

SCOoffice Technical Update

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MP1 Features And Fixes Server Side Fixes Web Client Fixes Advanced functionality configuration Troubleshooting



Server Side Fixes

Replace and Update manuals

 New manuals are provided to reflect additional functionality, screen shots and to improve content

Add download links for manuals

Manuals can now be downloaded from the web Client in PDF format

Configured point help for manual links

 User and Admin manuals now have html links from screens to that corresponding points in the manuals

Update internationalization files

 Additional content added to the internationalization files to support additional functions

Add support for end-users to update internationalization files

- End-users with administrative permissions on the system can now update internationalization files (including english)
- Instructions are provided in the Administrators manual
- Administrators can use this capability to change system behavior



Server Side Fixes

Add support for Domain and Organization Wide Contacts

- Personal contacts are stored as vcard files in the users Contacts folder
- Domain or Org wide contacts can be stored in the LDAP database
- Provides for significant scalability of Contacts data
- Provides a mechanism to use the server as a mass-mailer
- To enable end-users to access the contacts that are stored in the LDAP database, you must edit the file:

/opt/insight/icc/groupware/conf/custom.inc.php

- Find the line:
- \$LDAP_ENTRY = `(|((objectclass=insightResource)(objectclass=insightAlias))';
- And edit this to add the insightContact objectclass as shown:
- \$LDAP_ENTRY =

'(((objectclass=insightContact)(objectclass=insightResource)(objectclass=insight Alias))';

- Note = the above is a single line and is case-sensitive
- When your end-user logs out of the web-client and logs back in LDAP Contacts will be available.





Update version of clamav

• A current version of Clamav has been provided

Added support for HTML in disclaimers

 Administrators can now include simple HTML tags and content in personal and global disclaimers





- Add Branding functionality
 - Administrators can now modify the Web Client screens with top of screen graphics for each email domain
 - Screens will display the currently accessed domain in the Web Client
- Point help added







New migration tool

 An improved migration tool has been provided for importing PST files to the server

Option 3

Export a PST file to the Server: Download and install the Export Utility: <u>SingleClick.dll</u> <u>ExportPST.exe</u>

 If you're trying to export a PST file from Outlook to the Server you need to download and install the SingleClick.dll and ExportPST.exe files to your Windows workstation where the PST file(s) is located. Download these to a temporary directory on your Windows system and execute ExportPST.exe from that directory. Choose the option -Export from PST File- and choose the option for Export Folder Type, either Inbox only or All Folders. Use your own login ID and password to the server.





Display license counts in Admin screens

 The account administration screens will now display the number of available licenses at the top as Users are added/deleted

출 Admin: admin	
- Accounts	Organization or Group Name
View Accounts	ScoMobile Test 🗸
Create Organization	There are 503 user licenses remaining
Create Domain	Caparal
Create User	General
Create Resource	Login/Username* harry
Create Contact	Password*
한 <u>Create Domain</u> Admin	Confirm Password*
En Create Local Admin	



Server Side Fixes

Fixes for Jabber Server to function

- The jabber start-up script and account memberships have been fixed so that the jabber server will start
- We include a download of the wannachat open-source client and instructions for using wannachat have been added to the manuals

Fixes to queue management

 The queue management has been fixed to point at the proper directories and allow the queues to be managed through the Web Client

Fix archive/restore utility to prevent password changes

The Restore utility is fixed to prevent the passwords being corrupted on an LDAP restore

Fix missing symbolic links

 Symbolic links have been added to allow command line utilities to be run without updating your environment





Updated Web Client Screens

🖉 SCOoffice WebClient - Windo	ws Internet Explorer				
🚱 🗢 丢 http://gondor.me.la	cal/groupware/		~	Live Search	<u>- م</u>
😪 🛠 🛃 SCOoffice WebClient				🚹 • 📾 • 🖶 • 🖻	Page \star \textcircled{O} Tools \star $\overset{>}{\sim}$
SCOoffice		\sim			gondor.me.local Username: kirk ⑦
	INBOX				ô 🌮
Contacts	🧭 Compose 🏻 🔧			Search	Page 0 of 0
Deleted Items	🗑 🥎 🖂 🚦 🕻 🗋 🕒 🖻	rom	<u>Subject</u>		Date
HeldMail INBOX Journal Votes Outbox Sent Items Spam Tasks					
Refresh Folder List					
Preferences					
Download Connector					
Download WannaChat					
Download WebClient Manual					
Done				😜 Internet	🔍 100% 🔻 💡





- Update new Outlook Connector
 - New Connector version is 3.15. Supports Outlook 2007
- Fix message lists in Web Client
- Fix Contacts searches
- Add support to download Wannachat client
- Fix to clientconfig.php to force saves after install





- Added full html editing capabilities to the Web Client
 - Requires a change to personal preferences



• New HTML toolbar when composing emails







- Added image directories
 - /opt/insight/htdocs/UserFiles/File, Flash, Image, Media

C FCKeditor - Resources	Browser - Windows Internet Explorer
🟯 http://gondor.me.local/FCk	editor/editor/filemanager/browser/default/browser.html?Type=Image&Connector=connectors/php/ 😒
Resource Type	·
	KirksImages
	Create New Folder Upload a new file in this folder Upload
	😜 Internet 🔍 100% 🔻 💡



Advanced Capabilities

Using Group Wide Contacts Using Aliases and Lists Creating & Managing a Mass Mailer subsystem Automating mail sorting & storage **Archiving Email Using WAP Connecting your PDA Emulating a Document Server** Setting up a Staff Schedule **Branding Customizing LDAP**



Using Aliases and Lists

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Aliases

- Aliases are pseudo email addresses that allow email to be routed to multiple email addresses within the domain
- Aliases are stored in the LDAP database
- Aliases can be "managed". i.e. addresses can be added and removed as needed
- Domain Wide Aliases can only be managed by a domain administrator
- Sending to an Alias only displays the alias in the To: field
- Because Aliases are stored in LDAP they are highly scalable



Using Aliases and Lists

Lists

- Lists are stored in the user's personal contacts database
- Sending an email to a list populates to the To: field with all list members
- They are not available to other users unless the Contacts folder is shared
- They suffer the same scalability issues as contacts
- Sending to a list adds all addresses to the To: field unless you BCC





- A practical solution to doing Marketing Mailings without using a service
- Caveat Don't use this for SPAM!!!!!!
- Can be set-up to allow multiple administrators and control access to a small group
 - i.e. we can create a marketing list and restrict access to marketing staff
- We can support thousands of contacts in a manageable way



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• First, we create a Group for Marketing Staff

