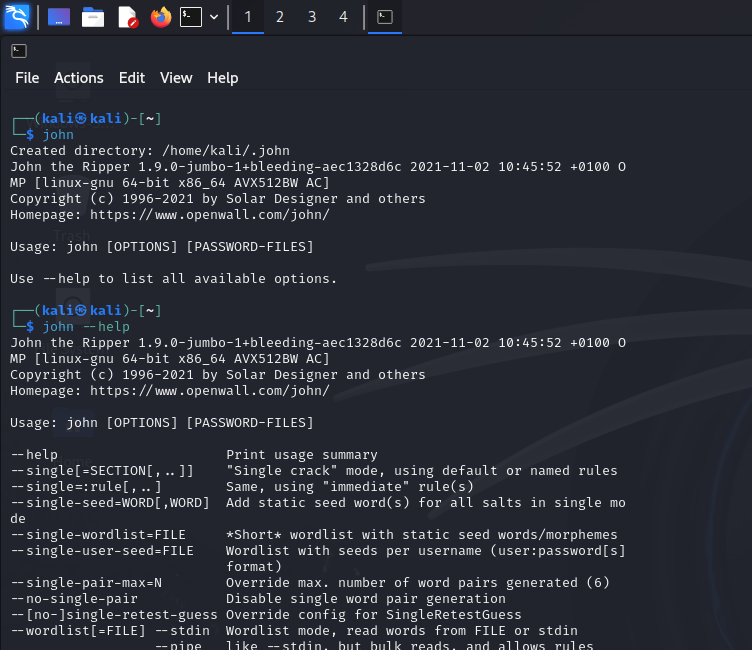
Group Members Details:

* 16010122283 – Hitanshi Patil
* 16010122284 – Harikrishnan Gopal
* 16010122288 – Aditya Raut
* 16010122294 – Adhiraj Patole

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B Division B-4 Batch

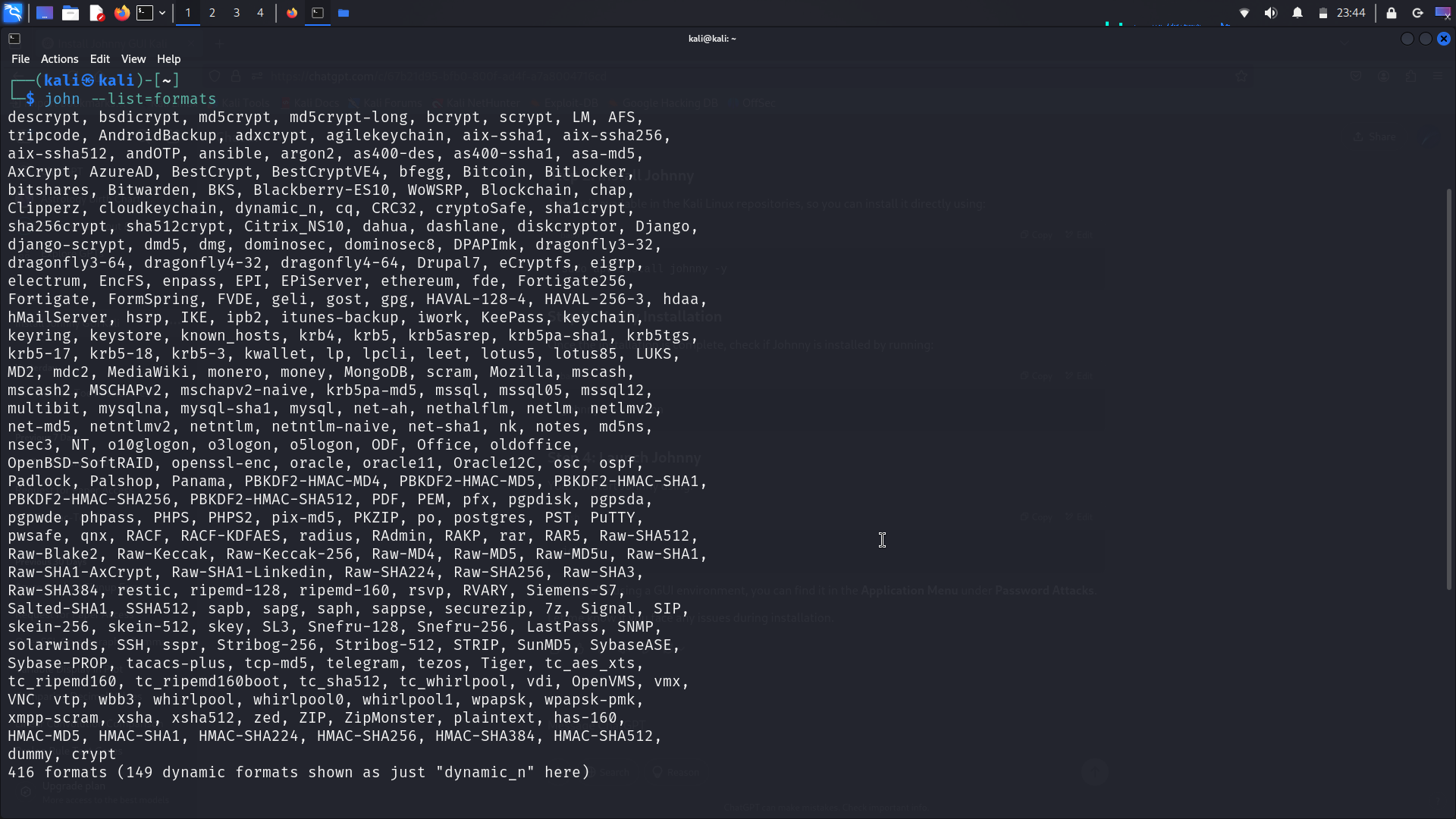
**Introducing John the Ripper**



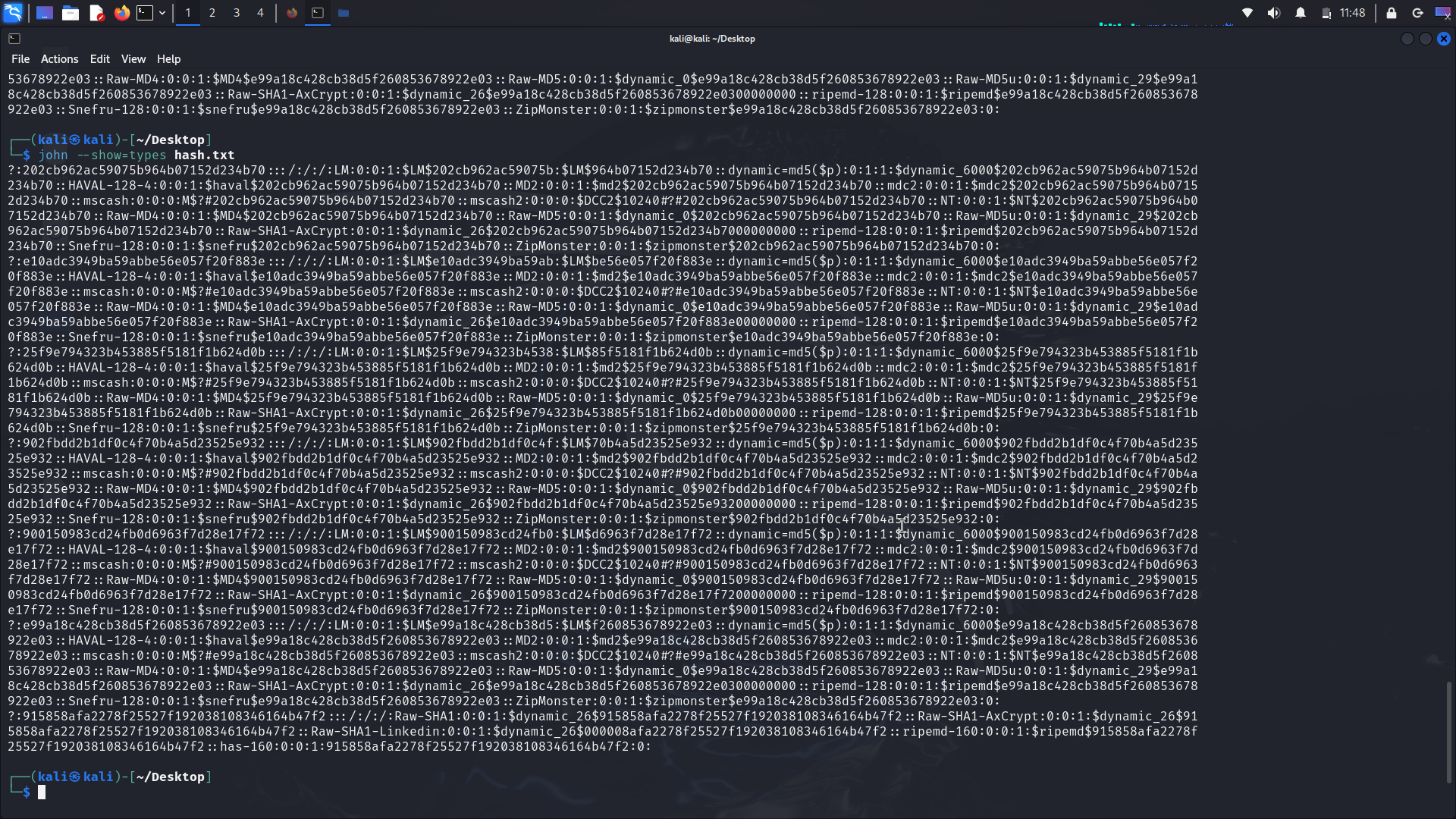
Basic usage of John The Ripper:



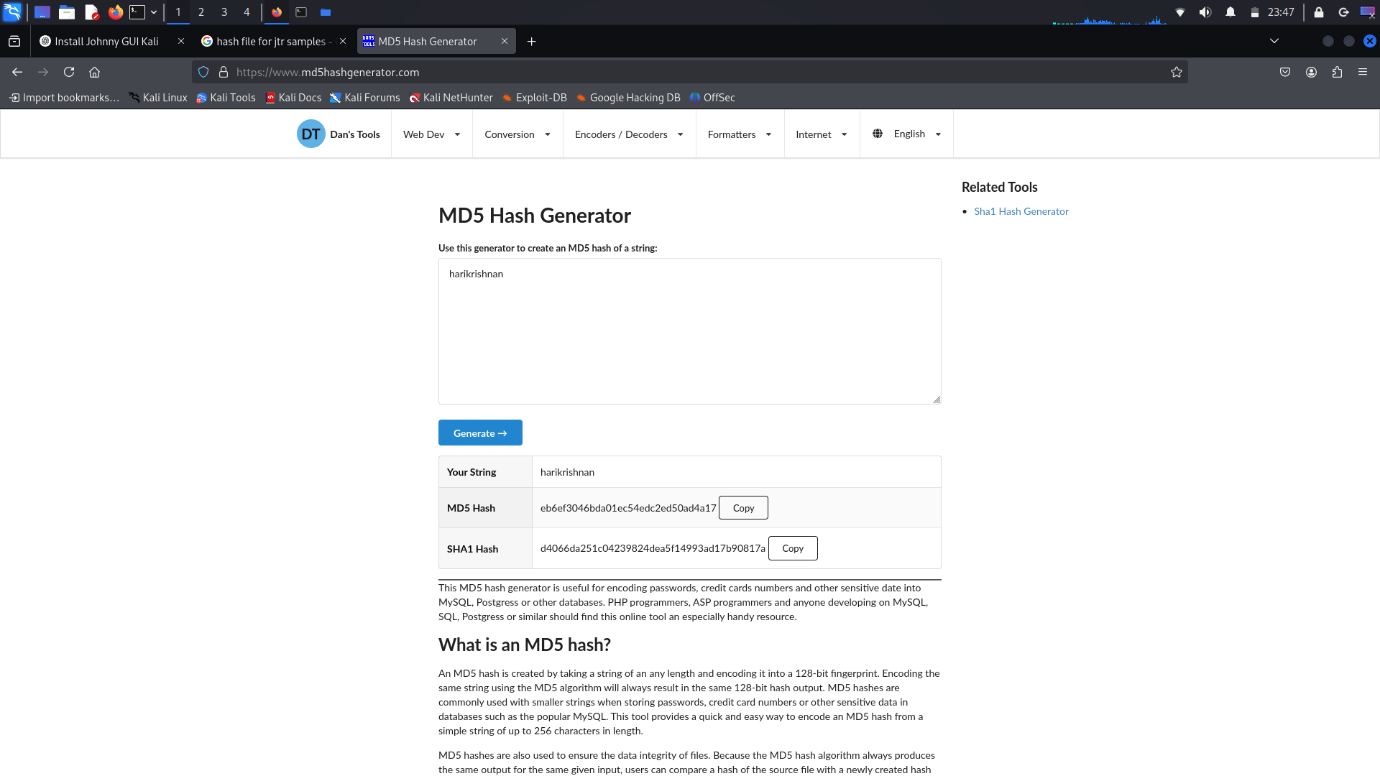
**Formats Supported in John the Ripper**



**Find the Hash Format in files**

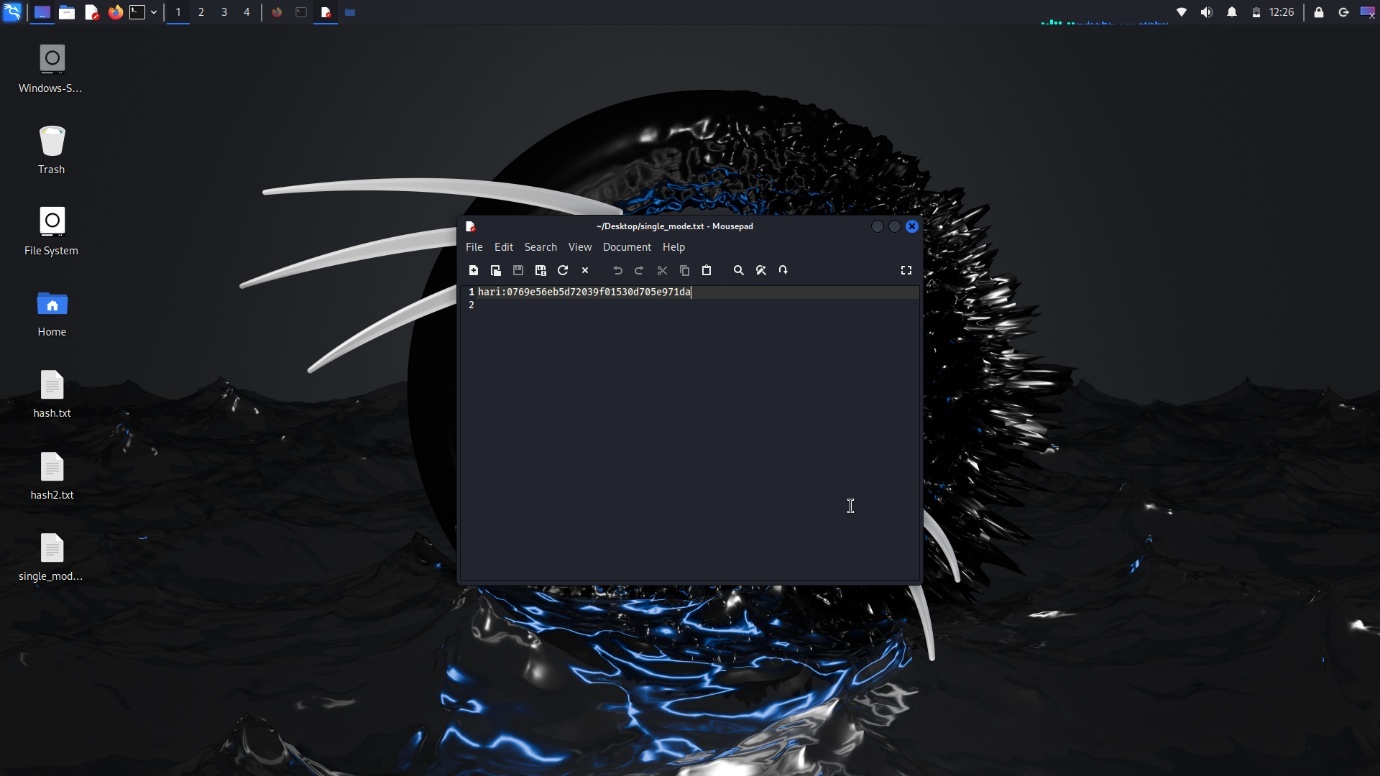


Hash generation:

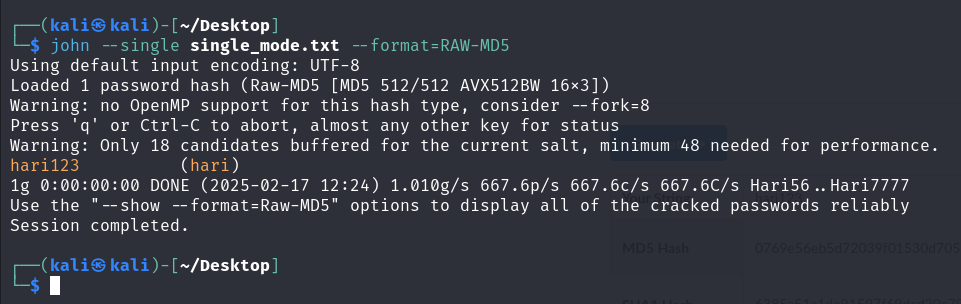


**CLI: Single Crack Mode**

Hash file creation (single\_mode.txt)

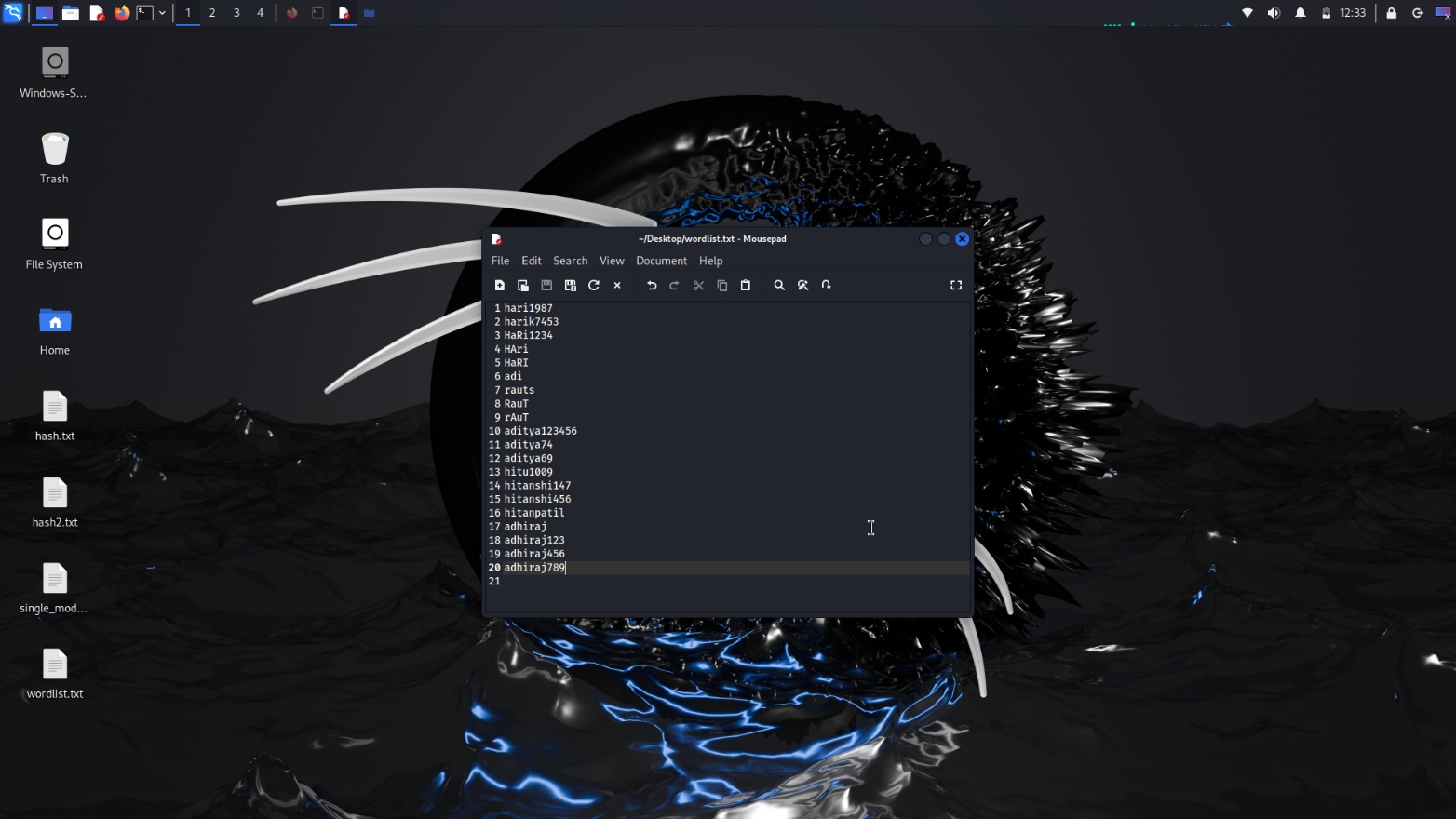


Single Crack mode:



**CLI: Wordlist Mode**

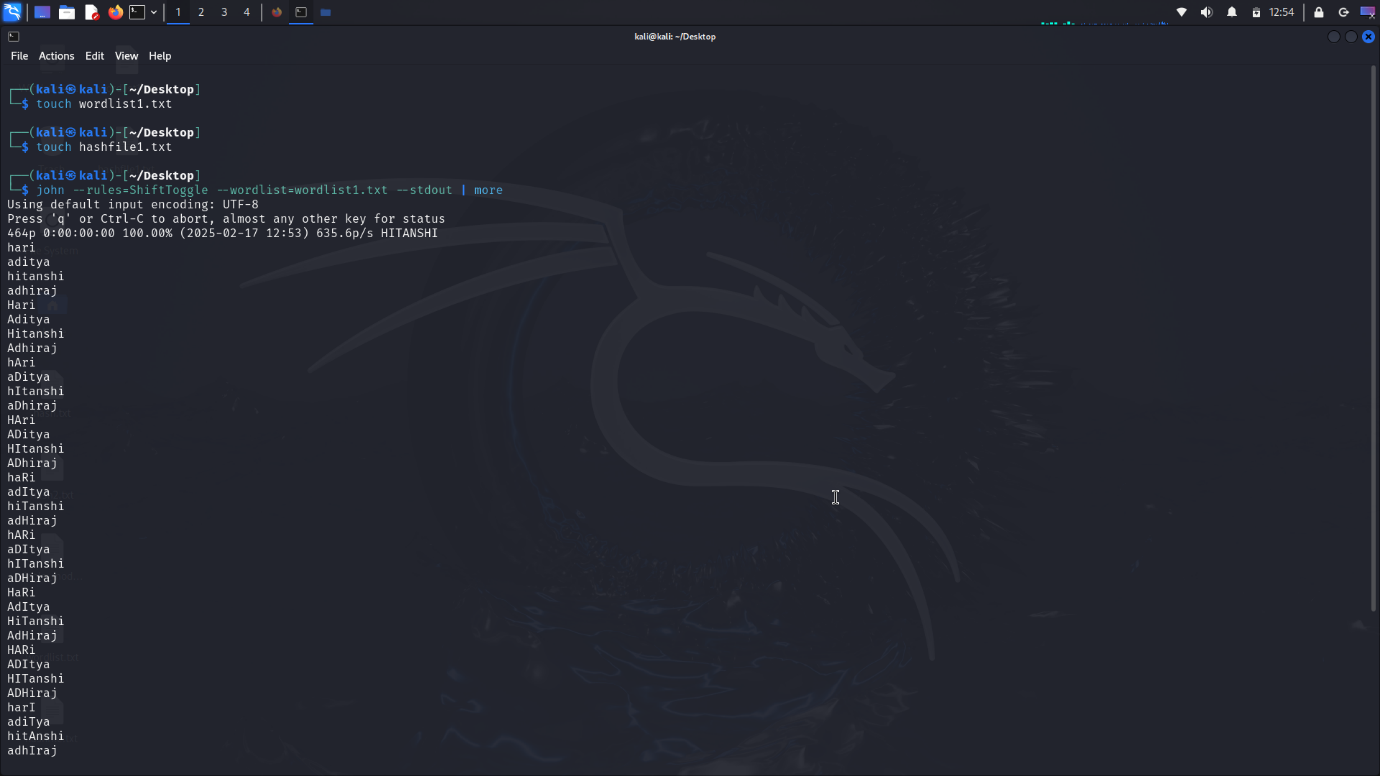
Wordlist Creation (wordlist.txt)



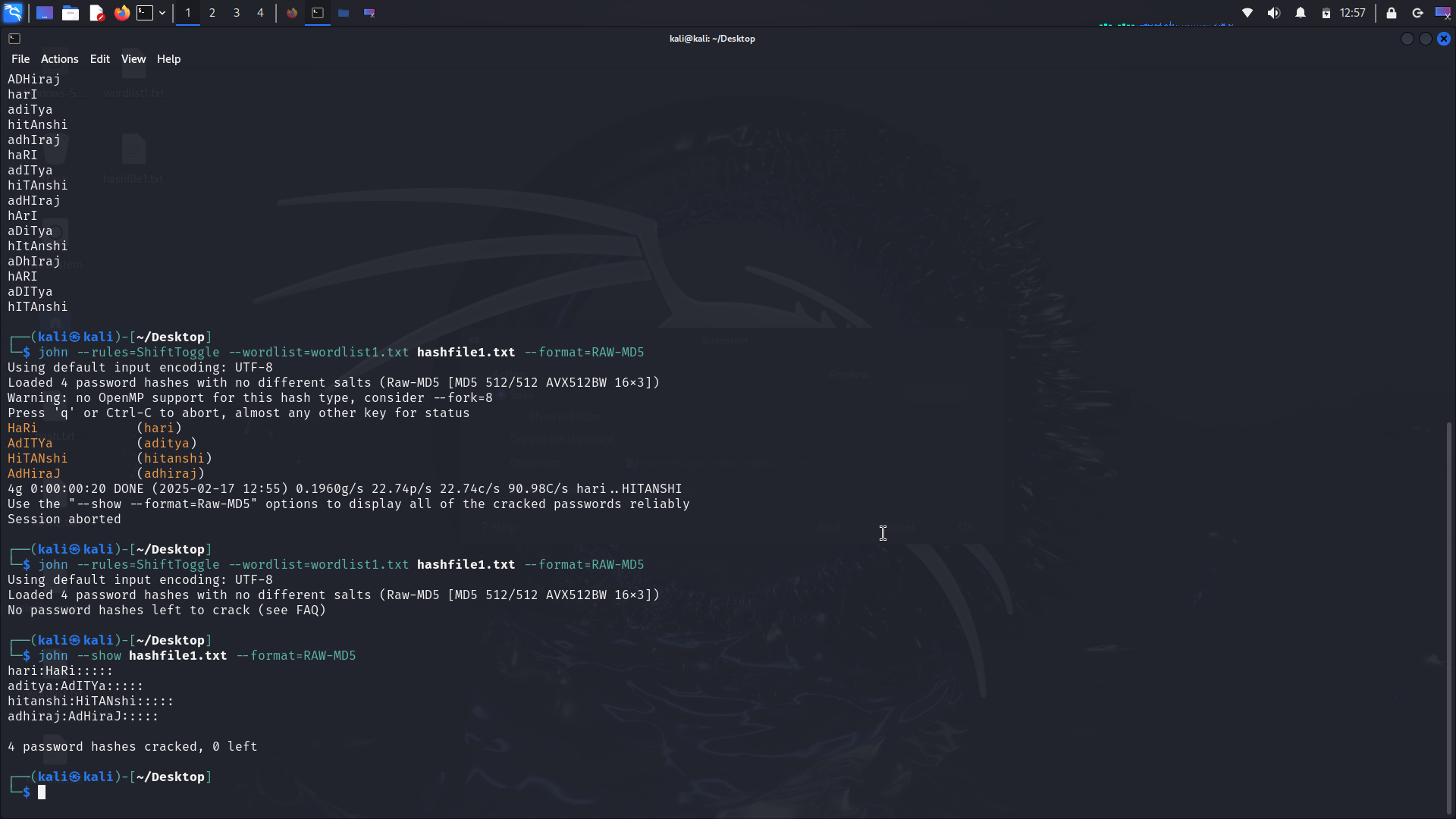


**CLI: Incremental Mode**

ShiftToggle in Incremental mode:

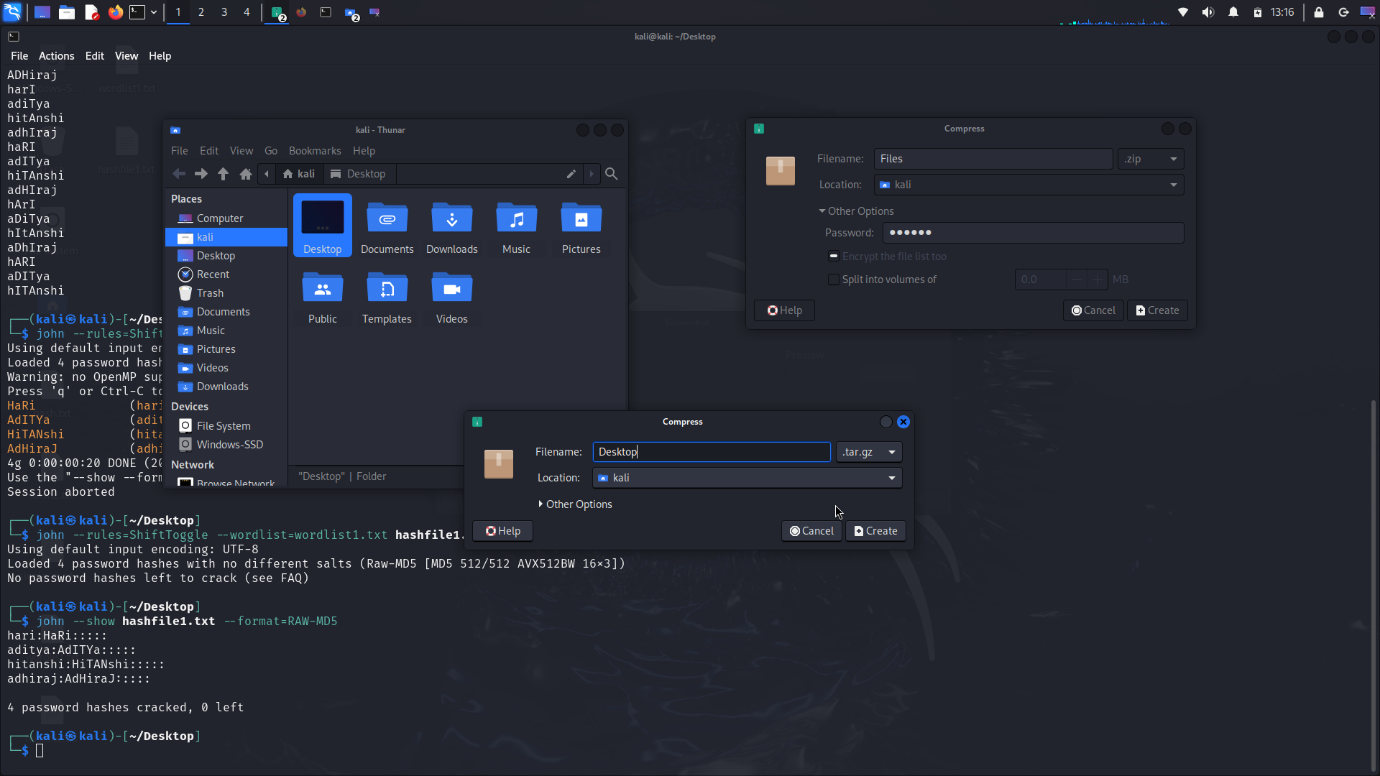


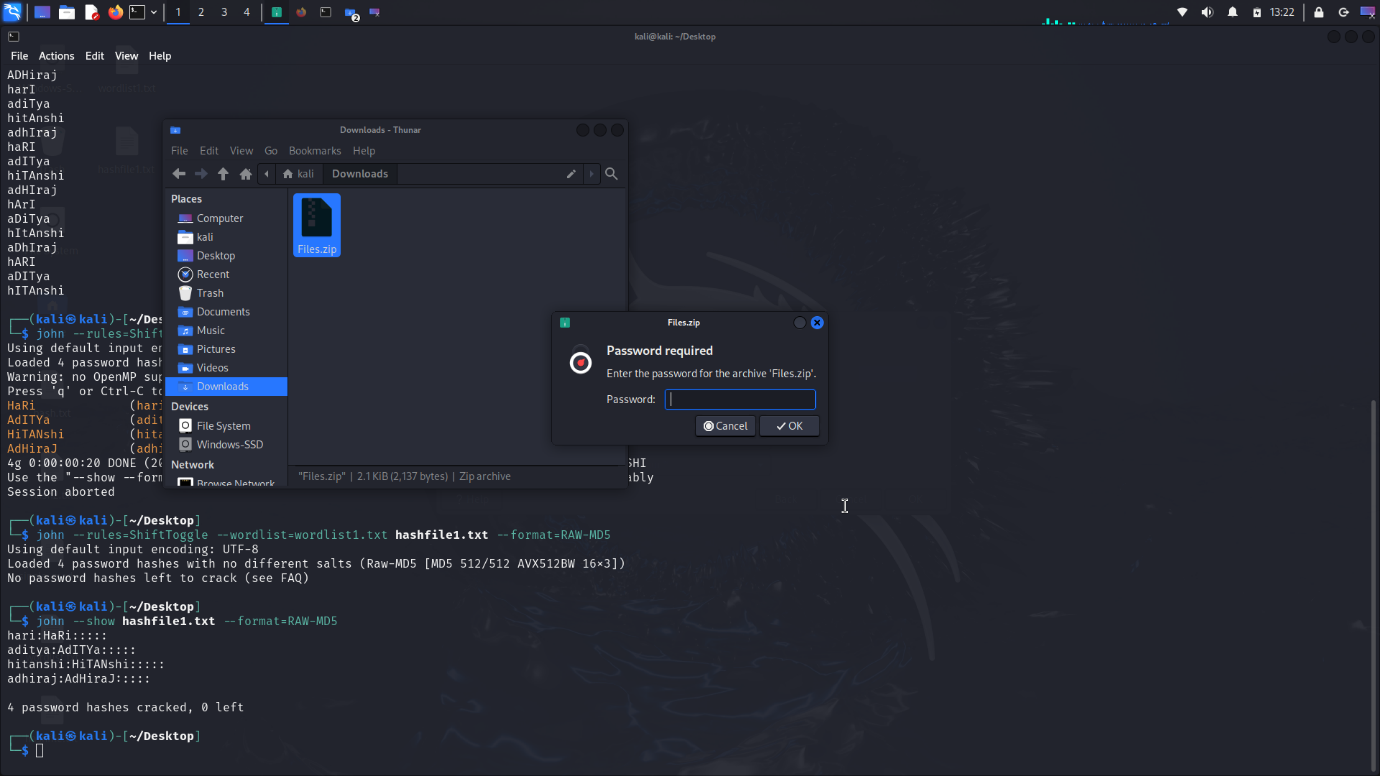
Incremental mode:



**CLI: Password cracking of ZIP file**

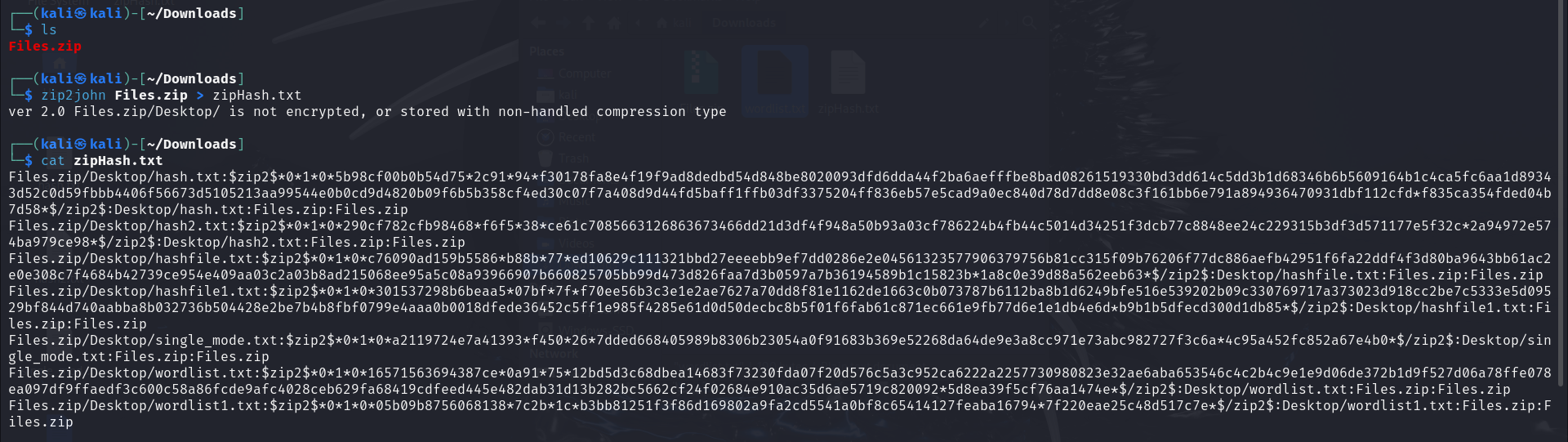
Password protected ZIP file creation (Files.zip):





Password cracking on zip files:

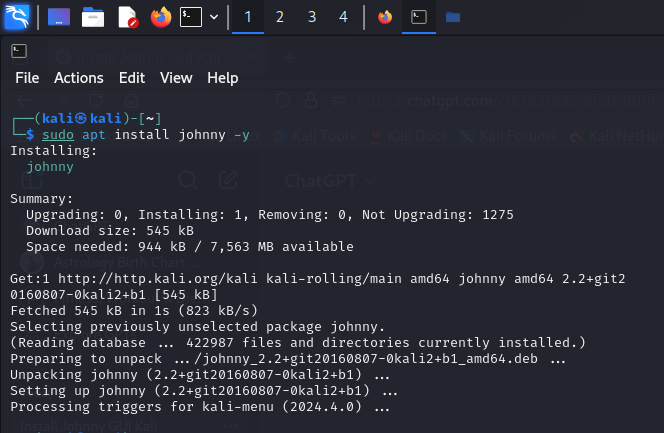
Zip file hash:



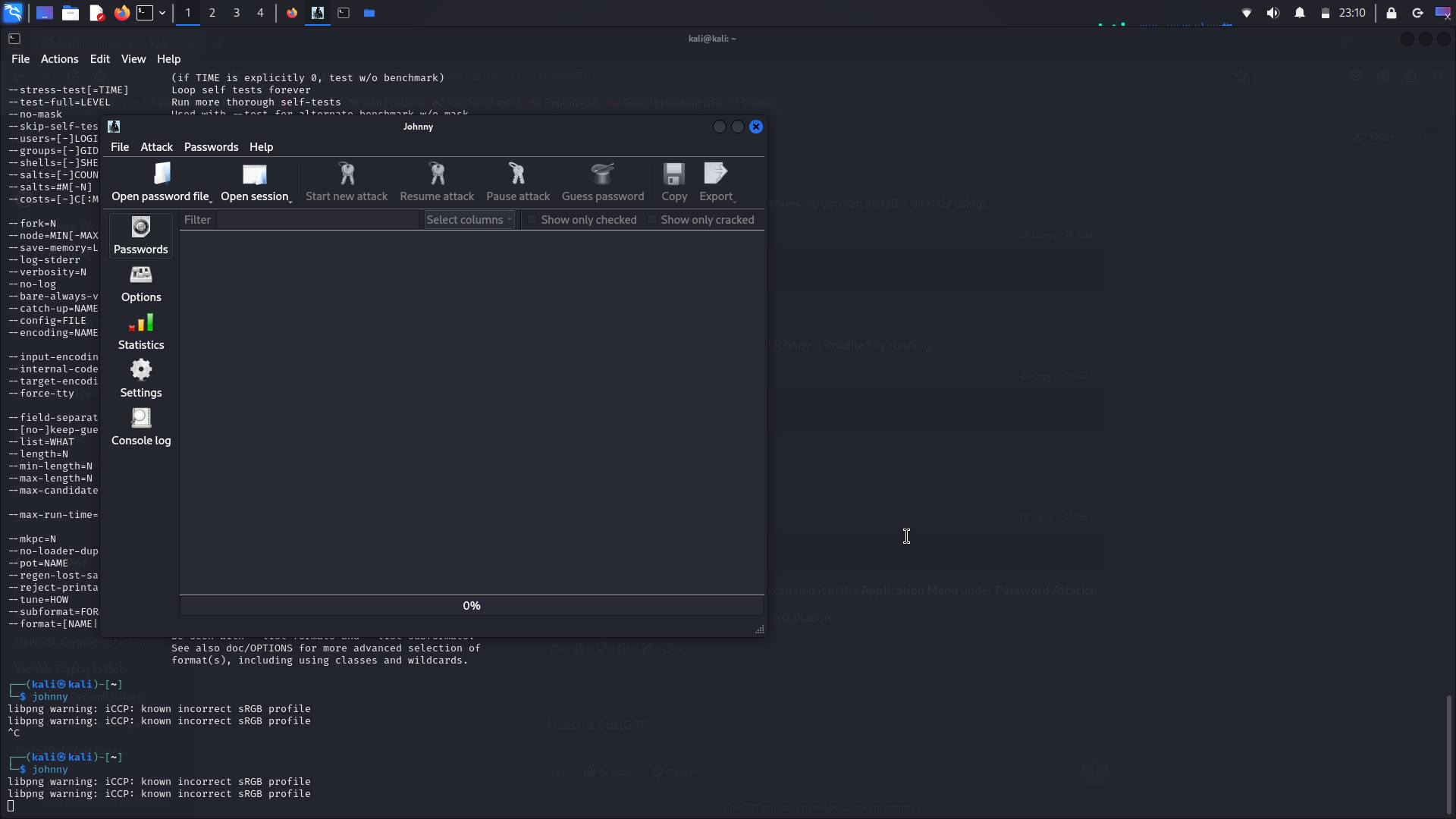
Password cracking on zip files:

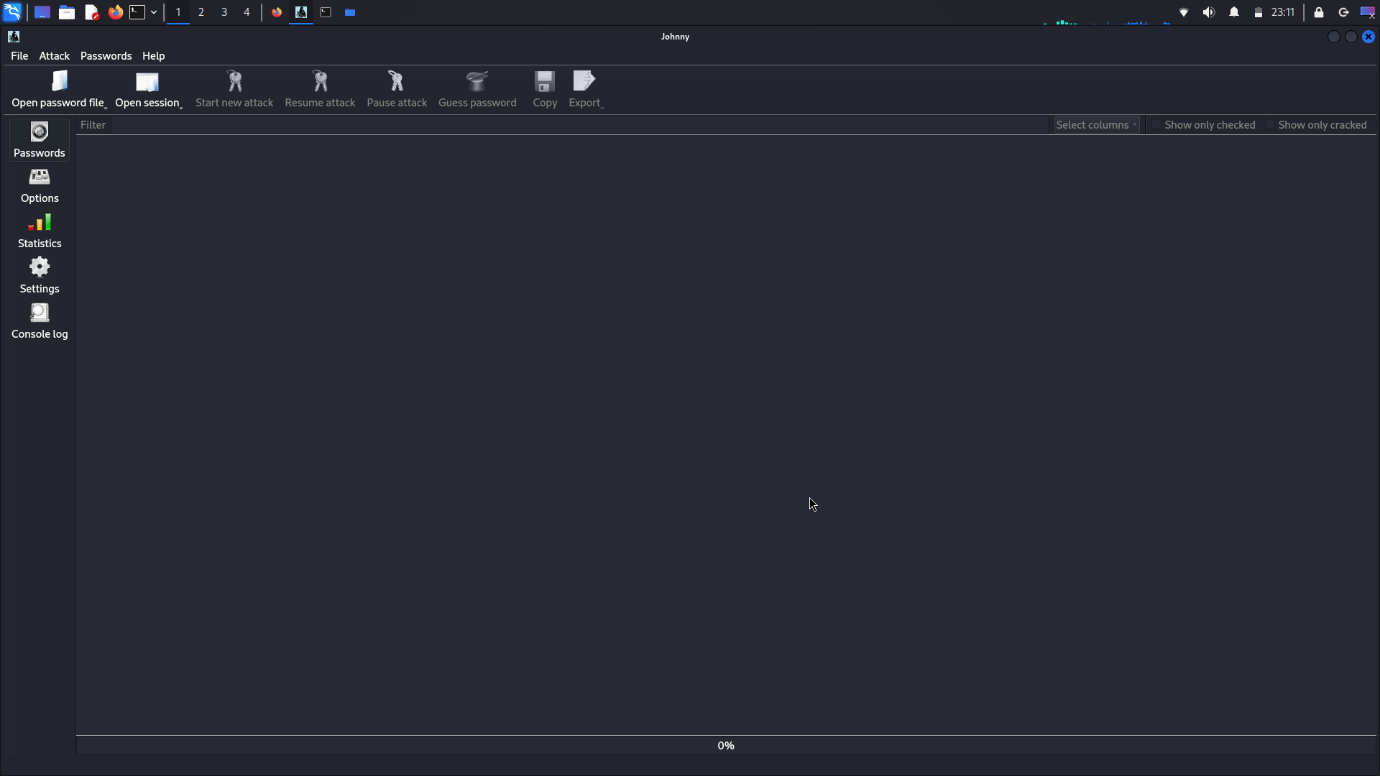


**Exploring the John the Ripper GUI**



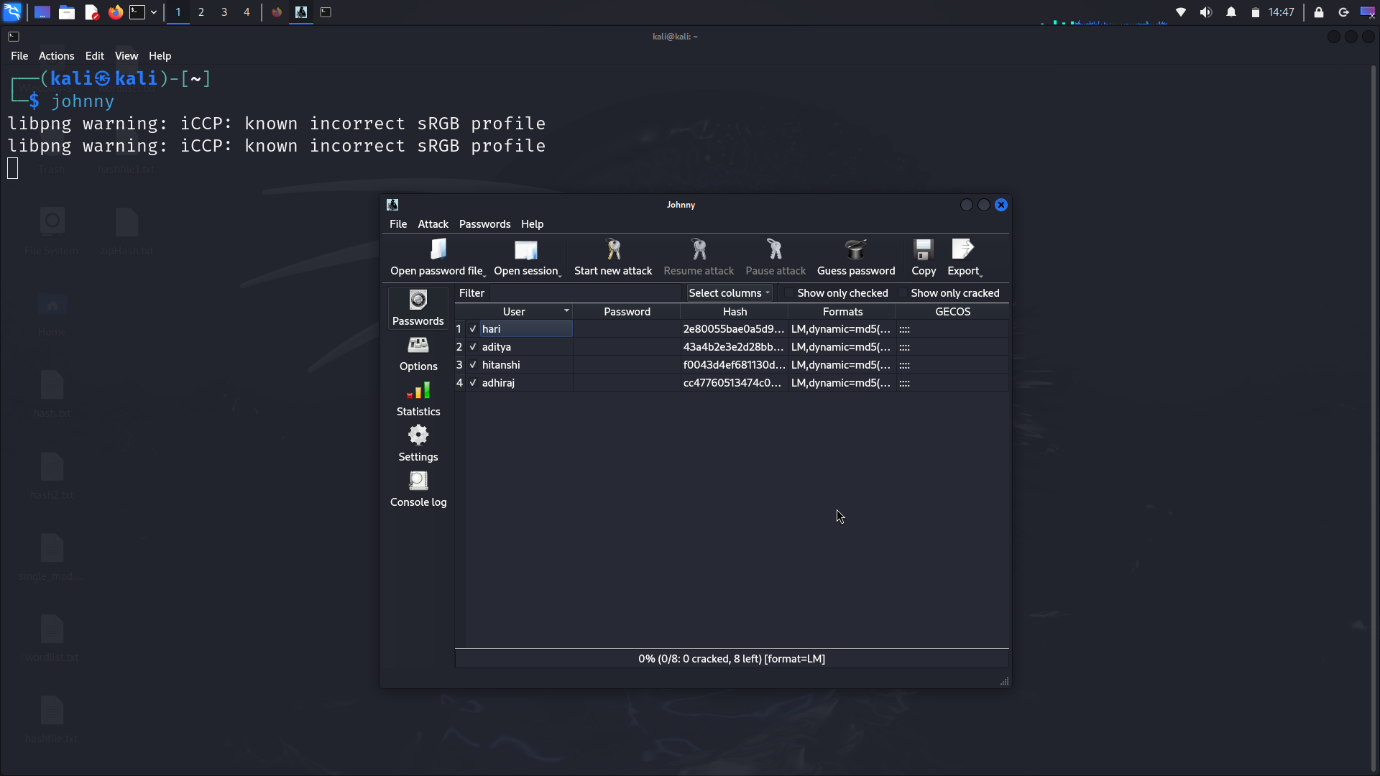
GUI:



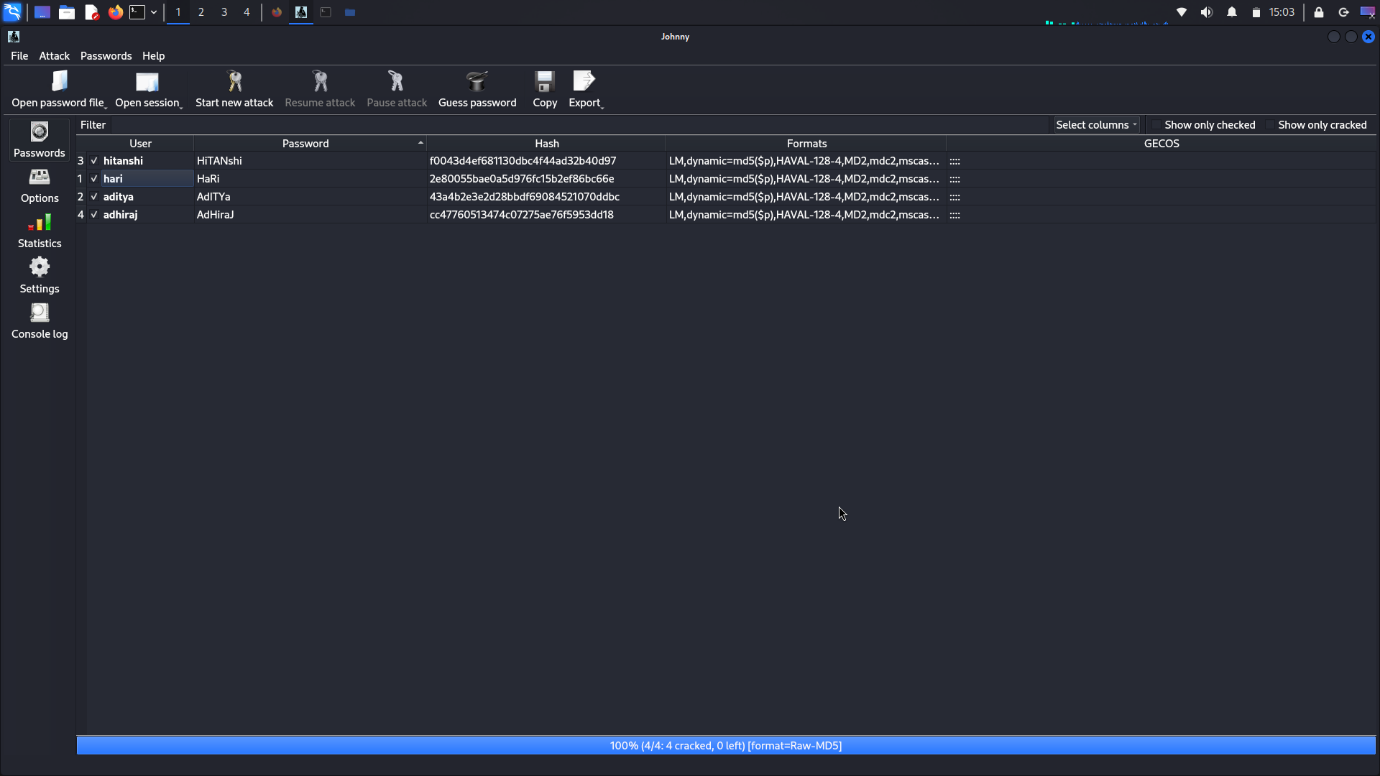


**GUI Mode: Multi-Mode Demonstration**

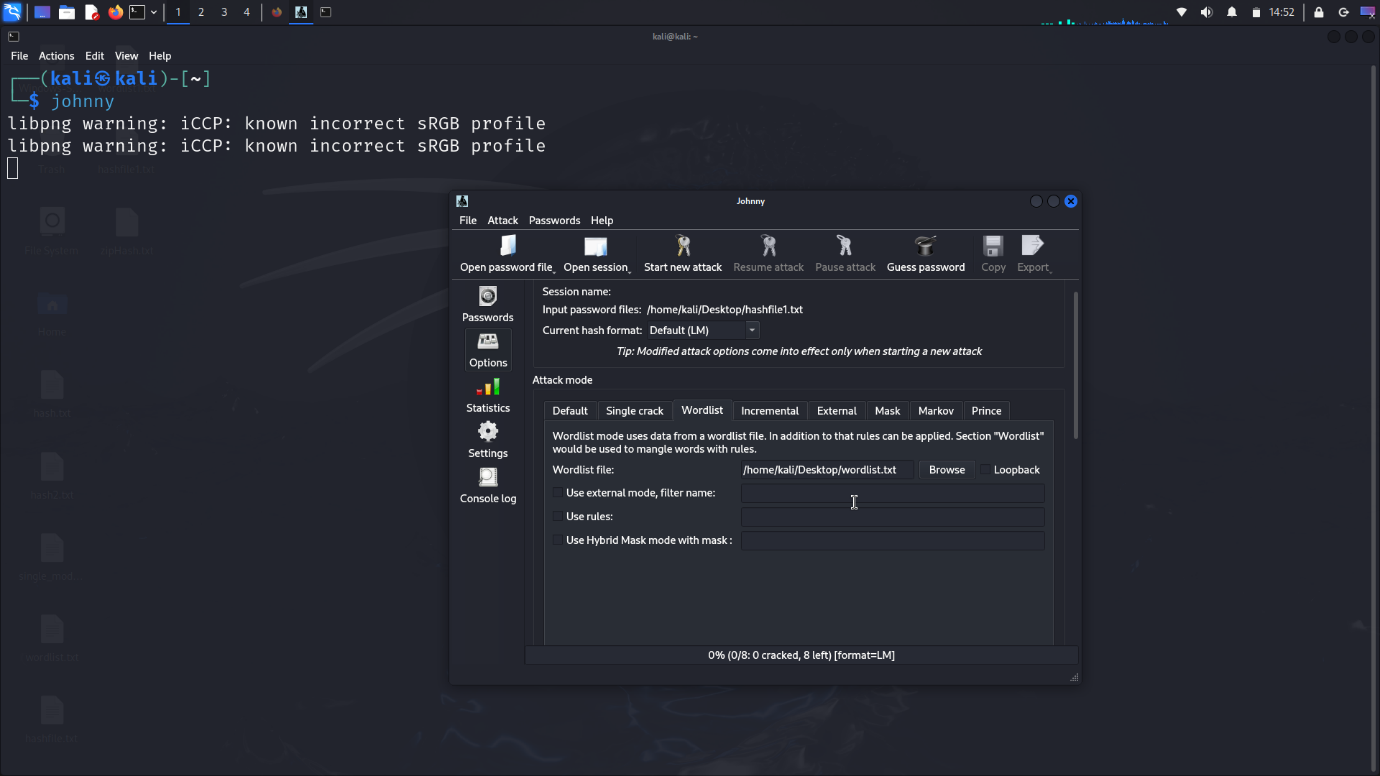
Open Password file:



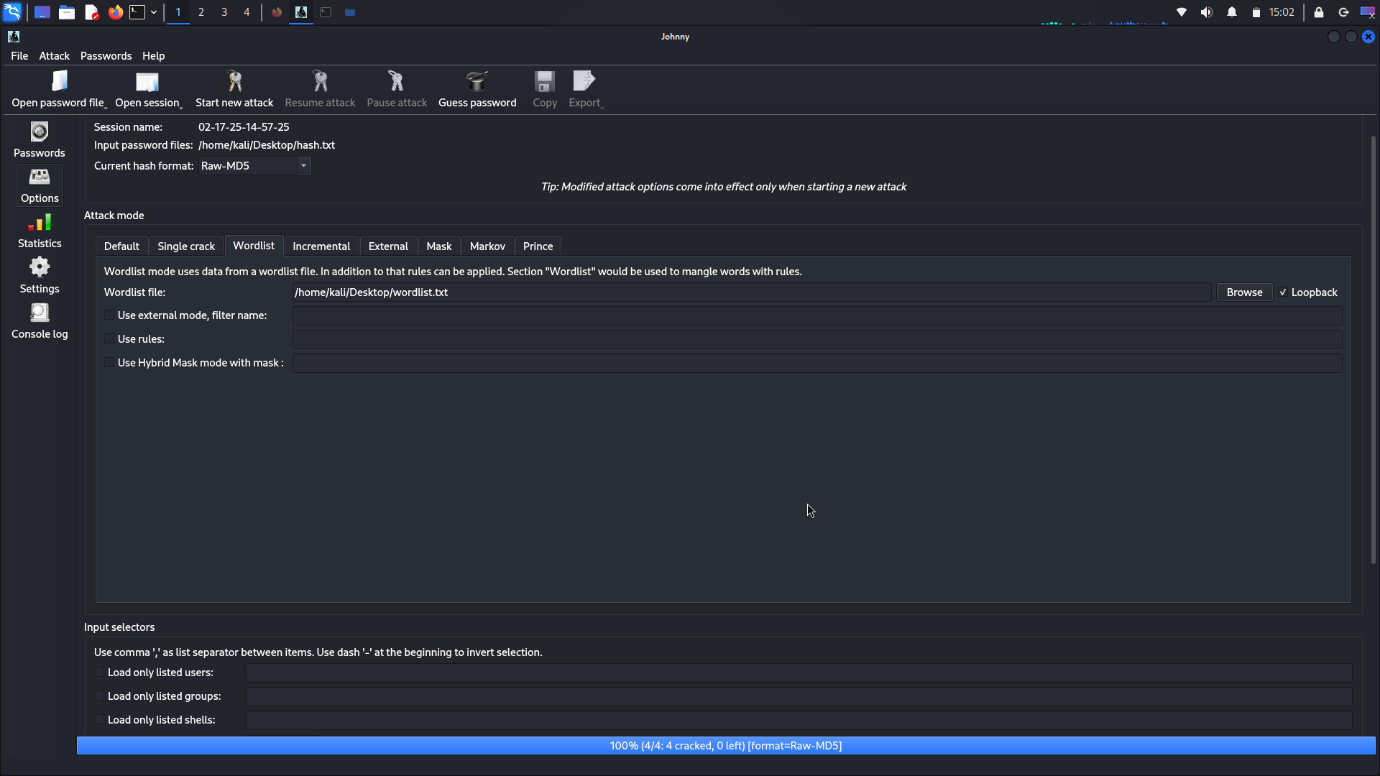
Using Single Crack mode:

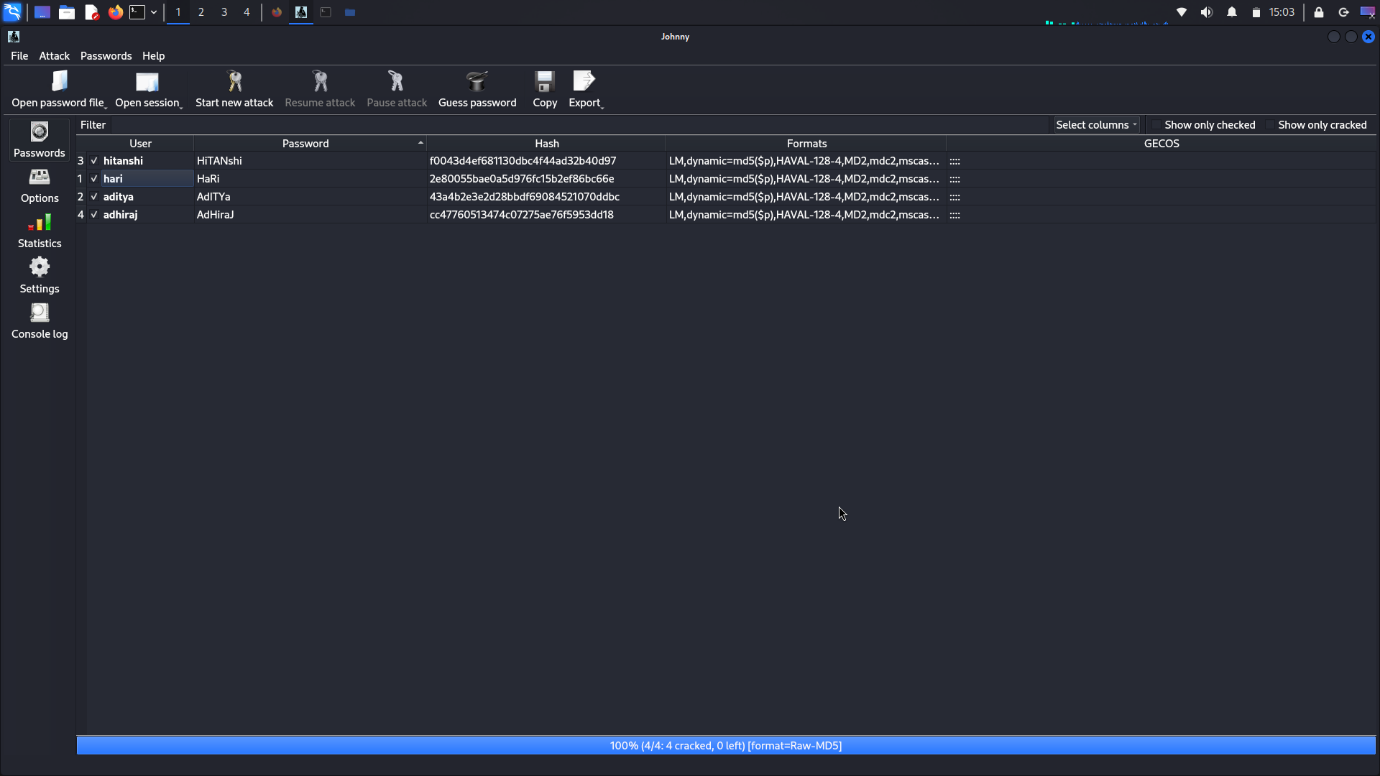


Open wordlist file:

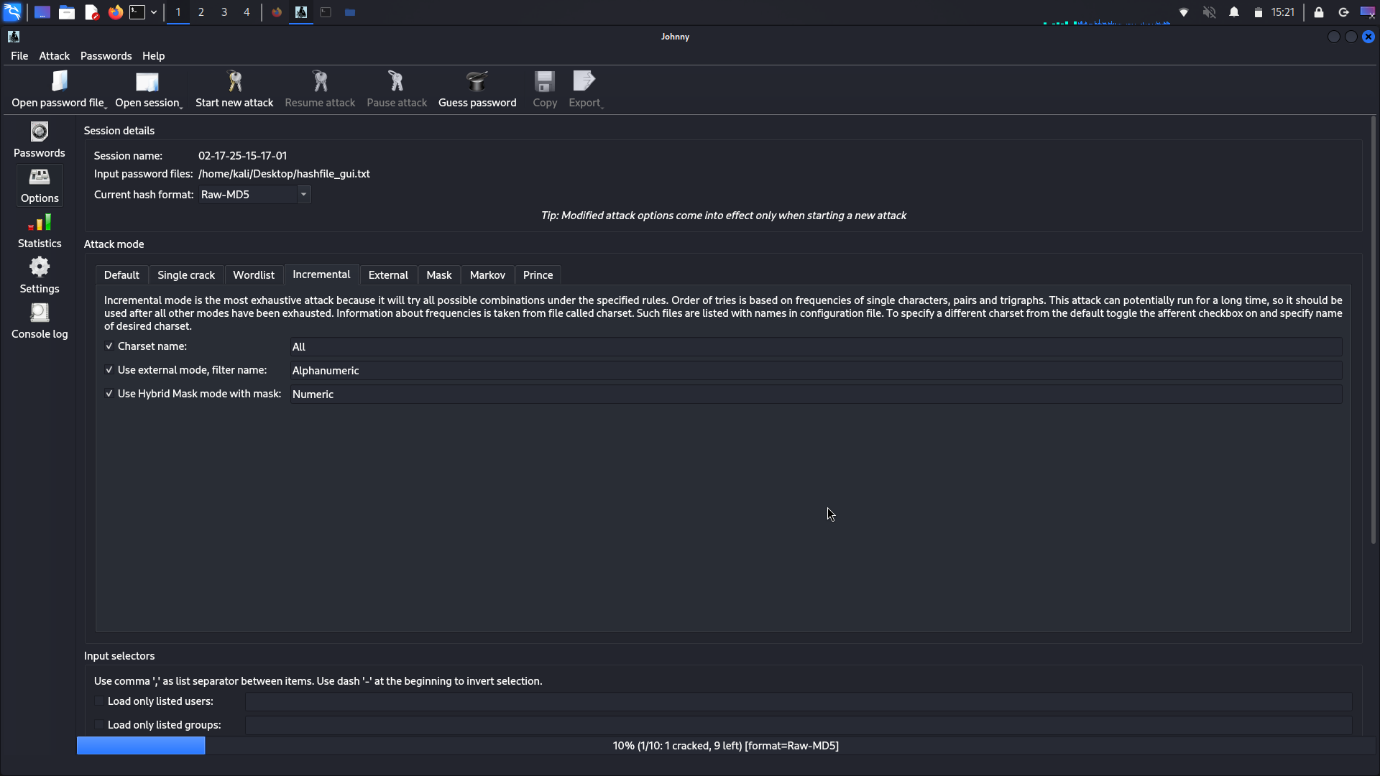


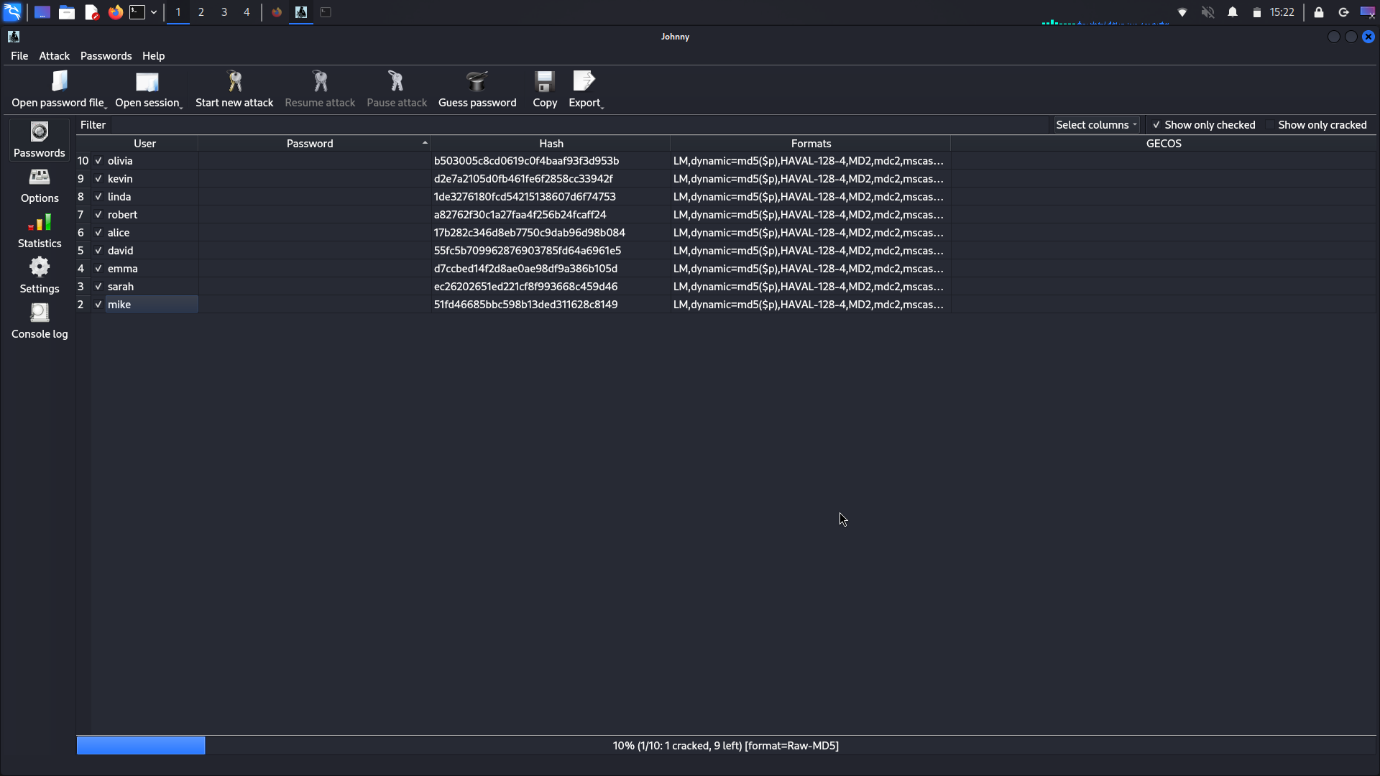
Using wordlist mode:

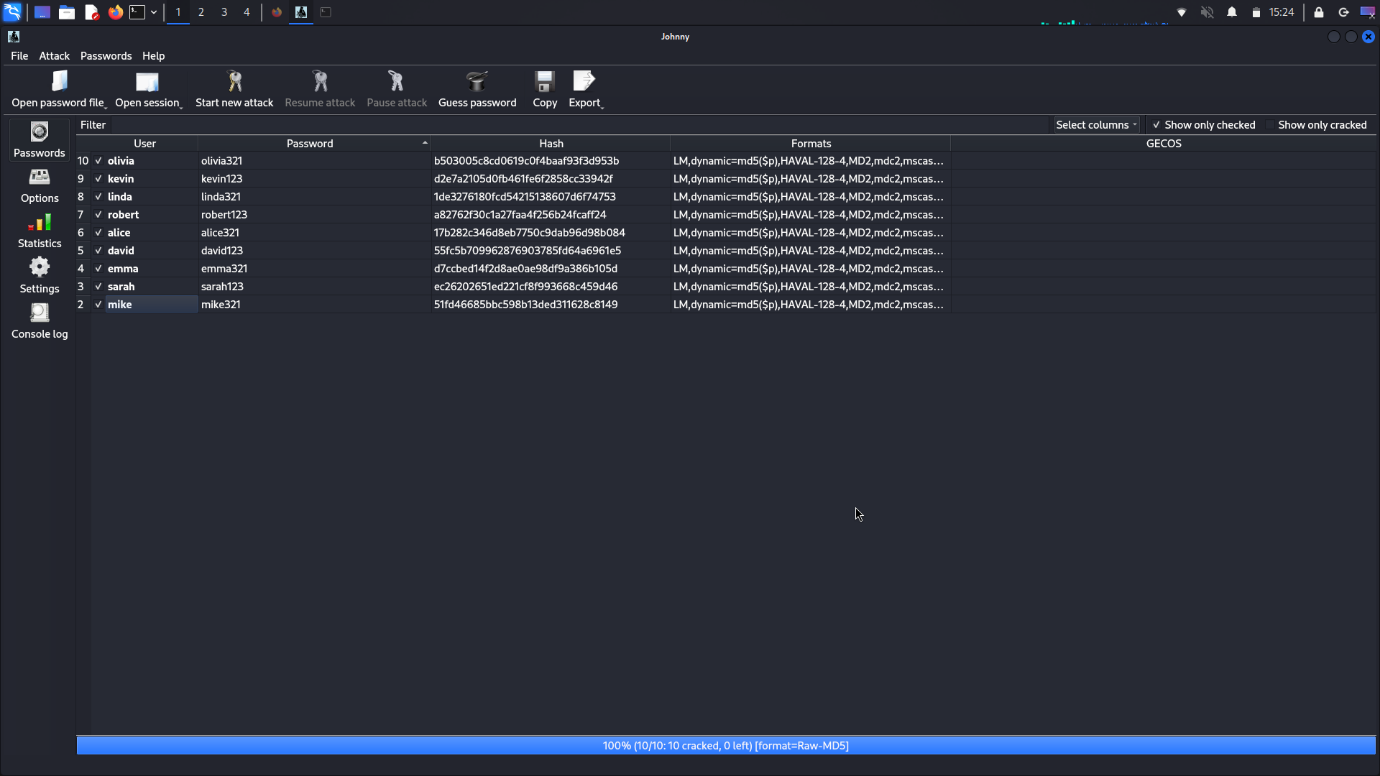




Using Incremental mode:

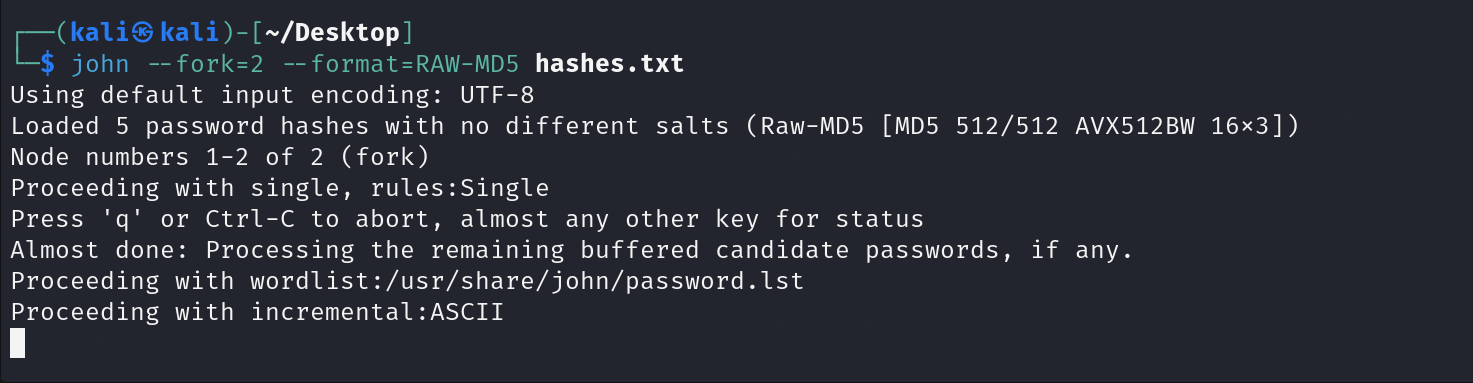




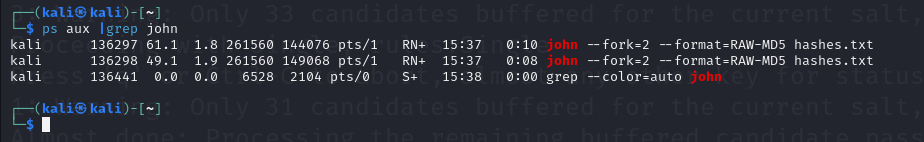


**Implementing fork() for Multiprocessing**

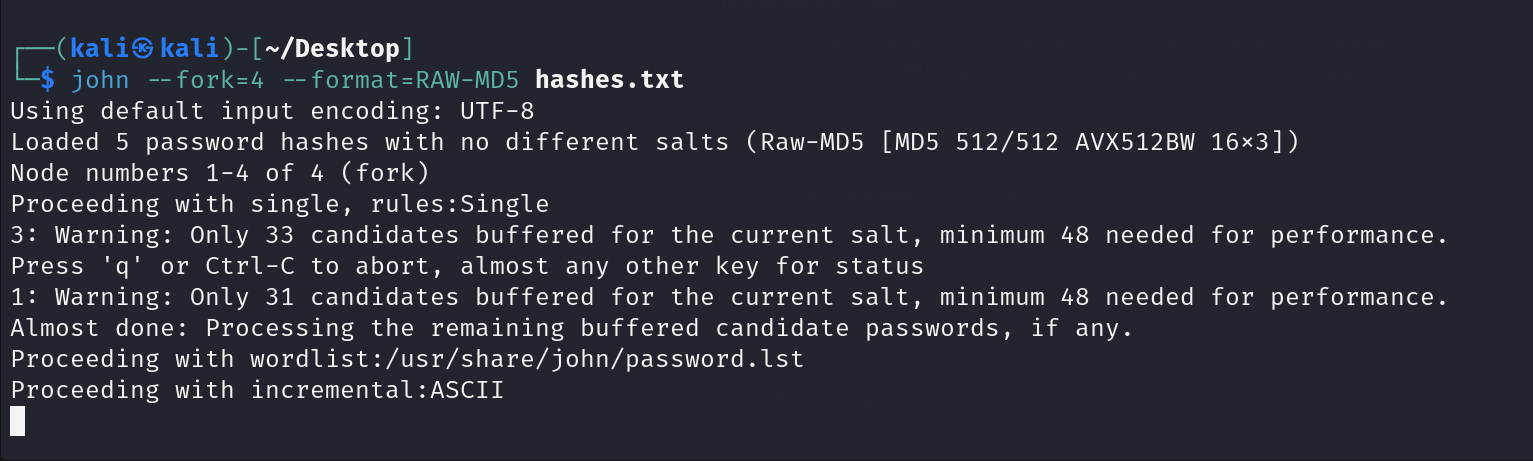
Using 2 Forks:

****

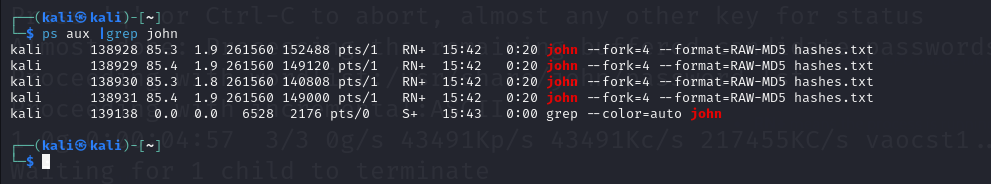
Verifying Forked John the Ripper Processes with ps aux:

****

Using 4 Forks:

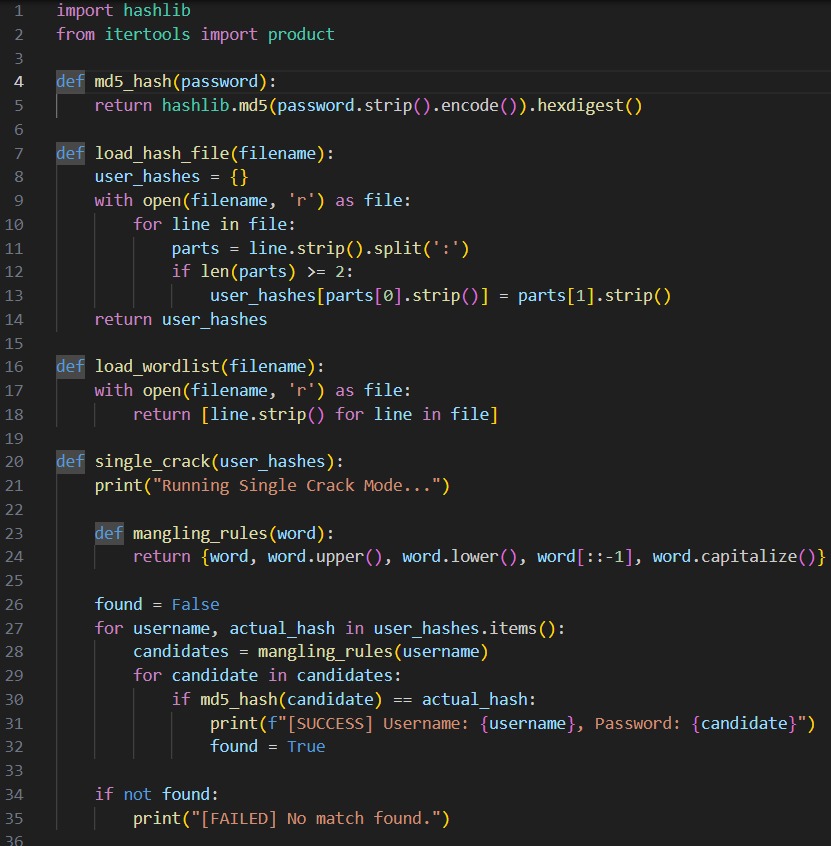


Verifying Forked John the Ripper Processes with ps aux:

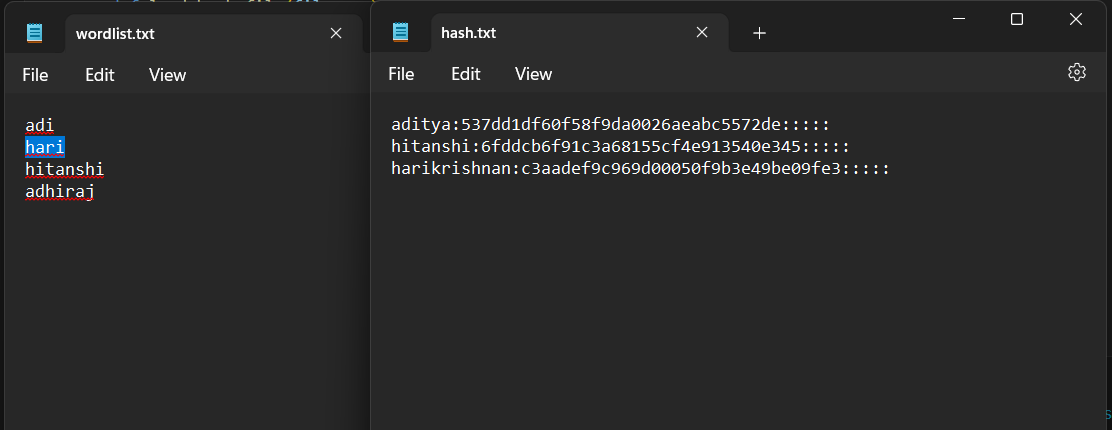


**Basic Implementation of John the Ripper in Python**

Python code (Full code Uploaded on GitHub):

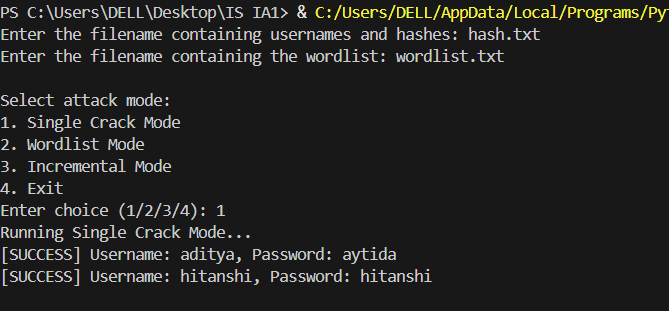


Files:

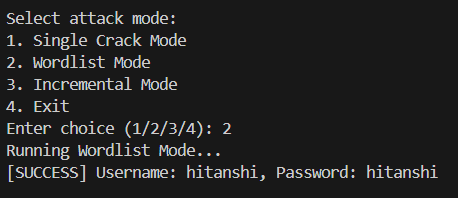


Output:

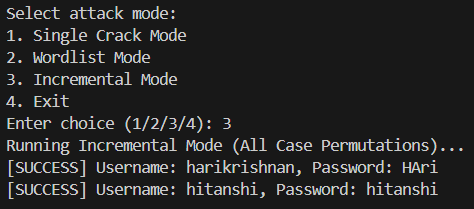
Using Single Crack Mode:



Using Wordlist mode:



Using Incremental mode:



Exit:

