

## Microsoft Windows 10 Thunderbird's Enigmail Installation

This is an installation of Mozilla Thunderbird's Enigmail on Windows 10. Thunderbird must be installed and properly working before installing Enigmail.

Operation System: Microsoft Windows 10 (Fall 2017 Creator Update)

Software: Thunderbird 52.4.0

Software: Thunderbird Enigmail 1.9.8.3

Preuss

10/27/2017



Recycle Bin

The presentation starts Windows 10.

Inbox

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

Search <Ctrl+K>

tim.preuss02@gmail.com

Inbox

- [Gmail]
- Drafts
- Sent Mail
- All Mail
- Spam
- Trash
- Important
- scuba
- Starred
- Templates
- Local Folders
  - Trash
  - Outbox

Filter these messages <Ctrl+Shift+K>

Subject	Correspondents	Date
SANS / REN-ISAC Summer 2017 Progra...	SANS Organizer 20	5/15/2017 12:20 PM
Communications of the ACM, October...	Communications of the ACM Di...	9/26/2017 11:38 A...
Fwd: OUCH! October 2017	Brenda-Tim Preuss	10/4/2017 8:33 AM
Fwd: @RISK: The Consensus Security V...	Brenda-Tim Preuss	10/19/2017 8:32 A...
Re: Possible Visit	Mary Kay Johnson	10/19/2017 12:43 ...
November 15 Jonas Boner Talk on Rea...	ACM Learning Center	10/19/2017 1:00 PM
Re: [advisory-board-open] SOC physic...	Dennis Chow	10/19/2017 9:26 PM
	afi	10/20/2017 10:13 ...
	n bradley	10/20/2017 10:46 ...
	s Sanderlin	10/20/2017 10:46 ...
	M TechNews	10/20/2017 10:54 ...
	en Touche	10/20/2017 12:27 ...
	nda-Tim Preuss	10/20/2017 12:48 ...
	eilly Systems Engineering & ...	10/20/2017 5:46 PM
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	M TechNews	10/23/2017 10:53 ...
	mmunications of the ACM Di...	10/25/2017 7:00 A...
	M TechNews	10/25/2017 11:14 ...
Re: [advisory-board-open] M&A Securi...	don m.	5:48 AM
Re: [advisory-board-open] M&A Securi...	Chris Clymer	10:28 AM

The presentation starts Thunderbird.

Events

26 Thu Oct 2017 CW 43

New Event

- Today
- Tomorrow
- Upcoming (5 days)

Thunderbird now contains calendaring functionality by integrating the Lightning extension. [Learn more] [Disable] [Keep]

Unread: 0 Total: 22 [26] Today Pane

Inbox

Get Messages | Write | Chat | Address Book | Tag

tim.preuss02@gmail.com

Inbox

- [Gmail]
- Drafts
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Events

- New Message >
- Attachments >
- Edit >
- Find >
- Print... >

- Activity Manager
- Message Filters >
- Add-ons
- Op...
- File
- Tasks >

The presentation selects the three lines for the menu.

The presentation selects the "Add-Ons" option.

Inbox

Get Add-ons

Extensions

Appearance

**Plugins**

Add-ons Manager

enigmail

The "Plugins" options allows the presentation to search for "enigmail". The presentation selects the magnifying glass icon to search.

The presentation selects the "Plugins" option.

...y add-ons of this type installed

...more about add-ons

Events

26 Thu

Oct 2017 CW 43

New Event

Today

Tomorrow

Upcoming (5 days)



Inbox

← →

Search

Get Add-ons

Extensions

Appearance

Plugins

Add-ons Manager

enigmail

Name Last Updated Best match

Search:  My Add-ons  Available Add-ons

	<b>Enigmail</b> OpenPGP message encryption and authenticati...	October 3, 2017 <a href="#">More</a>	<input type="button" value="Install"/>
	<b>Mail Merge</b> Mass Mail and Pe	September 2, 2017	<input type="button" value="Install"/>
	<b>Mail Redirect</b> Allow to redirect		<input type="button" value="Install"/>
	<b>EditEmailSubjec</b> This module allow		<input type="button" value="Install"/>
	<b>Expression Search</b> Powerful message		<input type="button" value="Install"/>
	<b>Mail Summaries</b> Adds a summary of mail accounts and folders t...	April 6, 2017 <a href="#">More</a>	<input type="button" value="Install"/>
	<b>Get Selected Mails</b> Gets new messages for selected mail accounts.	October 3, 2017 <a href="#">More</a>	<input type="button" value="Install"/>

