

Malmaison and Scalix

A case study of implementing a Linux based messaging system

Chris Lewis Group IT Manager

Malmaison

hotels that dare to be different

Overview

Who is Malmaison? Current Messaging System Project objectives Why did we choose Scalix? What was the plan? How was it implemented? User reaction Questions....?





Who is Malmaison?

- UK's Leading Lifestyle Hotel Group
- •Incorporates Hotel du Vin Group acquired 2005
- •8 Malmaison Hotels in Major Cities in the UK
- •7 Hotel du Vin hotels in smaller towns & cities
- Rapid expansion planned to 25 hotels by end of 2008

Hotels that dare to be different!





Current Messaging Systems

- Email is very important to the organisation
 - Internal communication
 - Communication with customers
 - Feedback from website
 - Automated reservation systems
- •Wireless email is important, as many managers/directors are constantly travelling.
- Email downtime is not popular or beneficial





Current Messaging Systems

•Malmaison:

- Microsoft Exchange Server 5.5
- An ageing PII server at each site
- Sites link by a VPN over Internet network
- user@malmaison.com

•Hotel du Vin:

- Internet based Mdaemon (webmail) for hotels (user@hotelname.hotelduvin.com)
- One exchange 2003 server at Head Office (user@hotelduvin.com)





Project Objectives

- Merge all disparate email systems into one
- No loss of service
- Use an open source platform if possible
- External webmail
- Become less dependant on Microsoft (avoid lock in)
- Support for Microsoft Outlook where necessary
- •Support for wireless handheld devices
- •Allow >2GB of email storage for some users
- •Reduce software costs
- Reduce number of email servers





Decision time!

- •Why did we choose Scalix?
 - Historical bias (used HP Openmail in the past)
 - Cost effective licensing structure
 - All objectives covered
 - Fits in well with our environment
 - Good migration and co-existence options
 - File system based storage rather than monolithic database (no store size limit)
- Evaluation period used
 - All IT staff ran their email from Scalix





What is Scalix?

- ·Enterprise class email and calendaring system
- ·Linux based
- ·Standards Based
- ·Scalable for large organisations
- ·Full Microsoft Outlook functionality
- ·AJAX based web mail client
- ·Full command line Interface
- ·Wireless support via 3rd party software (Notifylink)





Benefits of a Linux Based System

- ·Proven stability, flexibility and availability
- ·Lower security risk
- ·Knowing what's going on under the bonnet
- ·Open source!
- Scripting benefits (perl, bash)
- ·Command line interface and tools





Scalix Licensing Structure

- ·Allows two tiers of user
- ·Standard User (Free)
 - · Individual Webmail
 - · Individual calendar (via webmail)
 - · IMAP / POP3 access
- ·Premium User (Approx £40 per mailbox + small ongoing annual charge)
 - · As standard user
 - Full Outlook Functionality
- ·Majority of users require only the standard functionality
- ·Licensed by user (not per server)



Where did Scalix come from?

- ·Based on HP Openmail
- ·HP Openmail > 10m users. HP, Samsung, BMW
- ·HP's partnering with Microsoft made Openmail's position untenable
- Openmail was discontinued in 2002
- ·Revived by Samsung as Samsung contact
- ·Relaunched as Scalix in 2005 by Scalix Corp.
- Obtained license from HP to release source code July 2006





Project Plan

- ·Set up Coexistance structure
- Install Scalix servers at appropriate sites
- ·Ensure backup routines
- ·All new users will be set up on Scalix
- ·Migrate Exchange/Mdaemon users to Scalix
- ·Remove old Exchange servers

•

·Time frame - 1yr ongoing!





