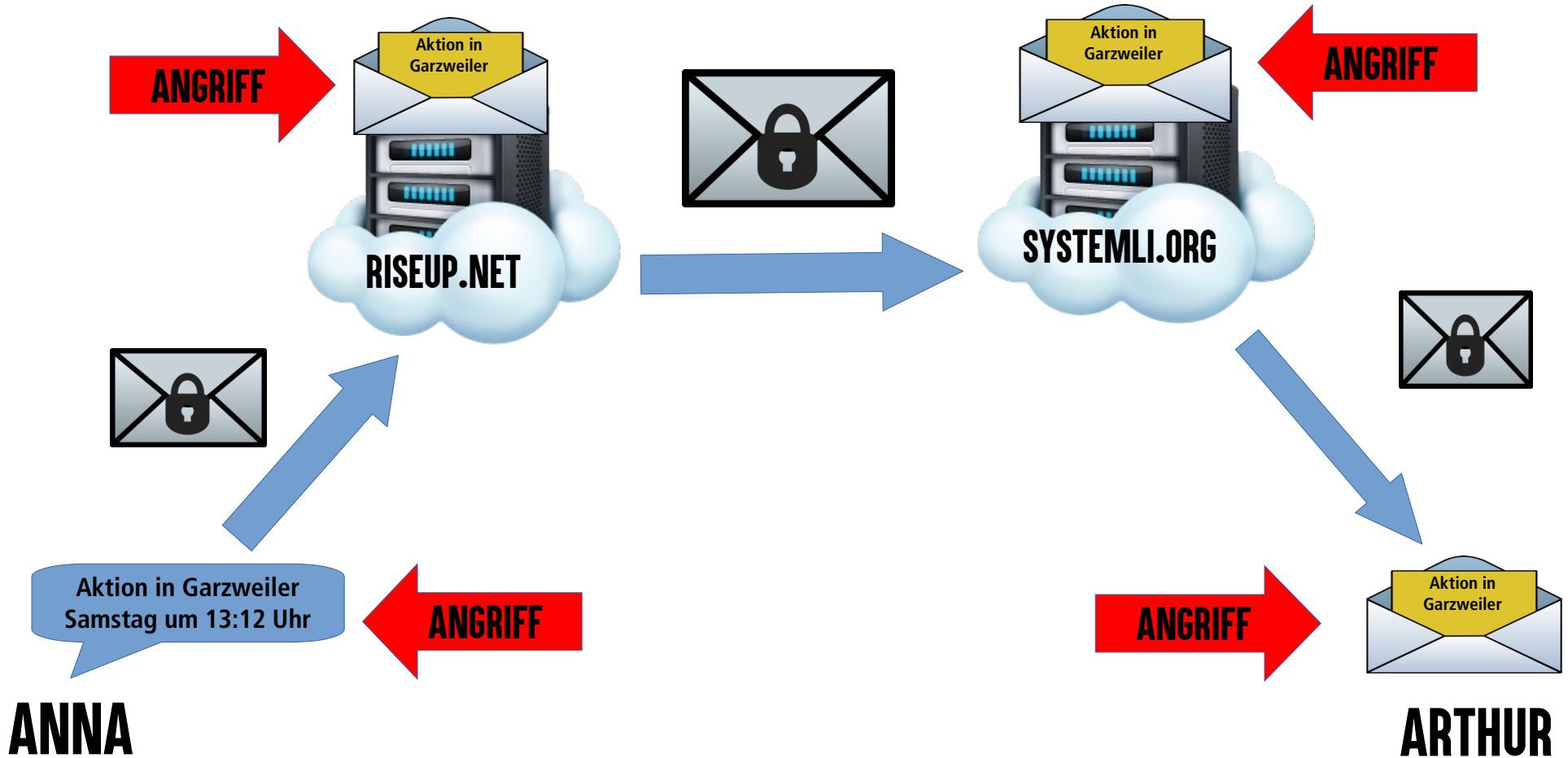


PGP VERSCHLÜSSLUNG

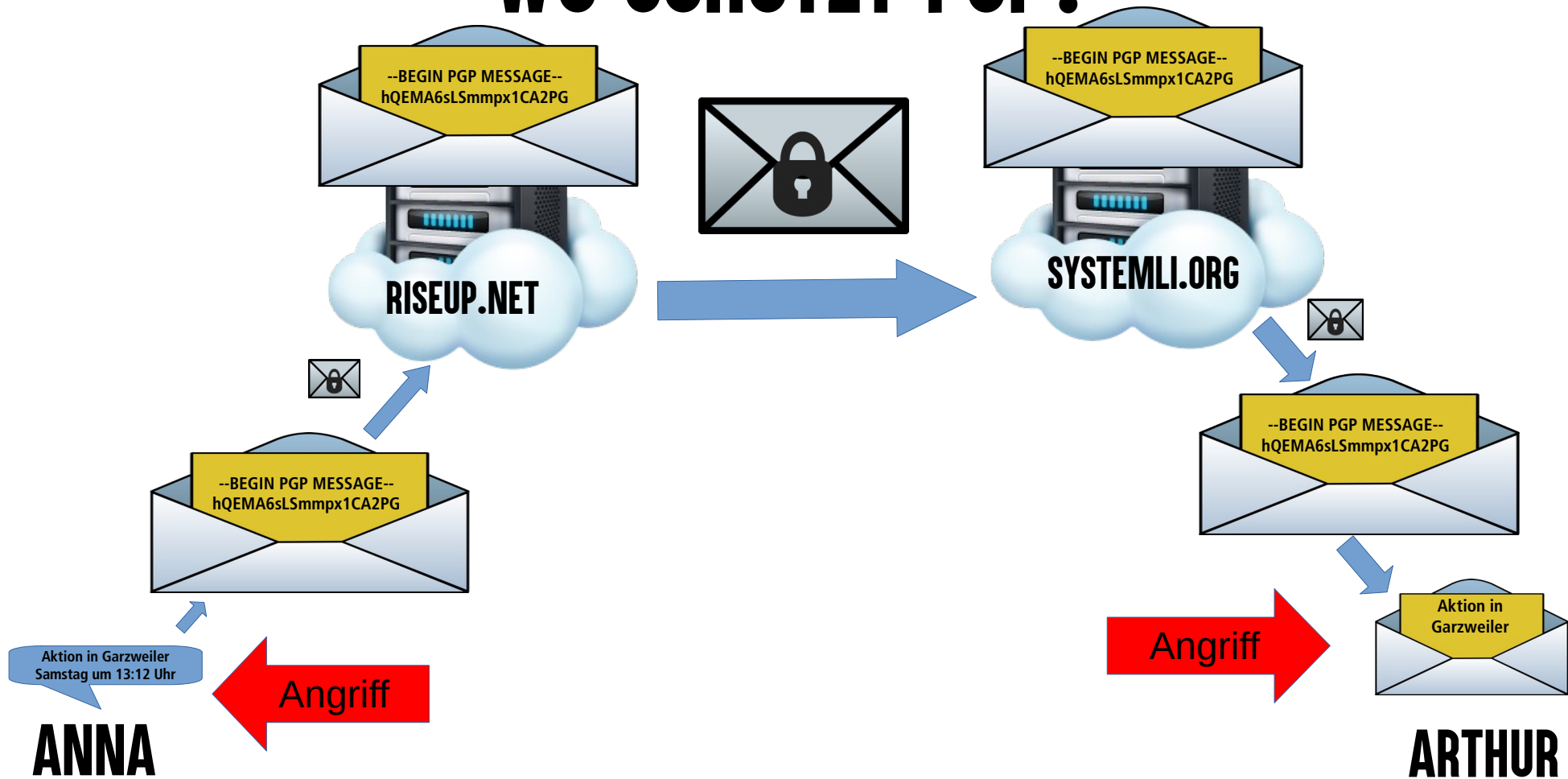
Einführung für Aktivist*innen



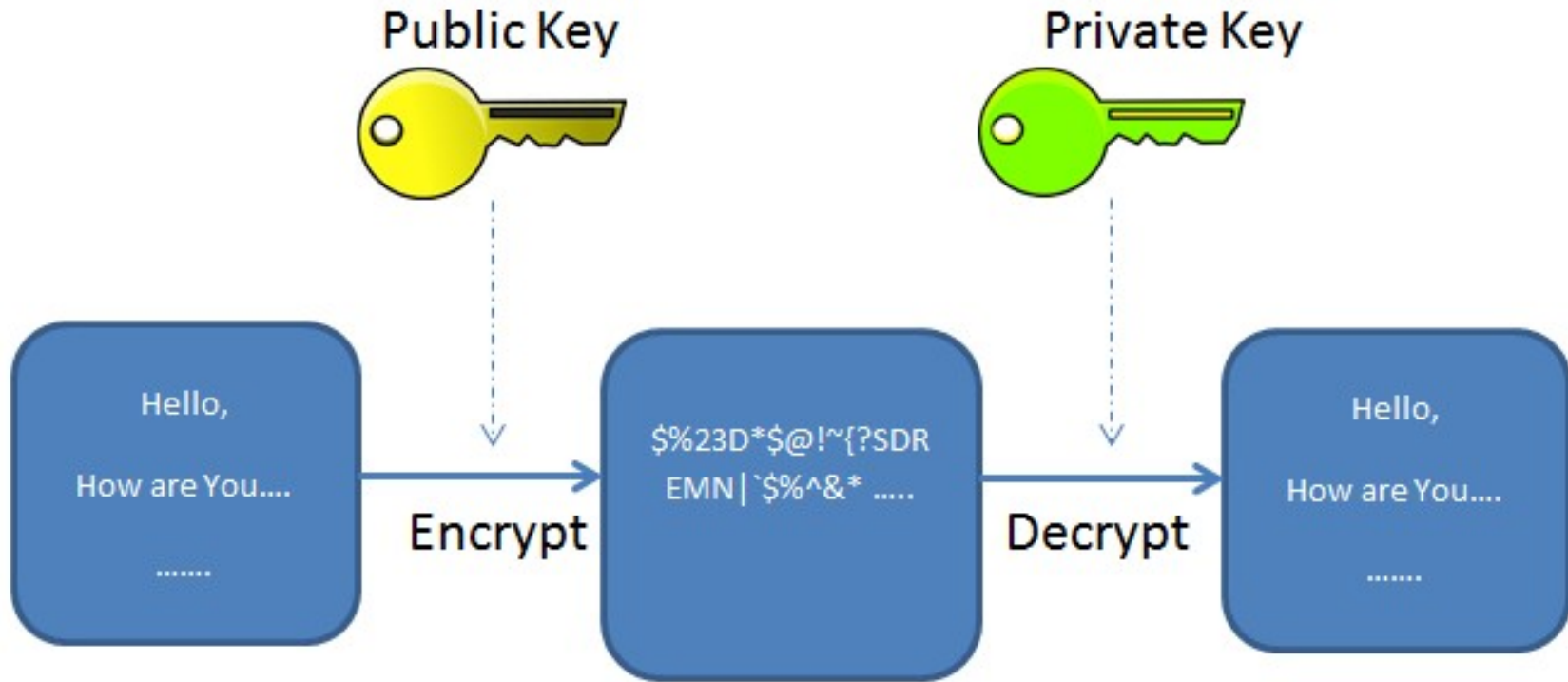
WIE FUNKTIONIERT E-MAIL?



WO SCHÜTZT PGP?



WIE FUNKTIONIERT PGP?



- ▼ @riseup.net
 - Inbox
 - Spam
 - Trash
- ▼ Local Folders
 - Trash
 - Outbox

@riseup.net

Account Settings

Read messages Write a new message Search messages Manage message filters End-to-end Encryption

Account Einstellungen

2

Filelink feeds Newsgroups

Import from Another Program

Thunderbird lets you import mail messages, address book entries, feed subscriptions, preferences, and/or filters from other mail programs and common address book formats.

Import

Ende-zu-Ende Verschlüsselung konfigurieren

About Mozilla Thunderbird

Thunderbird is the leading open source, cross-platform email and calendaring client, free for business and personal use. We want it to stay secure and become even better. A donation will allow us to hire developers, pay for infrastructure, and continue to improve.

