How to Implement Key Signing Party

Keyne Kassapa University of Indonesia

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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

Select the key type you want DSA and ElGamal —> default DSA —> sign ElGamal —> sign and encrypt

2. Select your key size. ex: 1024

DSA keypair will have 1024 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
To you really need such a large keysize? yes

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. 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 <<u>keyne.kassapa@ui.ac.id</u>>"

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

\$ gpg —list-secret-keys

6. Sync 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