# Debian/GNU Linux Mailing

## Overview of the Mailing

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## Agenda

1 Mailing

2 Protocols

3 SPAM

4 Antispam

5 Thunderbird

6 TB-Preferences

7 Folders

8 Search

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# Mailing

Sending e-mails across the Internet

## Basics, Terminology

- Message transfer between special hosts (Mail gateways)
  - Mail gateway: dedicated computers to process and transfer e-mails
  - MTA - Mail Transfer Agent: sendmail, exim, postfix..
  - Protocol: SMTP - Simple Mail Transfer Protocol (RFC 821, 1982)
- Message retrieval by mail user agent (MUA)
  - MUAs: Thunderbird, xfmail, pine, etc.
  - POP3: Post Office Protocol, version 3
  - IMAP: Internet Message Access Protocol, version 4
- Representation of messages
  - RFC 822: Basic Message Format (7-bit text only)
  - MIME: Multipurpose Internet Mail Extension (1992)
  - S/MIME: Secure MIME; PGP/MIME: Pretty Good Privacy

# Structure and meaning of the e-mail address

## E-Mail address: name@domain

- name: real name, symbolic name, alias, mailbox name
  - example: john.shaw, secretary, research, johnny
  - mailbox: the place where the messages on the receiving mail gateway will be stored in formats mbox or maildir
  - mbox format: the messages will be stored in one file; new message will be appended; delimiter: empty line; begins with: ˆ From
  - maildir: each message will be stored as a separate file in the directory
  - alias: an alternative name which translates to the name of the mailbox
- domain: DNS domain name (risc.jku.at, jku.at)
  - defines MX resource record which host deliver the messages to
  - there can be more mail exchangers (mail gateways) for the domain

```
;; QUESTION SECTION:
;risc.uni-linz.ac.at.           IN      MX
;; ANSWER SECTION:
risc.uni-linz.ac.at.  1363  IN  MX  20 bullfinch.risc.uni-linz.
risc.uni-linz.ac.at.  1363  IN  MX  30 grauwal.risc.uni-linz.ac
```

# e-Mail Transfer Process

Message transfer process in overview

## User sends a message

- to the local (e.g. RISC) mail gateway by the MUA (e.g. Thunderbird)
- Local mail gateway
  - first spools message locally in the spool area `/var/spool/mqueue`
  - after transfers message from the spool area to the recipients (remote) mail gateway

## Local mail gateway receives a message for a user

- from the mail gateway of remote senders
- Received message is placed into the mailbox of the user on the local mail gateway

## User downloads the message (e.g. by Firefox, POP) from

- the local mail gateway to laptop or PC's home directory

## Agenda

1. Mailing
2. Protocols
3. SPAM
4. Antispam
5. Thunderbird
6. TB-Preferences
7. Folders
8. Search

# Mailing, Internet Standards (STDs)

## SMTP - Transfer Protocol

### - STD 10 / RFC 821: Simple Mail Transfer Protocol

- Specifies how messages are passed from one host to another

```
R: 220 uhu.risc.uni-linz.ac.at ESMTP Sendmail 8.13.8
S: HELO sender hostname                R: 250 OK
S: MAIL FROM: <e-mail address>         R: 250 OK
S: RCPT TO:   <e-mail address>         R: 250 OK
S: DATA
R: 354 Start mail input; end with <CRLF>.<CRLF>
S: <CRLF>.<CRLF>                       R: 250 OK
S: quit                                R: 221 name closing
```

- other commands: VRFY Smith; EXTN secretary
- Mail server/clients understand extended version (ESMTP)
  - ESMPT is requested by client via `EHLO` instead of `HELO`
  - ENHANCEDSTATUSCODES, 8BITMIME, AUTH DIGEST-MD5 CRAM-MD5 PLAINE, STARTTLS

# Mailing, Internet Standards (STDs)

Message Format for english text

## - STD 11 / RFC 822: Basic Message Format

- 7-bit ASCII format, primarily for english text
  - only plain text, binary must be converted
- Mail header and Mail body is separated by an empty line
  - Mail header begins with a From  line in mbox format
- Mail header - User Fields - provided by MUA
  - From: To: Cc: Subject: Sender: Bcc:
  - Bcc: not visible im header
  - All of them can be set by most of the MUA: used by spammers, they fake the header lines
- Mail header - Automatic Fields - provided by MUA,MTA
  - Date: Message-Id: Return-path: Received:, X-fields
  - Received: can follow the mail gateways as e-mails pass them

# MIME: Multipurpose Internet Mail Extension

How to send other contents as ASCII text

## - RFC 1341: Messages in other character sets and with binary contents

- Use RFC 822 basic message format
  - MIME messages can be transferred by normal (older) SMTP agents
  - Only mail reader/writer (MUA) must be MIME enabled
- Define additional header fields:
  - MIME-Version: , Content-Id:
  - Content-Transfer-Encoding: How content is encoded as ASCII
  - Content-Type: MIME-type of content
  - Content-Description: Human-readable description of content
- Content-Transfer-Encoding:
  - 7-bit, Quoted-Printable, Base64 (for binary data); 8-bit; Binary
- Content-Type: 7 MIME types with multiple subtypes
  - Text, Image, Audio, Video, Application, Message, Multipart,
- Content Subtypes: text/plain, text/richtext, message/rfc822
  - application/octet-stream, application/PostScript multipart/mixed, multipart/alternative

# e-Mail Security

Use cryptographic methods !

## Email is not a secure communication medium

- Reliability: messages may be lost
  - Only transfer from mail queue to next mail server is guarantueed
  - User may be asked to confirm receipt of a message
  - Header field `Disposition-Notification-To:` *address*
- Privacy: messages may be read by unauthorized persons
  - Messages are transferred in clear text
- Authenticity: message sender may be faked
  - It is easy to create messages with faked `From:` fields
- Integrity: message content may be changed
  - Intermediate transfer agent may modify message
- Integrity, Authenticity, Privacy achived by cryptographic methods
  - Privacy: by Encryption
  - Integrity, Authenticity: by Digital signatures

## Emails are as secure as postcards are without cryptographic methods

# POP - Post Office Protocol

## POP - available and supported by ISP

- Many e-mail clients support POP and IMAP to retrieve messages
- supports simple download-and-delete requirements for access to remote mailboxes
- POP3s uses SSL by the port 995
- handles also MIME emails
- simple message identifying mechanism

# IMAP - Internet Mail Access Protocol

## IMAP - should be preferred against POP

- current version IMAP4
- client can stay connected
- users with many or large messages get faster response times
- Multiple clients simultaneously connected to the same mailbox
- Access to MIME message parts and partial fetch
- Message state information (are stored on the server)
- Multiple mailboxes on the server
- Server-side search (client to ask the server to search messages; no prior download)
- complex IMAP server implementation problem
- IMAPs uses SSL over the port 993

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# SPAM living with it

spam is dangerous

## What is SPAM

- nearly identical messages sent to numerous recipients by e-mail
- any email message where the senders identity is forged

## Problems with SPAM

- contains an attachment which is a virus/trojan
  - to became your Windows PC a bot net host
- phishing: spam ask users to enter personal information on fake Web sites using e-mail forged to look like it is from a bank or other organization such as PayPal
- spoofing: your e-mail address used as sender of spam
  - you get all bounced mails (500-5000 in short time)
- spam contains links to advertised/malicious web sites

# SPAM living with it

## How spammers work

- collecting e-mail addresses
    - from chatrooms, websites, newsgroups
    - infecting Windows PCs, where viruses collects address books
- sending spam mails
    - using open mail gateways (not anymore)
    - using bot nets, by infecting Windows PCs with viruses, Trojans
- dictionary attacks
    - spammer sends e-mail based on dictionary
    - 150.000 rejected by blacklists + 40.000 dictionary attack

## Main problem to fight SPAM

- governments did not accept appropriate law again spammers, SPAM

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# Antispam techniques I

## What the end user can and should do

### Give your e-mail address only to trusted persons/sites

- never put your e-mail address in text form to a web site
- post to lists as anonym, use faked, invalid email address and name
- avoid responding to spam
  - dont use links: remove me from the list (you'll confirm your e-mail address)
  - be carefull with your vacation message: you can send a reply to a spammer
- don't use contact forms on web sites: (problems with server side scripting)
- don't register anywhere with real e-mail address ( I hope, amazon.de is ok, but other sites ?)
- use temporary e-mail addresses (if possible)
  - the e-mail address (alias) expires after a given time

# Do NOT read and send HTML emails

## Antispam techniques II

### Be careful using and configuring your mail program

- don't use html in e-mail programs (MUA) !
  - set the outgoing mail format to PLAIN TEXT
  - for an e-mail message it is not necessary to use html
  - you can use any type of attachment (to send .doc, .jpg, etc. files )
- RISKs by reading HTML formatted e-mails
  - mail client starts a browser or the function of browser is integrated
  - html browser interpret the contents automatically (check settings)
  - they start scripts, download, show images, without asking you
  - html spam can contain scripts, which allow spammer to spy your computer (address, etc) spyware will or may be installed
  - html spam can contain web bugs, which allow spammer to get further information from you, save viruses, Trojans, you became a bot net host, etc.
- mail clients which don't display html, attachments, images have fewer risk !