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Resources

- Explore Features
- Support
- Get Involved
- Developer Documentation



@riseup.net

- Server Settings
- Copies & Folders
- Composition & Addressing
- Junk Settings
- Synchronization & Storage
- End-To-End Encryption**

Return Receipts

Local Folders

- Junk Settings
- Disk Space

Outgoing Server (SMTP)

Account Actions

End-To-End Encryption

To send encrypted or digitally signed messages, you need to configure an encryption technology, either OpenPGP or S/MIME.

Select your personal key to enable the use of OpenPGP, or your personal certificate to enable the use of S/MIME. For a personal key or certificate you own the corresponding secret key. [Learn more](#)

OpenPGP



Thunderbird doesn't have a personal OpenPGP key for @riseup.net

Add Key...

Use the OpenPGP Key Manager to view and manage public keys of your correspondents and all other keys not listed above.

OpenPGP Key Manager

S/MIME

Personal certificate for digital signing:

Select...

Clear

Personal certificate for encryption:

Select...

Clear

Manage S/MIME Certificates

S/MIME Security Devices

Default settings for sending messages

Without end-to-end encryption the contents of messages are easily exposed to your email provider and to mass surveillance.

- Do not enable encryption by default
- Require encryption by default

If you require encryption, to send a message you must have the public key or certificate of every recipient.

Neuen Key hinzufügen

- Server Settings
- Copies & Folders
- Composition & Addressing
- Junk Settings
- Synchronization & Storage
- End-To-End Encryption**
- Return Receipts
- Local Folders
 - Junk Settings
 - Disk Space
- Outgoing Server (SMTP)

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Use the OpenPGP Key listed above.

OpenPGP Key Man

S/MIME

Personal certificate f

Personal certificate f

Manage S/MIME Certificates

S/MIME Security Devices

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Add a Personal OpenPGP Key for @riseup.net

ⓘ If you have an existing personal key for this email address, you should import it. Otherwise you will not have access to your archives of encrypted emails, nor be able to read incoming encrypted emails from people who are still using your existing key. [Learn more](#)

- Create a new OpenPGP Key
- Import an existing OpenPGP Key

Cancel

Continue

Neuen Key erstellen

[redacted]@riseup.net

- Server Settings
- Copies & Folders
- Composition & Addressing
- Junk Settings
- Synchronization & Storage

End-To-End Encryption

Return Receipts

Local Folders

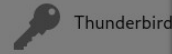
- Junk Settings
- Disk Space

Outgoing Server (SMTP)

End-To-End Encryption

To send encrypted or signed messages, you need to use OpenPGP or S/MIME. Select your personal OpenPGP key or S/MIME certificate for a personal account.

OpenPGP



Use the OpenPGP Key Manager to manage the keys listed above.

OpenPGP Key Manager

S/MIME

Personal certificate for [redacted]

[redacted]

Personal certificate for [redacted]

[redacted]

Manage S/MIME Certificates

Default settings for outgoing mail

Without end-to-end encryption, your outgoing mail is vulnerable to mass surveillance.

 Do not encrypt outgoing mail Require end-to-end encryption

If you require end-to-end encryption, you must use OpenPGP or S/MIME.

Account Actions

Add a Personal OpenPGP Key for [redacted]@riseup.net

Generate OpenPGP Key

Identity [redacted]@riseup.net > [redacted]@riseup.net

Key expiry

Define the expiration time of your newly generated key. You can later control the date to extend it if necessary.

- Key expires in years
- Key does not expire

Advanced settings

Control the advanced settings of your OpenPGP Key.