SCOoffice		System Administration gondor.me.local 🚫
ଙ୍ଗି Admin: admin		
- Accounts	Organization or Group Name	
View Accounts V Find Account	ScoMobile Test 🗸	
Create Organization	General	
Create Group Create User	Group* Marketing	
Create Resource Create Contact	Description The Marketing Staff	
ලි <u>Create Admin</u> දු Create Domain		
වා <u>Admin</u> ලා <u>Create Local Admin</u>	Contact	
Aliases Mail Folders	Street	



- Add Users to the Marketing Group.
- At least one of these users should be added as a Local Admin

තී Admin: admin		
- Accounts	Organization or Gr	oup Name
View Accounts Pind Account Create Organization	There are 503 user	Marketing, ScoMobile Test 💌
Create Domain Create Group Create User	General	
Create Resource	Login/Username*	harry
Create Admin	Password*	••••
ក្តាំ <u>Admin</u> ក្តាំ <u>Create Local Admin</u>	Confirm Password*	••••
▶ Aliases	First Name	Harry
Mail Folders Mail Delivery	Middle Initial	
Configuration	Last Name*	Houdini
▶ System	E-Mail Address	



- The Local Administrator can now create A Group tab within marketing
- The Local Admin can add Accounts, Contacts and Groups, but only to his Group

		gondoraneaoedi 🐨
🖆 Admin: harry		
- Accounts	Organization or Group Name	
View Accounts	Marketing, ScoMobile Test 💌	
Create Group Create User	Marketing, ScoMobile Test Marketing, ScoMobile Test	
	General	
Create Contact	Group* Arizona_Customers	
Preferences Aliases	Description Customers in Arizona	
Mail Filters		
Mail Folders	Contact	
▶ Tools ▶ WebClient	Street	



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• Next the local admin should add the contact information for all contacts in this group

			gondorinenocur	\mathbf{w}
Admin: harry				
Accounts	rganization or Gr	oup Name		
View Accounts				
Find Account	Arizona_Customers, I	Marketing, ScoMobile Test 💌		
Create Group	Marketing, ScoMobile	Test		
Create User	Arizona Customers, I	Marketing, ScoMobile Test		
G Create Baseuros	ene(Marketing, ScoMobile	Test		
Create Contact	First Name	John		
Preferences				
Aliases	Middle Initial			
Mail Filters	Last Name*	McCain		
Mail Folders				
Tools	E-Mail Address	1.mccain@whitehouse.gov		
WebClient				
C	ontact			
	Display Name	Mr. President		



- We can now view all contacts in the Group Arizona_Customers
- To make displays manageable, shrink the group folders

SCOoffice		System Administration gondor.me.local	? &
ଙ୍ଗି Admin: harry	Adding: Success		
- Accounts			
View Accounts View Accounts <td< th=""><th>Marketing, ScoMobile Test Arizona Customers Arizona Customers McCain, John (john.mccain@whitehouse.gov) Copperfield, David (david@scomobile.ca) Houdini, Harry (harry@scomobile.ca)</th><th></th><th></th></td<>	Marketing, ScoMobile Test Arizona Customers Arizona Customers McCain, John (john.mccain@whitehouse.gov) Copperfield, David (david@scomobile.ca) Houdini, Harry (harry@scomobile.ca)		
Preferences			
► Aliases			



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 Although you can put thousands of contacts in a group, keep group sizes manageable by creating sub-groups

🖆 Admin: harry	
	Adding: Success
- Accounts	
View Accounts QP Find Account	Marketing, ScoMobile Test
Create Group Create User Create Resource	Houdini, Harry (harry@scomobile.ca)
► Preferences	McCain, John (john.mccain@whitehouse.gov)
► Aliases	
Mail Filters	
Mail Folders	



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Now, Create Aliases to access these Contacts

SCOoffice		System Administration gondor.me.local	() () ()		
Admin: harry Accounts Accounts Preferences Aliases Aliases Alias Alias Alias Alias Alias Description: All Arizon Description: All Arizon Membership: Open Alias Owners: (DNs Alias Members: (DNs Cn=Harry Houdini,ou=N Alias Members: (DNs) Ali	Do field @scomobile.c na Customers n C Restricted separated by commas) [<u>Browse</u>] Marketing,o=ScoMobile Test Is separated by commas) [<u>Browse</u>]	a			
Create Cancel	Reset	Admin: harry Viewing C Common Nam John McCain	Contacts View Resource	s <u>View Users</u> Name	<u>View Aliases</u> Add ■



בי אברסי

 By working with small nested groups complex alias structures can be built and managed

	Create Alias
Accounts	Cieate Allas
Preferences	* - Indicates a required field
▼ Aliases	
View Aliases	* Alias: USCustomers @scome
QE Find Alias	Description: All US Customers
Create Alias	Membership: Open C Restricted
Delete Alias	
Mail Filters	* Alias Owners: (DNs separated by commas) [Browse]
Mail Folders	cn=Harry Houdini,ou=Marketing,o=ScoMobile Test
▶ Tools	
▶ WebClient	* Alias Members: (DNs separated by commas) [Browse]
	cn=Arizona,o=ScoMobile Test

View Contacts View Users View Resour			
Common Name	Description	Add	
Arizona	All Arizona Customers		
customers	My Customers		





- Now any user in Marketing can access the alias for outbound mail.
- With Enhanced HTML rich email messages can be crafted and sent

SCOoffice	1.	gondor. Username	me.local e: david
Calendar	: Send	🖁 Important 🔲 🧭 Request Read Receipt 🔲 🔚 Save 🛛 🖤 Spelling	🛛 Cancel
Contacts Contacts Deleted Items Drafts Drafts INBOX Outbox Sent Items Sent Items Tasks Refresh Folder List		Show Contacts From: [Global Address List] Search: GO Customers USCustomers Arizona David Copperfield Kirk Farquhar Ken Wakeman Cc >>	
Preferences Download Connector	DE To:		
Ownload WannaChat	07-1		*
Download WebClient Manual			
V Logout	Bcc:		
	Subject:		<u>^</u>



- Using delivery rules we can automatically sort inbound email into sub-folders
- First, login to Groupware and create folders to organize your mail
 - These folders can be nested as well

🖉 Compose 🏾 🦻		Search	Page New Folder
🗳 🥎 🖂 📄 🕴 🗋 🖗 <u>From</u>	<u>Subject</u>		Date
	Create New Folder	õ	
	Name:		
	Email_aliases		
	Folder Contains:		
	Email Items	~	
	Place Under:		
	HeldMail	~	
	ОК	Cancel	
= ====	L		



Nesting folders allows you to fine tune mail organization and also reduce the clutter in your inbox





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• Next, login as yourself in the admin interface and create a mail filter rule

Preferences	New Mail Filter Rule		DISABLED
Aliases	Check message against next	rule 🗖 Keep a copy of the message in your 🗖	Use regular
- Mail Filters	also	Inbox	pressions
View All Filters	CONDITIONS:		
Mail Folders	Match all of 🖌 If message 'Fro	m:' contains:	
Tools	If message "	To:' contains: legend@sco.com	
WebClient	lf messa	age 'Subject:'	
	lf me	ssage size is KiloBytes	
	lf	mail header: contains:	
	ACTIONS:		
	File into:	HeldMail/Email_aliases/Legend 💙	
	C Forward to address:		
	Send a reject message:		 ✓
	O Discard the message.		
	Save Changes		



Finally, enable the rule.

