

## Windows 8.1 Thunderbird, MSCTC gmail, and enigmail setup

This presentation uses Windows 8.1 to setup Thunderbird IMAP client with MState student gmail account. The presentation will setup and use enigmail for class encryption use.

These directions will work for other operating systems beginning with the installation of Thunderbird.

Preuss  
4/9/2015



Recycle Bin

The presentation logs into Windows 8.1.

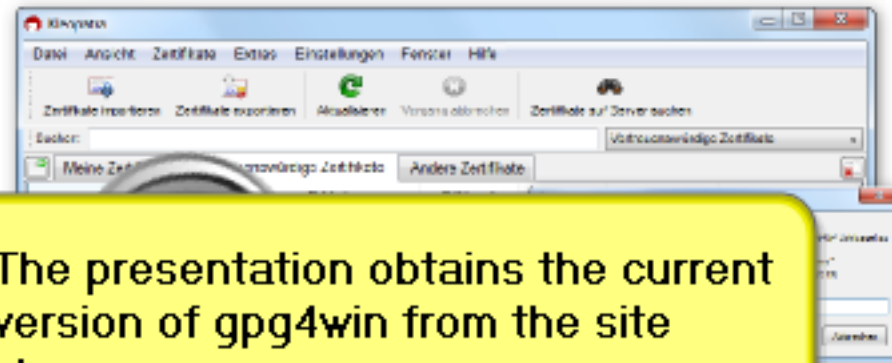


**Download Gpg4win**



[Change History - Check integrity](#)

The presentation obtains the current version of gpg4win from the site shown.



### News

- 2015-03-18 **Gpg4win 2.2.4 released**
- 2014-11-28 **Gpg4win 2.2.3 released**
- 2014-09-04 **Gpg4win 2.2.2 released**

Older messages in [news archive](#).

## Gpg4win - a secure solution

... for file and email encryption. Gpg4win (GNU Privacy Guard for Windows) is Free Software and can be installed with just a few mouse clicks.

### Discover Gpg4win

Learn what Gpg4win is and read more about the features of our solution!

[About Gpg4win »](#)

### Getting started

We help you to use Gpg4win. Learn the basics about Gpg4win and get in the world of cryptography. The best point to start is with the illustrative Gpg4win Compendium

### Join the community

Gpg4win is Free Software. Join the community! We recommend subscribing to the [Gpg4win announcement mailing list](#) to be automatically informed about new releases



The presentation downloads the full version of gpg4win.



Home » Download

# Download

## Gpg4win 2.2.4 (Released: 2015-03-18)

You can download the full version (including the Gpg4win compendium) of Gpg4win 2.2.4 here:

**Gpg4win 2.2.4**  
Size: 30 MByte

[OpenPGP signature](#) (for gpg4win-2.2.4.exe)

SHA1 checksum (for gpg4win-2.2.4.exe): 8ddcbf14eb6df11139f709320a71d197a83bf9e1

[Changelog](#)

**Gpg4win 2.2.4 contains:**

- GnuPG 2.0.27
- Kleopatra 2.2.0-git945878c
- GPA 0.9.7
- GpgOL 1.2.1
- GpgEX 1.0.1
- Claws Mail 3.9.1
- Kompendium (de) 3.0.0
- Kompendium (en) 3.0.0

### More Gpg4win-2.2.4 variants

- Gpg4win without Kleopatra and Gpg4win Compendium:

**Gpg4win-Light 2.2.4**  
Size: 13 MByte

[OpenPGP signature](#)

SHA1 checksum: ff750a596b104b2147ca2eb8d2cf128e21f29554



Downloads

File Home Share View

This PC > Downloads

Name	Date modified	Type	Size
gpg4win-2.2.4.exe	3/26/2015 6:19 PM	Application	29,792 KB

1 item


The presentation double clicks on the downloaded version of gpg4win. This will begin the installation of gpg4win.

The presentation gives gpg4win permission to make changes to the computer. The presentation clicks Yes to continue the installation.



User Account Control

Do you want to allow the following program to make changes to this computer?

 Program name: Gpg4win  
Verified publisher: **Intevation GmbH**  
File origin: Hard drive on this computer

Show details Yes No

[Change when these notifications appear](#)

The presentation selects English as the installation language. The presentation clicks on OK to continue.

Application Tools Downloads

Manage

Downloads

Search Downloads

Date modified	Type	Size
gpg4v... 2/26/2015 6:19 PM	Application	29,792 KB

This PC

- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Local Disk (C:)

1 item | 1 item selected | 29.0 MB

### Installer Language

Please choose a language for the setup.  
Bitte die Sprache des Installations-Vorgangs angeben.

English

OK Cancel

The presentation reads the screen and clicks Next to continue.

Gpg4win Setup



### Welcome to the installation of Gpg4win

Gpg4win is a installer package for Windows for EMail and file encryption using the core component GnuPG for Windows. Both relevant cryptography standards are supported, OpenPGP and S/MIME. Gpg4win and the software included with Gpg4win are Free Software.

Click Next to continue.

This is Gpg4win version 2.2.4  
file version 2.2.4.32249  
release date 2015-03-17

Next >    Cancel



The presentation reviews the license and clicks Next to continue.

**Gpg4win Setup**

**License Agreement**

This software is licensed under the terms of the GNU General Public License (GPL).

Press Page Down to see the rest of the agreement.

Gpg4win consist of several independent developed packages, available under different license conditions. Most of these packages however are available under the GNU General Public License (GNU GPL). Common to all is that they are free to use without restrictions, may be modified and that modifications may be distributed. If the source files (i.e. gpg4win-src-x.y.z.exe) are distributed along with the binaries and the use of the GNU GPL has been pointed out, distribution is in in all cases possible.

What follows are the terms of the GNU GPL; for a list of individual copyright and license notices please see the installed README file.

In short: You are allowed to run this software for any purpose. You may distribute it as long as you give the recipients the same rights you have received.

Nullsoft Install System v2.46-7

< Back   Next >   Cancel

The presentation selects the options as shown. The presentation selects Next to continue.

