

How to Keysign:

- Verify Fingerprint
- Verify Identity
- Obtain authentic copy of key
 - many traps to be avoided
- Sign and send key
 - currently needs MTA

- O(n)
- O(n²)

This is a typical keysigning protocol It is hard to set up





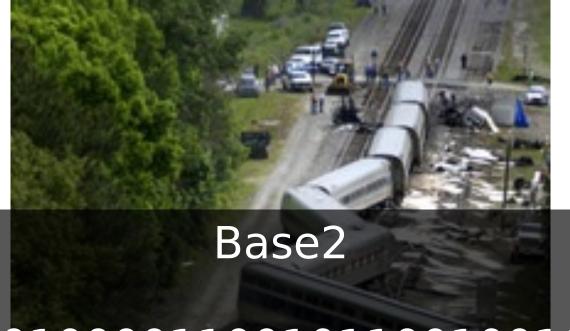
ETS DEGIMENTS



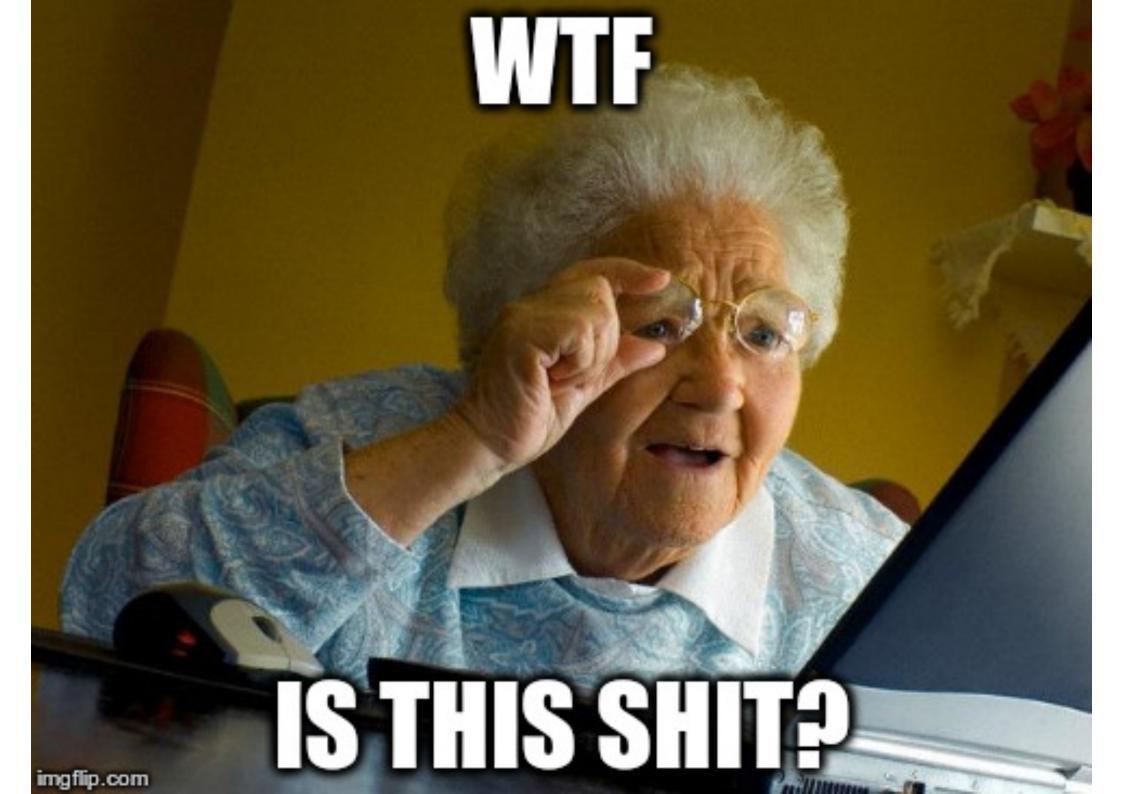
A party without beer only to obtain fingerprints