Installation

- ·Recommend good disk subsystem
- ·Used Fedora Core 4 (RHEL recommended)
- ·Used LVM made separate partition for
- /var/opt/scalix so can easily expand if necessary
- ·X Based installer
- ·Can be done text based
- Installer can upgrade from previous version





Co-existence with Exchange

GLOBAL ADDRESS LIST

- •LDAP synchronisation between Scalix and Exchange 5.5
- •LDAP synchronisation between Scalix and Exchange 2003 (Active directory)
- Enabled Malmaison and Hotel du Vin to have a united address list





Co-existence with Exchange

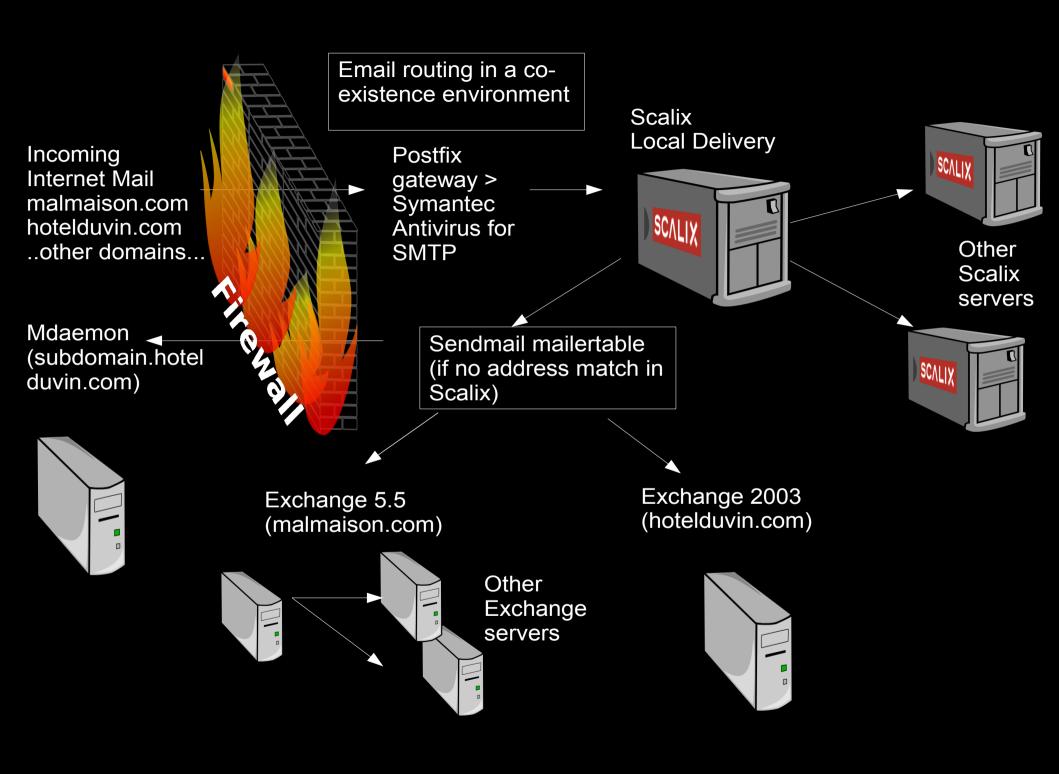
EMAIL ROUTING

- •Sendmail mailertable configured to pass unmatched mail for malmaison.com to the Exchange server SMTP gateway
- •Enables malmaison.com addresses to exist on both Scalix and Exchange
- Also done for hotelduvin.com addresses passing to Exchange 2003 if unmatched
- Could be done for any domain that you wish to migrate to Scalix

Challenge How do we get mail from Exchange to Scalix for a malmaison.com address??







Co-existence with Exchange

Answer: By adding a secondary email address of

user@scalixserver.malmaison.com

to users on the Scalix server.

Exchange sends mail directly to the Scalix server for these users.

This is not ideal but does work.





Mailbox Migration

Creating new mailboxes:

ommigu command: creates a mailbox based on the synchronised LDAP entires from Exchange 5.5

Moving mailboxes = Different methods:

- Copy all user mail folder into .pst file and then move that back to new mailbox – Very time consuming.
- Use third party software E-Shuttle Uses IMAP Extra Cost involved
- Scalix 11 will include a built in migration tool!