### Gpg4win Setup

**Choose Components**  
Choose which features of Gpg4win you want to install.

Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.

Select components to install:

- GnuPG
- Kleopatra
- GPA
- GpgOL
- GpgEX
- Claws-Mail
- Gpg4win Compendium

Space required: 92.8MB

**Description**

Position your mouse over a component to see its description.

Nullsoft Install System v2.46-7

The presentation selects Next to continue.

### Gpg4win Setup

**Choose Install Location**  
Choose the folder in which to install Gpg4win.

Setup will install Gpg4win in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.

Destination Folder

Space required: 92.8MB  
Space available: 44.1GB

Nullsoft Install System v2.46-7

The selections are a personal choice for this screen. The presentation selects the options as shown. The presentation clicks Next to continue.

### Gpg4win Setup

**Install Options**  
Start links

Please select where Gpg4win shall install links:

- Start Menu
- Desktop
- Quick Launch Bar

(Only programs will be linked into the quick launch bar.)

Nullsoft Install System v2.46-7

< Back   Next >   Cancel

The presentation does not change this screen. The presentation selects Install to continue.

**Gpg4win Setup**

**Choose Start Menu Folder**  
Choose a Start Menu folder for the Gpg4win shortcuts.

Select the Start Menu folder in which you would like to create the program's shortcuts. You can also enter a name to create a new folder.

- 7-Zip
- Accessibility
- Accessories
- Administrative Tools
- Alternate Maintenance
- StartUp
- System Tools
- Tablet PC

Nullsoft Install System v2.46-7

The program is installed. The presentation selects Next to continue.



Kleopatra



Gpg4win Document...

**Gpg4win Setup**

**Installation Complete**  
Setup was completed successfully.

Completed

- Create shortcut: C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Gpg4win...
- Create shortcut: C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Gpg4win...
- Create folder: C:\Users\Public\Desktop\Gpg4win Documentation
- Create shortcut: C:\Users\Public\Desktop\GPA.lnk
- Create shortcut: C:\Users\Public\Desktop\Kleopatra.lnk
- Create shortcut: C:\Users\Public\Desktop\Gpg4win Documentation\Gpg4win README...
- Create shortcut: C:\Users\Public\Desktop\Gpg4win Documentation\Gpg4win HOWTO ...
- Created uninstaller: C:\Program Files (x86)\GNU\GnuPG\gpg4win-uninstall.exe
- Create shortcut: C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Gpg4win...
- Completed

Nullsoft Install System v2.46-7



The presentation chooses not to read the README file. The presentation selects Finish to continue.

Gpg4win Setup

### Completing the Gpg4win Setup Wizard

Gpg4win has been installed on your computer.  
Click Finish to close this wizard.

Show the README file

[Click here for the project's homepage](#)

< Back   **Finish**   Cancel



Kleopatra

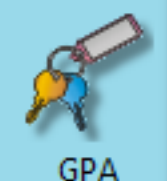


Gpg4win Document...

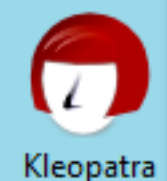




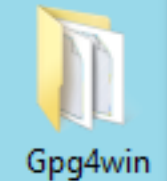
Recycle Bin



GPA



Kleopatra




Gpg4win Document..

https://www.mozilla.org/en-US/thur Mozilla Found... Mozilla Thunderbird Google

# Software made make email eas

Thunderbird is a free email app that's easy to set up and custom it's loaded with great features!



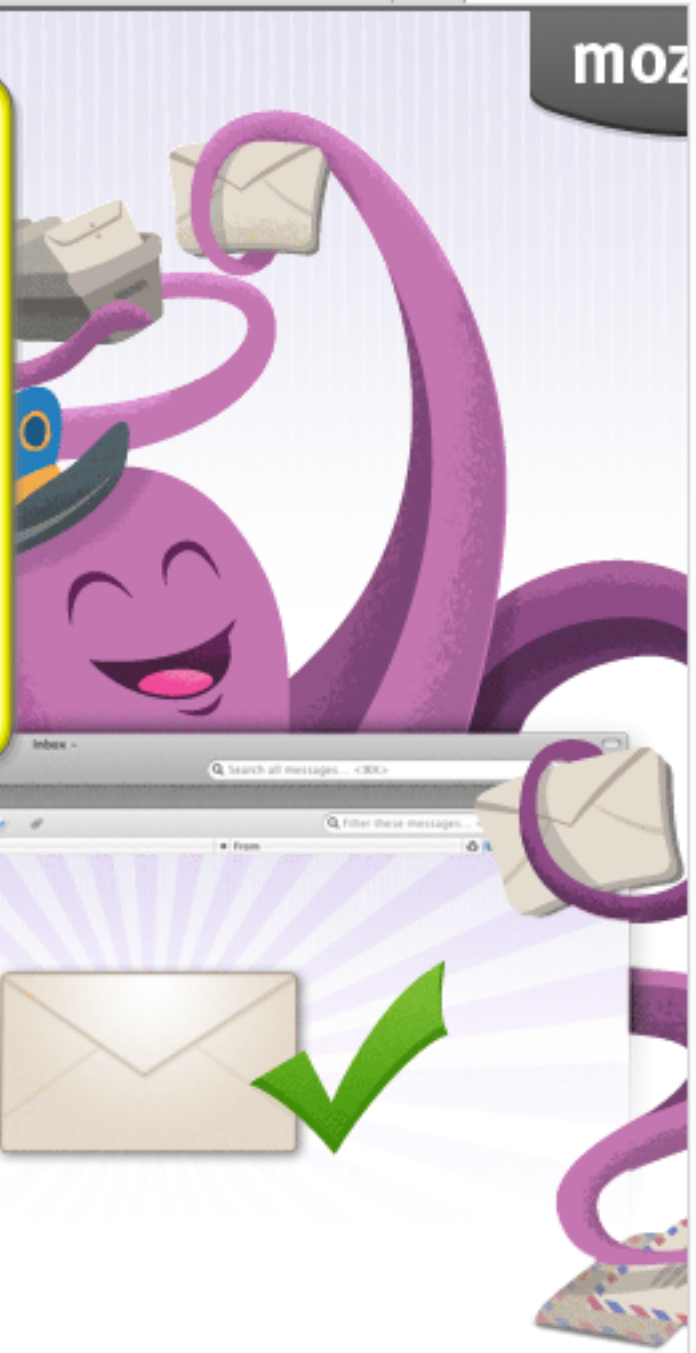
**Thunderbird**  
Free Download  
31.5.0 for Windows, English (US)

Release Notes - Other Systems & Languages

Features | Add-Ons | Support | Community | Organizations | About  
Privacy Policy | Legal Notices  
Copyright © 2005–2015 Mozilla. All rights reserved.