[See all 177 results](#)

Events

26 Thu  
Oct 2017 CW 43

New Event

Today

Tomorrow

Upcoming (5 days)

The presentation selects "Install" to install Enigmail within Thunderbird.

Thunderbird now contains calendaring functionality by integrating the Lightning extension. [Learn more](#)

Inbox

← →

Search

Get Add-ons

Extensions

Appearance

Plugins

Add-ons Manager

enigmail

Name Last Updated Best match ▾

Search:  My Add-ons  Available Add-ons

✓ Enigmail will be installed after you restart Thunderbird. [Restart now](#) [Undo](#)

Name	Last Updated	Best match ▾
<b>Enigmail</b> OpenPGP message encryption and authentication <a href="#">More</a>	October 26, 2017	<a href="#">Install</a>
<b>Mail M</b> Mass M		<a href="#">Install</a>
<b>Mail R</b> Allow t		<a href="#">Install</a>
<b>EditEn</b> This m		<a href="#">Install</a>
<b>Expres</b> Powerful message searching through expressio... <a href="#">More</a>		<a href="#">Install</a>
<b>Mail Summaries</b> Adds a summary of mail accounts and folders t... <a href="#">More</a>	April 6, 2017	<a href="#">Install</a>
<b>Get Selected Mails</b> Gets new messages for selected mail accounts. <a href="#">More</a>	October 3, 2017	<a href="#">Install</a>

[See all 177 results](#)

Events

26 Thu  
Oct 2017 CW 43

New Event

Today

Tomorrow

Upcoming (5 days)

The presentation selects "Restart now" to finish the enigmail installation.



Inbox

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

26 Thu Oct 2017 CW 43

- tim.preuss02@gmail.com
- Inbox
- Templates
- [Gmail]
- Drafts
- Sent Mail
- All Mail (4)
- Spam
- Trash
- Important (4)
- scuba
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The presentation returns to the main received email screen in Thunderbird.

In many cases, the Enigmail Setup Wizard will start. Please go to slide/page 11 to continue with setup.

New Event

- Today
- Tomorrow
- Upcoming (5 days)

Thunderbird now contains calendaring functionality by integrating the Lightning extension.

Learn more Disable Keep

Unread: 0 Total: 22 [26] Today Pane ▾



Inbox

Get Messages | Write | Chat | Address Book | Tag

tim.preuss02@gmail.com

Inbox

- Templates
- [Gmail]
- Drafts
- Sent Mail
- All Mail (4)
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- Important (4)
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Events

- New Message >
- Attachments >
- Edit [Icons] >
- Find >
- Print... >
- Save As >
- Folders >

- Activity Manager
- Message Filters >
- Add-ons
- Options >
- Enigmail >
- File >
- View >
- Tasks >

The presentation selects the three lines for the menu.

The presentation selects the "Enigmail" option on the menu.

Inbox

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

Events [Navigation]

- tim.preuss02@gmail.com
- Inbox
- Templates
- [Gmail]
- Drafts
- Sent Mail
- All Mail (4)
- Spam
- Trash
- Important (4)
- scuba
- Starred
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Filter these messages <Ctrl+Shift+K>

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The presentation selects "Setup Wizard" to begin.