📲 User: kirk	
► Preferences	ENABLED IF To: contains 'legend@sco.com' THEN file into 'HeldMail/Email_aliases/Legend'; [Continue] AV
► Aliases	Enable Disable Delete
Create New Filter	
Mail Folders	
) Teolo	

- This will cause all inbound mail with a To: address containing legend@scomobile.com
- to be filed in the HeldMail/Email_aliases/Legend folder
- Filters are executed top to bottom
- Filters can be used to re-route mail to other accounts or to an alias.
 - i.e. A rule could be configured to forward any message with "Help" in the subject ot a support alias





- We need to start archiving emails to comply with government regulations, and for peace of mind
- SCO servers now will support massive storage capabilities, and disk storage is quite inexpensive.
- Mail filters can be used to create a Mail Archiving system on a global basis.
- First use Create User to create an Archive Account

ଙ୍ଗି Admin: admin			
- Accounts	Organization or Group	Name	
View Accounts	ScoMobile Test	~	1
Create Organization	There are 501 user	licenses remaining	1
Create Group	General		
	Login/Username*	archiver	
<u>Create Contact</u> <u>Create Admin</u>	Password*	•••••	
Create Domain Admin	Confirm Password*	•••••	
Aliases	First Name	Archive	
Mail Folders Mail Delivery	Middle Initial		
Configuration	Last Name*	Account	
▶ Tools			





Second, as Archiver create a new folder for each user of type Mail below inbox

w Folder	ð	
ins: ns v OK Cancel		
	ns: NS V OK Cancel	ns: ns V





• Next, as the user Admin, add a forward to Account for each user to forward email to



- Next, as the user Admin, in the postfix configuration add an always_bcc to archiver@scomobile.ca
- Update postfix configuration and restart postfix

	-	
	strict_mime_domain_encoding	no
	always_bcc	archiver@scomobile.ca
	hash_queue_depth	2





 Next, as the user Archiver, create a set of delivery rules for inbound mail to MOVE the email messages to the appropriate Archive folder

Ser: archiver	
New Mail Filter Rule	DISABLED
► Preferences	
► Aliases Check message against next rule also	Keep a copy of the message in your Inbox 🔲 Use regular expressions
→ Mail Filters	
CONDITIONS:	
Gie Create New Filter	
Match all of V If message	'From:' contains: kirk@scomobile.ca
f messa	ide 'To:' contains:
> Tools	
► WebClient If message 'St	ubject:' contains:
If message size is	less than 👻 KiloBytes
	If mail header:
	contains:
ACTIONS:	
File into:	INBOX.kirk/sent 🗸
	INBOX
Forward to address:	Calendar
C Send a reject message:	Contacts
	Deleted Items
C Discard the message.	INBOX.harry
Save Changes	INBOX.kirk
	INBOX.kirk/sent
	Notes
	Sent Items
	Tasks





Don't forget to archive email to aliases separately

🖳 User: archiver		
Contract in the second second second	ENABLED IF From: contains 'kirk@scomobile.ca' THEN file into 'INBOX.kirk/sent'; [Continue]	۷۵
Preferences	ENABLED IF To: contains 'kirk@scomobile ca' THEN file into 'INBOX kirk': [Continue]	$\nabla \nabla$
Aliases	ENABLED IE To: contains 'arizona@scomobile ca' THEN file into 'INBOX Alias, Archive/arizona': [Continue]	AΨ
✓ Mail Filters		<u> </u>
· View All Filters · Create New Filter	Enable Disable Delete	
Mail Folders		
▶ Tools		
▶ WebClient		



Archiving Emails SCO TEC FORUM 2008

- Providing for Scalability
 - The inbox for the Archive User can become very big very quickly.
 - You can offload this to a separate filesystem
 - The user archiver's mail will be put in
 - /opt/insight/var/spool/imap/a/user/archiver
 - After setting up the user archiver, copy the directory tree below this to the root of another filesystem or network store with the same permissions and ownership.
 - Then, mount this filesystem on /opt/insight/var/spool/imap/a/user/archiver at boot-up






- WAP is configured by default and is accessible at http: // myserver.mydomain.com/wap
- WAP is a very limited protocol and only provides for viewing your inbox and its subfolders, reading & creating text emails
- WAP may be blocked by your firewall
 - If you have a application specific firewall do not use an html filter, you will need to fully open port 80 or NAT another port to the WAP URL



Connecting Your PDA

Preferred Method:

- In order to access the email server from your PDA the PDA must support smtp and either POP3 or IMAP4
- Ideally you should use IMAP4 so that mail remains on the server
- Your firewall must allow IMAP/POP3 and SMTP inbound
 - You can secure this by only allowing authenticated users
- For a server with a public interface of myserver.mydomain.com
 - configure the wireless device to send email via myserver.mydomain.com using SMTP via port 25
 - Configure the client with your userid and password and force authentication on send
 - Configure the wireless client with IMAP4 or POP3 to the same server and again add your userid and password and force authentication





If your firewall or administrator will not allow access

- You can configure the server to send a copy of all or specific email to your device via SMS
- Determine your cellular provider's SMS gateway address, and create a delivery rule to execute first and send a copy of all/specific emails to the gateway address
 - i.e. copy 4165551234@pcs.rogers.net



- N.B. Browser Javascript (all features) is required for this to work in the Web Client
- You can create a rudimentary document sharing system for SCO Office that let's you share documents in multiple formats and keep a brief description of each document
 - This provides much of the functionality of MS Sharepoint Services
 - Provides a secure repository for company standard documents
- Documents can be automatically routed to folders based on a subject tag
- Notes about documents can be of unlimited size
 - This is advantageous in allowing you to attach "policies" regarding a document or history of access/modification
- You can provide ACL's for controlling who can add or delete docs.
- You can also set-up restricted view document folders