The presentation does not show setup of the gmail account. The gmail account must allow IMAP connections and MSCTC gmail must update the gmail password.

The presentation searches for Thunderbird. The presentation selects the free download button.







https://www.mozilla.org/en-US/thur Mozilla Found... Mozilla Download Google

Thunderbird THUNDERBIRD ADD-ONS SUPPORT COMMUNITY ABOUT moz

# Thanks for choosing THUNDERBIRD!

The presentation watches the download on Thunderbird's how to install screen.

login in a few seconds, but if not, [click](#)

the User

download may

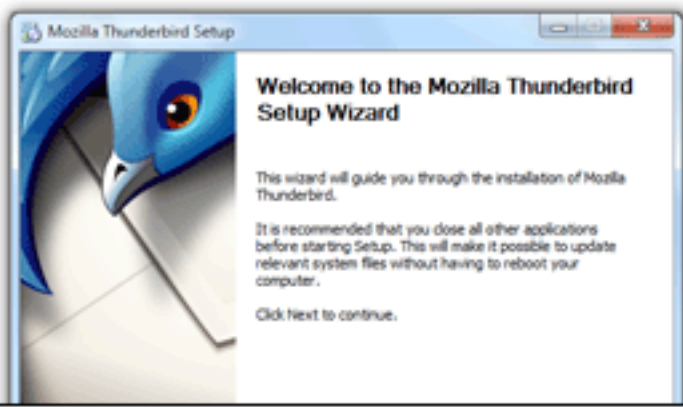
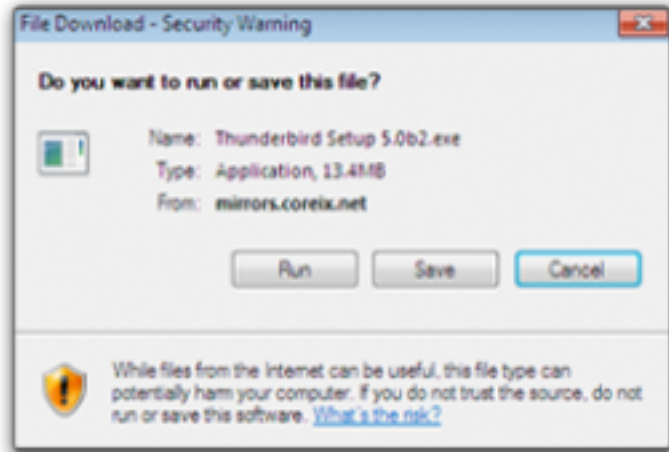
ience... it'll

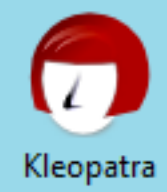
2. Click Run to launch the Thunderbird setup wizard.

Then, just follow the steps (we've made the process as painless as possible).

76% of Thunderbird Setup 31.5.0.exe downloaded 2 sec remaining

Pause Cancel View downloads





Downloads

File Home Share View

This PC > Downloads

Name	Date modified	Type	Size
Thunderbird Setup 31.5.0.exe	3/26/2015 6:26 PM	Application	28,232 KB


1 item

The presentation double clicks on the Thunderbird setup to install Thunderbird.

The presentation gives the Thunderbird Setup permission to make changes.

User Account Control

Do you want to allow the following program to make changes to this computer?

 Program name: Thunderbird Installer  
Verified publisher: **Mozilla Corporation**  
File origin: Hard drive on this computer

Show details

[Change when these notifications appear](#)

The presentation reads the screen and selects Next to continue.

use only)

Mozilla Thunderbird Setup



### Welcome to the Mozilla Thunderbird Setup Wizard

This wizard will guide you through the installation of Mozilla Thunderbird.

It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.

Click Next to continue.

Next > Cancel

Kleopatra

Gpg4win Document...



The presentation selects Standard install and selects Next to continue.

**Mozilla Thunderbird Setup**



Setup Type  
Choose setup options

Choose the type of setup you prefer, then click Next.

- Standard  
Thunderbird will be installed with the most common options.
- Custom  
You may choose individual options to be installed. Recommended for experienced users.

Use Thunderbird as my default mail application

< Back   Next >   Cancel

-  Kleopatra
-  Gpg4win Document...

The presentation selects Install to install Thunderbird.

Rec

Kleopatra

Gpg4win Document...

### Mozilla Thunderbird Setup

...t installing Thunderbird

Thunderbird will be installed to the following location:

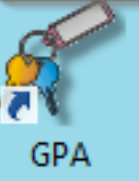
C:\Program Files (x86)\Mozilla Thunderbird

Thunderbird will be set as your default mail application.

Click Install to continue.

< Back Install Cancel

The presentation selects Launch Thunderbird and selects Finish to continue.



GPA



Kleopatra



Mozilla Thunderbird

Mozilla Thunderbird Setup

### Completing the Mozilla Thunderbird Setup Wizard

Mozilla Thunderbird has been installed on your computer.  
Click Finish to close this wizard.

Launch Mozilla Thunderbird now

< Back   Finish   Cancel



The presentation accepts the settings shown. The presentation selects Set as Default to continue.

rd  
new account:

Chat | Newsgroups | Feeds

System Integration

Use Thunderbird as the default client for:

- E-Mail
- Newsgroups
- Feeds
- Allow Windows Search to search messages
- Always perform this check when starting Thunderbird

Set as Default | Skip Integration



### Welcome to Thunderbird

## Would you like a new email address?

In partnership with several providers, Thunderbird can offer you a new email account. Just fill in your first and last name, or any other words you'd like, in the fields above to get started.