# Antispam techniques

## Using SpamAssassin (SA)

### SA - email spam filtering based on content-matching rules

- uses a variety of spam-detection techniques
  - DNS-based and checksum-based spam detection
  - Bayesian filtering, blacklists and online databases
- can be integrated with the mail server
- uses large set of rules to decide e-mail is spam or ham

### How to tune the default configuration

- all e-mails at RISC will be checked by SA
- you can use procmail to sort your e-mails in folders
  - to learn: man procmail; man .procmailrc;
  - RISC User Guides: How to configure SpamAssassin for your needs
- configuration file: .spamassassin/user_prefs
- use sa-learn to tune the Bayesian algoritm

```
sa-learn --spam --mbox /path/to/spaminput
```

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# Mozilla Thunderbird

current version 24.1

## Thunderbird is the best free MUA

- free, open source, cross-platform e-mail and news client
- supports multiple e-mail, newsgroup and RSS accounts
  - supports multiple identities within accounts
- Spam mail filtering
  - own Bayesian spam filter
  - whitelist, based on the included address book
  - understands the classifications of SpamAssassin
- Standars supported natively
  - POP and IMAP with SSL/TLS,
  - S/MIME secure email (digital signing and message encryption using certificates)
  - PGP signing, encryption, and decryption by the Enigmail extension
- Security protection includes
  - disabling loading of remote images within messages
  - disabling JavaScript
- Additional features are available via extensions

# Mozilla Thunderbird

## Useful account settings

### Suggested account settings

- use IMAP with ssl (port) 993
- instead of saving an email in Sent folder you can Cc: it yourself
- never compose a message in HTML format, it is not necessary.
    - do not force others to try to read HTML messages - it is very bad for security !
- you can keep all your emails locally on a computer
    - see the next slide ! Important !
- trust mail headers set by Spamassassin
- keep email locally on your computer - you can specify this on folders level
- enable OpenPGP (Enigmail) support
    - your default should be always: using OpenPGP/Enigmail
- never asks for Return Receipt and never send a Return Receipt
- ALWAYS use for SMTP server User Authentication

# Mozilla Thunderbird

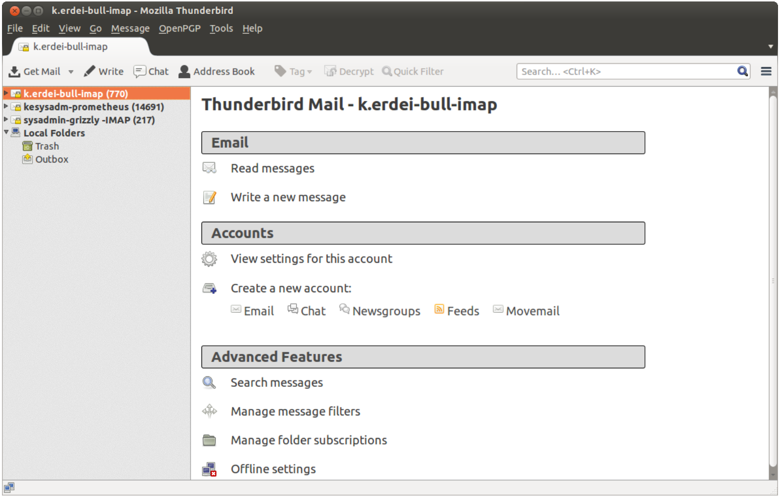
Do not synchronize using a RISC Computer !!!

## Suggested account settings

- you can keep all your emails locally on a computer
  - you can specify this on folders level
- NEVER keep email locally on a RISC computer
  - you'll fill the partition with your home directory in some minutes !!!!
  - nobody else can work after with home on this partition
- ONLY on your laptop is allowed to keep your emails locally !!!

## NEVER keep email locally on a RISC computer

# Main Window of Thunderbird


k.erdei-bull-imap - Mozilla Thunderbird
File Edit View Go Message OpenPGP Tools Help
k.erdei-bull-imap
Get Mail
Write
Chat
Address Book
Tag
Decrypt
Quick Filter
Search... <Ctrl+K>
k.erdei-bull-imap (770)
kesysadm-prometheus (14691)
sysadmin-grizzly -IMAP (217)
Local Folders
Trash
Outbox

Thunderbird Mail - k.erdei-bull-imap

**Email**

Read messages

Write a new message

**Accounts**

View settings for this account

Create a new account:

Email Chat Newsgroups Feeds Movemail

**Advanced Features**

Search messages

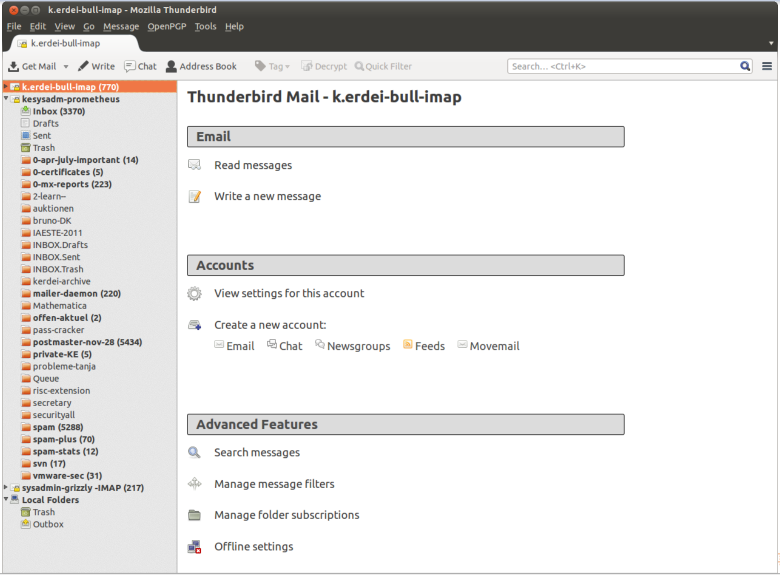
Manage message filters

Manage folder subscriptions

Offline settings

# The kesysadm account

## Folder list



- k.erdei-bull-imap (770)
- kesysadm-prometheus
  - Inbox (3370)
  - Drafts
  - Sent
  - Trash
  - 0-apr-july-important (14)
  - 0-certificates (5)
  - 0-mx-reports (223)
  - 2-learn–
  - auktionen
  - bruno-DK
  - IAESTE-2011
  - INBOX.Drafts
  - INBOX.Sent
  - INBOX.Trash
  - kerdei-archive
  - mailer-daemon (220)
  - Mathematica
  - offen-aktuel (2)
  - pass-cracker
  - postmaster-nov-28 (5434)
  - private-KE (5)
  - probleme-tanja
  - Queue
  - risc-extension
  - secretary
  - securityall
  - spam (5288)
  - spam-plus (70)
  - spam-stats (12)
  - svn (17)
  - vmware-sec (31)
- sysadmin-grizzly -IMAP (217)
- Local Folders
  - Trash
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Thunderbird Mail - k.erdei-bull-imap

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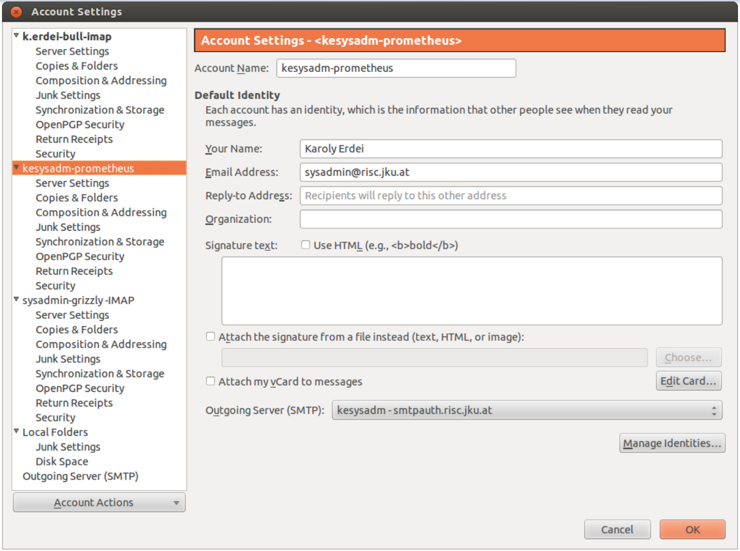
# Settings for the kesysadm email account



**Account Settings - <kesysadm-prometheus>**

Account Name: kesysadm-prometheus

**Default Identity**

Each account has an identity, which is the information that other people see when they read your messages.

Your Name: Karoly Erdei

Email Address: sysadmin@risc.jku.at

Reply-to Address: Recipients will reply to this other address

Organization:

Signature text: □ Use HTML (e.g., <b>bold</b>)

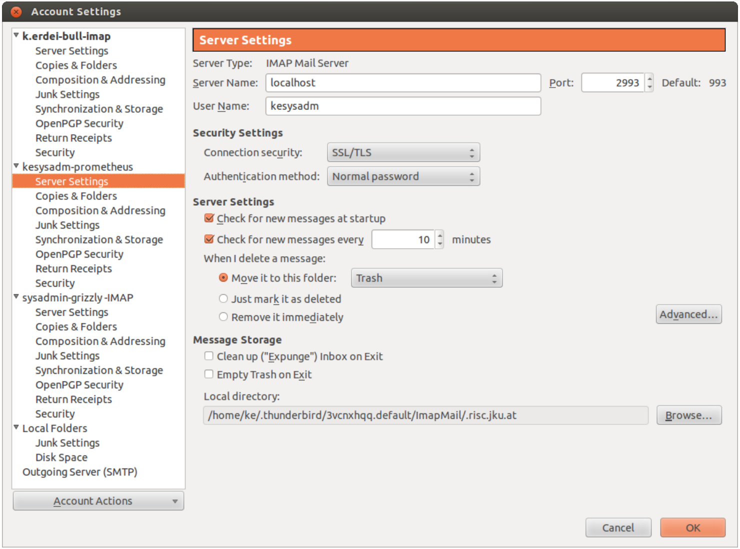
□ Attach the signature from a file instead (text, HTML, or image):

□ Attach my vCard to messages

Outgoing Server (SMTP): kesysadm - smtpauth.risc.jku.at

# Setting for the incoming mail server

## IMAP server settings



Account Settings

- k.erdei-bull-imap
  - Server Settings
  - Copies & Folders
  - Composition & Addressing
  - Junk Settings
  - Synchronization & Storage
  - OpenPGP Security
  - Return Receipts
  - Security
- kesysadm-prometheus
  - Server Settings
  - Copies & Folders
  - Composition & Addressing
  - Junk Settings
  - Synchronization & Storage
  - OpenPGP Security
  - Return Receipts
  - Security
- sysadmin-grizzly -IMAP
  - Server Settings
  - Copies & Folders
  - Composition & Addressing
  - Junk Settings
  - Synchronization & Storage
  - OpenPGP Security
  - Return Receipts
  - Security
- Local Folders
  - Junk Settings
  - Disk Space
- Outgoing Server (SMTP)

Account Actions

**Server Settings**

Server Type: IMAP Mail Server

Server Name: localhost Port: 2993 Default: 993

User Name: kesysadm

**Security Settings**

Connection security: SSL/TLS

Authentication method: Normal password

**Server Settings**

☑ Check for new messages at startup

☑ Check for new messages every 10 minutes

When I delete a message:

● Move it to this folder: Trash

○ Just mark it as deleted

○ Remove it immediately

Advanced...

