How to Implement Key Signing Party

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Abstract

The purpose of this event is to verify and sign keys at any time and help to extend the WOT. A key signing parties significantly is a gathering of PGP users with a purpose to meet other PGP user and sign each other key. There are lots of benefits we can get from Key Signing Party. First, we can build tightly linked web of trust which will make it difficult to defeat. For developers and users, this will be a special significance to the Free Software Community. The community rely on PGP to cryptograph in purposed to protect their software and security. Second, key signing parties will make peoples get integrated to the security culture. It also encourage them to gain more understanding of PGP and other cryptography worldLast, it will build communities which purposed to get to know each other, network, and discuss important issues like the regulation, etc.

Before The Party

1. Generate your PGP keypair / gnupg keys

\$ gpg --gen-key

Please select what kind of key you want: (1) RSA and RSA (default) (2) DSA and Elgamal (3) DSA (sign only)

- 2. Select your key size. (at least 2048)

DSA keypair will have 2048 bits. About to generate a new ELG-E keypair. minimum keysize is 768 bits default keysize is 1024 bits highest suggested keysize is 2048 bits What keysize do you want? (1024) 2048<return> Do you really need such a large keysize? yes<return>

3. Set the lifetime of the key. ex: 1 year

Key is valid for? (0) 1y<return>
Key expires at Sun Jan 1 00:00:15 2015 EDT
Is this correct (y/n)? y<return>

4. Fill your name and email address. Put your comment too. Then choose a password/pass phrase.

Real name: Keyne Kassapa Email address: keyne.kassapa@ui.ac.id Comment: You selected this USER-ID: "Keyne Kassapa <keyne.kassapa@ui.ac.id>"

5. You can modify your key. You can add multiple email to your key.

\$ gpg —list-secret-keys

6. Send your public key with the PGP key server

\$ gpg —keyserver <keyserver> —send-keys <your key ID>

7. Go to an RSVP page

for example : https://linux.ucla.edu/keysigning/ Check your key fingerprint

\$ gpg —fingerprint <your name>

8. The preparation is to finalize the keylist and checksum.

\$ wget <keyserver>

9. Verify the checksum

\$ sha1sum —check keylist.txt.sha1

The Party

- 1. Bring the following information (key ID, key type, key size, key fingerprint) and your identification
- 2. Receive the keylist (or you may printout your own keylist)
- 3. Make statement that your fingerprint is correct
- 4. Other participant will meet you and check your identification (picture and names usually). It also works vice versa with you checking other participant.

After the party

1. Check your noted keylist.

Import the key of person you believe the true owner of a website.

2. Sign the keys

3. Send all the new key signatures to the keyserver

EXAMPLES

User7 < name: Keyne1, key ID: 84CA3E57,

key fingerprint: FCB7 4E58 FC39 4FC5 750E F2F4 4FFC 9AFC 84CA 3E57>

User8 < name: Keyne2, key ID: 6C04E7D5,

key fingerprint: 5409 04A8 3E68 5CFC 9A88 4BAF 3B4D 1635 6C04 E7D5>

User9 < name: Keyne3, key ID: E4B10DDE,

key fingerprint: 9086 296C EBEF 89ED 6EA6 B057 174F 3432 E4B1 0DDE>

server = ckilat1.vlsm.org keyserver = keys.gnupg.key

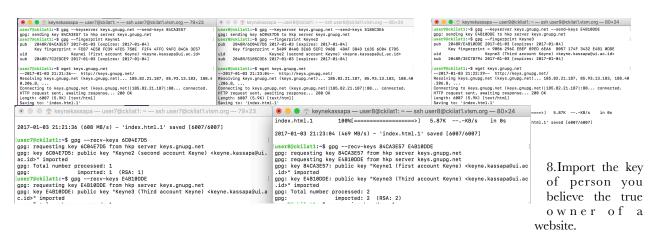
- 1. Generate your PGP keypair / gnupg keys
- 2. Select your key size. (at least 2048
- 3. Set the lifetime of the key. ex: 1 year



4. Fill your name and email address. Put your comment too. Then choose a password/pass phrase.



- 5. You can modify your key. You can add multiple email to your key.
- 6. Sync your public key with the PGP key server
- 7. Check your fingerprint



```
pg: imported: 1 (RSA: 1)

user9@ckilat1.vism.org — 80×24

pg: imported: 1 (RSA: 1)

user9@ckilat1.ris gpq — recv-keys 84cA3E57

pgc: requesting key 84cA3E57 from hkp server keys.gnupg.net

pgp: key 84cA3E57: "Keynel (first account Keyne) < keyne.kassapa@ui.ac.id>" not c

hanged

pgc: Total number processed: 1

pgc: unchanged: 1

user9@ckilat1:-5 gpg — recv-keys 6084E705

pgc: requesting key 6084E705 from hkp server keys.gnupg.net

pgc: key 6084E705: ptmb kp server keys.gnupg.net

pgc: key 6084E705: ptmb kp server keys.gnupg.et

pgc: keyne.kassapa@ui.a

pgc: Total number processed: 1

pgc: imported: 1 (RSA: 1)
```

9.Sign the keys



10. Send all the new keys to the keyserver

```
[user?@ckilat1:-$ gpg --send-keys E4B18DDE
gpg: sending key E4B18DDE to hkp server keys.gnupg.net
[user?@ckilat1:-$ gpg --send-keys C64E7D5
gpg: sending key 6C84E7D5 to hkp server keys.gnupg.net
user?@ckilat1:-$ gpg --send-keys E4B18DDE 84CA3E57
gpg: sending key 6C84E7D5 to hkp server keys.gnupg.net
user?@ckilat1:-$ [
gpg: sending key E4B18DDE to hkp server keys.gnupg.net
user8@ckilat1:-$ [
gpg: sending key 84CA3E57 to hkp server keys.gnupg.net
user8@ckilat1:-$
```

[user9@ckilat1:~\$ gpg --send-keys 84CA3E57 gpg: sending key 84CA3E57 to hkp server keys.gnupg.net [user9@ckilat1:~\$ gpg --send-keys 6C04E7D5 gpg: sending key 6C04E7D5 to hkp server keys.gnupg.net