...ent to Mozilla ([Privacy Policy](#)) and to 3rd party email providers ([Terms of Service](#)) to find available email addresses.

The presentation selects Skip this and use my existing email.

# Thunderbird

### Mail Account Setup

Your name:  Your name, as shown to others

Email address:

Password:

Remember password

The presentation completes the information as shown. The presentation selects continue to finish.

The presentation sees the setup on gmail is correct for IMAP. The presentation selects Done to continue.

use only)

Book | Tag | Quick Filter | Search... <Ctrl+K>

### Thunderbird

#### Mail Account Setup

Your name:  Your name, as shown to others

Email address:

Password:

Remember password

Configuration found in Mozilla ISP database

IMAP (remote folders)    POP3 (keep mail on your computer)

Incoming: IMAP, imap.googlemail.com, SSL  
Outgoing: SMTP, smtp.googlemail.com, SSL  
Username: tim\_preuss@my.minnesota.edu

ⓘ Mozilla Thunderbird is free and open source software from the non-profit Mozilla Foundation.  

Done

Inbox

Get Messages | Write | Chat | Address Book | Tag | Quick Filter | Search... <Ctrl+K>

tim\_preuss@m...innesota.edu | Unread | Starred | Contact | Tags | Attachment | Filter these messages... <Ctrl+Shift+K>

- Inbox
- Templates
- Trash
- [Gmail]
- Drafts
- Sent Mail
- All Mail
- Spam
- Trash
- Important
- Starred
- Follow up
- Misc
- Priority
- Local Folders
  - Trash
  - Outbox

★	✎	Subject	From	Date
★	✎	Re: MSCTC Information Request		2/24/2015 6:45 PM
★	✎	ndsu trip		3/25/2015 3:09 PM
★	✎	Infromatics Thurs 6-9		4:44 PM

The presentation selects the Inbox. All the current email should appear in the IMAP client. This shows the email client is working.

Mozilla Thunderbird is free and open source software from the non-profit Mozilla Foundation. Know your rights...

Unread: 0 Total: 3

- Inbox
- Templates
- Trash
- [Gmail]
- Drafts
- Sent Mail
- All Mail
- Spam
- Trash
- Important
- Starred
- Follow up
- Misc
- Priority
- Local Folders
  - Trash
  - Outbox

★	✉	Subject
☆	↻	Re: MSCTC Information Request
☆	↻	ndsuh trip
☆		Infromatics Thurs 6-9








The presentation clicks on the three lines, then selects Add-ons.

- New Message
- Attachments
- Activity Manager
- Message Filters
- Add-ons
- Options
- File
- View
- Go
- Message
- Tools
- Help

← → | Search: My Add-ons | **engimail** [Search Icon]

The presentation searches for enigmail Add On.

- Search
- Get Add-ons
- Extensions
- Appearance
- Plugins

Name	Last Updated	Best match
 <b>Enigmail 1.8.1</b>	Thursday, March 26, 2015	<input type="button" value="Install"/>
 <b>X-notifier (for Gmail,Hotmail,Yahoo,AOL ...) 3.5.6</b>	Monday, March 2015	<input type="button" value="Install"/>
 <b>Mail Merge 3.9.1</b>		<input type="button" value="Install"/>
 <b>Mail Redirect 0.8.5</b>		<input type="button" value="Install"/>
 <b>mailmindr 0.7.9</b>		<input type="button" value="Install"/>
 <b>Mailbox Alert 0.16.4</b>	Monday, November 11, 2013	<input type="button" value="Install"/>
 <b>MailHops 0.8.3</b>	Friday, June 27, 2014	<input type="button" value="Install"/>

The presentation selects Install to install the current version of enigmail.








Search

Get Add-ons

Extensions

Appearance

Plugins

Name	Last Updated	Best match
<p>Search: My Add-ons Available Add-ons</p> <p>✓ Enigmail will be installed after you restart Thunderbird. <a href="#">Restart now</a> <a href="#">Undo</a></p>		
 <b>Enigmail 1.8.1</b> OpenPGP message encryption and authentication <a href="#">More</a>	Thursday, March 26, 2015	
 <b>X-notif</b> Notifier for... <a href="#">More</a>	Monday, March 16, 2015	<input type="button" value="Install"/>
 <b>Mail M</b> Mass Mail a...	Saturday, December 6, 2014	<input type="button" value="Install"/>
 <b>Mail Re</b> Allow to rec... <a href="#">More</a>	Tuesday, October 21, 2014	<input type="button" value="Install"/>
 <b>mailmindr 0.7.9</b> Follow up for Thunderbird E-Mails. Lightning or other AddOns are not required. Set a reminde... <a href="#">More</a>	Monday, May 12, 2014	<input type="button" value="Install"/>
 <b>Mailbox Alert 0.16.4</b> Mailbox Alert allows you to specify, for each separate mail folder, a message, sound and/or a s... <a href="#">More</a>	Monday, November 11, 2013	<input type="button" value="Install"/>
 <b>MailHops 0.8.3</b>	Friday, June 27, 2014	

The presentation selects Restart now

- Get Add-ons
- Extension
- Appearance
- Plugins

### Enigmail Setup Wizard

**Welcome to the Enigmail Setup Wizard**

It looks like you started Enigmail for the first time on this computer. In order to use Enigmail, you need to first set it up properly. This assistant can guide you through the setup process.

Do you want to set up Enigmail now, or do you wish to do this later?

Start setup now

Configure Enigmail later

< Back   Next >   Cancel

The presentation selects Start setup now to configure enigmail.

The presentation selects Next to continue.



### Enigmail Setup Wizard

How would you like to Configure Enigmail?

Would you like to setup Enigmail manually, or do you need assistance in the setup process?

- I prefer a standard configuration (recommended for beginners)
- I prefer an extended configuration (recommended for advanced users)
- I prefer a manual configuration (recommended for experts)

< Back   Next >   Cancel

The presentation selects extended configuration option. The presentation selects Next to continue.