- New Message >
- Attachments >
- Edit [Icons] >
- Find >
- Activity Manager
- Message Filters >
- Add-ons
- Options >
- Setup Wizard
- Decrypt to folder >
- Key Management >
- Edit Per-Recipient Rules >
- Preferences >
- Help >
- About Enigmail >
- Help

Inbox

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

tim.preuss02@gmail.com

Inbox | Templates | [Gmail] | Drafts | Sent Mail | All Mail (4) | Spam | Trash | Important (4) | scuba | Starred

Local Folders | Trash | Outbox

Subject | Correspondents | Date

Filter these messages <Ctrl+Shift+K>

26 Thu Oct 2017 CW 43

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

Thunderbird now contains calendaring functionality by integrating the Lightning extension. [Learn more] [Disable] [Keep]

Unread: 0 | Total: 22 | [26] Today Pane

The presentation selects "I prefer a standard configuration (recommended for beginners)".

The presentation selects "Next" to continue.



The presentation enters a passphrase. Notes about passphrases,

1. Passphrases must be very long.
2. Passphrases must be memorized or put in an encrypted password safe.

You must not forget your passphrase!

The presentation selects "Next" to continue.

pair of two keys:

ers to send you encrypted emails. You can distribute it to everybody.

yourself to decrypt these emails and to send signed emails. You should give it to nobody.

word to protect your private key. It prevents misuse of your private key. The passphrase

aining at least 8 characters, digits and punctuation marks. Umlauts (e.g. ä, é, ñ) and

ters are **not** recommended.

Tim Preuss <tim.p...ss02@gmail.com> - tim.preuss02@gmail.com

Passphrase

.....

Please confirm your passphrase by typing it again

.....

Passphrase quality:

██████████

< Back | Next > | Cancel

(5 days)



Start | Search or enter web address

Command Prompt

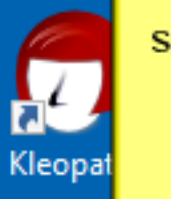
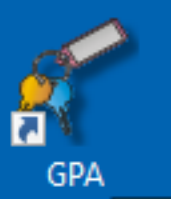
```
C:\Users\preuss>dir * /S
```

The presentation uses the command prompt and the command "dir \* /S" as shown. This will create disk activity for random key generation.

This is not the only way to generate disk activity for random key generation.

< Back | Next > | Cancel | Feedback





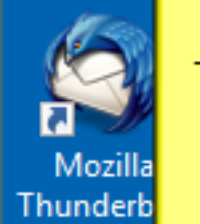
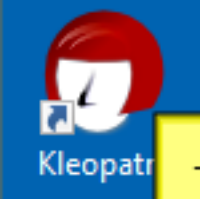
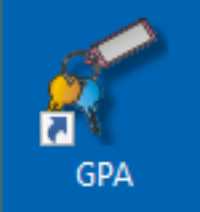
### Enigmail Setup Wizard

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 slow down the process. You will be alerted when key generation is complete.

In case your private key gets lost or compromised, you might need to revoke your public key such that others don't continue to use your old key. For this purpose, you need a revocation certificate. You will be prompted to enter your password for this.

< Back   Next >   Cancel

After the keys are generated, the presentation selects "Create Revocation Certificate".



Enigmail Setup Wizard

Create & Save Revocation Certificate

This PC > Documents

Search Documents

No items match your search.

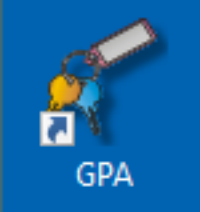
File name: tim.preuss02@gmail.com (0x4D39D2E7) rev

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

Save Cancel

The presentation saves the revocation certificate on the local drive in a secure location.

The presentation selects "Save" to continue.



Enigmail Setup Wizard

After reading the text, the presentation selects "OK".

Search Documents

Date modified	Type
039D2E7) r... 10/26/2017 11:42 ...	CMS (S/M

Created. You can use it to invalidate your public 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, it can use it to render your key unusable.

OK

This PC

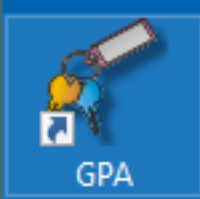
File name: tim.preuss02@gmail.com (0x4D39D2E7) rev

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

Hide Folders

Save Cancel

< BACK NEXT > Cancel



### Enigmail Setup Wizard

#### Key Creation

Your key is now being generated

Key Generation Console

**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.

[Progress Bar]

#### Your Key is Generated

In case your private key gets lost, you should create a revocation certificate. This certificate can be used to inform others that your key is no longer valid. You will be prompted to enter your passphrase when you create a revocation certificate.