**Message Storage**

☐ Clean up ("Expunge") Inbox on Exit

☐ Empty Trash on Exit

Local directory:

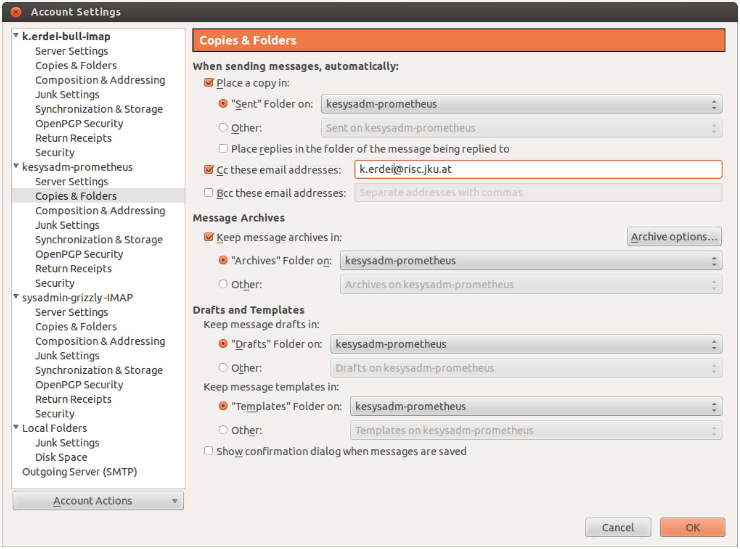
/home/ke/.thunderbird/3vcnxhqq.default/ImapMail/.risc.jku.at

Browse...

Cancel OK

# Setting for Copies and Folders

## IMAP server settings



Account Settings

- k.erdei-bull-imap
  - Server Settings
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Account Actions

**Copies & Folders**

**When sending messages, automatically:**

☑ Place a copy in:

● "Sent" Folder on: kesysadm-prometheus

○ Other: Sent on kesysadm-prometheus

□ Place replies in the folder of the message being replied to

☑ Cc these email addresses: k.erdei@risc.jku.at

□ Bcc these email addresses: Separate addresses with commas

**Message Archives**

☑ Keep message archives in: Archive options...

● "Archives" Folder on: kesysadm-prometheus

○ Other: Archives on kesysadm-prometheus

**Drafts and Templates**

Keep message drafts in:

● "Drafts" Folder on: kesysadm-prometheus

○ Other: Drafts on kesysadm-prometheus

Keep message templates in:

● "Templates" Folder on: kesysadm-prometheus

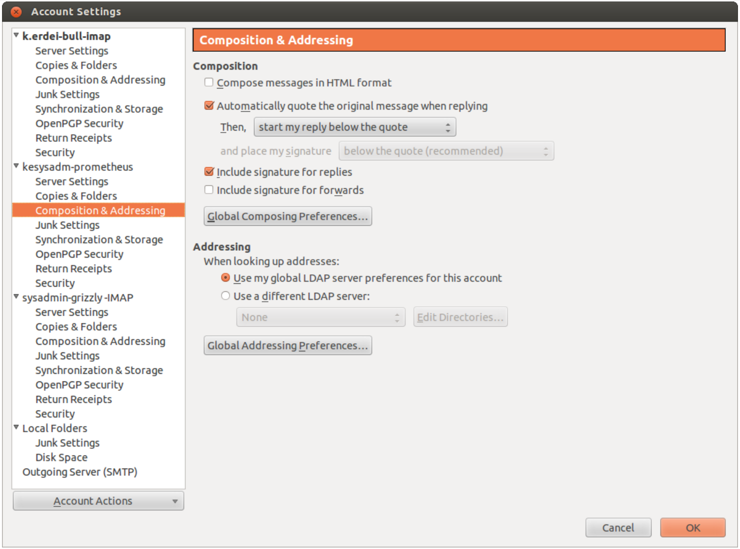
○ Other: Templates on kesysadm-prometheus

□ Show confirmation dialog when messages are saved

Cancel OK

# Setting for Compostion and Adressing

## Do not compose message in HTML format



**Composition & Addressing**

**Composition**

☐ Compose messages in HTML format

☑ Automatically quote the original message when replying

Then, start my reply below the quote

and place my signature below the quote (recommended)

☑ Include signature for replies

☐ Include signature for forwards

**Addressing**

When looking up addresses:

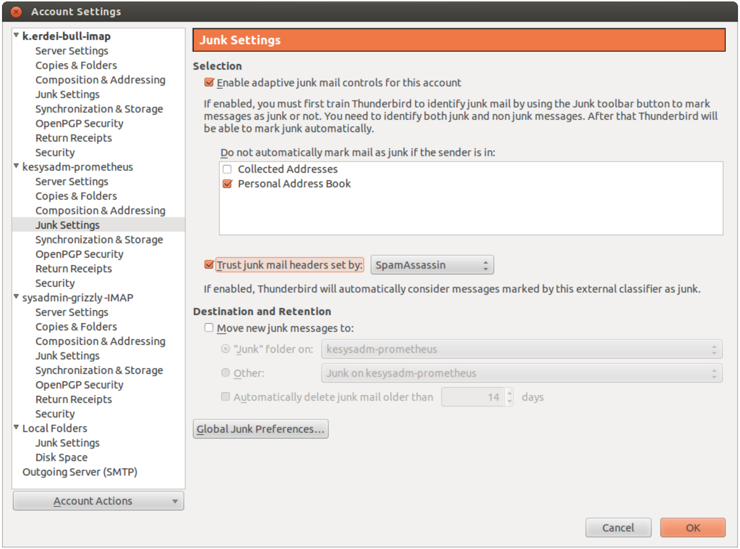
● Use my global LDAP server preferences for this account

○ Use a different LDAP server:

None

# Junks settings

## Trust headers set by Spamassassin



**Junk Settings**

**Selection**

☑ Enable adaptive junk mail controls for this account

If enabled, you must first train Thunderbird to identify junk mail by using the Junk toolbar button to mark messages as junk or not. You need to identify both junk and non junk messages. After that Thunderbird will be able to mark junk automatically.

Do not automatically mark mail as junk if the sender is in:

☐ Collected Addresses

☑ Personal Address Book

☑ Trust junk mail headers set by: SpamAssassin

If enabled, Thunderbird will automatically consider messages marked by this external classifier as junk.

**Destination and Retention**

☐ Move new junk messages to:

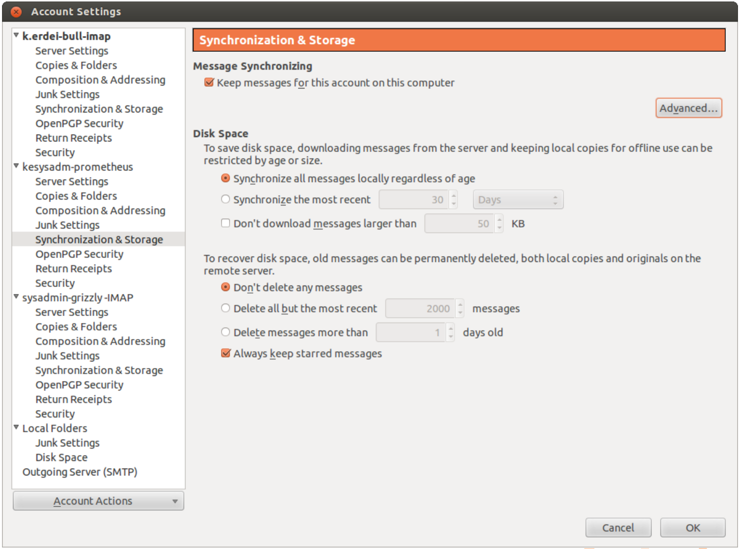
● "Junk" folder on: kesysadm-prometheus

○ Other: Junk on kesysadm-prometheus

☐ Automatically delete junk mail older than 14 days

# Synchronisation and storage

## Keep messages local on your laptop/PC



Account Settings

- k.erdei-bull-imap
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- Local Folders
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  - Disk Space
- Outgoing Server (SMTP)

Account Actions

**Synchronization & Storage**

**Message Synchronizing**

☑ Keep messages for this account on this computer

Advanced...

**Disk Space**

To save disk space, downloading messages from the server and keeping local copies for offline use can be restricted by age or size.

● Synchronize all messages locally regardless of age

○ Synchronize the most recent 30 Days

☐ Don't download messages larger than 50 KB

To recover disk space, old messages can be permanently deleted, both local copies and originals on the remote server.

● Don't delete any messages

○ Delete all but the most recent 2000 messages

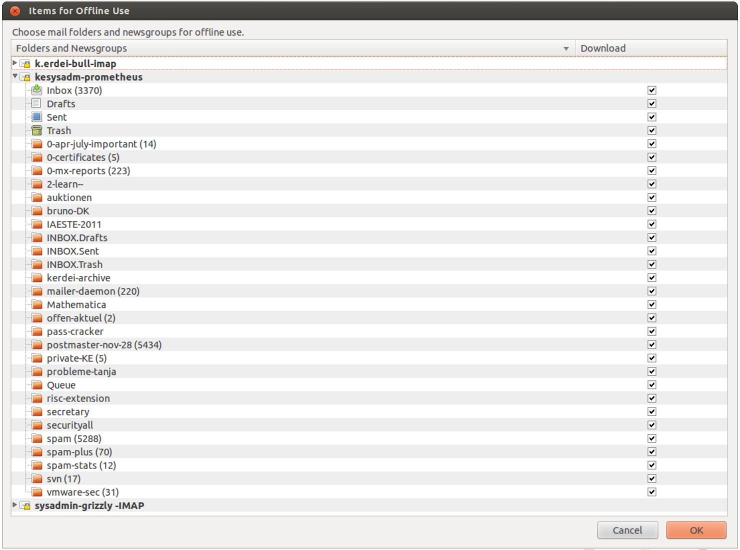
○ Delete messages more than 1 days old

☑ Always keep starred messages

Cancel OK

# Synchronisation and storage

## You can define for each folder the setting



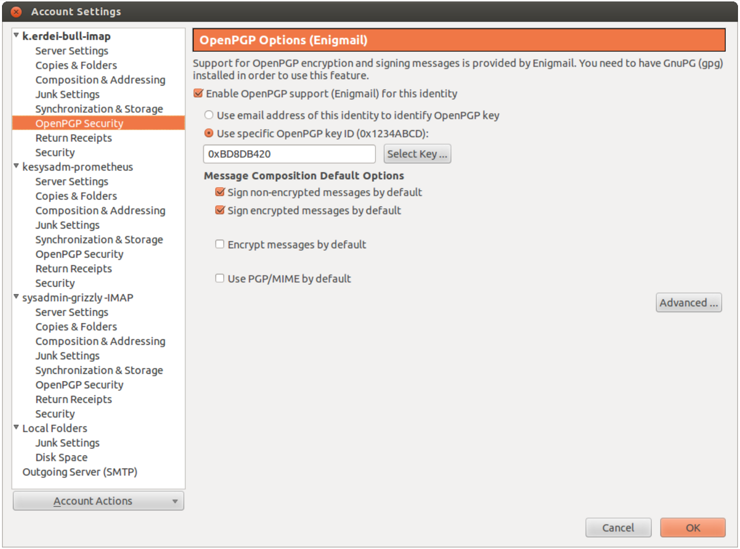
Items for Offline Use

Choose mail folders and newsgroups for offline use.