- Log in as admin
- First create a user named docs (or whatever name you like) with firstname Documents, lastname Shared
 - N.B. This will consume a license
 - This user should be set to receive only local mail
 - Give "Access Web Client" and "Receive only local mail" privileges

Admin. admin								
- Accounts	Organization or Group	o Name						
View Accounts	ScoMobile Text							
<u>Find Account</u> Oracle Oraciantics								
Create Organization	There are 500 user licenses remaining							
Create Group	Comonal							
Create User	General							
Create Resource	Login/Username*	docs						
Create Contact								
ମି <u>Create Admin</u>	Password*	•••••						
Create Domain Admin	0.5.0	[]						
Create Local Admin	Confirm Password*	•••••						
► Aliases	First Name	Documents						
Mail Folders		[]						
Mail Delivery	Middle Initial							
▶ Configuration	Last Name*	Shared						
▶ Tools								
▶ System	E-Mail Address							
▶ WebClient	M-IL AU							
	Iviali Alias							
	E-Mail Forwarding Address							





 Under Mail Folders, create a new mail folder named Shared Documents under the top level with type "Journal"

Admin: admin	Create a folder
▶ Aliases	Name Shared Documents
 Mail Folders View Folders Create Folder Mail Delivery Configuration Tools System WebClient 	Where Top Level



Emulating A Document Server SCO TEC FORUM 2008

- You can create additional folders below this, i.e. Policy, HowTo, MultiMedia, Press Releases etc. for additional types of docs
- You can have as many document categories as you wish each to its own folder or subfolder, as long as the keyword related to the folder is in the subject





By default all users can see these folders and search, read or mark read the contents

Admin: admin Accounts Aliases Mail Folders View Folders Create Folder Mail Delivery	Editing folder: Shared Documents Current Quota Limit Set quota Kilobytes Folder name Shared Documents Rename Delete Type Journal Set Reconstruct	
Configuration Tools System WebClient	Folder name User name lookup read seen write insert post create delete admin Shared Documents admin Image:	
	ou=Arizona_Customers.ou=US_Customers.ou=Marketing.o=ScoMobile Test (group:ou=Arizona_Customers.ou=US_Customers.ou=Marketing.o=ScoMobile Test) ou=Marketing.o=ScoMobile Test (group:ou=Marketing.o=ScoMobile Test) oa=ScoMobile Test (group:o=ScoMobile Test) oa=US_Customers.ou=Marketing.o=ScoMobile Test (group:ou=US_Customers.ou=Marketing.o=ScoMobile Test) oa=US_Customers.ou=Marketing.o=ScoMobile Test (group:ou=US_Customers.ou=Marketing.o=ScoMobile Test) oa=US_Customers.ou=Marketing.o=ScoMobile Test (group:ou=US_Customers.ou=Marketing.o=ScoMobile Test) oa=Marketing.o=ScoMobile Test (group:ou=US_Customers.ou=Marketing.o=ScoMobile	lookup Image: Tead Image: Tead



• Add ACL's for the users you wish to be able to manage these folders

Accounts	Current Quota Limit Set quota Kilobytes 💌
Aliases	Folder name Shared Documents/Policy Rename Delete
Mail Folders View Folders Create Folder Mail Delivery	Type Journal V Set
Configuration	Folder name User name lookup read seen write insert post create delete admin
> Tools	Shared Documents/Policy admin
> WebClient	Shared Documents/Policy group:o=me.local 🔽 🔽 🔽 🔽 🗖 🗖 🗖 💭 💭 Modify Delete
	Shared Documents/Policy david 🔽 🔽 🔽 🔽 🔽 🔽 🔽 Modify Delete
	ou=Arizona_Customers,ou=US_Customers,ou=Marketing,o=ScoMobile Test (group:ou=Arizona_Customers,ou=US_Custom ou=Marketing,o=ScoMobile Test (group:ou=Marketing,o=ScoMobile Test) ou=Marketing,o=ScoMobile Test (group:ou=Marketing,o=ScoMobile Test) o=ScoMobile Test (group:o=ScoMobile Test) ou=US_Customers,ou=Marketing,o=ScoMobile Test (group:ou=US_Customers,ou=Marketing,o=ScoMobile Test) o=me.local (group:o=me.local) Archive Account (archiver) David Copperfield (david)



- To get docs in the doc share create delivery rules:
- Login to the admin interface as user docs
- Under Mail Filters click on "Create Mail Filter"
- Check the box "Check next rule" if you have more than one filter
 - In the Subject Field put "Policy"
 - Under actions/File To put the folder you want the doc to go to
 - Save the filter and add the next

Edit Mail Filter Rule	ENABLED
Check message against next rule also	D 🗔 Keep a copy of the message in your Inbox 🔲 Use regular expressions
CONDITIONS:	
Match all of 💌 If messag	je 'From:' contains:
If mes	sage 'To:' contains: docs@scomobile.ca
If message '	Subject:' contains: Policy
lf message size	is less than 🕑 KiloBytes
If mail header:	contains:
ACTIONS:	
File into:	Shared Folders/Shared Documents/Policy
Forward to address:	
Send a reject message:	
C Discard the message.	
Save Changes Enable Disable Delete	



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Final delivery rules list

C.L.L.	gondormeadean 🐼	
User: docs		
> Preferences	ENABLED IF To: contains 'docs@scomobile.ca' AND Subject: contains 'Policy' THEN file into 'Shared Folders/Shared Documents/Policy'; [Continue]	۷۵
> Aliases	ENABLED IF To: contains 'docs@scomobile.ca' AND Subject: contains 'MultiMedia' THEN file into 'Shared Folders/Shared Documents/Multimedia': [Continue]	∞
→ Mail Filters	ENABLED IF To: contains 'docs@scomobile.ca' AND Subject: contains 'Contracts' THEN file into 'Shared Folders/Shared Documents/Contracts';	∞∞
View All Filters		
Create New Filter	Enable Disable Delete	
Mail Folders		
▶ Tools		



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ondor.me.local

- To send docs to the docshare
- Create a new Journal Entry
- Address it to docs
- In the subject put the keyword (Policy) and any other subject detail
- In the body put a detailed description of the document
- Attach your file(s)
- Click send and the Journal entry with attachments will drop into the docshare folder Policy





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Document will now show up in everyone's shared folders