Key type: RSA

Key size: 4096

Schlüssellänge erhöhen

Go back

Cancel

Generate key

- ▼ @riseup.net
 - Server Settings
 - Copies & Folders
 - Composition & Addressing
 - Junk Settings
 - Synchronization & Storage
 - End-To-End Encryption**
 - Return Receipts
- ▼ Local Folders
 - Junk Settings
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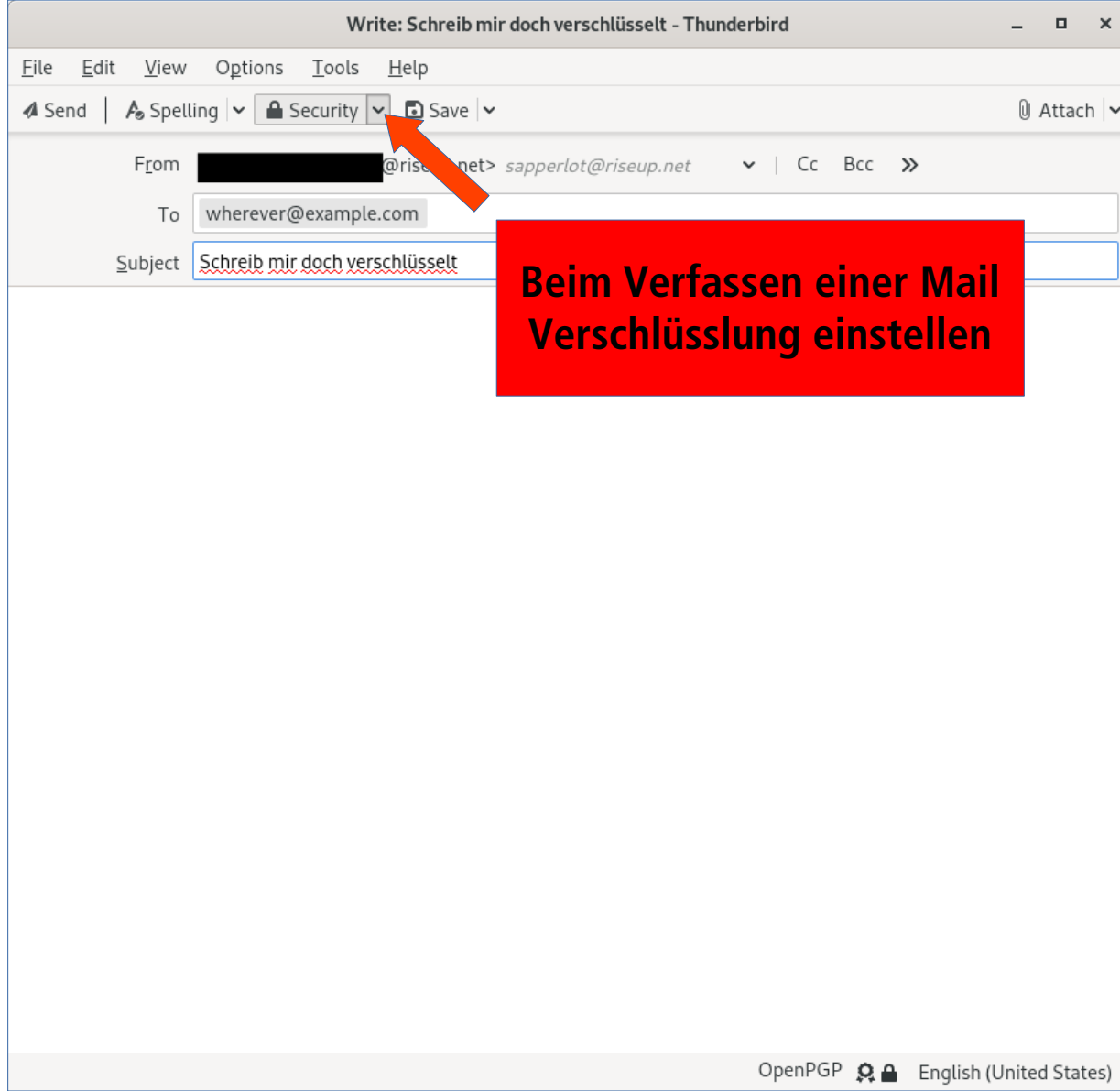
A digital signature allows recipients to verify the message was sent by you, and that the content has not been changed.