### Enigmail Setup Wizard

#### Create or Import OpenPGP Keys

You don't seem to have any OpenPGP keys yet. Would you like to create a new key, or do you want to import keys from a file?

- I want to create a new key pair for signing and encrypting my email
- I have existing public and private keys that I would like to import


< Back   Next >   Cancel


The presentation selects the option to create a new key pair. The presentation selects Next to continue.

Note: Enigmail will download and install pgp4win before this screen if pgp4win is not already installed. You must have pgp4win (really gnupgp) installed to use enigmail.

The presentation carefully reads the screen. The presentation enters the passphrase to use twice, then selects Next to continue.

The presentation carefully reads the screens during key generation.

 Extension

 Appearance

 Plugins

...a pair of two keys:

Your **public key** is **for others** to send you encrypted emails. You can distribute it to everybody.

Your **private key** is **for yourself** to decrypt these emails and to send signed emails. You should give it to nobody.

Your **passphrase** is a password to protect your private key. It prevents misuse of your private key. The passphrase should be a phrase containing at least 8 characters, digits and punctuation marks. Umlauts (e.g. ä, é, ñ) and language-specific characters are **not** recommended.

Account / User ID:

Tim Preuss <tim\_preuss@my.minnesota.edu> - tim\_preuss@my.minnesota.edu

Passphrase

●●●●●●●●

Please confirm your passphrase by typing it again

●●●●●●●●

Passphrase quality:



< Back

Next >

Cancel

Would you like to help improve Mozilla Thunderbird by automatically reporting memory usage, performance, and responsiveness to Mozilla?

[Learn More](#)

Yes

No



6:41 PM  
3/26/2015

The presentation creates a revocation certificate. The presentation enters the newly created passphrase.

use only)

anager x

Search all add-ons

### Enigmail Setup Wizard

ted

sole

**NOTE: Key generation may take up to several minutes to complete.** Do not exit the application while key generation is in progress. Actively browsing or performing disk-intensive operations during key generation will replenish the 'randomness pool' and speed-up the process. You will be alerted when key generation is complete

**Your Key**

In case you don't con  
You will b

Create R

Learn More

others

< Back Next > Cancel

pinentry

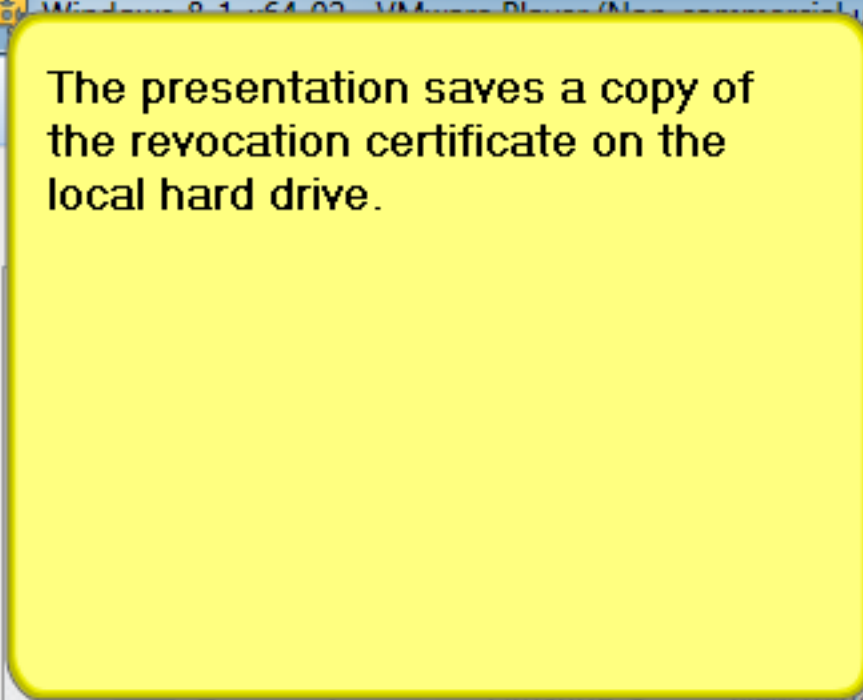
Please enter the passphrase to unlock the secret key for the OpenPGP certificate:  
"Tim Preuss <tim\_preuss@my.minnesota.edu>"  
4096-bit RSA key, ID F67264B0,  
created 2015-03-26.

Passphrase

OK Cancel

Would you like to help improve Mozilla Thunderbird by automatically reporting memory usage, performance, and responsiveness to Mozilla?  
[Learn More](#) Yes No

The presentation saves a copy of the revocation certificate on the local hard drive.



- Extension
- Appearance
- Plugins

### Enigmail Setup Wizard

#### Create & Save Revocation Certificate

Documents > Documents

Name	Date modified	Type
batch_files	3/24/2015 4:58 PM	File folder
Sync02	3/24/2015 4:58 PM	File folder

File name: `tim_preuss@my.minnesota.edu (0xF67264B0) rev.asc`

Save as type: ASCII Armored Files (\*.asc)

Buttons: Save, Cancel

Would you like to help improve Mozilla Thunderbird by automatically reporting memory usage, performance, and responsiveness to Mozilla?  
[Learn More](#) Yes No

The presentation carefully reads the screen and selects OK to continue. The presentation selects Next to continue.

## Enigmail Setup Wizard

**NOTE: Key generation may take up to several minutes to complete.** Do not exit the application while key generation is in progress. Actively browsing or performing disk-intensive operations during key generation will replenish the 'randomness pool' and speed-up the process. You will be alerted when key generation is completed.

### Enigmail Alert



The revocation certificate has been successfully created. You can use it to invalidate your public key, e.g. in case you would lose your secret key.

Please transfer it to a medium which can be stored away safely such as a CD or USB stick. If somebody gains access to this certificate they can use it to render your key unusable.

OK

< Back

Next >

Cancel

Would you like to help improve Mozilla Thunderbird by automatically reporting memory usage, performance, and responsiveness to Mozilla?