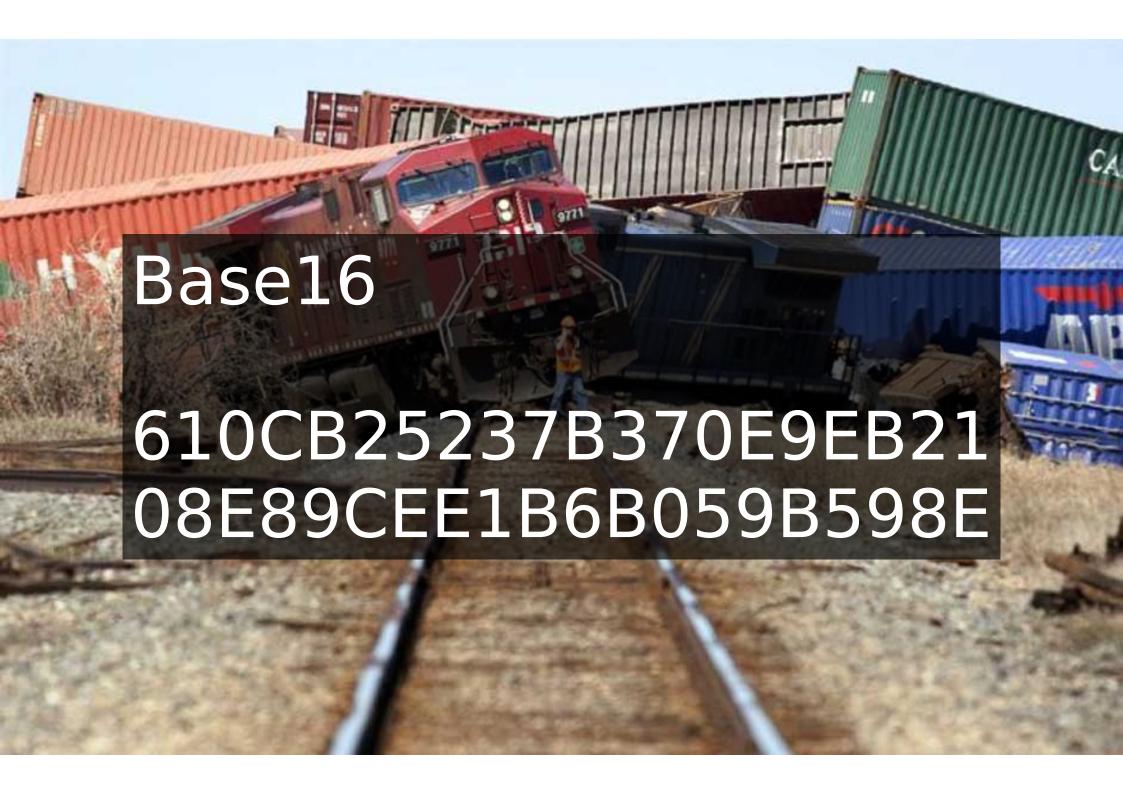


Keysigning "Parties" are not fun people miss them They don't print anything Single point of failure



