

Day 15 Hashing of Yesterdays Program

- Hashing Generate an MD5 hash of your original message:

```
(kali㉿kali)-[~/nithesh/network]
$ md5sum secret.txt
5fc72d80434c30e9eba8dfe2879199cf secret.txt
```

- Generate an SHA256 hash of your original message:

```
(kali㉿kali)-[~/nithesh/network]
$ sha256sum secret.txt
b2e64240b4d63cf58b45a179e569d78d51a9356a9cbfd2b740df4c7edf0f1929  secret.txt
```

- Secure Deletion
- Install the secure-delete package if not already installed:

```
[root@kali ~]# ./-lntsh/network/
[+] sudo apt-get install secure-delete
[sudo] password for kali:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
python3-debian fontconfig-color-mgmt gir1.2-gtksource-3.0 gir1.2-javascriptcoregtk-4.0 gir1.2-soup-3.0 gir1.2-webkit2-4.0 kali-desktop libhtml5-parser libibverbs1 libiproute2-ltn libiproute2
libipset1 libjs-jquery libjavascriptcoregtk-4.0 liblabl-gui liblmdb0 libmariadb-client-core-10.6 libnetfilter-tproxy libnftables1 libnfsd-dev libnss-systemd libopenblas-base libopenblas-dev libosinfo1 libpam-systemd libpangocairo-1.0 libpango1.0 libpangox-1.0 libpcap0.8 libperl5.34 libpython3.9-minimal libpython3.9-stdlib libpython3.9-venv libpython3.9_venv libqt5core5a libqt5dbus5 libqt5gui5 libqt5network5 libqt5opengl5 libqt5widgets5 libsigsegv2 libsystemd0 libtcl8.6 libtiff5 libusb-1.0 libx11-xcb1 libxcb-dri2-0 libxcb-glx0 libxcb-image0 libxcb-keysyms1 libxcb-render-compat2.0 libxcb-util1 libxcb-xfixes0 libxkbcommon0 libxml2 libxslt1.1 libzstd1 linux-libc-dev
libzstd-dev python3-advantechdspserver python3-backcall python3-bitools python3-cairo-dev python3-cryptography37 python3-debian python3-diskcache python3-future python3-geoip2 python3-geonames python3-gi python3-graphviz python3-grpcio python3-graphviz-core python3-ialchemy-relay python3-incubator python3-incubator-classic python3-jcal python3-massiv-db python3-mistune python3-pendulum python3-pikitshare python3-premise python3-py python3-pyatspi python3-pymimify python3-pyvotf python3-pysistent python3-pytz-deprecation-shim python3-pytzidata python3-requests-toolbelt python3-rfc3986 python3-rule-engine python3-rx python3-smoke-zephyr
python3-unidecode ttfapp
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
libgcssecuredelete0
Suggested packages:
gnutls-wsps
The following NEW packages will be installed:
libgcssecuredelete0 secure-delete
0 upgraded, 2 newly installed, 0 to remove and 488 not upgraded.
Need to get 392 kB of archives.
After this operation, 293 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://kali.download/kali kali-rolling/main amd64 secure-delete amd64 3.1-10 [76.3 kB]
Get:2 http://kali.download/kali kali-rolling/main amd64 libgcssecuredelete0 amd64 0.3-3.2 [25.3 kB]
Fetched 392 kB in 65 (161.8K/s)
debconf: delaying package configuration, since apt-utils is not installed
(Reading database ... 426862 files and directories currently installed.)
Preparing to unpack .../secure-delete_3.1-10_amd64.deb ...
Unpacking secure-delete (3.1-10) ...
Selecting previously unselected package libgcssecuredelete0.
Preparing to unpack .../libgcssecuredelete0_0.3-3.2_amd64.deb ...
Unpacking libgcssecuredelete0 (0.3-3.2) ...
Setting up secure-delete (3.1-10) ...
Setting up libgcssecuredelete0 (0.3-3.2) ...
Processing triggers for man-db (2.11.2-2) ...
Processing triggers for kali-menu (2024.3-2) ...
Processing triggers for libc-bin (2.38-13) ...
```

- Securely delete the original unencrypted file:

```
(kali@kali)-[~/nithesh/network]
$ srm secret.txt
```

- Verify that the file is gone:

```
(kali@kali)-[~/nithesh/network]
$ ls
encrypted.txt  mod.sh  network  network.sh  network.txt

(kali@kali)-[~/nithesh/network]
$ ls -l
total 20
-rw-rw-rw-r 1 kali kali 29 Aug 29 14:08 encrypted.txt
-rwxrwxr-x 1 kali kali 662 Aug 29 13:42 mod.sh
drwxrwsr-x 2 kali kali 4096 Aug 29 13:51 network
-rwxrwxr-x 1 kali kali 1397 Aug 29 14:00 network.sh
-rw-rw-r-- 1 kali kali 1365 Aug 29 13:40 network.txt
```