[Learn More](#)

Yes

No



6:44 PM  
3/26/2015

### Enigmail Setup Wizard

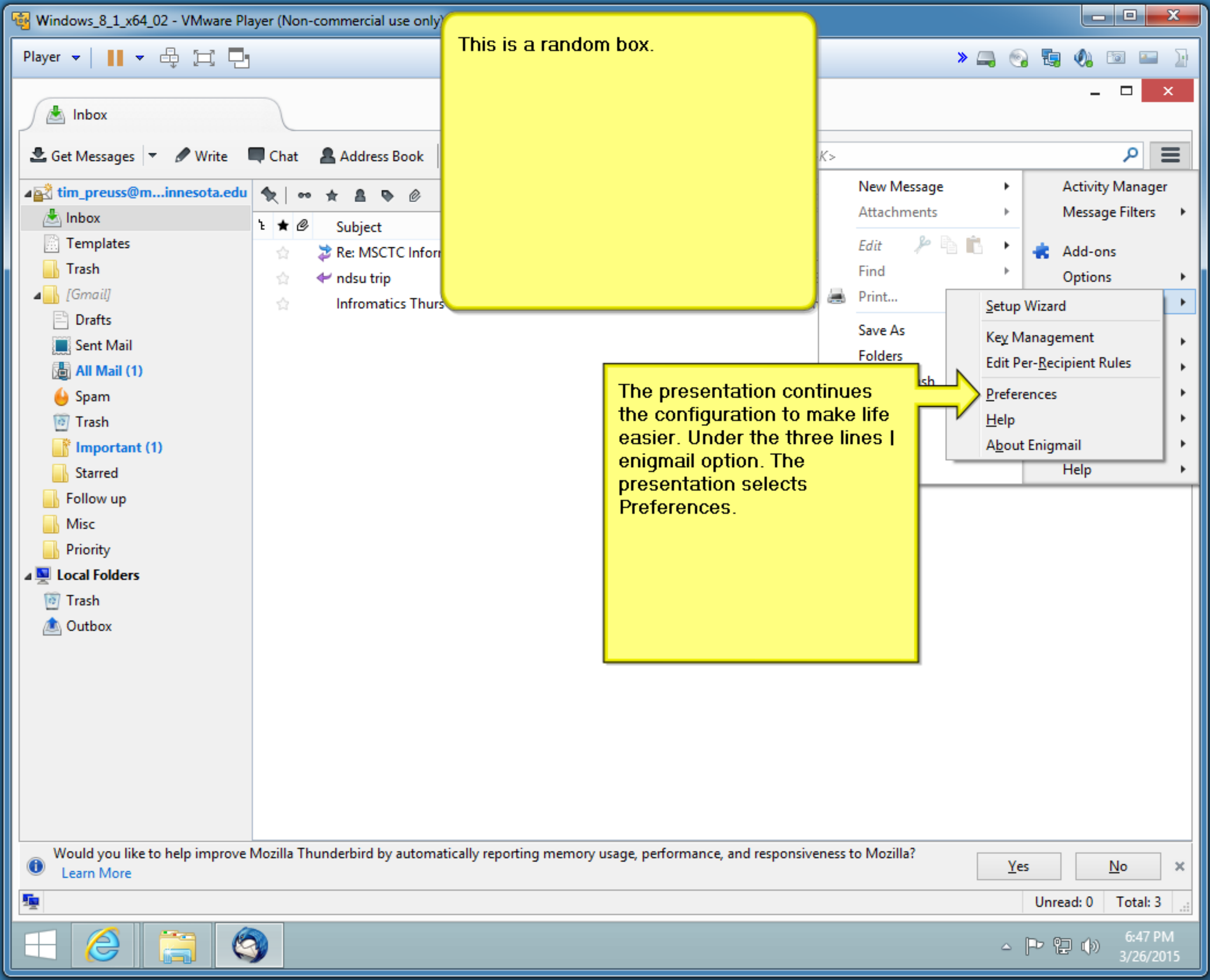
**Thank you**

Enigmail is now ready to use.

Thank you for using Enigmail.

< Back   **Finish**   Cancel

The presentation selects Finish to complete the setup.



This is a random box.

The presentation continues the configuration to make life easier. Under the three lines I enigmail option. The presentation selects Preferences.

Would you like to help improve Mozilla Thunderbird by automatically reporting memory usage, performance, and responsiveness to Mozilla?

Yes

No

Unread: 0 Total: 3

6:47 PM  
3/26/2015



Inbox

Get Messages | Write | Chat

tim\_preuss@m...innesota.edu

- Inbox
- Templates
- Trash
- [Gmail]
- Drafts
- Sent Mail
- All Mail (1)
- Spam
- Trash
- Important (1)
- Starred
- Followed
- Miscellaneous
- Priorities
- Local Folders
- Trash
- Outgoing

### Enigmail Preferences

Basic | Sending

**Basic Settings**

Files and Directories  
GnuPG was found in C:\Program Files (x86)\GNU\GnuPG\pub\pgp2.exe  
 Override with  Browse...

Passphrase settings  
Remember passphrase for  minutes of idle time

Display Expert Settings and Menus

Reset

OK Cancel

The presentation selects Display Expert Settings and Menus.

Date

- 2/24/2015 6:45 PM
- 3/25/2015 3:09 PM
- 4:44 PM

Would you like to help improve Mozilla Thunderbird by automatically reporting memory usage, performance, and responsiveness to Mozilla?  
[Learn More](#) Yes No

Unread: 0 Total: 3

Inbox

Get Messages | Write | Chat

tim\_preuss@m...innesota.edu

- Inbox
- Templates
- Trash
- [Gmail]
- Drafts
- Sent Mail
- All Mail (1)
- Spam
- Trash
- Important (1)
- Starred
- Follow up
- Misc
- Priority
- Local Folders
  - Trash
  - Outbox

### Enigmail Preferences

Basic | Sending | Key Selection | Advanced | **Keyserver**

#### Basic Settings

Filtered Directories

GnuPG\pub\gpg2.exe

of idle time

The presentation selects the keyserver tab.