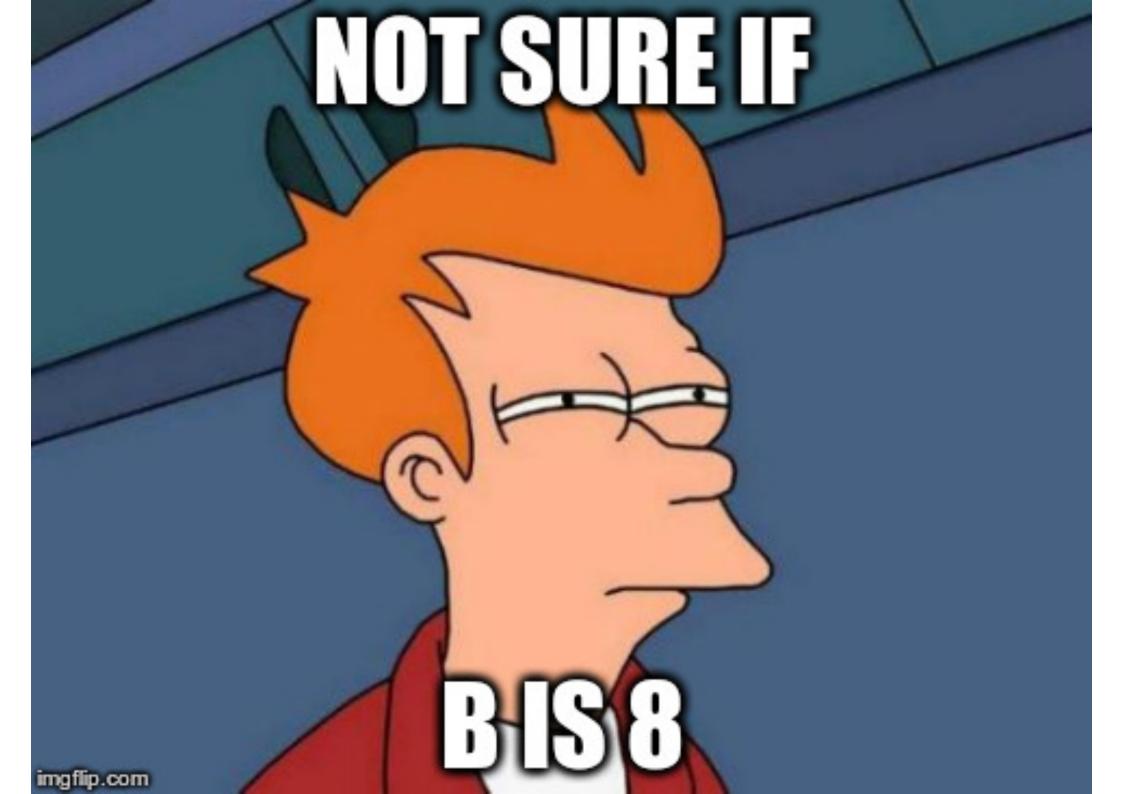
 Pros: Very accurate, hard to misread Cons: Very long





