Tuesday, March 8, 2022 7:49 AM

## Windows:

- 1. Install Gpg (Gpg4win) https://www.gnupg.org/download/index.html
- 2. Add path to gpg.exe to windows variables
  - a. Right click windows icon in task bar > system > advanced system settings > environment variables
  - b. Click new under user variables and add path

Name: gpg

Path: C:\Users\simeransandhu\AppData\Local\GnuPG\bin

- c. Do the same for system variables
- 3. open your terminal and run below to see if you have a key created. If there's a key created already, you'll see something like the output below so you can skip to step 5. If not, step 4.

gpg --list-secret-keys --keyid-format long

```
$ gpg --list-secret-keys --keyid-format long

//Users/simeransandhu/.gnupg/pubring.kbx

sec rsa4096/ 2022-03-08 [SC]

07CAO [ultimate] Simeranjeet Sandhu (no comment) <simeransandhu@delessb rsa4096/ 2022-03-08 [E]
```

- 4. Create a gpg key
  - a. gpg --full-gen-key
  - b. select option 1 (RSA and RSA)
  - c. RSA keysize: 4096
  - d. Key is valid for: 0
  - e. key does not expire at all: y
  - f. Enter your name, email address
  - g. comment: no comment
  - h. Enter O and enter a passphrase of choice to generate a random key
- 5. once the key is generated, configure the private key to your git
  - a. List your key

gpg --list-secret-keys --keyid-format long

- b. copy the part after the '/' in the line that starts with 'sec'. For example OE6198DFB2D67A26
- c. configure git to use the selected key for signing commits

git config --global user.signingkey 0E6198DFB2D67A26

- 6. Add the public gpg to your GitLab account
  - a. Take your serial number you got in step 5 and run the command below

gpg --armor --export 0E6198DFB2D67A26

- Copy and paste the output that pub key under your GitLab account preferences preferences > gpg keys
- 7. When running git commit, make sure to add the -S flag to sign it

git commit -S -m "this is a signed commit"

## If no secret key error happens:

https://stackoverflow.com/questions/36810467/git-commit-signing-failed-secret-key-not-available

 $\underline{https://elrr-access:repo1-dso-milGRwTV4xv93CE5K2Xk-pd@repo1.dso.mil/dsop/opensource/adl-initiative/elrr/elrr-portal.git.pdf.$ 

 $\underline{https://elrr-access:repo1-dso-milGRwTV4xv93CE5K2Xk-pd@repo1.dso.mil/dsop/opensource/adl-initiative/elrr/access:repo1-dso-milGRwTV4xv93CE5K2Xk-pd@repo1.dso.mil/dsop/opensource/adl-initiative/elrr/access:repo1-dso-milGRwTV4xv93CE5K2Xk-pd@repo1.dso.mil/dsop/opensource/adl-initiative/elrr/access:repo1-dso-milGRwTV4xv93CE5K2Xk-pd@repo1.dso.mil/dsop/opensource/adl-initiative/elrr/access:repo1-dso-milGRwTV4xv93CE5K2Xk-pd@repo1.dso.mil/dsop/opensource/adl-initiative/elrr/access:repo1-dso-milGRwTV4xv93CE5K2Xk-pd@repo1.dso.mil/dsop/opensource/adl-initiative/elrr/access:repo1-dso-milGRwTV4xv93CE5K2Xk-pd@repo1.dso.mil/dsop/opensource/adl-initiative/elrr/access:repo1-dso-milGRwTV4xv93CE5K2Xk-pd@repo1.dso-mild-initiative/elrr/access:repo1-dso-mild-initia$ 

repo1.dso.mil/dsop/opensource/adl-initiative/elrr/elrr-aggregator.git

PW GPG K82!sam\*1121S