🖉 SCOoffice WebClient - Windo	ws Internet Explorer		
🕥 🗸 😹 http://gondor.me.la	cal/groupware/index.php	💌 🐓 🗙 Live Sea	rch
😪 🛠 🌅 SCOoffice WebClient		👌 🝷 🔊 🕚	🛛 🖶 👻 📴 Page 👻 🏠 Tools 👻
SCOoffice	\sim		gondor.me.local Username: kirk ⑦
Q	Shared Folders/Shared Documents/Multimed	lia	🖓 🗇 🖻 🖄 🖗
Calendar Contacts	🖉 Compose 岁 🗟 Reply 🗟 Reply All 🖾 Form	ard 🖻 Headers 🎬 📇 📄 🔋 Search	Page 1 of 1
Deleted Items	🗑 🥎 🖂 👖 🔋 🗋 🕖 <u>From</u>	Subject	Date
E B HeldMail E B Email_aliases	Kirk Farguhar <kirk@scom< td=""><td>My Motorcycle</td><td>Wednesday, October 8 2008 03:26 PM</td></kirk@scom<>	My Motorcycle	Wednesday, October 8 2008 03:26 PM
	☐ <u>Outlook Sync <"&quo</u>	Hidden synchronization message	Wednesday, October 8 2008 03:04 PM
™⊒⊅ Spam I Tasks	Subject: My Motorcycle	To: docs@scomobile.ca Cc:	
Refresh Folder List Preferences	Here's a cool pic of my bike :-)		,



- Add a user for calendar mgmt, or use and existing user
 - This will consume a license

Accounts	Organization or Group	o Name						
View Accounts	SeeMabila Tast							
₩ <u>Find Account</u>								
Create Organization	There are 499 user	licenses remaining						
Create Group	- .							
Create User	General							
Create Resource	Login/Lisername*	schedule						
Create Contact	Login Coomano							
Create Admin	Password*	•••••						
Create Domain								
Create Local Admin	Confirm Password*	•••••						
Aliases	First Name	Schedule						
Mail Folders	i not ivanie	ochedule						
Mail Delivery	Middle Initial							
Contiguration								
Tasla	Last Name*	Staff						
10015	E Mail Address							
System	E-Iviali Address							
WebClient	Mail Alias							
	E-Mail Forwarding Address							





🖆 Admin: admin	
► Accounts	Create a folder
► Aliases	Name Staff Schedule
✓ Mail Folders	Where Top Level
Create Folder	Type Appointment
Mail Delivery	Create
▶ Configuration	
▶ Tools	



Give all users read access and give schedule user full access

🖆 Admin: admin	
	Editing folder: Staff Schedule
Accounts	Current Quota Limit Set quota Kilobytes 🗸
▶ Aliases	Folder name Staff Schedule Rename Delete
→ Mail Folders	
View Folders	Type Appointment 💙 Set
Create Folder	Reconstruct
Mail Delivery	
Configuration	Folder name User name lookup read seen write insert post create delete admin
▶ Tools	Staff Schedule admin
System	Staff Schedule schedule 🔽 🔽 🔽 🔽 🔽 🔽 🔽 Modify Delete
Webchent	Staff Schedule david
	Staff Schedule harry
	Staff Schedule kwakeman 🔽 🔽 🔽 🗆 🗆 🗆 🔲 Modify Delete
	Staff Schedule kirk





 To set staff schedules, log in as the calendar manager and create a meeting request for the staff member with their schedule period

🖉 SCOoffice WebClient - Windov	ws Internet Ex	plorer								
🕥 🗸 🛃 http://gondor.me.lo	cal/groupware/ind	ex.php					✓ 4→	× Live Sear	ch	P
😪 🏟 🎜 SCOoffice WebClient								🗄 • 🔊 -	🖶 🔹 🔂 <u>P</u> age 🕶 🌀) T <u>o</u> ols +
SCOoffice	1			∞				Us	gondor.me.local ername: schedule ?	
Calendar	🕮 Send 🗧	Recurrence							\mathbf{X}	Cancel
Contacts	Show Conta	cts From:	[ScoMob	oile Test]			ŀ	GO		
Drafts	Search:				GO					
INBOX Notes Outbox Sent Items Shared Folders Istaff Schedule Tasks	a U A A S K D S S K	istomers SCustomers rizona avid Copperfield rk Farquhar ocuments Share chedule Staff an Wakeman	d		1	To >> <<	Kirk Fa	irquhar		
	10.	"Kirk Farquhar'	' <kirk@sc< td=""><td>omobile.ca></td><td></td><td></td><td></td><td></td><td></td><td>×</td></kirk@sc<>	omobile.ca>						×
S Download Connector	Subject:	Need one last r	ide							
Download WannaChat	Location:	London								
Download WebClient Manual	Start Time: End Time	October V October V 1 day V	11 V 11 V	2008 💙 8: 2008 💙 8: As: busy 🌱	00 AM 👻 [All day event				
	One last trip o	on bike		Priva	ite					



- The staff member(s) will get a meeting request email

SCOoffice		\sim		gondo Usern	or.me.local ame: kirk ⑦
•	INBOX				ð 🏠
Contacts	🧭 Compose 🏻 🤧			Search	Page 1 of 1
Deleted Items	500000000	From	<u>Subject</u>		Date
Contracts Contracts		<u>Schedule Staff <schedule< u=""></schedule<></u>	Meeting Request: Need one las	st ride	Wednesday, October 8 2008 03:48 PM
Tasks					4
Refresh Folder List Preferences Download Connector Download WannaChat Download WebClient Manual Logout					
🖲 Done, but with errors on page.				😝 Internet	🔍 100% 🔹 💡



 When the staff member accepts the meeting their calendar and the central calendar are updated

SCOoffice	1		•	C	N	-			gondor.me.local Username: kirk ⑦	
Q	Calendar 🔊 🖗									
Calendar	🕗 New Appointment		🙋 Meeting Request		🖸 Availability 📑 Day		🔜 Week 🔳 Month 🔢 Year 🖉		Print 🖑 October 5 2008 - October	
Deleted Items		Sun, Oct 5 2008	Mon, Oct 6 2008	Tue, Oct 7 2008	7 Wed, Oct 8 2008	Thu, Oct 9 2008	Fri, Oct 10 2008	Sat, Oct 11 2008	October 2008	
Drafts	7:00 AM								S M T W T F S	
Email_aliases									28 29 30 1 2 3 4 5 6 7 8 9 10 <u>11</u> 12 13 14 15 16 17 18	
INBOX	8:00 AM							8:00 AM Need one last ride	19 20 21 22 23 24 25 26 27 28 29 30 31 1	
Journal Q Notes										
Outbox	9:00 AM								November 2008	
Sent Items									S M T W T F S	
Shared Folders Shared Documents	10:00 AM								2 3 4 5 6 7 8 9 10 11 12 13 14 15	
Contracts	10.00 AM								16 17 18 19 20 21 22 23 24 25 26 27 28 29	
Policy									30 1 2 3 4 5 6	
1 Staff Schedule	11:00 AM								December 2008	
Spam									SMTWTFS	
	12:00 PM								30 1 2 3 4 5 6 7 8 9 10 11 12 13	
Refresh Folder List	12.00 111								14 15 16 17 18 19 20	
Preferences								-	28 29 30 31 1 2 3	
Download Connector	1:00 PM								Jump to	
Download WannaChat										
Download WebClient Manual	2:00 PM							-	Jump to 💌	
6 Logout										
									September 2008	
	3:00 PM								Oct 5 2008 - Oct 11 20 💙	
									2000	
< >	4:00 PM							-	2008	
Done								🕘 Inter	net 🔍 100% 🔹 🚲	



- To auto-schedule staff, create a rule
- Note the user will still receive the email request unless we check discard message. For this reason this should be the last rule

SCOoffice			System Administration	?
STAVIA			gondor.me.local	\otimes
🔊 User: kirk				
▶ Preferences	Edit Mail Filter Rule		ENAE	BLED
► Aliases	Check message against next	rule 🔽 Keep a copy of the message in you Inbox	r 🔲 Use regular expressions	
View All Filters	CONDITIONS:			
Mail Folders Tools	Match all of 💌 If message 'Fro	om:' contains: schedule@scomobile.ca		
► WebClient	lf message If mess	age 'Subject:'		
	lf me le lf	essage size is KiloBytes ss than v KiloBytes mail header : contains:		
	ACTIONS:			
	File into:	~		
	 Forward to address: Send a reject message: 			
	Discard the message.		<u>×</u>	
	Save Changes Enable Disable	<u>Delete</u>		





 SCOoffice now provides for putting domain specific graphics on Web Client screens, as well as identifying what domain you have logged into, i.e. gondor.me.local



- This requires a jpg file in the folder /opt/insight/branding for each URL you connect to
 - i.e. if I can connect to my server as mail.scomobile.ca and gondor.me.local, I need 2 jpg files
 - gondor.me.local.jpg
 - mail.scomobile.ca.jpg
 - The jpg needs permissions of 644 and root:root
 - The jpg will display as "up to" 400x50 pixels





- Branding allows ISP's and other service provider to provide a different user interface for each client they host mail for
- It also allows you to emphasize whether you are connected to an internal or external interface to the web client.
- The image data can be cached by the Apache Server, so after changing you may need to restart the SCOoffice server



Customizing LDAP

- A number of the fields in the LDAP database can be used for other purposes as they have limited functionality otherwise
- As an example, most people will not use the Telex Number field
- This field could be retasked to hold any type of text
- To do this we simply need to change the prompt in the Internationalization files
 - For English edit the file

/opt/insight/htdocs/is4web/locale/en_US/LC_MESSAGES/messages.po

Change the lines

Msgid "Telex Number" Msgstr ""

To

Msgid "Telex Number" Msgstr "Party"





- Save the file
- Compile the revised file with

/opt/insight/bin/msgfmt –o messages.mo messages.po

- Restart the server)/etc/init.d/insightserver restart)
- The LDAP screen will now show the field for Telex Number as Party

		L		
	Physical Delivery Office Name			
	Registered Address			
	Miscellaneous			
	Labeled URI			
	Preferred Language			
	User SMIME Certificate			
	User PKCS12			
	Destination Indicator			
	Party	republican		
	Description			~
Done			😜 Internet	🔍 100% 🔹 💡



Accessing Jabber from the Outside World

- Jabber needs the following ports to function:
 - 389 LDAP Port (389 is default)(Used for LDAP Authentication)
 - 686 LDAPS Port (686 is default)(Used for LDAPS Authentication)
 - 5222 Jabber Server Communication (plain text or secure via start-tls)
 - 5223 SSL Jabber Server Communication
 - 5269 S2S (Used to contact jabber users on other servers)
 - 5347 Router (Used to link up components)
- Some of the transports contain web interfaces. Their default ports are set to 12345, however it is recommended that they are changed. These ports will also need to be allowed into the firewall
- You should only need to open 5222 and 5223 on the firewall
- To modify ports see /opt/insight/etc/jabberd/*.xml
- Note on UW7 the install does not add these ports to /etc/services
 - They must be added manually or other applications may usurp the ports





Fix password aging Fix for permissions errors after a restore Blocking Spam Dealing with Spam Storms Performance Tuning



Fix password aging

- When using enhanced Security on SCO Unix, the default password aging is 6 weeks
- The SCOoffice accounts are created with a random password during installation
- If SCOoffice is installed on a system with enhanced security, the daemon accounts will be blocked at 6 weeks, so services won't start correctly
- This can be addressed by running

for user in amavis postfix apache jabber cyrus do

/opt/insight/etc/setpasswd.tcl \$user Done

- Each month
- Or, put this in a cron routine ☺



Fixing Permissions Errors

- It is possible on a back-up restore to trash the permissions on the imap files
- If this happens, email will "disappear"
- To repair run the following script

cd /opt/insight/var/spool/imap chown –R cyrus:mail * chmod –R 755 * for x in [a-z] do chown –R cyrus:cyrus \$x chmod –R 700 \$x done



Blocking Spam – DNS Blacklists

 Create a file called sender_checks, under /opt/insight/etc/postfix/ and use the following example to craft your rules:

This file must be "compiled" with "postmap"

Using a domain name example.tld 554 Spam not tolerated here

Maybe example2.tld is on a DNSbl, but we want to let their # email in anyway. example2.tld OK

We get lots of spam from example3.tld, but we have somebody # there from which we do want to hear someuser@example3.tld OK example3.tld REJECT

 Save the file and compile it into a Postfix database like this: # /opt/insight/sbin/postmap /opt/insight/etc/postfix/sender_checks



Blocking Spam – DNS Blacklisting

- Log in to the server web interface as manager.
 - Click Configuration->Services->Postfix, and scroll down to the UCE section.
 - Locate the option "smtpd_recipient_restrictions".
 - Add the following to the beginning of the comma separated list of values there:
 - check_sender_access hash:/opt/insight/etc/postfix/sender_checks, (don't overlook the comma at the end)
 - Update the configuration and restart Postfix. You'll need to recompile with postmap and restart Postfix anytime the list changes.
 - You can also use regular expressions to block entire root-level domains. You
 may decide that your business has no legitimate reason to receive email from
 Russia or Taiwan. Create regular expression rules in a new file called
 sender_checks_regex:
 - /^.*\.ru/ REJECT /^ *\ tw/ REJECT
 - /^.*\.tw/ REJECT
 - Save it in /opt/insight/etc/postfix as above, but don't use postmap to compile it.
 - Add it to the Postfix configuration as above, but use

"regexp:/opt/insight/etc/postfix/sender_checks_regex" instead.