Pros: looks familiar to nerds

Cons: Hard to distinguish characters

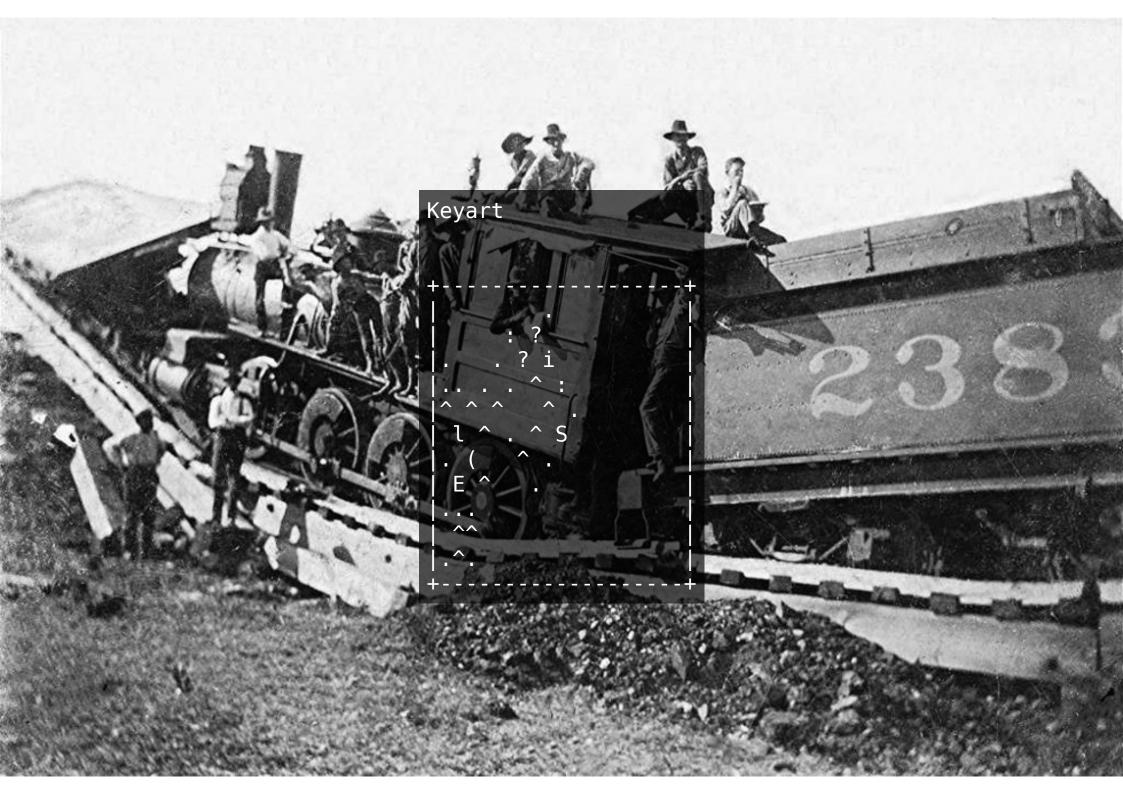


Verifying fingerprints is hard

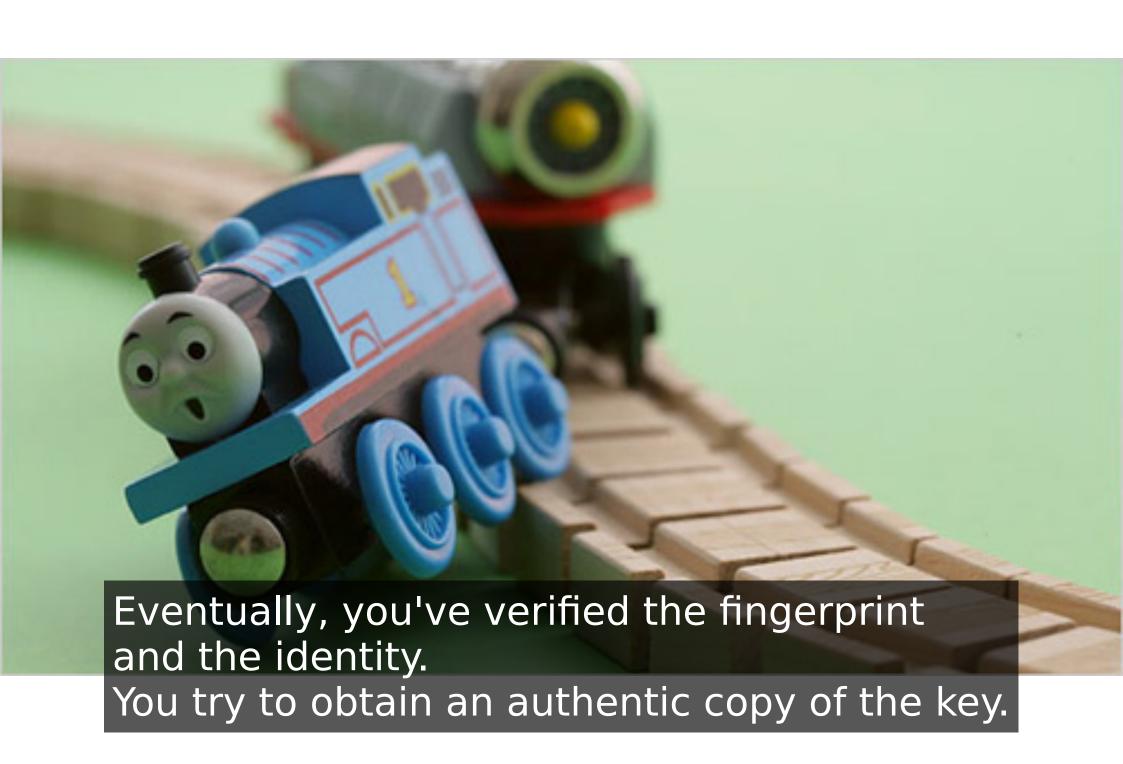


Pros: Shorter than other things Cons: Probably too big of an alphabet



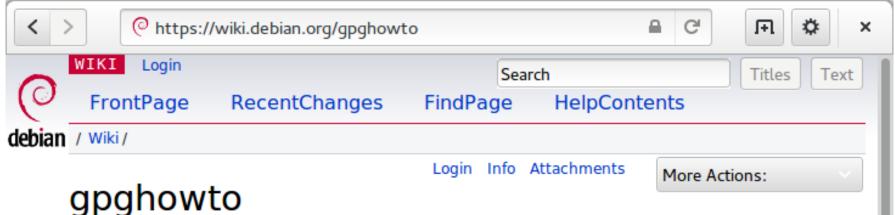


Pros: Probably simpler to compare Cons: Easy to have collisions





Of course you don't use short key ids. Do you..?



