitions
- Customize the Updater setup script to add Updaters for your selected users (i.e. by performing an LDAP query)
- Setup dovecot to use the same authentication backend (LDAP, etc)

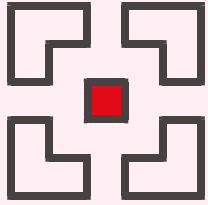
Licence / Download

- Licenced under the AGPL 3.0
- Project available at the Zarafa Community Hub
<http://community.zarafa.com>
- Look for the project “mailbridge”



Future

- Public Folder support
- ACL support and ACL mapping



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Thank You

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