| Folders and Newsgroups | Download |
|---|---|
| k.erdei-bull-imap | |
| kesysadm-prometheus | |
| Inbox (3370) | ☑ |
| Drafts | ☑ |
| Sent | ☑ |
| Trash | ☑ |
| 0-apr-july-important (14) | ☑ |
| 0-certificates (5) | ☑ |
| 0-mx-reports (223) | ☑ |
| 2-learn– | ☑ |
| auktionen | ☑ |
| bruno-DK | ☑ |
| IAESTE-2011 | ☑ |
| INBOX.Drafts | ☑ |
| INBOX.Sent | ☑ |
| INBOX.Trash | ☑ |
| kerdei-archive | ☑ |
| mailer-daemon (220) | ☑ |
| Mathematica | ☑ |
| offen-aktuel (2) | ☑ |
| pass-cracker | ☑ |
| postmaster-nov-28 (5434) | ☑ |
| private-KE (5) | ☑ |
| probleme-tanja | ☑ |
| Queue | ☑ |
| risc-extension | ☑ |
| secretary | ☑ |
| securityall | ☑ |
| spam (5288) | ☑ |
| spam-plus (70) | ☑ |
| spam-stats (12) | ☑ |
| svn (17) | ☑ |
| vmware-sec (31) | ☑ |
| sysadmin-grizzly -IMAP | |

# OpenPGP Options (Enigmail)

## Enable OpenPGP optins



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  - Synchronization & Storage
  - OpenPGP Security
  - Return Receipts
  - Security
- Local Folders
  - Junk Settings
  - Disk Space
- Outgoing Server (SMTP)

Account Actions

**OpenPGP Options (Enigmail)**

Support for OpenPGP encryption and signing messages is provided by Enigmail. You need to have GnuPG (gpg) installed in order to use this feature.

☑ Enable OpenPGP support (Enigmail) for this identity

○ Use email address of this identity to identify OpenPGP key

● Use specific OpenPGP key ID (0x1234ABCD):

0xBD8DB420 Select Key ...

**Message Composition Default Options**

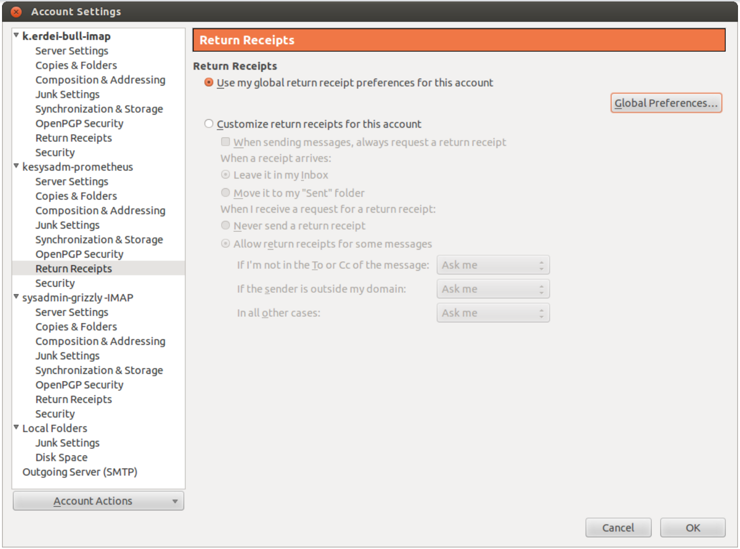
☑ Sign non-encrypted messages by default

☑ Sign encrypted messages by default

☐ Encrypt messages by default

☐ Use PGP/MIME by default

# Return Receipts



**Return Receipts**

**Return Receipts**

● Use my global return receipt preferences for this account

○ Customize return receipts for this account

□ When sending messages, always request a return receipt

When a receipt arrives:

● Leave it in my Inbox

○ Move it to my "Sent" folder

When I receive a request for a return receipt:

○ Never send a return receipt

● Allow return receipts for some messages

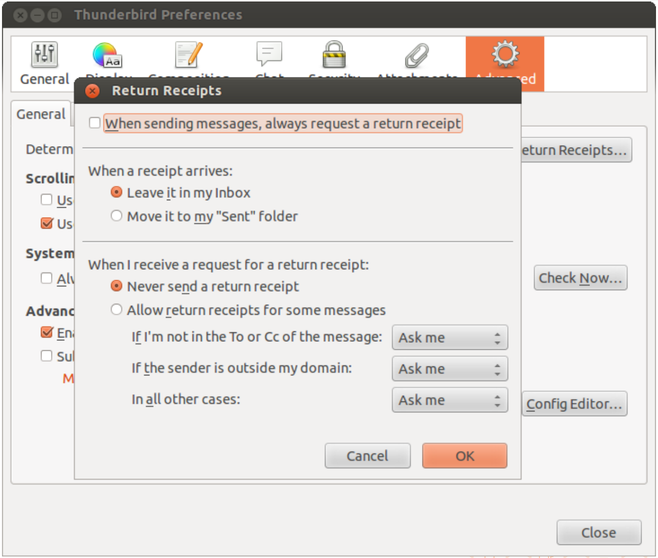
If I'm not in the To or Cc of the message: Ask me

If the sender is outside my domain: Ask me

In all other cases: Ask me

# Return Receipts

Do not request a return receipt AND do not send a return receipt !



Return Receipts

□ When sending messages, always request a return receipt

When a receipt arrives:

● Leave it in my Inbox

○ Move it to my "Sent" folder

When I receive a request for a return receipt:

● Never send a return receipt

○ Allow return receipts for some messages

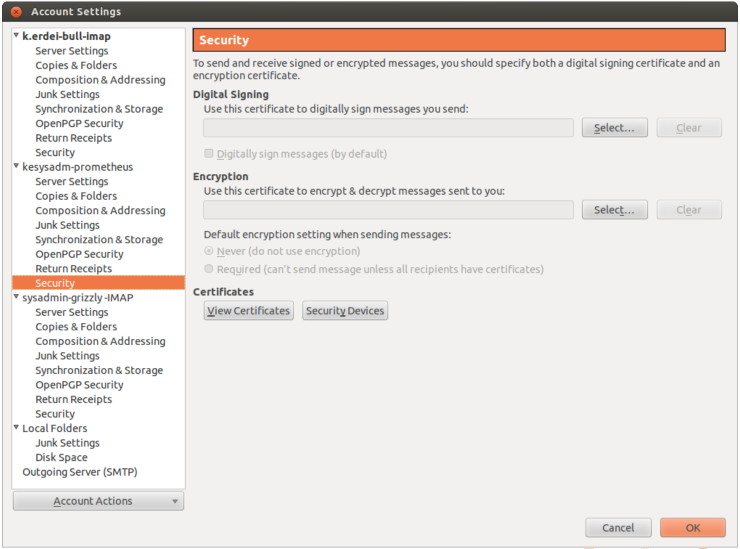
If I'm not in the To or Cc of the message: Ask me

If the sender is outside my domain: Ask me

In all other cases: Ask me

# Security

You Do not need this ! You use the OpenPGP (Enigmail) for security !!



Account Settings

- k.erdei-bull-imap
  - Server Settings
  - Copies & Folders
  - Composition & Addressing
  - Junk Settings
  - Synchronization & Storage
  - OpenPGP Security
  - Return Receipts
  - Security
- kesysadm-prometheus
  - Server Settings
  - Copies & Folders
  - Composition & Addressing
  - Junk Settings
  - Synchronization & Storage
  - OpenPGP Security
  - Return Receipts
  - Security
- sysadmin-grizzly -IMAP
  - Server Settings
  - Copies & Folders
  - Composition & Addressing
  - Junk Settings
  - Synchronization & Storage
  - OpenPGP Security
  - Return Receipts
  - Security
- Local Folders
  - Junk Settings
  - Disk Space
- Outgoing Server (SMTP)

Account Actions

**Security**

To send and receive signed or encrypted messages, you should specify both a digital signing certificate and an encryption certificate.

**Digital Signing**

Use this certificate to digitally sign messages you send:

[ ] Select... Clear

□ Digitally sign messages (by default)

**Encryption**

Use this certificate to encrypt & decrypt messages sent to you:

[ ] Select... Clear

Default encryption setting when sending messages:

○ Never (do not use encryption)

○ Required (can't send message unless all recipients have certificates)

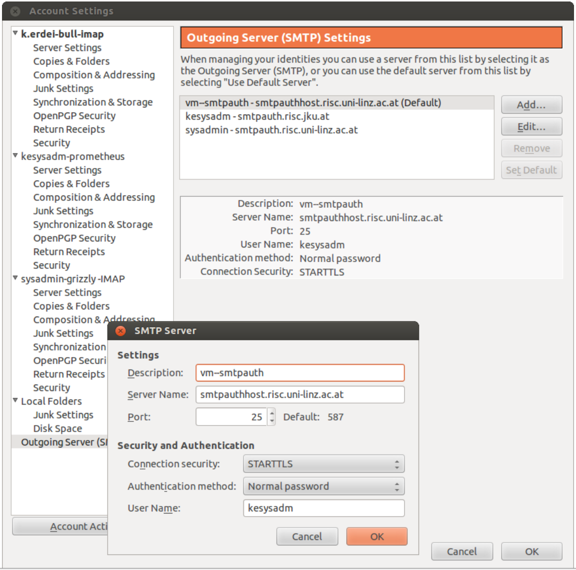
**Certificates**

View Certificates Security Devices

Cancel OK

# Setting the stmp out host

Always use for sending a secure connection: SMTP AUTH or SSL/TLS.