This page is about howto get ride of the error which says "W: GPG error: 🕥 http://debian.cites.uiuc.edu testing Release: The following signatures couldn't be verified because the public key is not available: NO_PUBKEY_010908312D230C5F

pubkey is not available on the debian server from were you are downloading your xcept Debian packages.

More detailed info are present on SecureApt (interesting things starting from **How apt uses Release.gpg**) . Please understand what you are doing first.

These are the commands which you need to run.

```
$ gpg --recv-keys 2D230C5F
$ gpg --export -a 2D230C5F | sudo apt-key add -
$ apt-get update
```

I don't always use short key ids







×

private key, you need to follow these guidelines when signing peoples keys:

During the Event

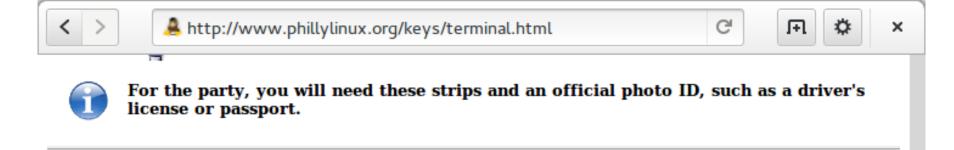
- 1. Keysigning is always done after meeting in person
- 2. During this meeting you hand each other your OpenPGP key fingerprint and at least one government issued key fingerprints are usually distributed as key fingerprint slips, created by a script such as gpg-key2ps (pack
- 3. You check whether the name on the key corresponds with the name on the ID and whether the person in fro he is.

After the Event

You now have the printed public key information from the other participants.

Example key IDs for the other participants will be E4758D1D, C27659A2, and 09026E7B. Replace these IDs with the other participants. And Ubuntu

- retrieve the keys:
- sign the keys:
 - gpg --sign-key E4758D1D
 - gpg --sign-key C27659A2
 - gpg --sign-key 09026E7B
- export the keys
 - qpg --armor --export E4758D1D --output E4758D1D.signed-by.01234567.asc
 - qpg --armor --export C27659A2 --output C27659A2.signed-by.01234567.asc
 - gpg --armor --export 09026E7B --output 09026E7B.signed-by.01234567.asc
- 4. Email the key users (use the email address that was part of the key's user ID) and attach the corresponding signed key to the key server:
 - gpg --send-keys --keyserver keyserver.ubuntu.com E4758D1D



After the Party

Step 1: Get other people's keys

You now have the printed public key information from the other participants.

Example key IDs for the other participants will be E4758D1D, C27659A2, and 09026E7B. Replace these IDs with the key IDs you received from the other participants.

And pretty much everybody else

 Find the key ID numbers on each printout and get the public keys from the keyservers:

gpg --recv-keys <u>E4758D1D</u> <u>C27659A2</u> <u>09026E7B</u>

Step 2: Sign the keys

1. Sign a key:

gpg --sign-key <u>E4758D1D</u>

i. If a key has multiple user IDs, GPG will ask if you want to sign all of them.







×

share improve this question

edited Jun 22 '14 at 11:23



add a comment

1 Answer

active

oldest vot

As error message, you haven't configured gpg server.

Try this:



Updated

It seems that you can not connect to server:

gpg: keyserver timed out

Do you have a firewall block port 11371 of hkp service.

You can use port 80 instead of 17371:

gpg --keyserver subkeys.pgp.net:80 --recv-keys 6092693E

share improve this answer

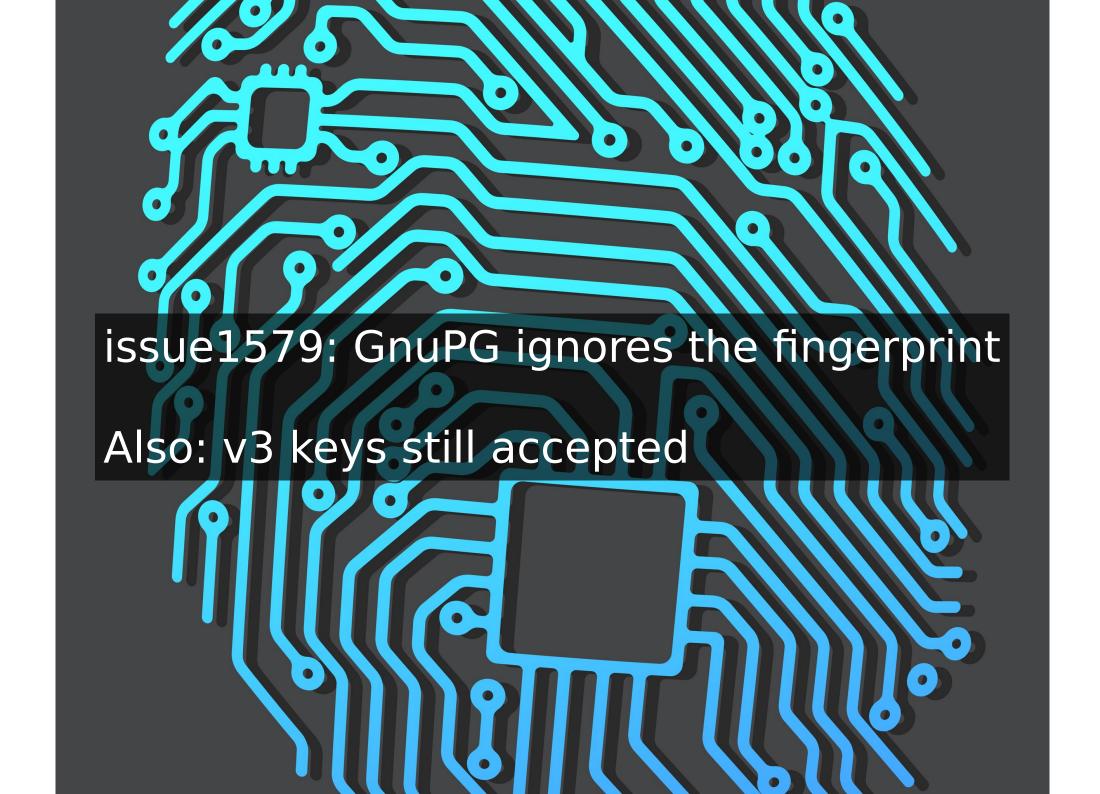
edited Jun 22 '14 at 11:00

answered Jun 22 '14 at 10:00





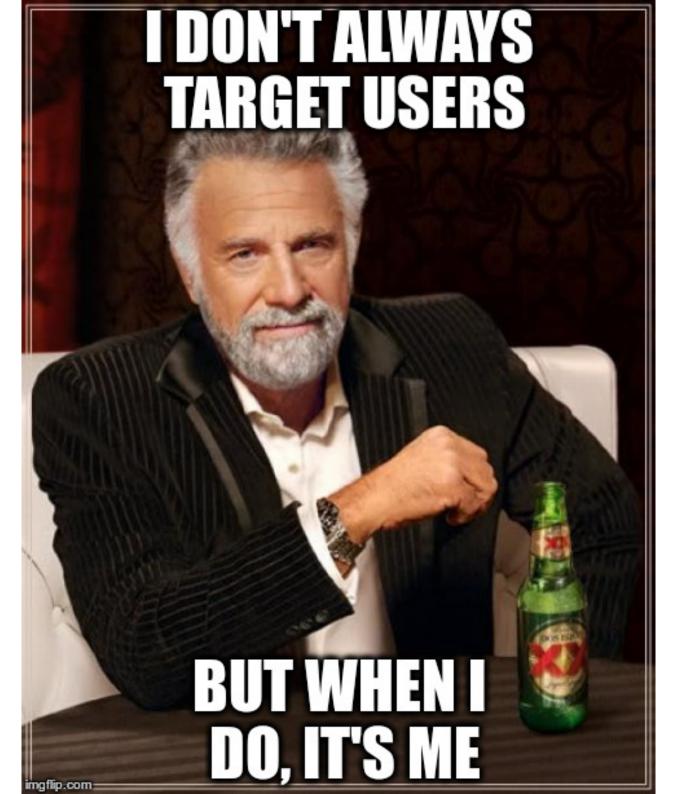




So you use the fingerprint instead of short key ids however, currently shipped gnupg version do not check for the fingerprint of the key to be imported