[ < Back ] [ Next > ] [ Cancel ]

After saving the revocation certificate, the presentation selects "Next" to continue.

Inbox

Get Messages | Write | Chat | Address Book | Tag

tim.preuss02@gmail.com

Inbox

- Templates
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- File >
- View >
- Tasks >

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Re: [advisory-board-open] Linux and A...	Julien Touche	
Fwd: SANS NewsBites Vol. 19 Num. 083...	Brenda-Tim Preuss	
Kubernetes, more Kubernetes, and Kub...	O'Reilly Systems Engine	
Re: [advisory-board-open] Linux and A...	john bradley	
Re: [advisory-board-open] BYOD policy	Neely, Lee	
Re: [advisory-board-open] BYOD policy	Frank Kraft	
ACM TechNews, Monday, October 23, ...	ACM TechNews	
Communications of the ACM, October...	Communications of the	
ACM TechNews, Wednesday, October ...	ACM TechNews	
Re: [advisory-board-open] M&A Securi...	don m.	5:48 AM
Re: [advisory-board-open] M&A Securi...	Chris Clymer	10:28 AM

- New Message >
- Attachments >
- Edit >
- Find >
- Print...
- Save As
- Folders
- Empty Trash
- Activity Manager
- Message Filters >
- Add-ons
- Options >
- Setup Wizard
- Decrypt to folder >
- Key Management >
- Edit Per-Recipient Rules >
- Preferences >
- Ab Enigmail >
- Help >

The presentation selects "Preferences".

### Enigmail Preferences

Basic | Sending | Backup/Restore

#### Basic Settings

##### Files and Directories

GnuPG was found in C:\Program Files (x86)\Gpg4win\..\GnuPG\bin\gpg.ex...

Override with

##### Passphrase settings

Remember passphrase for  minutes of idle time

The presentation selects "Display Expert Settings and Menus".

Search <Ctrl+K>

these messages <Ctrl+Shift+K>

Correspondents	Date
SANS Organizer 20	5/15/2017 12:20 PM
Communications of the ACM Di...	9/26/2017 11:38 A...
Brenda-Tim Preuss	10/4/2017 8:33 AM
Brenda-Tim Preuss	10/19/2017 8:32 A...
Mary Kay Johnson	10/19/2017 12:43 ...
Center	10/19/2017 1:00 PM
	10/19/2017 9:26 PM
	10/20/2017 10:13 ...
	10/20/2017 10:46 ...
	10/20/2017 10:46 ...
ws	10/20/2017 10:54 ...
	10/20/2017 12:27 ...
reuss	10/20/2017 12:48 ...
ms Engineering & ...	10/20/2017 5:46 PM
	10/20/2017 6:35 PM
	10/20/2017 8:51 PM
	10/20/2017 10:26 ...
ws	10/23/2017 10:53 ...
Communications of the ACM Di...	10/25/2017 7:00 A...
ACM TechNews	10/25/2017 11:14 ...
don m.	5:48 AM
Chris Clymer	10:28 AM

Events

**26 Thu**  
Oct 2017 CW 43

New Event

- Today
- Tomorrow
- Upcoming (5 days)

Thunderbird now contains calendaring functionality by integrating the Lightning extension.

tim.preuss02@gmail.com is up to date

Unread: 0 Total: 22 Today Pane

Enigmail Preferences

Basic Sending Key Selection Advanced **Keyserver**

Specify your keyserver(s):

pool.sks-keyserver.net, keys.gnupg.net, pgp.mit.edu

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

Always use first keyserver

Automatically download keys for signature verification from the following keyserver:

[Empty text box]

The presentation selects the "Keyserver" tab.

