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Encoding vs Hashing vs Encryption

Prerequisites

- Access to a Linux system
- Install GnuPG installed.
- Basic knowledge of navigating the Linux command line interface.

Task 1

Installation: Ensure that GnuPG is installed on your system. You can install it using the package manager of your Linux distribution. For example, on Ubuntu or Debian, you would use:
sudo apt install gnupg

Task 2

Encrypting a File
gpg --symmetric malware.txt

This command is used to symmetrically encrypt a file. GPG will make you create a password, and then you will be set. On my screenshot below you can see that malware.txt.gpg was created.

Task 3

Attempt to view the encrypted file's contents using cat malware.txt.gpg.

I can see that the output is impossible to read, that means the content of the file is encrypted.

To decrypt the malware.txt.gpg file, run:
gpg --decrypt malware.txt.gpg > decrypted.malware.txt

I can see that malware.txt.gpg was redirected to a new folder called decrypted.malware.txt

Verifying Decryption

I can see that the output matches the original content of malware.txt.