gpg (gnu privacy guard) Mannan Shukla - RUSLUG

The need for encryption

- keep data password protected and secured
- keep bad actors from taking important data if they breach your machine
- keep documents about the cia private

different types of ciphers

- symmetric
- asymmetric
 - public key cryptography

typical use



Diffie-Hellman scheme



signing files

gpg —full-generate-key
gpg -r <email> -e <filename>
to decrypt: gpg -d <filename>

in practice

- email clients (gmail, thunderbird, mutt)
 - encryption
 - signing
- protecting files locally
- pass (the unix password manager)
- signing github commits

resources

<u>https://www.gnupg.org/gph/en/manual/c14.html</u>