OK Cancel

- john bradley
- Russ Sanderlin
- ACM TechNews
- Julien Touche
- Brenda-Tim Preuss
- O'Reilly Systems Engineering & ...
- john bradley
- Neely, Lee
- Frank Kraft
- ACM TechNews
- Communications of the ACM Di...
- ACM TechNews
- don m.
- Chris Clymer

[Search bar]

Events

26 Thu Oct 2017 CW 43

New Event Today Tomorrow Upcoming (5 days)

Date	
5/15/2017 12:20 PM	
9/26/2017 11:38 A...	ACM Di...
10/4/2017 8:33 AM	
10/19/2017 8:32 A...	
10/19/2017 12:43 ...	
10/19/2017 1:00 PM	
10/19/2017 9:26 PM	
10/20/2017 10:13 ...	
10/20/2017 10:46 ...	
10/20/2017 10:46 ...	
10/20/2017 10:54 ...	
10/20/2017 12:27 ...	
10/20/2017 12:48 ...	
10/20/2017 5:46 PM	
10/20/2017 6:35 PM	
10/20/2017 8:51 PM	
10/20/2017 10:26 ...	
10/23/2017 10:53 ...	
10/25/2017 7:00 A...	
10/25/2017 11:14 ...	
5:48 AM	
10:28 AM	

Thunderbird now contains calendaring functionality by integrating the Lightning extension.

Learn more Disable Keep

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Unread: 0 Total: 22 Today Pane



### Enigmail Preferences

- Basic
- Sending
- Key Selection
- Advanced
- Keyserver**
- Backup/Restore

Specify your keyserver(s):

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

Always use first keyserver

Automatically download keys for signature verification from the following keyserver:

OK Cancel

Thunderbird interface showing a list of correspondents and messages. The list includes:

Correspondents	Date
SANS Organizer 20	5/15/2017 12:20 PM
Communications of the ACM Di...	9/26/2017 11:38 A...
Brenda-Tim Preuss	10/4/2017 8:33 AM
Brenda-Tim Preuss	10/19/2017 8:32 A...
Mary Kay Johnson	10/19/2017 12:43 ...
Communications of the ACM Di...	10/25/2017 7:00 A...
ACM TechNews	10/25/2017 11:14 ...
don m.	5:48 AM
Chris Clymer	10:28 AM

Calendar view on the right shows: 26 Thu Oct 2017 CW 43. Today pane includes: Today, Tomorrow, Upcoming (5 days).

The presentation adds the FQDN address "sweden.minnesota.edu" to the line "Specify your keyserver (s) :" and "Automatically download keys for signature verification from the following keyserver:". This will make things easier for you.

Please make your "keyserver" tab as shown for M State classes.

Please go to the next slide/page.

Thunderbird now contains calendaring functionality by integrating the Lightning extension.

Learn more Disable Keep

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Unread: 0 Total: 22 Today Pane

### Enigmail Preferences

Basic **Sending** K

#### General Preferences for

- Convenient encryption
- Manual encryption settings

Encrypt/sign replies

Automatically send encrypted

- Never
- If possible

To send encrypted, accept

- Only trusted keys
- All usable keys

Confirm before sending

- Never
- Always
- If encrypted
- If unencrypted
- If rules changed the default encryption setting

See also account specific Enigmail settings (see Account Settings -> OpenPGP Security)

OK Cancel

The presentation selects the "Sending" tab. The presentation selects "Manual encryption settings".

The presentation selects "OK" to continue.

Search <Ctrl+K>

these messages <Ctrl+Shift+K>

Correspondents	Date
SANS Organizer 20	5/15/2017 12:20 PM
Communications of the ACM Di...	9/26/2017 11:38 A...
Brenda-Tim Preuss	10/4/2017 8:33 AM
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Mary Kay Johnson	10/19/2017 12:43 ...
ACM Learning Center	10/19/2017 1:00 PM
Dennis Chow	10/19/2017 9:26 PM
F Rafi	10/20/2017 10:13 ...
john bradley	10/20/2017 10:46 ...
Russ Sanderlin	10/20/2017 10:46 ...
ACM TechNews	10/20/2017 10:54 ...
Julien Touche	10/20/2017 12:27 ...
Brenda-Tim Preuss	10/20/2017 12:48 ...
O'Reilly Systems Engineering & ...	10/20/2017 5:46 PM
john bradley	10/20/2017 6:35 PM
Neely, Lee	10/20/2017 8:51 PM
Frank Kraft	10/20/2017 10:26 ...
ACM TechNews	10/23/2017 10:53 ...
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ACM TechNews	10/25/2017 11:14 ...
don m.	5:48 AM
Chris Clymer	10:28 AM

Events

26 Thu Oct 2017 CW 43

New Event Today Tomorrow Upcoming (5 days)

Thunderbird now contains calendaring functionality by integrating the Lightning extension.