**Outgoing Server (SMTP) Settings**

When managing your identities you can use a server from this list by selecting it as the Outgoing Server (SMTP), or you can use the default server from this list by selecting "Use Default Server".

vm–smtpauth - smtpauthhost.risc.uni-linz.ac.at (Default)
kesysadm - smtpauth.risc.jku.at
sysadmin - smtpauth.risc.uni-linz.ac.at

Description: vm–smtpauth
Server Name: smtpauthhost.risc.uni-linz.ac.at
Port: 25
User Name: kesysadm
Authentication method: Normal password
Connection Security: STARTTLS

**SMTP Server**

**Settings**

Description: vm–smtpauth
Server Name: smtpauthhost.risc.uni-linz.ac.at
Port: 25 Default: 587

**Security and Authentication**

Connection security: STARTTLS
Authentication method: Normal password
User Name: kesysadm

# Agenda

1 Mailing

2 Protocols

3 SPAM

4 Antispam

5 Thunderbird

6 TB-Preferences

7 Folders

8 Search

# Mozilla Thunderbird

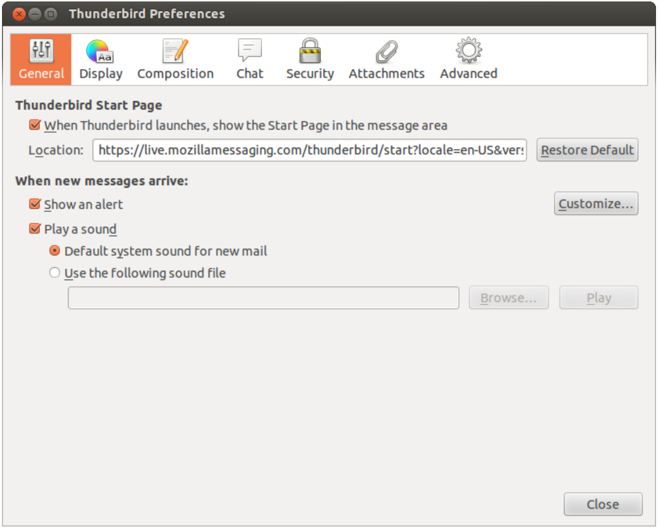
## Useful Preference settings

### Suggested Preference settings for more privacy

- never save your password in Thunderbird
  - your GnuPG solution is more secure (e.g. GPG Editor)
- never accept cookies from sites
- do not check automatically for updates
- Incoming Attachments: delete all entries with actions there
- Use the Config Editor for fine tuning (Advanced/General)
  - but be careful what you do there

# Thunderbird Preferences - General

Menu bar - Edit - Preferences



**Thunderbird Start Page**

☑ When Thunderbird launches, show the Start Page in the message area

Location: https://live.mozillamessaging.com/thunderbird/start?locale=en-US&ver:

**When new messages arrive:**

☑ Show an alert

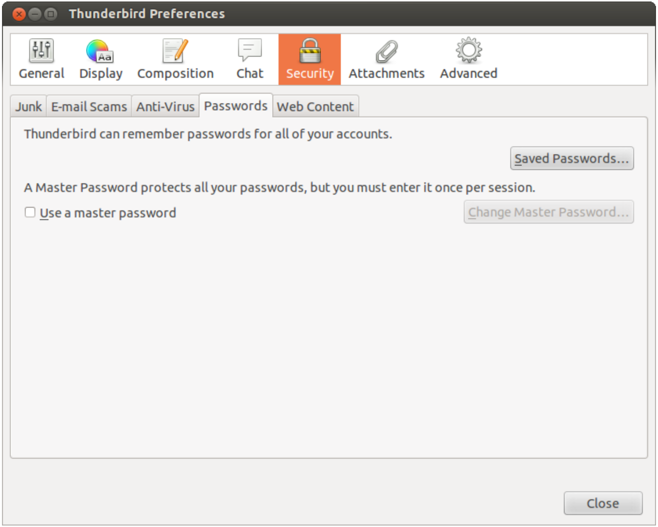
☑ Play a sound

● Default system sound for new mail

○ Use the following sound file

# Thunderbird Preferences - Security - Passwords

Never save your passwords in Thunderbird



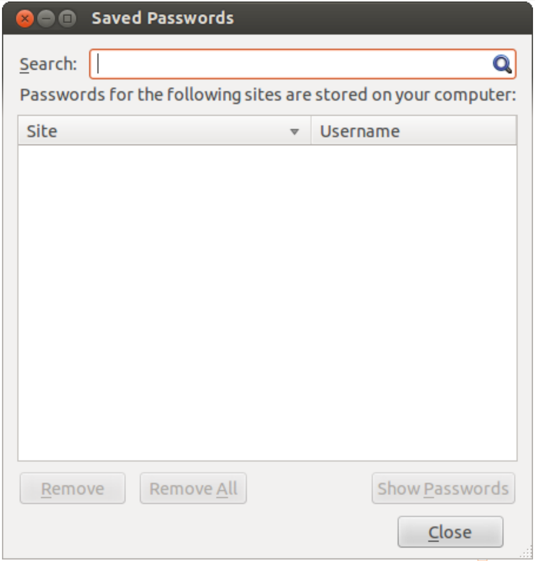
Thunderbird can remember passwords for all of your accounts.

A Master Password protects all your passwords, but you must enter it once per session.

□ Use a master password

# Thunderbird Preferences - Security - Passwords

This is the correct setting - no saved password



Saved Passwords

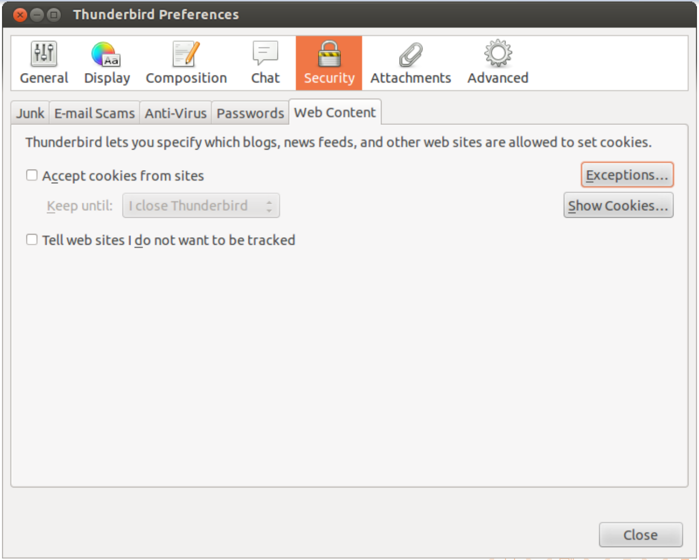
Search:

Passwords for the following sites are stored on your computer:

| Site | Username |
|---|---|

# Thunderbird Preferences - Security - Web content

Never allow cookies !



Thunderbird lets you specify which blogs, news feeds, and other web sites are allowed to set cookies.

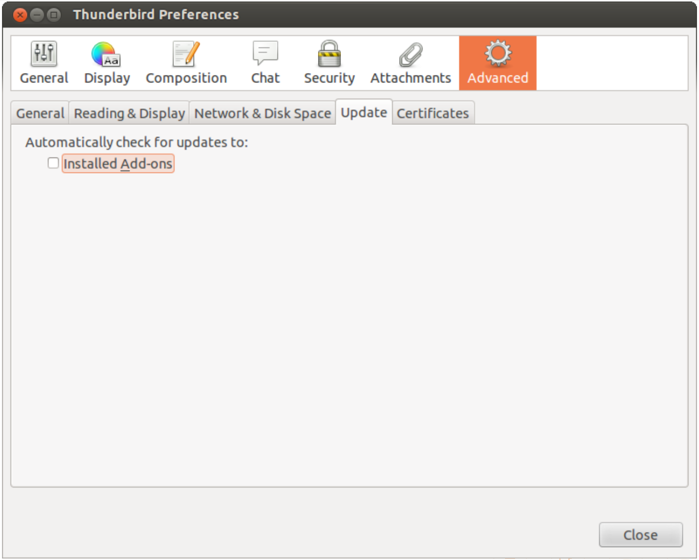
☐ Accept cookies from sites

Keep until: I close Thunderbird

☐ Tell web sites I do not want to be tracked

# Thunderbird Preferences - Update

Do this manually from time to time

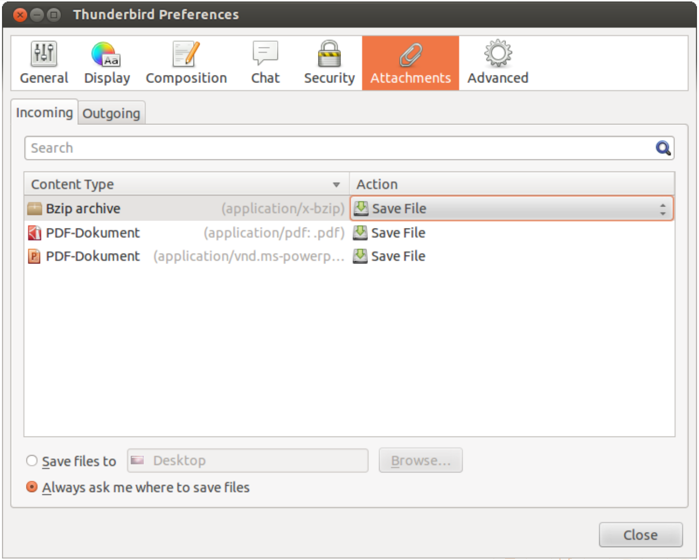


Automatically check for updates to:

□ Installed Add-ons

# Thunderbird Preferences - Attachments - Incoming

At least use: save file option



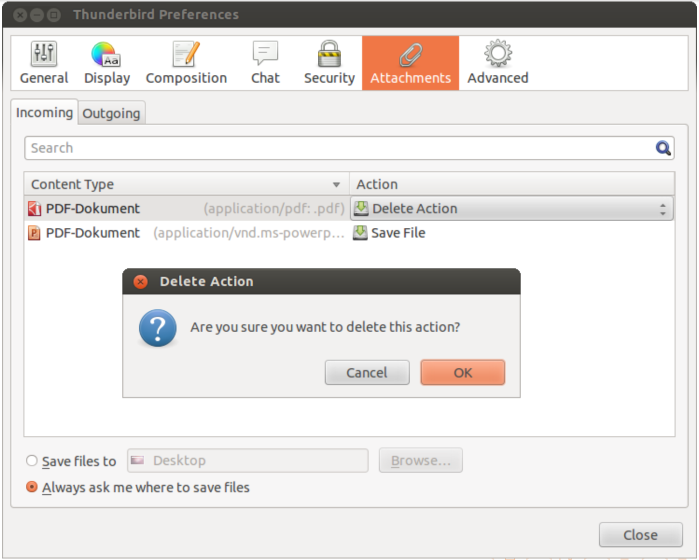
| Content Type | | Action |
|---|---|---|
| Bzip archive | (application/x-bzip) | Save File |
| PDF-Dokument | (application/pdf: .pdf) | Save File |
| PDF-Dokument | (application/vnd.ms-powerp… | Save File |

○ Save files to Desktop

● Always ask me where to save files

# Thunderbird Preferences - Attachment - Incoming

Best is not to have here an action, delete them



| Content Type | | Action |
|---|---|---|
| PDF-Dokument | (application/pdf: .pdf) | Delete Action |
| PDF-Dokument | (application/vnd.ms-powerp… | Save File |

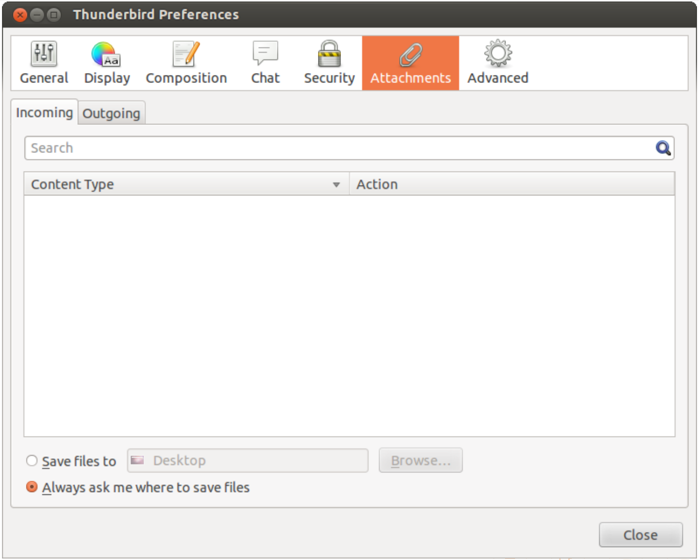
Are you sure you want to delete this action?