Blocking Spam – SpamAssassin Config

SpamAssassin

- Configured in /opt/insight/etc/mail/spamassassin/local.cf
- We already set the tag level for SpamAssassin in AmaVisd but,
 - required_score 5.0
- Change the email's header message
 - rewrite_header subject ****SPAM*****
- Stick spam emails in a MIME attachment
 - report_safe
- Use the Bayesian filter, and turn on auto-learning
 - use_bayes
 - bayes_auto_learn 1
- Use RBL Lists
 - skip_rbl_checks 0
- Choose languages & locales to support
 - ok_languages en fr
 - ok_locales en fr



Blocking Spam - Razor

- Razor is a shared database of spam signatures
- To configure Razor:
 - # /opt/insight/bin/razor-admin -home=/opt/insight/var/amavis/.razor create

/opt/insight/bin/razor-admin -home=/opt/insight/var/amavis/.razor - discover

/opt/insight/bin/razor-admin -home=/opt/insight/var/amavis/.razor - register -user postmaster@yourdomain.com

cd /opt/insight/var/amavis

chown amavis.amavis .razor/*

Step 2 - Enable RazorChecks in SpamAssassin's local.cf Edit your "/opt/insight/etc/mail/spamassassin/local.cf" - Add "use_razor2 1"

Step 3 - Restart Amavisd * Restart Amavisd # /opt/insight/etc/rc/amavisd restart



- Cheat: <u>http://www.rulesemporium.com/</u>
- To modify spamassassin rules add new rules to ../etc/mail/spamassassin/local.cf
- You can add individual rules to ~/.spamassassin/userprefs
 - You must add the allow_user_rules option in local.cf to have spamd honour this
 - Also this is a huge security risk if the user can log onto the Unix system



Basic custom body rule

- This rule will do a case sensitive search of the bodies for the phrase "test" and add .1 to the score
 - body LOCAL_DEMONSTRATION_RULE /test/
 - score LOCAL_DEMONSTRATION_RULE 0.1
 - describe LOCAL_DEMONSTRATION_RULE
 This is a simple test rule
- You can ignore word breaks by adding a \b tags
 - body LOCAL_DEMONSTRATION_RULE /\btest\b/
- You can make it case insensitive with /i
 - body LOCAL_DEMONSTRATION_RULE /\btest\b/i



- Basic Header rules
 - Test the email's subject
 - header LOCAL_DEMONSTRATION_SUBJECT Subject =~ /btest\b/i
 - score LOCAL_DEMONSTRATION_SUBJECT 0.1
 - Test the from address
 - header LOCAL_DEMONSTRATION_FROM From =~ /test\.com/i
 - score LOCAL_DEMONSTRATION_FROM 0.1
 - This rule will look for web links to <u>www.example.com/OrderViagra/</u>
 - uri LOCAL_URI_EXAMPLE /www.example.com\/OrderViagra\/
 - score LOCAL_URI_EXAMPLE 0.1
 - this rule looks for a HTML comment claiming the message was "created with spamware 1.0":
 - rawbody LOCAL_RAWBODY_EXAMPLE /\<\-\-! created with spamware 1\.0 \-\-\>/
 - score LOCAL_RAWBODY_EXAMPLE 0.1



- Meta Rules
 - The following example uses a boolean check and will add a negative score to emails from news@example.com containing the body text "Monthly Sales Figures"
 - header __LOCAL_FROM_NEWS From ~= /news@example\.com/i
 - body __LOCAL_SALES_FIGURES /\bMonthly Sales Figures\b/
 - meta LOCAL_NEWS_SALES_FIGURES (__LOCAL_FROM_NEWS && __LOCAL_SALES_FIGURES)
 - score LOCAL_NEWS_SALES_FIGURES -1.0
 - Note that the two sub rules start with a double underscore
 - This meta rule will fire if 2 or more of the strings "test1" "test2" and "test3" are found anywhere in the body:
 - body __LOCAL_TEST1 /\btest1\b/
 - body __LOCAL_TEST2 /\btest2\b/
 - body __LOCAL_TEST3 /\btest3\b/
 - meta LOCAL_MULTIPLE_TESTS ((_LOCAL_TEST1 + _LOCAL_TEST2 + _LOCAL_TEST3) > 1)
 - score LOCAL_MULTIPLE_TESTS 0.1


Blocking Spam – Spamassassin Rules

- Note on scoring
- Rules with no score get a score of 1.0
 - Rules with a score of 0.0 are ignored
 - Rules starting with a double _ are not scored and intended for a meta rule
 - Rules starting with T_ are assumed to be tests and given a score of 0.1
- You should be very careful about giving high score (>1.0) to custom rules until you are sure they won't trash real mail



Blocking Spam – Spamassassin Rules

- Checking your rules
 - To check your rule syntax for errors, run the command line version with the -- lint option.
 - Look for syntax errors complaints and other messages of the sort in the output:
 - spamassassin --lint
 - *ALWAYS* lint your rules.
 - For more output for analysis run in debug mode
 - spamassassin --lint -D



Blocking Spam – Spamassassin Rules

SCO TEC FORUM 2008

- Blocking Mail for unknown users
- Edit /opt/insight/etc/postfix/main.cf
 - Change
 - local_recipient_maps =

to

- Iocal_recipient_maps = \$alias_maps Idap:/opt/insight/etc/postfix/Idapsource.cf
- Restart the Postfix process for the changes to take affect -
 - /opt/insight/etc/rc/postfix restart
 - NOTE: this change must also be reflected in the xml file: /opt/insight/htdocs/is4web/xml/config.xml



Miscellaneous Configuration Changes

- Listening on another port
 - Edit /opt/insight/etc/services and add lines
 - smtp2 2025/tcp mail2 smtp2 2025/udp mail2
 - Edit /opt/insight/etc/postfix/master.cf and locate the following line smtp inet 25 - 25 - - smtpd
 Add a line below that like the following: smtp2 inet 2025 - 2025 - - smtpd
 Save and exit the file.
 - Restart Postfix





