LAB: PGP Key Signing Party

We will use the command-line since that is going to be consistent across all platforms we installed. The GUI will work for most sections except choosing our key server below. Our local keyserver does not yet implement all HTTP methods required by the spec.

We are using software tools from the FOSSDEM folk. These can be freely downloaded from https://github.com/FOSDEM/keysigning and then modified for your environment/key signing party.

Prerequisites:

 You should have created a key from the previous PGP exercises or already have one you use. If not look at the PGP labs or run

```
gpg --gen-key
```

Make sure you have a revocation certificate stored safely away.

```
gpg --gen-revoke IDENTITY
```

Print your key to check how it looks like

```
gpg --list-keys IDENTITY
```

uploading your key

List your keys to figure out your key-id. Note that these days most new software will not list the short key-ids because collisions have occurred. Also look at the last 16 characters to see the long id format (or use the _-keyid-format long option).
 Note that you can always use email addresses as the key-id but it's possible for people to have multiple addresses.

 Keep note of your fingerprint especially incase your keys are listed with the short-id format

• We have created ksp.workshop. you can upload your keys here.

```
$ gpg --send-keys --keyserver ksp.workshop DA9C65C302271B148A9813CB603
7C625516A4AA8
gpg: sending key 6037C625516A4AA8 to hkp://ksp.workshop
```

- Make sure you can see your key in the keyserver by visiting http://ksp.workshop/keys in your browser. Note that ordinarily this directory would not be exposed by the webserver.
- Once all done, the instructors will generate a text file that will be available at http://ksp.workshop/allkeys.asc
- Next we shall get up one at a time (with our government ID) and tell the class:
 - Our name
 - The ID (long format)
 - The fingerprint (use the NATO aphabet if you can)

• Some people may ask to see the government ID before signing and then they'll sign.

```
$ gpg --sign-key IDENTITY
```

• Next each one of us uploads the new signature to the local keyserver.

```
$ gpg --send-keys --keyserver ksp.workshop IDENTITY
```

• At the end of the day we can download the copy of all our signatures for *our* key from the keyserver. To do this, simply download the key from

```
http://ksp.workshop/keys , save it as a text file and import it
```

```
$ curl -0 http://ksp.workshop/keys/6037C625516A4AA8 # may not be avail
able on windows ...
$ gpg --import 6037C625516A4AA8 # use the name of the text file you sa
ved
```

- Optionally, setup your PGP plugin for mail client
 - Enigmail for Firefox
 - GPG Suite for Apple Mail on OS X
 - Flowcrypt for Gmail with Chome/Firefox