○ Save files to Desktop

● Always ask me where to save files

# Thunderbird Preferences - Attachment - Incoming

This is the right solution

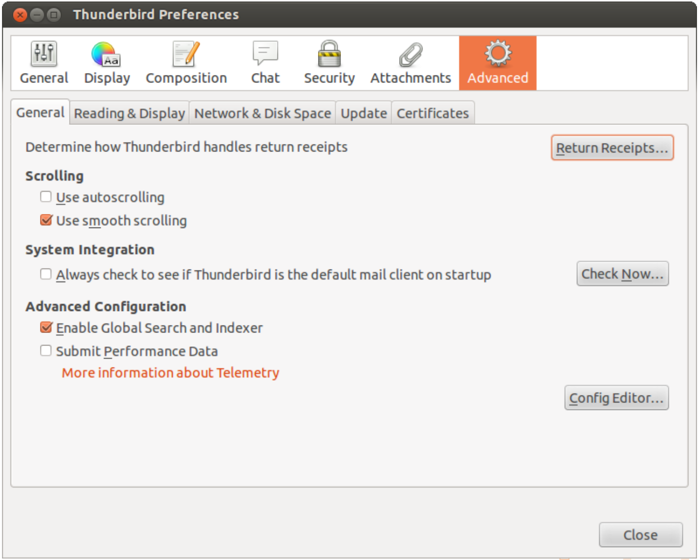


○ Save files to Desktop

● Always ask me where to save files

# Thunderbird Preferences - Advanced

The Config Editor is the most powerfull unit (also dangerous)



Determine how Thunderbird handles return receipts

**Scrolling**

☐ Use autoscrolling

☑ Use smooth scrolling

**System Integration**

☐ Always check to see if Thunderbird is the default mail client on startup

**Advanced Configuration**

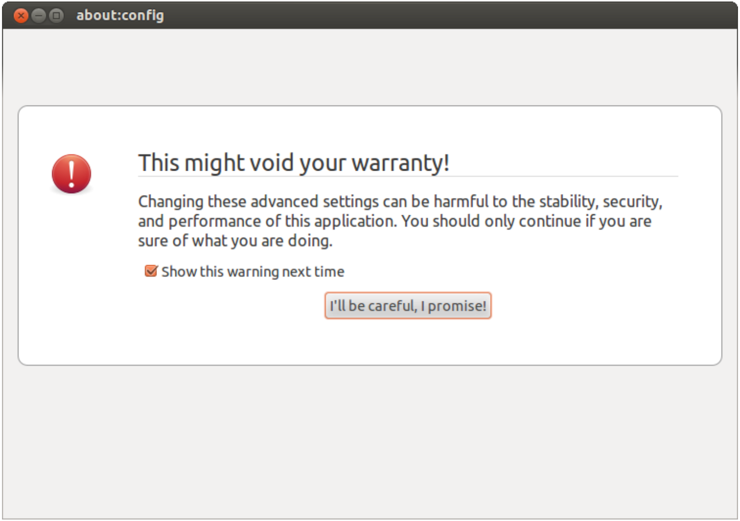
☑ Enable Global Search and Indexer

☐ Submit Performance Data

More information about Telemetry

# Thunderbird Preferences - Advanced - Config Editor

## General view



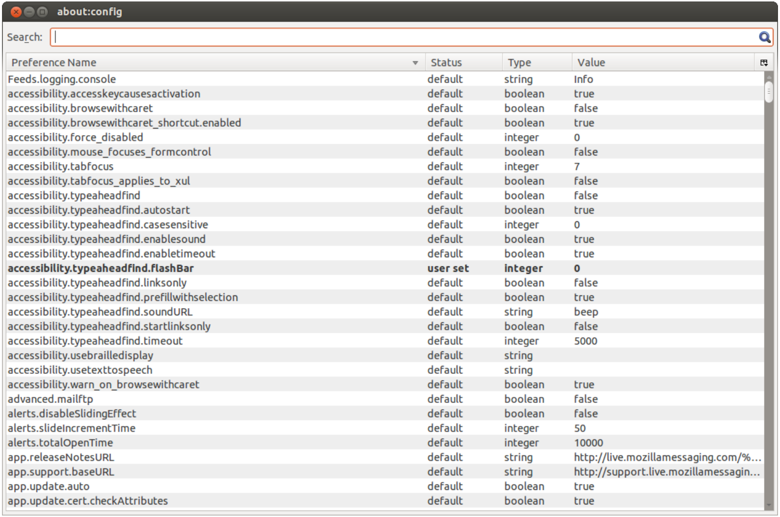
This might void your warranty!

Changing these advanced settings can be harmful to the stability, security, and performance of this application. You should only continue if you are sure of what you are doing.

☑ Show this warning next time

# Thunderbird Preferences - Advanced - Config Editor

## Javascript options

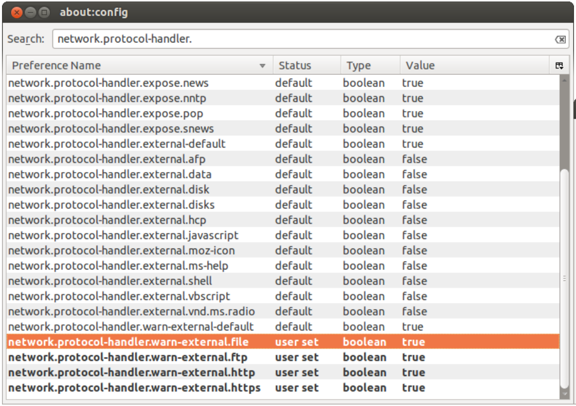


| Preference Name | Status | Type | Value |
|---|---|---|---|
| Feeds.logging.console | default | string | Info |
| accessibility.accesskeycausesactivation | default | boolean | true |
| accessibility.browsewithcaret | default | boolean | false |
| accessibility.browsewithcaret_shortcut.enabled | default | boolean | true |
| accessibility.force_disabled | default | integer | 0 |
| accessibility.mouse_focuses_formcontrol | default | boolean | false |
| accessibility.tabfocus | default | integer | 7 |
| accessibility.tabfocus_applies_to_xul | default | boolean | false |
| accessibility.typeaheadfind | default | boolean | false |
| accessibility.typeaheadfind.autostart | default | boolean | true |
| accessibility.typeaheadfind.casesensitive | default | integer | 0 |
| accessibility.typeaheadfind.enablesound | default | boolean | true |
| accessibility.typeaheadfind.enabletimeout | default | boolean | true |
| **accessibility.typeaheadfind.flashBar** | **user set** | **integer** | **0** |
| accessibility.typeaheadfind.linksonly | default | boolean | false |
| accessibility.typeaheadfind.prefillwithselection | default | boolean | true |
| accessibility.typeaheadfind.soundURL | default | string | beep |
| accessibility.typeaheadfind.startlinksonly | default | boolean | false |
| accessibility.typeaheadfind.timeout | default | integer | 5000 |
| accessibility.usebrailledisplay | default | string | |
| accessibility.usetexttospeech | default | string | |
| accessibility.warn_on_browsewithcaret | default | boolean | true |
| advanced.mailftp | default | boolean | false |
| alerts.disableSlidingEffect | default | boolean | false |
| alerts.slideIncrementTime | default | integer | 50 |
| alerts.totalOpenTime | default | integer | 10000 |
| app.releaseNotesURL | default | string | http://live.mozillamessaging.com/%… |
| app.support.baseURL | default | string | http://support.live.mozillamessagin… |
| app.update.auto | default | boolean | true |
| app.update.cert.checkAttributes | default | boolean | true |

# Thunderbird Preferences - Advanced - Config Editor

## Network Protocol handler

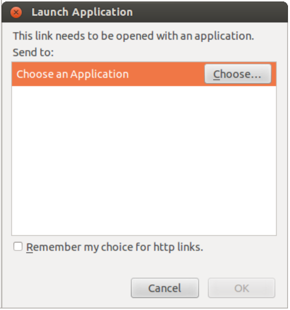
With this setting you get a warning, if you click a hyperlink.



about:config

Search: network.protocol-handler.

| Preference Name | Status | Type | Value |
|---|---|---|---|
| network.protocol-handler.expose.news | default | boolean | true |
| network.protocol-handler.expose.nntp | default | boolean | true |
| network.protocol-handler.expose.pop | default | boolean | true |
| network.protocol-handler.expose.snews | default | boolean | true |
| network.protocol-handler.external-default | default | boolean | true |
| network.protocol-handler.external.afp | default | boolean | false |
| network.protocol-handler.external.data | default | boolean | false |
| network.protocol-handler.external.disk | default | boolean | false |
| network.protocol-handler.external.disks | default | boolean | false |
| network.protocol-handler.external.hcp | default | boolean | false |
| network.protocol-handler.external.javascript | default | boolean | false |
| network.protocol-handler.external.moz-icon | default | boolean | false |
| network.protocol-handler.external.ms-help | default | boolean | false |
| network.protocol-handler.external.shell | default | boolean | false |
| network.protocol-handler.external.vbscript | default | boolean | false |
| network.protocol-handler.external.vnd.ms.radio | default | boolean | false |
| network.protocol-handler.warn-external-default | default | boolean | true |
| **network.protocol-handler.warn-external.file** | **user set** | **boolean** | **true** |
| **network.protocol-handler.warn-external.ftp** | **user set** | **boolean** | **true** |
| **network.protocol-handler.warn-external.http** | **user set** | **boolean** | **true** |
| **network.protocol-handler.warn-external.https** | **user set** | **boolean** | **true** |



Launch Application

This link needs to be opened with an application.

Send to:

Choose an Application

☐ Remember my choice for http links.