- Increasing Mail Throughput
 - In postfix admin change local_destination_concurrency_limit from 5 to 15, click on restart
 - Edit /opt/insight/etc/cyrus.conf and change maxchild from 10 to 30
 - Reastart cyrus with /opt/insight/etc/rc/cyrus restart
- Speed error handling
 - When the error count reaches \$<u>smtpd_soft_error_limit</u> (default: 10), the Postfix <u>smtpd(8)</u> server delays all non-error and error responses by \$<u>smtpd_error_sleep_time</u> seconds (default: 1 second).
 - When the error count reaches \$smtpd_hard_error_limit (default: 20) the Postfix smtpd(8) server breaks the connection.
 - Edit /opt/insight/etc/postfix/main.cf
- Turn off error tar-pitting
 - Modify smtpd_error_sleeptime=0 to kill erro reporting delays & free processes





- General queue tuning
 - Use /opt/insight/sbin/qshape to look at queue stats
 - Go to www.postfix.org/QSHAPE_README.html for help on interpreting results.
- Dealing with failed delivery retries (main.cf parameters)
 - queue_run_delay (default: 300s)
 - How often the queue manager scans the queue for deferred mail. Should be <= minimal_backoff_time</p>
 - minimal_backoff_time (default: 300s)
 - The minimal amount of time a message won't be looked at, and the minimal amount of time to stay away from a "dead" destination.
 - maximal_backoff_time (default: 4000 seconds)
 - The maximal amount of time a message won't be looked at after a delivery failure.
 - maximal_queue_lifetime (default: 5 days)
 - How long a message stays in the queue before it is sent back as undeliverable. Specify 0 for mail that should be returned immediately after the first unsuccessful delivery attempt.
 - bounce_queue_lifetime (default: 5 days)
 - How long a MAILER-DAEMON undeliverable message stays in the queue before it is considered undeliverable. Specify 0 for mail that should be tried only once.
 - qmgr_message_recipient_limit (default: 20000)
 - The size of many in-memory queue manager data structures. Among others, this parameter limits the size of the short-term, in-memory list of "dead" destinations. Destinations that don't fit the list are not added.
 - qmgr_message_active_limit (default: 20000)
 - Maximum number of messages in the active queue
 - smtp_client_message_rate_limit (default: unlimited)
 - Maximum number of message delivery requests per client in anvil_rate_time_limit (default: 60)





- Changing process limits
 - Edit /opt/insight/etc/postfix/main.cf
 - The default_process_limit variable controls the number of simultaneous processes of each type can be spawned i.e. smtp clients, smtp servers etc
 - The default is 100 of each
 - If you run out of file descriptors (max is hard-coded at 1024) you may need to lower the default_process_limit
 - This will be shown by "file table full" errors in the logs





- Delivery Concurrency (main.cf)
 - initial_destination_concurrency no. of messages initially sent to a site on first connection – default 2
 - default_destination_concurrency_limit- maximum concurrent messages to one site. Default 20
 - local_destination_concurrency_limit no. of concurrent deliveries to 1 mailbox. Default 2. Keep this low
 - smtp_destination_concurrency_limit maximum number of parallel smtp connections. Defaults to default_destination_concurrency_limit
 - Only raise this for specific transports i.e. gateways



- Spam storms occur because whether from an internal spam-bot or external attack, the server typically ends up with thousands of undeliverable emails and DNR's
- These messages are stored for re-delivery attempts in /opt/insight/var/spool/postfix/deferred
 - directories (0,1,2,3,4,5,6,7,8,9,A,B,C,D,E)
- So what is happening:
 - New mail is collecting in the active queue, but dead mail is filling the deferred queue
 - When postfix can't deliver a message because something about the message seems bad (i.e. the address doesn't exist) it moves the message to deferred and gives it a future timestamp equal to "now"-"time message arrived". This will always be >= minimal_backoff_time and <= maximal_backoff_time</p>
 - This causes retry intervals to grow exponentially until maximum_queue_lifetime is reached
 - When postfix can't deliver a message because something about the receiving system is wrong (Server down, rejects connection etc) defers the message as above but also puts the destination in the dead list.
 - The queue manager will scan the deferred queue for available messages and add them to the active queue, and attempt to deliver the active queue
 - As the combination of undeliverable mail plus new mail grows, the deferred traffic overwhelms the new/legitimate traffic, and the system grinds to a halt



- How can we fix this?
- Brute Force Approach
 - Turn off all inbound access at the firewall
 - Shut down users client access
 - Move all of the deferred mail to a different directory tree
 - Set maximum_queue_lifetime to 0, which causes all mail to only get one try before being flagged as undeliverable
 - Set bounce_queue_lifetime to a very short time like 60m so DNR's don't stack up
 - Reduce the minimal_backoff_time, queue_run_delay and maximal_backoff_time to force postfix to cycle through the queue as quickly as possible and clean up mail
 - Find the culprit and kill it ☺
 - When the queues clear, undo the above in reverse order, except deferred messages.
 - This may still require several hours to clear up the active queue
- Impact of this approach
 - It assumes most of the mail in the deferred queue was undeliverable or DNR's
 - Some legitimate mail may be buried in those deferred queue messages that were moved
 - We can always grep for those later and move the messages back to the real deferred queue
- Gentle Approach
 - All of the above, but don't move deferred files
 - This may require days to clear.
 - I have seen well in excess of 1 million messages in deferred



- Recognizing & Throttling spambots
 - A spambot will typically be found on a Windows workstation, and more often now, Linux workstations
 - Users will often not know they have picked one up, but will often notice a substantial performance degradation
 - If you have a switch, there will be a lot of traffic from the workstation, even when its idle
 - Smart spambots only run at night and on the weekend or if the machine is idle
 - If your known contacts are receiving spam to their address from your server, you may have a directory harvesting spambot
 - If other sites are complaining about random addresses from your site, its likely a dictionary attack or you are relaying at the server
 - You can throttle internal traffic by setting smtp_client_message_rate_limit to be very low i.e. 2 messages per minute. This will impact prolific emailers [©]
 - Turn on smtpd_helo_required. This will block most spambots, but will also block mis-configured mail servers



- Throttling suspected outside spam
 - Turn on smtpd_helo_required. This will block most spambots, but will also block mis-configured mail servers
 - Turn on strict_rfc821_envelopes. This will do the same but block even more legitimate mail
 - Set smtpd_client_connection_count_limit really low (default is 50 set to 5). This will restrict volume senders, but shouldn't impact legitimate traffic
 - Set smtpd_client_connection_rate_limit really low (default is 0 set to 5). This will
 restrict volume senders, but shouldn't impact legitimate traffic. Does anyone
 really send you more than 5 messages a minute?
 - Set reject_unknown_client_hostname. This will block legitimate mail from any site with messed up DNS or a relay server





Questions