Learn more Disable Keep

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Unread: 0 Total: 22 Today Pane



Inbox

Get Messages | Write | Chat | Address Book | Tag

tim.preuss02@gmail.com

Inbox

- Templates
- [Gmail]
- Drafts
- Sent Mail
- All Mail (4)
- Spam
- Trash
- Important (4)
- scuba
- Starred
- Local Folders
  - Trash
  - Outbox

★	Subject	From	Date
☆	SANS / REN-ISAC Summer 2017 Progra...	SANS Organizer 20...	5/15/2017 1...
☆	Communications of the ACM, October...	Communications of the ACM Di...	9/26/2017 1...
☆	Fwd: OUCH! October 2017	Brenda-Tim Preuss	10/4/2017 8...
☆	Fwd: @RISK: The Consensus Security V...	Brenda-Tim Preuss	10/19/2017
☆	Re: Possible Visit	Mary Kay Johnson	10/19/2017
☆	November 15 Jonas Boner Talk on Rea...	ACM Learning Center	
☆	Re: [advisory-board-open] SOC physic...	Dennis Chow	
☆	Re: [advisory-board-open] Linux and A...	F Rafi	
☆	Re: [advisory-board-open] Threat Mod...	john bradley	
☆	Re: [advisory-board-open] Threat Mod...	Russ Sanderlin	
☆	ACM TechNews, Friday, October 20, 20...	ACM TechNews	
☆	Re: [advisory-board-open] Linux and A...	Julien Touche	
☆	Fwd: SANS NewsBites Vol. 19 Num. 083...	Brenda-Tim Preuss	
☆	Kubernetes, more Kubernetes, and Kub...	O'Reilly Systems Engineering & ...	
☆	Re: [advisory-board-open] Linux and A...	john bradley	
☆	Re: [advisory-board-open] BYOD policy	Neely, Lee	10/20/2017 10:26 ...
☆	Re: [advisory-board-open] BYOD policy	Frank Kraft	10/20/2017 10:26 ...
☆	ACM TechNews, Monday, October 23, ...	ACM TechNews	10/23/2017 10:53 ...
☆	Communications of the ACM, October...	Communications of the ACM Di...	10/25/2017 7:00 A...
☆	ACM TechNews, Wednesday, October ...	ACM TechNews	10/25/2017 11:14 ...
☆	Re: [advisory-board-open] M&A Securi...	don m.	5:48 AM
☆	Re: [advisory-board-open] M&A Securi...	Chris Clymer	10:28 AM

Events

- New Message >
- Attachments >
- Edit >
- Find >
- Print... >
- Save As >
- Folders >

- Activity Manager
- Message Filters >
- Add-ons
- Options >
- Enigmail >
- File >
- View >
- Tasks >

The presentation selects the three lines for the menu.

The presentation selects the "Enigmail" option on the menu.

- tim.preuss02@gmail.com
  - Inbox
  - Templates
  - [Gmail]
  - Drafts
  - Sent Mail
  - All Mail (4)
  - Spam
  - Trash
  - Important (4)
  - scuba
  - Starred
  - Local Folders
    - Trash
    - Outbox