## Agenda

1 Mailing

2 Protocols

3 SPAM

4 Antispam

5 Thunderbird

6 TB-Preferences

7 Folders

8 Search

# Using Folders

## Using Folders

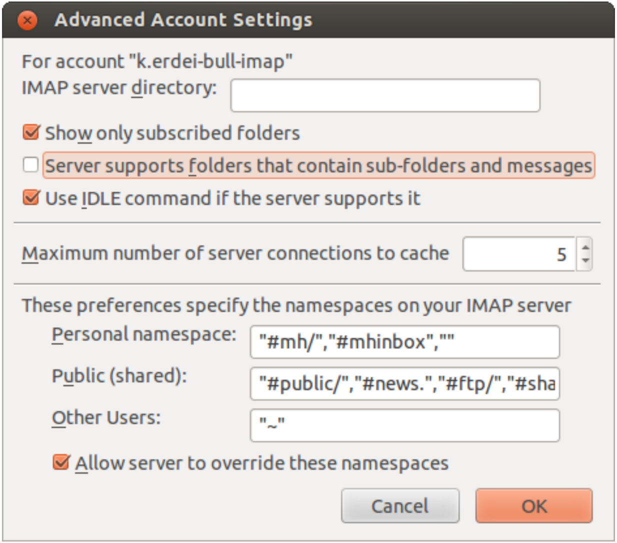
- Thunderbird uses mbox format to save the e-mails
  - in the mbox format the messages are stored sequentially in a (big) file
- a folder is either an mbox-Folder or it contains Subfolders
- folder can contain any number of subfolders
- folders have tree structure

## How to create an IMAP Folder

- first you have to remove the mark for the IMAP server in Server Settings / Advanced :
  - Server supports folders that contain folders and messages
- on the account name click by the right mouse button and select: New Folder
- in the new window select which type of the folder should be:
  - either a Folder with subfolders
  - or it will contain messages only (mbox-Folder)

# Create an IMAP folder

## IMAP server setting: remove the mark



For account "k.erdei-bull-imap"

IMAP server directory:

☑ Show only subscribed folders

□ Server supports folders that contain sub-folders and messages

☑ Use IDLE command if the server supports it

Maximum number of server connections to cache: 5

These preferences specify the namespaces on your IMAP server

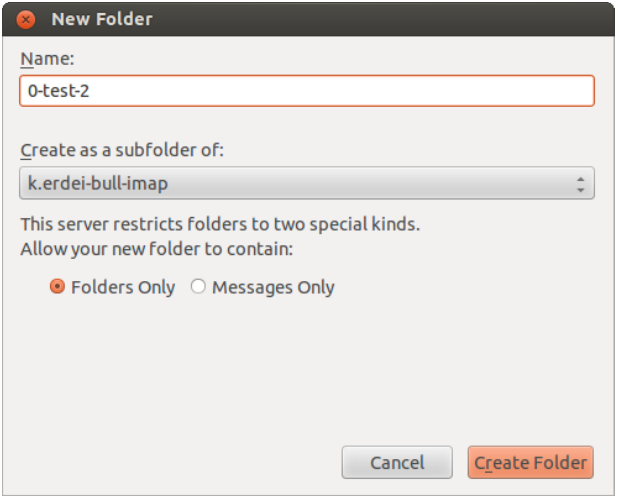
Personal namespace: "#mh/","#mhinbox",""

Public (shared): "#public/","#news.","#ftp/","#sha

Other Users: "~"

☑ Allow server to override these namespaces

## Create an IMAP folder



New Folder

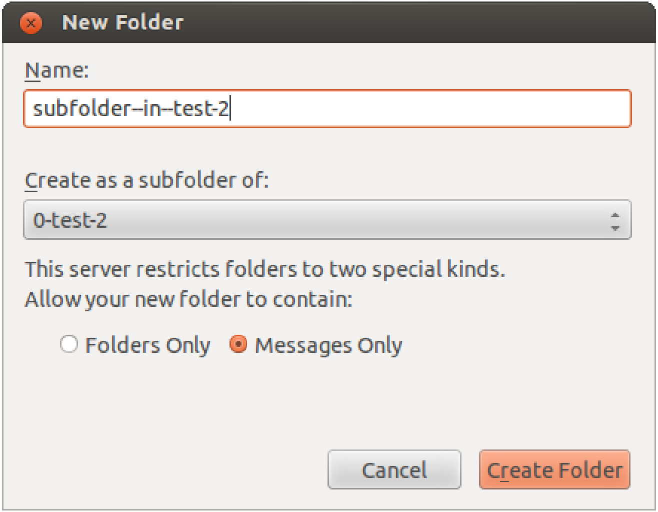
Name: 0-test-2

Create as a subfolder of: k.erdei-bull-imap

This server restricts folders to two special kinds.
Allow your new folder to contain:

● Folders Only ○ Messages Only

# Create an IMAP folder



New Folder

Name: subfolder--in--test-2

Create as a subfolder of: 0-test-2

This server restricts folders to two special kinds.
Allow your new folder to contain:

○ Folders Only ● Messages Only

## Agenda

1 Mailing

2 Protocols

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4 Antispam

5 Thunderbird

6 TB-Preferences

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8 Search

# Using Virtual Folders

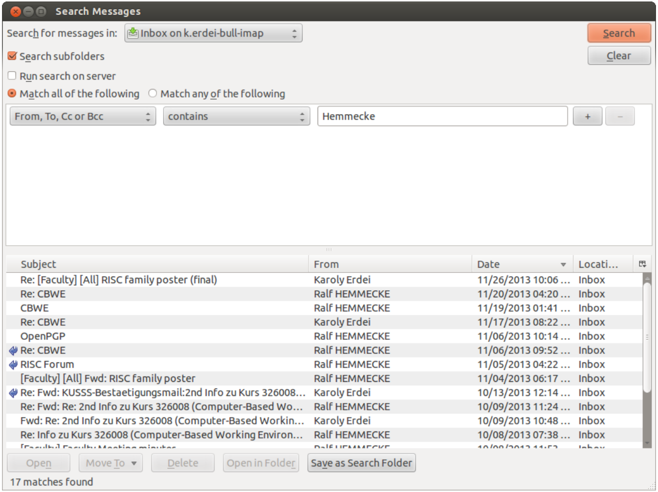
## Saved Search Folders

### Using Virtual Folders (VF)

- creating virtual folders:
  - specify a set of search criteria on messages, accounts
  - carry out the search
  - save the search as a Search Folder by the Save button (right bottom)
- you work with the virtual folders as a conventional folder
- VF is not a real folder, no messages are moved into it
- you can dinamically rerun the search each time .. and
- you can always modify the search criteria
  - click on the virtual folder / Properties
  - change Search criteria and click Update

# Create a Virtual Folder (Search Folder)

## Set the search criteria



Search Messages

Search for messages in: Inbox on k.erdei-bull-imap

☑ Search subfolders

☐ Run search on server

● Match all of the following ○ Match any of the following

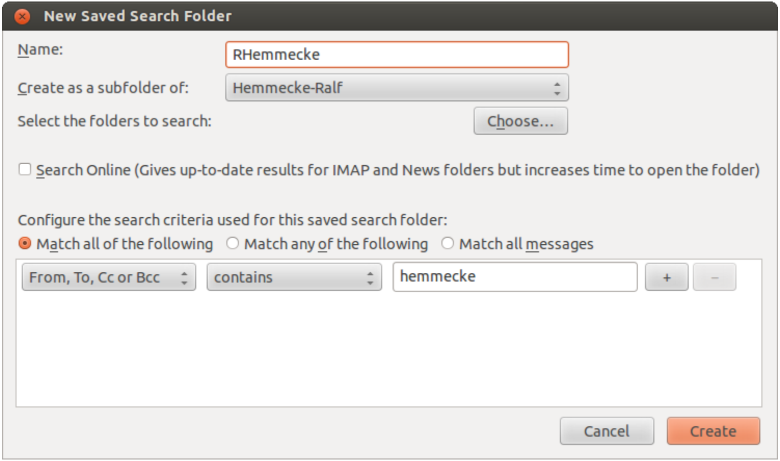
From, To, Cc or Bcc | contains | Hemmecke

| Subject | From | Date | Locati... |
|---|---|---|---|
| Re: [Faculty] [All] RISC family poster (final) | Karoly Erdei | 11/26/2013 10:06 ... | Inbox |
| Re: CBWE | Ralf HEMMECKE | 11/20/2013 04:20 ... | Inbox |
| CBWE | Ralf HEMMECKE | 11/19/2013 01:41 ... | Inbox |
| Re: CBWE | Karoly Erdei | 11/17/2013 08:22 ... | Inbox |
| OpenPGP | Ralf HEMMECKE | 11/06/2013 10:14 ... | Inbox |
| Re: CBWE | Ralf HEMMECKE | 11/06/2013 09:52 ... | Inbox |
| RISC Forum | Ralf HEMMECKE | 11/05/2013 04:22 ... | Inbox |
| [Faculty] [All] Fwd: RISC family poster | Ralf HEMMECKE | 11/04/2013 06:17 ... | Inbox |
| Re: Fwd: KUSSS-Bestaetigungsmail:2nd Info zu Kurs 326008... | Karoly Erdei | 10/13/2013 12:14 ... | Inbox |
| Re: Fwd: Re: 2nd Info zu Kurs 326008 (Computer-Based Wo... | Ralf HEMMECKE | 10/09/2013 11:24 ... | Inbox |
| Fwd: Re: 2nd Info zu Kurs 326008 (Computer-Based Workin... | Karoly Erdei | 10/09/2013 10:48 ... | Inbox |
| Re: Info zu Kurs 326008 (Computer-Based Working Environ... | Ralf HEMMECKE | 10/08/2013 07:38 ... | Inbox |
| [Faculty] Faculty Meeting minutes | Ralf HEMMECKE | 10/08/2013 11:53 | Inbox |

17 matches found

# Create a Virtual Folder

## New Saved Search Folder



New Saved Search Folder

Name: RHemmecke

Create as a subfolder of: Hemmecke-Ralf

Select the folders to search:

□ Search Online (Gives up-to-date results for IMAP and News folders but increases time to open the folder)

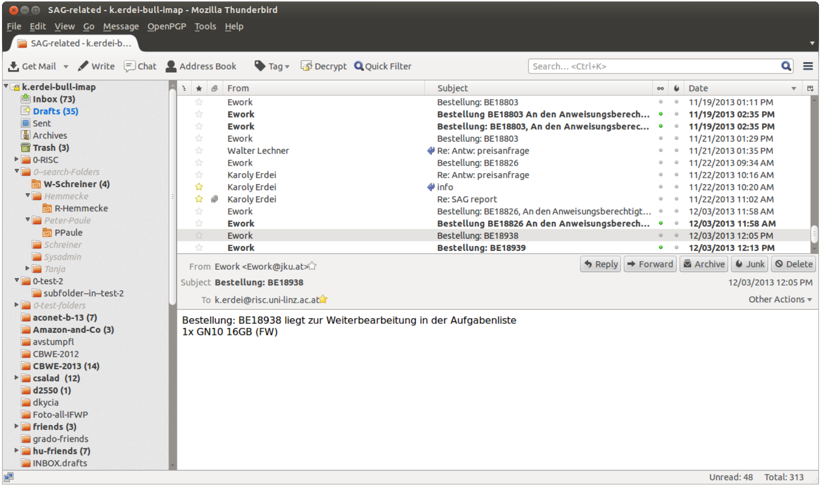
Configure the search criteria used for this saved search folder:

● Match all of the following ○ Match any of the following ○ Match all messages

From, To, Cc or Bcc contains hemmecke

# Create a Virtual Folder

## The new Search Folder has been created



| From | Subject | Date |
|---|---|---|
| Ework | Bestellung: BE18803 | 11/19/2013 01:11 PM |
| Ework | Bestellung BE18803 An den Anweisungsberech... | 11/19/2013 02:35 PM |
| Ework | Bestellung: BE18803, An den Anweisungsberec... | 11/19/2013 02:35 PM |
| Ework | Bestellung: BE18803 | 11/21/2013 01:29 PM |
| Walter Lechner | Re: Antw: preisanfrage | 11/21/2013 01:35 PM |
| Ework | Bestellung: BE18826 | 11/22/2013 09:34 AM |
| Karoly Erdei | Re: Antw: preisanfrage | 11/22/2013 10:16 AM |
| Karoly Erdei | info | 11/22/2013 10:20 AM |
| Karoly Erdei | Re: SAG report | 11/22/2013 11:02 AM |
| Ework | Bestellung: BE18826, An den Anweisungsberechtigt... | 12/03/2013 11:58 AM |
| Ework | Bestellung BE18826 An den Anweisungsberech... | 12/03/2013 11:58 AM |
| Ework | Bestellung: BE18938 | 12/03/2013 12:05 PM |
| Ework | Bestellung: BE18939 | 12/03/2013 12:13 PM |

From Ework <Ework@jku.at>

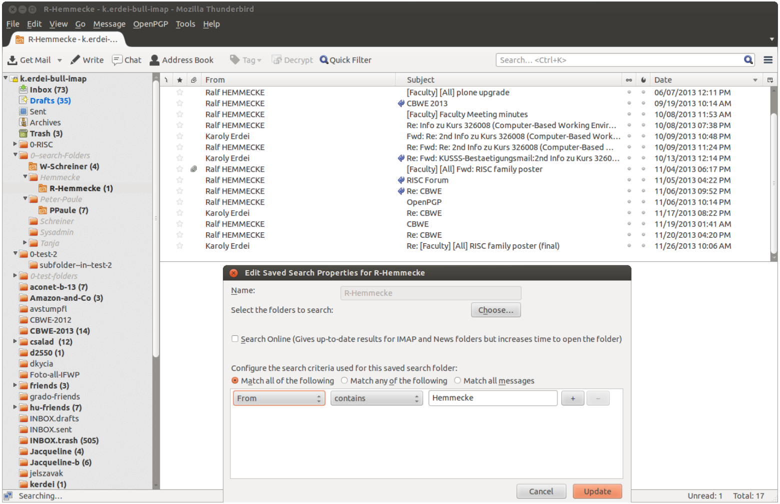
Subject **Bestellung: BE18938** 12/03/2013 12:05 PM

To k.erdei@risc.uni-linz.ac.at

Bestellung: BE18938 liegt zur Weiterbearbeitung in der Aufgabenliste
1x GN10 16GB (FW)

# Using a Virtual Folder

Click the new Search Folder / Properties. Update the Properties (From option)



| From | Subject | Date |
|---|---|---|
| Ralf HEMMECKE | [Faculty] [All] plone upgrade | 06/07/2013 12:11 PM |
| Ralf HEMMECKE | CBWE 2013 | 09/19/2013 10:14 AM |
| Ralf HEMMECKE | [Faculty] Faculty Meeting minutes | 10/08/2013 11:53 AM |
| Ralf HEMMECKE | Re: Info zu Kurs 326008 (Computer-Based Working Envir... | 10/08/2013 07:38 PM |
| Karoly Erdei | Fwd: Re: 2nd Info zu Kurs 326008 (Computer-Based Work... | 10/09/2013 10:48 PM |
| Ralf HEMMECKE | Re: Fwd: Re: 2nd Info zu Kurs 326008 (Computer-Based ... | 10/09/2013 11:24 PM |
| Karoly Erdei | Re: Fwd: KUSSS-Bestaetigungsmail:2nd Info zu Kurs 3260... | 10/13/2013 12:14 PM |
| Ralf HEMMECKE | [Faculty] [All] Fwd: RISC family poster | 11/04/2013 06:17 PM |
| Ralf HEMMECKE | RISC Forum | 11/05/2013 04:22 PM |
| Ralf HEMMECKE | Re: CBWE | 11/06/2013 09:52 PM |
| Ralf HEMMECKE | OpenPGP | 11/06/2013 10:14 PM |
| Karoly Erdei | Re: CBWE | 11/17/2013 08:22 PM |
| Ralf HEMMECKE | CBWE | 11/19/2013 01:41 AM |
| Ralf HEMMECKE | Re: CBWE | 11/20/2013 04:20 PM |
| Karoly Erdei | Re: [Faculty] [All] RISC family poster (final) | 11/26/2013 10:06 AM |

Edit Saved Search Properties for R-Hemmecke

Name: R-Hemmecke

Select the folders to search: Choose...

□ Search Online (Gives up-to-date results for IMAP and News folders but increases time to open the folder)

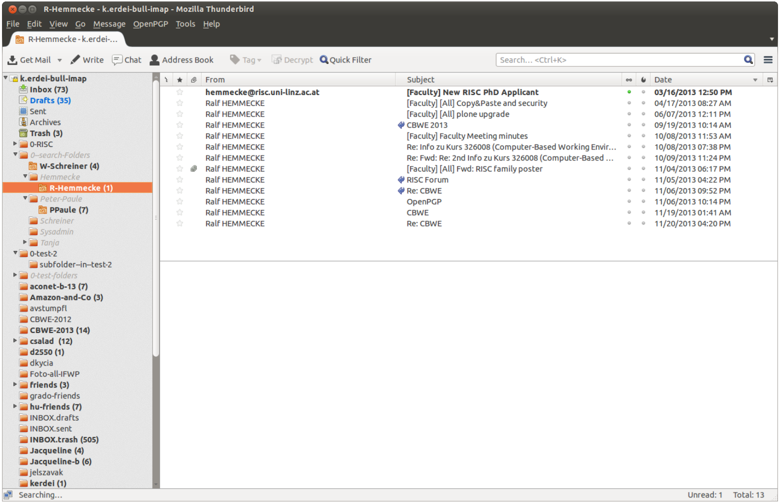
Configure the search criteria used for this saved search folder:

● Match all of the following ○ Match any of the following ○ Match all messages

From | contains | Hemmecke

# Using a Virtual Folder

## The new dinamically updated Search Folder


R-Hemmecke - k.erdei-bull-imap - Mozilla Thunderbird
File Edit View Go Message OpenPGP Tools Help
R-Hemmecke - k.erdei-...
Get Mail
Write
Chat
Address Book
Tag
Decrypt
Quick Filter
Search... <Ctrl+K>

- k.erdei-bull-imap
  - Inbox (73)
  - Drafts (35)
  - Sent
  - Archives
  - Trash (3)
  - 0-RISC
  - 0--search-Folders
    - W-Schreiner (4)
    - Hemmecke
      - R-Hemmecke (1)
    - Peter-Paule
      - PPaule (7)
    - Schreiner
    - Sysdmin
    - Tanja
  - 0-test-2
    - subfolder--in--test-2
  - 0-test-folders
  - aconet-b-13 (7)
  - Amazon-and-Co (3)
  - avstumpfl
  - CBWE-2012
  - CBWE-2013 (14)
  - csalad (12)
  - d2550 (1)
  - dkycia
  - Foto-all-IFWP
  - friends (3)
  - grado-friends
  - hu-friends (7)
  - INBOX.drafts
  - INBOX.sent
  - INBOX.trash (505)
  - Jacqueline (4)
  - Jacqueline-b (6)
  - jelszavak
  - kerdei (1)

| From | Subject | Date |
|---|---|---|
| hemmecke@risc.uni-linz.ac.at | [Faculty] New RISC PhD Applicant | 03/16/2013 12:50 PM |
| Ralf HEMMECKE | [Faculty] [All] Copy&Paste and security | 04/17/2013 08:27 AM |
| Ralf HEMMECKE | [Faculty] [All] plone upgrade | 06/07/2013 12:11 PM |
| Ralf HEMMECKE | CBWE 2013 | 09/19/2013 10:14 AM |
| Ralf HEMMECKE | [Faculty] Faculty Meeting minutes | 10/08/2013 11:53 AM |
| Ralf HEMMECKE | Re: Info zu Kurs 326008 (Computer-Based Working Envir... | 10/08/2013 07:38 PM |
| Ralf HEMMECKE | Re: Fwd: Re: 2nd Info zu Kurs 326008 (Computer-Based ... | 10/09/2013 11:24 PM |
| Ralf HEMMECKE | [Faculty] [All] Fwd: RISC family poster | 11/04/2013 06:17 PM |
| Ralf HEMMECKE | RISC Forum | 11/05/2013 04:22 PM |
| Ralf HEMMECKE | Re: CBWE | 11/06/2013 09:52 PM |
| Ralf HEMMECKE | OpenPGP | 11/06/2013 10:14 PM |
| Ralf HEMMECKE | CBWE | 11/19/2013 01:41 AM |
| Ralf HEMMECKE | Re: CBWE | 11/20/2013 04:20 PM |

Searching...  Unread: 1  Total: 13

## Agenda

1 Mailing

2 Protocols

3 SPAM

4 Antispam

5 Thunderbird

6 TB-Preferences

7 Folders

8 Search

# User Guides at RISC for Mailing

The RISC setup

## Configuration Mailing

- https://www.risc.uni-linz.ac.at/internals/userinformation/completeguide/userguides/mailing/client-ssl/client-ssl.html
- https://www.risc.uni-linz.ac.at/internals/userinformation/completeguide/userguides/mailing/smtp-relay/smtp-relay.html

## Procmail

- https://www.risc.uni-linz.ac.at/internals/userinformation/completeguide/userguides/mailing/procmail.html

## Spamassassin

- https://www.risc.uni-linz.ac.at/internals/userinformation/completeguide/userguides/mailing/spamassassin/spamassassin.html

## End of Mailing

Thanks for your attention !