http://bugs.gnupg.org/gnupg/issue1579



Let's define our target users. It's my mom!



```
*caffrc (/tmp) - qedit
                                                                    ×
File Edit View Search Tools Documents
    Den ✓ 🛂 Save 🔚 🤚 Undo 🔗 🐰 📲 📋 🔾 💢
 *caffrc ×
# .caffrc -- vim:ft=perl:
# This file is in perl(1) format - see caff(1) for details.
$CONFIG{'owner'} = 'Username';
#$CONFIG{'email'} = '[user]@[domain]';
#$CONFIG{'reply-to'} = 'foo@bla.org';
# You can get your long keyid from
   gpg --with-colons --list-key <yourkeyid|name|emailaddress..>
# If you have a v4 key, it will simply be the last 16 digits of
# your fingerprint.
# Example:
   $CONFIG{'keyid'} = [ qw{FEDCBA9876543210} ];
# or, if you have more than one key:
   $CONFIG{'keyid'} = [ qw{0123456789ABCDEF 89ABCDEF76543210} ];
#$CONFIG{'keyid'} = [ qw{0123456789abcdef 89abcdef76543210} ];
# Select this/these kevs
                          PIPIB9abcdef SIS
#SCONF!
# Addi:
                          Perl V
                                Tab Width: 4 🗸
                                                 Ln 47, Col 10
                                                                 INS
```