[Search]

Date

- 2/24/2015 6:45 PM
- 3/25/2015 3:09 PM
- 4:44 PM

Would you like to help improve Mozilla Thunderbird by automatically reporting memory usage, performance, and responsiveness to Mozilla? [Learn More](#)

Unread: 0 Total: 3

Inbox

Get Messages | Write | Chat

tim\_preuss@m...innesota.edu

- Inbox
- Templates
- Trash
- [Gmail]
- Drafts
- Sent Mail
- All Mail (1)
- Spam
- Trash
- Important (1)
- Starred
- Follow up
- Misc
- Priority
- Local Folders
  - Trash
  - Outbox

### Enigmail Preferences

Basic | Sending | Key Selection | Advanced | **Keyserver**

Specify your keyserver(s):

sweden.minnesota.edu, pool.sks-keyservers.net, keys.gnupg.net, pgp.mit.edu

*Example: sks.dnsalias.net, pgp.mit.edu, ldap://certserver.pgp.com*

Automatically download keys for signature verification from the following keyserver:

sweden.minnesota.edu

The presentation adds the sweden.minnesota.edu address as shown. The presentation selects OK to finish.

OK Cancel

[Search]

[Search]

Date

- 2/24/2015 6:45 PM
- 3/25/2015 3:09 PM
- 4:44 PM

Would you like to help improve Mozilla Thunderbird by automatically reporting memory usage, performance, and responsiveness to Mozilla? [Learn More](#) Yes No

Unread: 0 Total: 3

- Inbox
- Templates
- Trash
- [Gmail]
- Drafts
- Sent Mail
- All Mail (1)
- Spam
- Trash
- Important (1)
- Starred
- Follow up
- Misc
- Priority
- Local Folders
  - Trash
  - Outbox

★	✉	Subject
☆	↩	Re: MSCTC Inform
☆	↩	ndsu trip
☆		Infromatics Thurs

This is another random box.

Your text will come here...

- New Message
- Attachments
- Edit
- Find
- Activity Manager
- Message Filters
- Add-ons
- Options

- Decrypt/Verify
- Automatically Decrypt/Verify Messages
- Clear Saved Passphrase
- Reload Message
- Sender's Key
- Key Management
- Manage SmartCard ...
- Edit Per-Recipient Rules
- Preferences
- Help
- Debugging Options
- Setup Wizard
- About Enigmail

Would you like to help improve Mozilla Thunderbird by automatically reporting memory usage, performance, and responsiveness to Mozilla? [Learn More](#) [Yes] [No]

tim\_preuss@my.minnesota.edu is up to date Unread: 0 Total: 3

Inbox

Get Messages | Write | Chat | Address Book | Tag | Quick Filter | Search... <Ctrl+K>

tim\_preuss@m...innesota.edu

- Inbox
- Templates
- Trash
- [Gmail]
- Drafts
- Sent Mail
- All Mail (1)
- Spam
- Trash
- Important (1)
- Starred
- Follow up
- Misc
- Priority
- Local Folders
  - Trash
  - Outbox

### Enigmail Key Management

File Edit View Keyserver Generate

Search for: [ ]  Display All Keys by Default

Name	Key ID
Tim Preuss <tim_preuss@my.minnesota.edu>	F67264B0

The presentation right clicks on the key identification. The presentation selects Upload Public Keys to Keyserver.

- Copy Public Keys to Clipboard
- Export Keys to File
- Send Public Keys by Email
- Upload Public Keys to Keyserver
- Refresh Public Keys From Keyserver
- Sign Key
- Set Owner Trust
- Add to Per-Recipient Rule
- Disable Key
- Revoke Key
- Delete Key
- Manage User IDs
- Change Expiration Date
- Change Passphrase
- Generate & Save Revocation Certificate
- Add Photo
- View Signatures
- View Photo ID
- Key Properties

Inbox

Get Messages | Write | Chat | Address Book | Tag | Quick Filter

Search... <Ctrl+K>

- tim\_preuss@m...innesota.edu
- Inbox
- Templates
- Trash
- [Gmail]
- Drafts
- Sent Mail
- All Mail (1)
- Spam
- Trash
- Important
- Starred
- Follow up
- Misc
- Priority
- Local Folder
- Trash
- Outbox

### Enigmail Key Management

File Edit View Keyserver Generate

Search for: [ ]  Display All Keys by Default

Name	Key ID
Tim Preuss <tim_preuss@my.minnesota.edu>	F67264B0

#### Select Keyserver

Send public key 0xF67264B0 - Tim Preuss <tim\_preuss@my.minnesota.edu> to keyserver:

Keyserver:

OK Cancel

The presentation is ready to upload the public key to sweden.minnesota.edu. The presentation selects OK to continue.

Would you like to help improve Mozilla Thunderbird by automatically reporting memory usage, performance, and responsiveness to Mozilla? [Learn More](#) Yes No

tim\_preuss@my.minnesota.edu is up to date Unread: 0 Total: 3

- Recycle Bin
- Gpg4win Document..
- GPA
- Kleopatra
- Mozilla Thunderbird

http://sweden.minnesota.edu/ Mozilla Download sweden.minnesota.edu

# Minnesota State Community and Technical College MState Information Technology Academic Department Moorhead MN

Welcome to the sweden web site. This site primarily provides instructional support for classes taught at Minnesota State Community and Technical College, Moorhead MN. This site does provide information for selected Minnesota State University Moorhead Information Technology classes. We do have some items that may interest visitors, however no permission is given to damage this site.

The primary class support site is the [brazil web site](#). This site serves as a backup to brazil and support for encryption activities.

Most visitors will find more information about Minnesota State Community and Technical College at <http://www.minnesota.edu> . Additional information about Minnesota State University Moorhead may be found at <http://www.mnstate.edu/> .

- [Class Key Server](#)
- [Fall Classes](#)
- [Spring Classes](#)
- [General Interest](#)

The presentation goes to the web site sweden.minnesota.edu. The presentation selects Class Key Server link.



# SKS OpenPGP Key server MSCTC/MSUM Student Practice Key Server

## Extract a key

You can find a key by typing in some words that appear in the userid (name, email, etc.) of the key you're looking for, or by typing in the keyid in hex format ("0x...")