Changing the topology

- Trying to move away from mail server at each site
 - Less remote hardware to maintain
 - Only larger hotels and Head offices should have a mail server on site
- Impact on WAN traffic
 - Central email server will make less efficient use of bandwidth
 - An email is transported across WAN every time it is opened by user





Adding more Servers

- •Install OS
- Add DNS record
- •Install Scalix
- Add Scalix routes for other mailnode
- Set up Directory Synchronisation
- Set up public folder replication





Administration

- Everything can be done through CLI
- Scripting commands is easy
- Web Based administration tool (Scalix Administration Console)
 - Easy to use for non-CLI confident personnel

Example of adding a user via CLI

omaddu -n 'Chris Lewis/MAL/IA=clewis@malmaison.com' -p 1234





Administration

W http://scalix2.malmaison.com - SCALIX Administration Console - Mozilla Firefox							
SCALIX ADMINISTRATION CONSOLE (version 10.0.1.21)					Chris Le is@malm:	wis aison.com	
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Filter users by: Edit Filters	் 🎎 Chris Lewis				Logged in to <u>MALMAN</u>		
Type: Scalix Premium users Name: Bruce Wallner Catherine Slattery	eneral Member of Manager of Advar First Name: Chris Display Name: Chris Lewis	middle Initial:	Last Name:	Lewis	Su	ffix:	
Chris Davey	Contact Information Personal information that will be published	ed in the address book.	S1	☑ Display	in addre	ss book.	
Claire McGarrity Collette Arnott Darren Sibbald Denis Frucot Donna Cahill	Street: Malmaison Hotel Ma City: State/Province: Zip/Postal Code: M1 1LZ Country: United Kingdom	anchester. Piccadilly	Work Phone: Home Phone: Mobile Phone: Fax: Pager:	+44 161 278 1052			
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http://scalix2.malmaison.com/sac/AdminApp.jsp#							

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Email Clients

- •MS Outlook with Scalix Smart Cache (Windows only)
 - Full off-line folder sync (Scalix Smart Cache)
 - Client- and server-based rules
 - Delegates for mail and calendar
 - Public distribution lists
 - Message properties: sensitivity, priority, expire by, flags, etc.
 - Tasks and task delegation
 - Outlook categories
 - Mail views
 - The Exchange permissions model
 - Direct resource booking
 - Voting buttons
 - Out of Office functionality





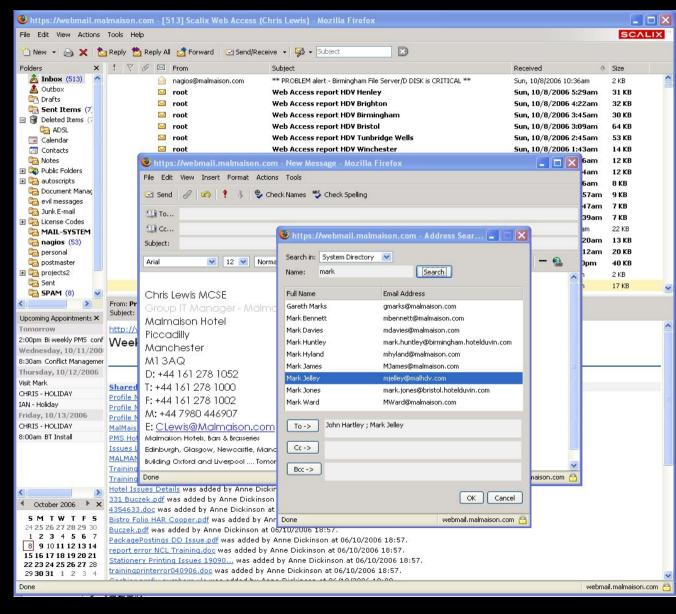
Email Clients..contd

- •IMAP / POP3 compatible email client
 - Thunderbird, Eudora, Outlook Express etc.
 - Directory through LDAP
 - Rules (IMAP only)
 - Calendar / contacts can not be stored on server
 - Off-line capability (Thunderbird -LDAP address book too)
 - No Out of Office functionality
- Evolution connector (Linux only)
 - Integrated email, calendar, and directory services
 - Off-line email folder synchronization (IMAP off-line mode)
 - Free/Busy directory lookup for group scheduling
 - Client- and server-based rules
 - Public folders
 - Public distribution lists
 - Full Evolution address book & contacts