Filter these messages <Ctrl+Shift+K>

Subject	Correspondents	Date
SANS / REN-ISAC Summer 2017 Progra...	SANS Organizer 20	5/15/2017 1
Communications of the ACM, October...	Communications of the ACM Di...	9/26/2017 1
Fwd: OUCH! October 2017	Brenda-Tim Preuss	10/4/2017 8
Fwd: @RISK: The Consensus Security V...	Brenda-Tim Preuss	10/19/2017
Re: Possible Visit	Mary Kay Johnson	10/19/2017
November 15 Jonas Boner Talk on Rea...	ACM Learning Center	10/19/2017
Re: [advisory-board-open] SOC physic...	Dennis Chow	10/19/2017
Re: [advisory-board-open] Linux and A...	F Rafi	10/20/2017
Re: [advisory-board-open] Threat Mod...	john bradley	10/20/2017
Re: [advisory-board-open] Threat Mod...	Russ Sanderlin	10/20/2017
ACM TechNews, Friday, October 20, 20...	ACM TechNews	10/20/2017 10:54 ...
Re: [advisory-board-open] Linux and A...	Julien Touche	10/20/2017 12:27 ...
Fwd: SANS NewsBites Vol. 19 Num. 083...	Brenda-Tim	
Kubernetes, more Kubernetes, and Kub...	O'Reilly Syst	
Re: [advisory-board-open] Linux and A...	john bradley	
Re: [advisory-board-open] BYOD policy	Neely, Lee	
Re: [advisory-board-open] BYOD policy	Frank Kraft	
ACM TechNews, Monday, October 23, ...	ACM TechN	
Communications of the ACM, October...	Communica	
ACM TechNews, Wednesday, October ...	ACM TechN	
Re: [advisory-board-open] M&A Securi...	don m.	
Re: [advisory-board-open] M&A Securi...	Chris Clyme	

- New Message >
- Attachments >
- Edit >
- Find >
- Decrypt/Verify
- Automatically Decrypt/Verify Messages
- Clear Saved Passphrase
- Reload Message
- Sender's Key >
- Decrypt to folder >
- Key Management
- Manage SmartCard ...
- Edit Recipient Rules

The presentation selects "Key Management".

### Enigmail Key Management

File Edit View Keyserver Generate

Search for: [input]  Display All Keys by Default

Name	Key ID
> Tim Preuss <tim.preuss02@gmail.com>	4D39D2E7

This represents the keys generated by Enigmail using gnupg.

- ☆ Re: [advisory-board-open] Linux and A... • john bradley
- ☆ Re: [advisory-board-open] BYOD policy • Neely, Lee
- ☆ Re: [advisory-board-open] BYOD policy • Frank Kraft
- ☆ ACM TechNews, Monday, October 23, ... • ACM TechNews
- ☆ Communications of the ACM, October... • Communications of the ACM Di...
- ☆ ACM TechNews, Wednesday, October ... • ACM TechNews
- ☆ Re: [advisory-board-open] M&A Securi... • don m.
- ☆ Re: [advisory-board-open] M&A Securi... • Chris Clymer

Calendar interface showing a list of events with columns for Date and Time.

Date	Time
5/15/2017	12:20 PM
9/26/2017	11:38 A...
10/4/2017	8:33 AM
10/19/2017	8:32 A...
10/19/2017	12:43 ...
10/19/2017	1:00 PM
10/19/2017	9:26 PM
10/20/2017	10:13 ...
10/20/2017	10:46 ...
10/20/2017	10:46 ...
10/20/2017	10:54 ...
10/20/2017	12:27 ...
10/20/2017	12:48 ...
10/20/2017	5:46 PM
10/20/2017	6:35 PM
10/20/2017	8:51 PM
10/20/2017	10:26 ...
10/23/2017	10:53 ...
10/25/2017	7:00 A...
10/25/2017	11:14 ...
	5:48 AM
	10:28 AM

Thunderbird now contains calendaring functionality by integrating the Lightning extension.

Learn more | Disable | Keep

tim.preuss02@gmail.com is up to date

Unread: 0 | Total: 22 | Today Pane



Name	Key ID
> Tim Preuss <tim.preuss02@gmail.com>	4D39D2E7

- Copy Public Keys to Clipboard
- Export Keys to File
- Send Public Keys by Email
- Upload Public Keys to Keyserver
- Refresh Public Keys to Keyserver
- Sign Key

The presentation right clicks on the key to show a menu. On the menu, the presentation selects "Upload Public Keys to Keyserver".