Add my digital signature by default

Preferred encryption technology:

- Select automatically based on available keys or certificates
- Prefer OpenPGP
- Prefer S/MIME

Nachrichten standardmäßig signieren



**Beim Verfassen einer Mail
Verschlüsselung einstellen**

KEY MANAGER

- Zugriff über:
Thunderbird Menü (Drei horizontale Streifen oben Rechts) -> Tools -> OpenPGP Key Manager
- Alle Keys aufgelistet (privat Keys fett)
- Möglichkeit Public and Private Keys zu importieren
*File-> Import**

Set Up Another Account

- Email
- Calendar
- Address Book
- Chat
- Filelink
- Feeds
- Newsgroups

Thunderbird Menu

Import from Another Program

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Import

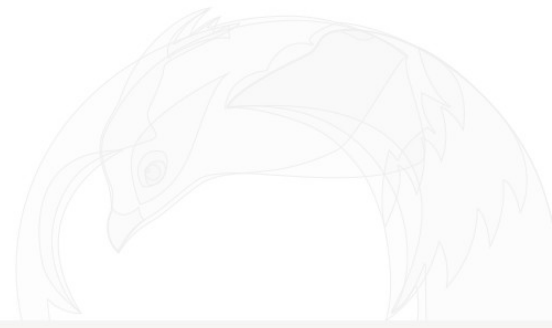
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SONSTIGE HINWEISE

- **Masterkey: Schützt eure Keys auf eurem PC (falls euer PC beschlagnahmt wird)**
- **Backup: Sichert eure privaten (am besten auch alle öffentlichen) Keys!**
 - **Thunderbird: KeyManager -> Key anklicken -> Edit -> Backup Secret Key to File**
 - **Gutes Passwort wählen**
 - **Am besten nur in Passwortmanager speichern**

VERSCHLÜSSELTE E-MAIL VERTEILER

3 ALTERNATIVEN

- 1. Schleuder**
- 2. Manuelle Schleuder**
- 3. Liste mit geteiltem Key**

SCHLEUDER

- Alle haben Public Key der Liste
- Es wird an listname@example.com geschrieben und verschlüsselt
- Server verschlüsselt an alle

SCHLEUDER

Vorteile	Nachteile
Intuitiv	Server muss vertraut werden
Schnelle Weiterleitung	Server muss alle Public Keys haben
Nur Public Key der Liste muss verteilt werden	Einrichtung schwieriger

MANUELLE SCHLEUDER

- Alle haben Public Key der Liste/einer E-Mail Adresse
- Es wird an listname@example.com geschrieben und verschlüsselt
- Vertrauenswürdiges Team leitet E-Mails manuell weiter

MANUELLE SCHLEUDER

Vorteile	Nachteile
Intuitiv für Nutzer*innen	Arbeit von Team notwendig
Nur Public Key der Liste muss verteilt werden	Team muss alle Public Keys verwalten
Nur Public Key der Liste muss verteilt werden	Weiterleitung kann dauern

LISTE MIT GETEILTEM KEY

- Ein Schlüsselpaar das ALLE haben
- Es wird an listname@example.com geschrieben und verschlüsselt
- Alle empfangen die E-Mail und entschlüsseln mit private Key

LISTE MIT GETEILTEM KEY

Vorteile	Nachteile
Intuitiv	Schlüssel muss sicher verteilt werden
Schnelle Weiterleitung	Menschen exkludieren schwierig
Einfache Einrichtung z.B. über Riseup	

FRAGEN?

OPSEC

- **Tails nutzen (vermindert Metadaten)**
- **Eine E-Mail Adresse pro Zusammenhang**
- **Passwort Manager nutzen**
- **Computer und Backup verschlüsseln**
- **Alte E-Mails (und Daten) löschen**

MEHR MATERIAL

**Hilfreiche Guides von Menschen mit Ahnung:
<https://beschlagnahmte.org/themen/>**

**FAQ OpenPGP mit Thunderbird:
<https://support.mozilla.org/en-US/kb/openpgp-thunderbird-howto-and-faq>**

SONSTIGE TIPPS

- **E-Mail Verschlüsselung auf dem Handy: K9 + Open Keychain**
- **Passwortmanager der PGP Keys als Anhang speichern kann: KeePassXC**
- **Thunderbird kann auch GPG als PGP Backend verwenden -> Für Hardwaretoken sinnvoll**