Search for a public key

String

Show PGP Fingerprints

Show SKS full-key hashes

Get regular index of matching keys

Get verbose index of matching keys

Retrieve ascii-armored keys

Retrieve keys by full-key hash

The presentation enters the name on the key into the box.

## Submit a key

Once the name is entered, the presentation selects Search for a key.





## Search results for 'preuss'

Type	bits/keyID	cr. time	exp time	key expir
pub	3072D/ <a href="#">83D3970B</a>	2014-08-03		
uid	<a href="#">Tim Preuss &lt;timpreuss@my.minnesota.edu&gt;</a>			
sig	sig3 <a href="#">83D3970B</a>	2014-08-03		2015-08-03 [ <a href="#">selfsig</a> ]
		2014-08-03		
		2014-08-03		2015-08-03 [ <a href="#">]</a>
		2014-08-03		
	<a href="#">preuss@mnstate.edu</a>	2014-08-03		2015-08-03 [ <a href="#">selfsig</a> ]
		2014-08-03		
		2014-08-03		2015-08-03 [ <a href="#">]</a>

This is an example results of a search for preuss.

Selecting the link shown will show the public key.

- Recycle Bin
- Gpg4win Document..
- GPA
- Kleopatra
- Mozilla Thunderbird

http://sweden.minnesota.edu:11371/pks/lookup?op=get Mozilla Download Public Key Server -- Ge...

# Public Key Server -- Get "0x5930f97b83d3970b "

-----BEGIN PGP PUBLIC KEY BLOCK-----  
 Version: SKS 1.1.5  
 Comment: Hostname: sweden

mQSuBFPeKo4RDADecfxpQxQv8fphkXGgyHKQHyH7ShltYG29ch5I2GgcD0tw2vcYaf1D2rkr  
 +pT1oVXCvk6rTuHdcFaJsEitnANAQLrSLzCh7ECJwB52bNgGm8s891faws+akGbJxH7T1/fb  
 HwsIzQCnzE4Zr+Pfv6G1B6OZL3N00Fo7529MvfXLZw8TVint9J5ZSb7M25o5LynRJE5Dn8w8  
 v1N1eAVY7ZuB7dGHp5s7/Pbz8unmaKfGU1Pa/feK5D1YwK5BCFNCCYj2mRh+t0APezTqz9ya  
 jceZovTztFZQvtm5LXVv4pg6VfJmucw6AoUhLmT85AIuGNDZiZaIiYMMj0TdPiTWvKX2pS1R  
 RJC11J1kVYXqr6MfMK0/40fdjGNGr7ku1Vtdelox8Q21KbgoXWLIJCuiamT5amiib4Puynd1M  
 x2A1BxNIGtAj8BVhFhyD5113ZhnG...YAp  
 MXkYnwOQPeP2GIHad3ITPnsBAIra.../4g  
 9EE+14xZaoTwGEc0BDp7m+QXirIG...4cI  
 dDhIRvumKvBScP/kku5Br7ay4cHu...ob6  
 J5L1YkCGII018jU57+Fm2MqbyuBw...YTL  
 OX2zbMwTOY3wZTqZnVBUVXdSF7JA...Yj9  
 bI7kSh6x6h/RDdc2KCzOr1naf/q/...3Z7  
 tdZMXCY1JYiFzVkrJ0XZhlG/PqYa...fS5  
 Oq1JUbyBS/oYmxFuOeDViT3aa6xu.../RS  
 GDwN72oL/21Czg1usqPb1L1/LBub...aiz  
 Yz5GPVAIOyke6wYfUqn2cPkKKvgc...3rV  
 LYgJr1OSrE0sWBuwRY2vdJ1UyG25...6fX  
 fTnohxAXPzrTJ66P+XNAAwPSPaY1...SE4  
 jjes5Zv2ayQ0tdqvW6SOUBWxKpq8...5Kh  
 xC1PjK8mEU6PE89UQajCIx+014CC...kWR  
 Z6u8wIeqBOxFDYZhhRK8GWFw81tT...5Jr  
 hsNvHGB8c3xvos6nJLQoVGltIFBy2...ZWR1  
 PoiBBMRCAApBQJT3pKOAhsjBQkB4TOABwsJCAcDAgEGFQgCCQoLBBYCAwECHgECF4AACgkQ  
 WTD5e4PT1wsKuAD+OsiqLX9GJpYPd+OBdjdP1fQ8xJvV0Jgu/dwDPFhON6IA/AgUWuynSqL3  
 z8+ufQxq4P+gISi+vR5sUC40/yS4vsgZuQMNBFPeko4QDADIUK0ICFnrAImZH8k05pnDP9mB  
 eUM1q0fW5085Ak17+fWYCwb+ETXJ8ubnWhUAF2YnCFnnvzWHRb0WeagJrd5mpbb2AL9VCvwa  
 vABjzBa4QGrBa/ax0QZ2c0UIIi00mX1LH4o0+otg6nqibTAPKK7vC8AzTFz7ERi0W3pzYrxe  
 bP35G1k01ZcnHO93vbapdt75nzzh518080KB8U+ciPFw/Os3Y1jym6WabmOP+u++iqeaNxc  
 boEiYM+5aRSbcWJuVgoa+p6eUDujcMONJqWhN5L130cU00xTmYD66XfF1Tj9t+1f6GugEZFm  
 yAR4C0X53PYDyDV3bd26q5sAgzva50HRseOeIB2WzLfxhbgTCEBhKTDt2GHbYXELc+fSJPaw  
 cNA28A+oONmPyDtPLbbrRmsG9qIDfHO309nB+478zpFvc4rVW2x8zpVgMK1im1+aClarLXvy  
 ZiWAsURzLXXBSfLteaEG4rcaaDADPJsDRJfQTq/aTsM3XvaivF/jBPsAAwUMAjlwp9tPuMSY

This is a partial listing of a public key from the key server.

Note: All keys are deleted from the class key each semester.

Note: Public key servers on the Internet do not delete keys ever, as of this writing.