Certificate

View Photo ID

Key Properties

Enjoy 2 FREE REWARDS CARDS!

Communications of the ACM Di... 10/25/2017 7:00 A...

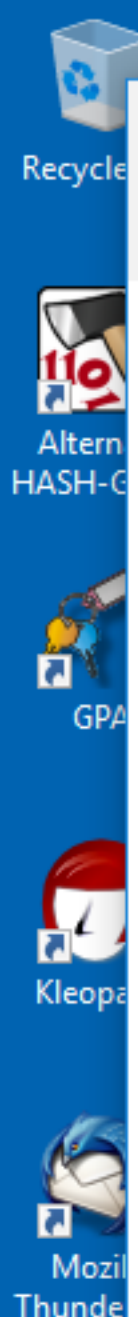
ACM TechNews 10/25/2017 11:14 ...

don m. 5:48 AM

Chris Clymer 10:28 AM

**Packt** 12:10 PM

**Herberger's Rewards** 12:42 PM



# 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](#)
- New Student Information

The presentation will now check the key is on the class keyserver.

The presentation opens a web browser to "http://sweden.minnesota.edu" as shown.

The presentation selects "Class Key Server" hyperlink.



# SKS OpenPGP Key Server MSCTC/MSUM Key Server Training Site

## 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 keys

Get verbose keys

Retrieve keys

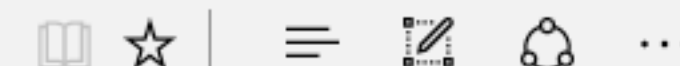
Retrieve keys

The presentation enters at least part of the name on the keys in the box name "String".

## Submit

You can submit a key and click on the version of your

Search results for 'preus' X +

[sweden.minnesota.edu:11371/pks/lookup?search=preuss&op=vindex](http://sweden.minnesota.edu:11371/pks/lookup?search=preuss&op=vindex)


## Search results for 'preuss'

Type	bits/keyID	cr. time	exp time	key expir
pub	4096R/ <a href="#">DE322B69</a>	2017-08-18		
uid	<a href="#">Tim Preuss &lt;tim.preuss@mnstate.edu&gt;</a>			
sig	sig3 <a href="#">DE322B69</a>	2017-08-18		2018-09-12 <a href="#">[selfsig]</a>
sig	sig2 <a href="#">32610643</a>	2017-08-18		<a href="#">Tim Preuss (M State IT instructor) &lt;tim.preuss@minnesota.edu&gt;</a>
sig	sig2 <a href="#">4DB5045A</a>	2017-08-18		<a href="#">Tim Preuss &lt;tim preuss@my.minnesota.edu&gt;</a>
sub	4096R/E85F6488	2017-08-18		
sig	sbind <a href="#">DE322B69</a>	2017-08-18		2018-09-12 <a href="#">[]</a>
pub	4096R/ <a href="#">4DB5045A</a>	2017-08-18		
uid	<a href="#">Tim Preuss &lt;tim preuss@my.minnesota.edu&gt;</a>			
sig	sig3 <a href="#">4DB5045A</a>	2017-08-18		2018-09-12 <a href="#">[selfsig]</a>
sig	sig <a href="#">32610643</a>	2017-08-18		<a href="#">Tim Preuss (M State IT instructor) &lt;tim.preuss@minnesota.edu&gt;</a>
sub	4096R/A2AF4F7D	2017-08-18		
sig	sbind <a href="#">4DB5045A</a>	2017-08-18		2018-09-12 <a href="#">[]</a>
pub	4096R/ <a href="#">32610643</a>	2017-08-18		
uid	<a href="#">Tim Preuss (M State IT instructor) &lt;tim.preuss@minnesota.edu&gt;</a>			
sig	sig3 <a href="#">32610643</a>	2017-08-18		2018-08-31 <a href="#">[selfsig]</a>
sub	4096R/8D17D999	2017-08-18		
sig	sbind <a href="#">32610643</a>	2017-08-18		2018-08-31 <a href="#">[]</a>

The presentation now has proof all the different keys for "preuss" are successfully uploaded to the class key server.