That's the pinnacle, the gold-standard of contemporary keysigning







We see the fire burning We need to do something about the situation



Yet, our machines cannot talk to each other

Introducing: GNOME Keysign

Keysign

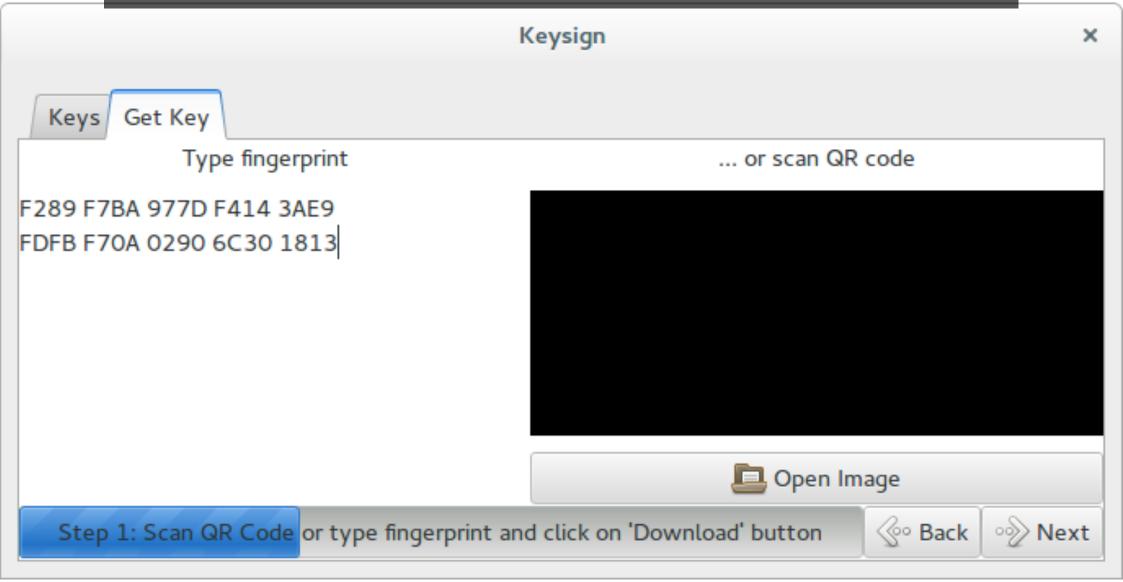
Keys Get Key

Key Fingerprint

F289 F7BA 977D F414 3AE9 FDFB F70A 0290 6C30 1813 Fingerprint QR code



Leveraging 2000s technologies





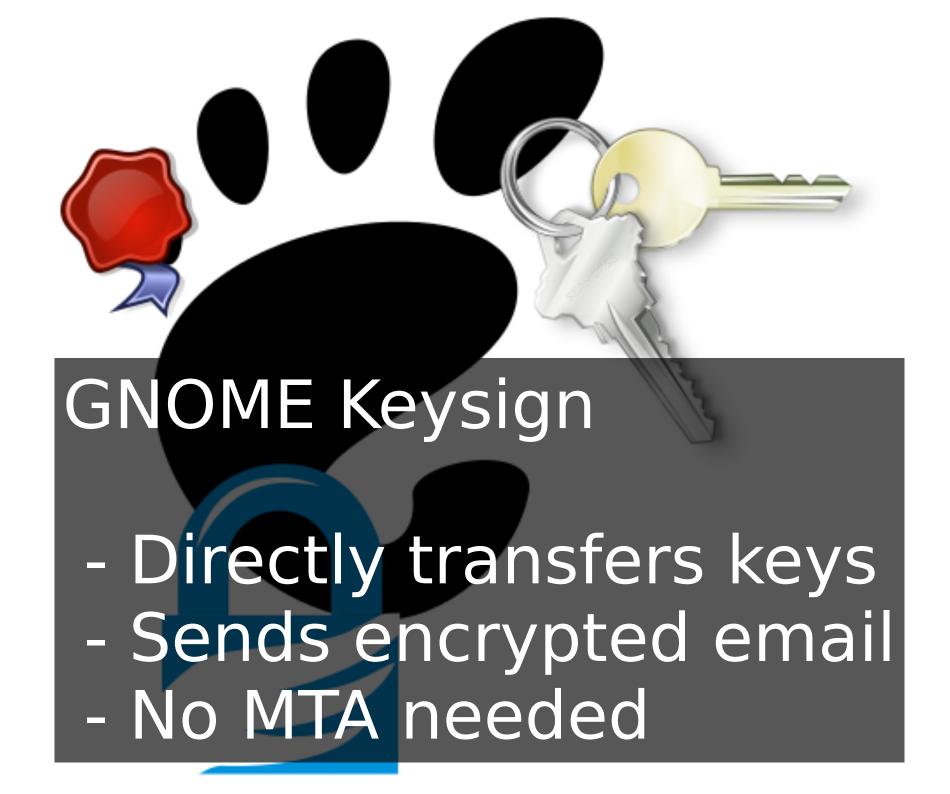
Terminal ▼ Mi 3 Sep, 11:33 Activities ... fish /home/muelli/vcs/geysigning File Edit View Search Terminal Tabs Help fish /home/muelli/vcs/gev... × nano /home/muelli/vcs/qe... × | nano /home/muelli/vcs/qe... × | ipython /home/muelli/vcs/... × fish /home/muelli/vcs/gev... × python /home/muelli/vcs/... × (evolution:19692): gtkhtml-WARNING **: found token with no open (evolution:19692): GLib-CRITICAL **: Source ID 31815 was not found when attempting to remove it (evolution:19692): GLib-CRITICAL **: Source ID 31886 was not found when attempting to remove it (evolution:19692): GLib-CRITICAL **: Source ID 31906 was not found when attempting to remove it (evolution:19692): GLib-CRITICAL **: Source ID 31991 was not found when attempting to remove it (evolution:19692): GLib-CRITICAL **: Source ID 31960 was not found when attempting to remove it (evolution:19692): GLib-CRITICAL **: Source ID 33080 was not found when attempting to remove it (evolution:19692): GLib-CRITICAL **: Source ID 33462 was not found when attempting to remove it (evolution:19692): GLib-CRITICAL **: Source ID 33555 was not found when attempting to remove it (evolution:19692): GLib-CRITICAL **: Source ID 33769 was not found when attempting to remove it (evolution:19692): GLib-CRITICAL **: Source ID 34560 was not found when attempting to remove it (evolution:19692): GLib-CRITICAL **: Source ID 34883 was not found when attempting to remove it (evolution:19692): GLib-CRITICAL **: Source ID 35019 was not found when attempting to remove it (evolution:19692): GLib-CRITICAL **: Source ID 35619 was not found when attempting to remove it

(evolution:19692): GLib-CRITICAL **: Source ID 36186 was not found when attempting to remove it

(evolution:19692): GLib-CRITICAL **: Source ID 36483 was not found when attempting to remove it

(evolution:19692): GLib-CRITICAL **: Source ID 36852 was not found when attempting to remove it

→ geysigning git:(tobi_tmp_email) />





https://wiki.gnome.org/GnomeKeysign



Still waiting for patches