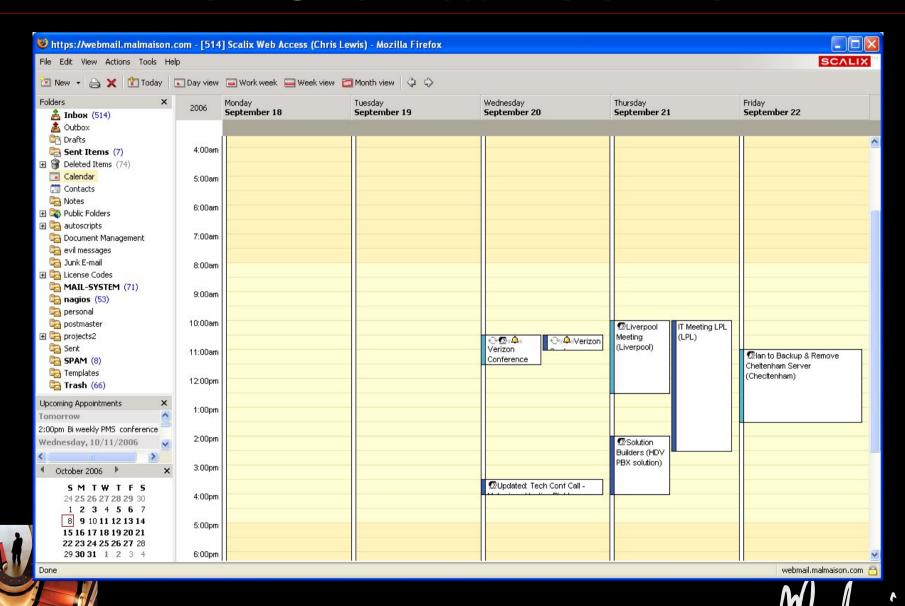
Email Clients..Web mail





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Email Clients..Web mail



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Backup

- Scalix is difficult to backup whilst on line
 - LVM snapshot method
 - Copy snapshot to tape
 - rsync to another standby machine
- Per User backup
 - Using omcpoutu for each user on server
 - Could be an issue for a large server
 - System can be running but user must not be logged in





Support

•The community

- Diverse community of users with some expert users
- Scalix technical support regularly contribute in forum discussions
- Forums are categorised and search able

Enterprise support services

- Free 5pack per incident initial technical support
- Per incident telephone/email support packages available
- Premium support services available. Bronze, sliver, gold etc...
- For best results an ssh connection must be available onto your server(s)





User Reaction

Office based Outlook users noticed no difference other than better availability

Loved the Web mail Interface – could check mail from home!
IT Help desk found admin console straightforward
SmartCache enables excellent on-line/off-line working in Outlook

Before Scalix Smart Cache, using Scalix with Outlook over the WAN very slow.

Users migrated from Outlook 97 to Thunderbird – No Out of Office reply.





In conclusion

•Who is Scalix for?

- Organisations who are willing to break from the norm and try something different
- where MS Outlook usage is essential
- Where there is a reasonable knowledge of Linux

•Risks

- Backup process some work needed
- Availability of skill set to maintain Linux / Scalix
- Direct mailbox migration time consuming from other systems
- Complexities of Co-existence





In conclusion

Benefits

- Cost effective licensing structure
- Stable open source platform
- File system based storage
- Excellent web mail
- Fully Outlook compatible
- Scalability

DOWNLOAD SCALIX AND TRY IT OUT!!



