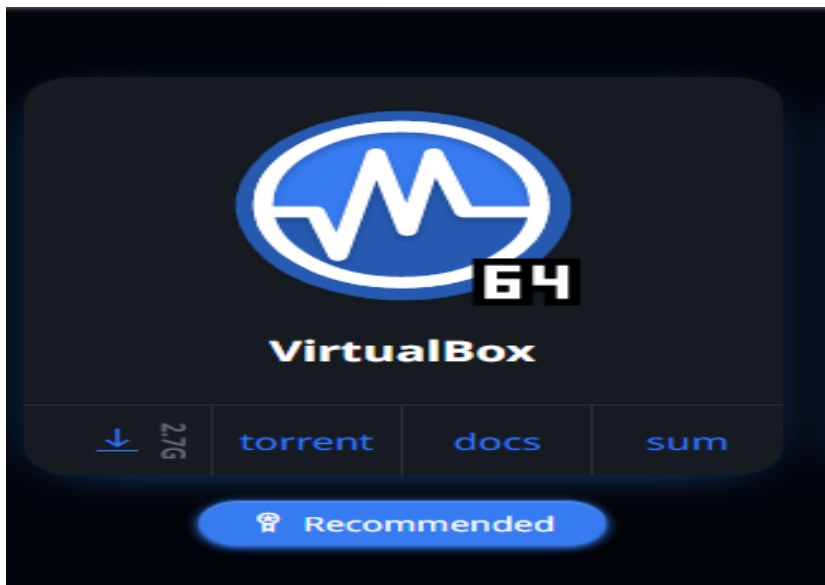


PERFORMING CHECKSUM ON A FILE

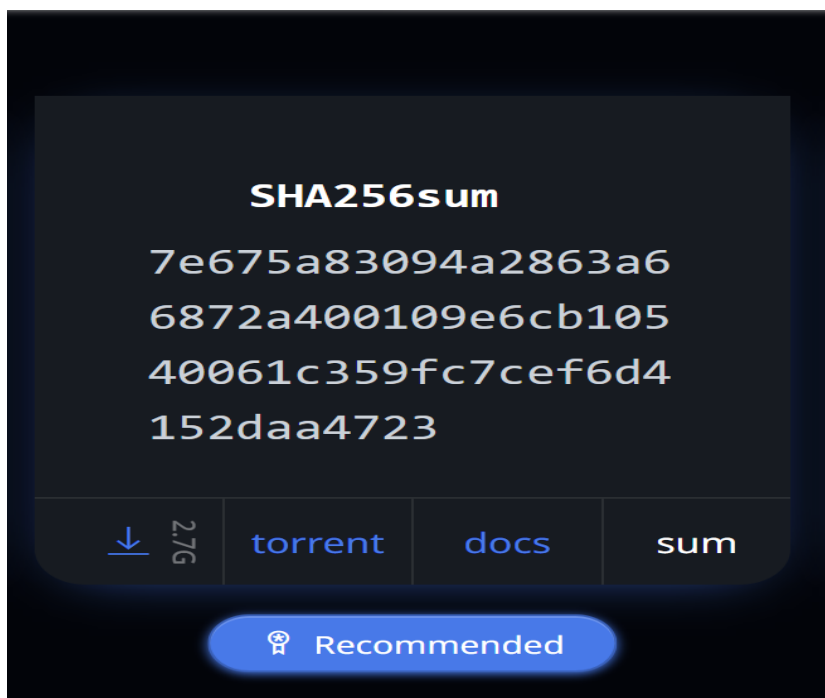
Checksum is a feature that allows users to be able to verify the authenticity and validity of a downloaded file on the internet. It leverages on the SHA256sum hash function amongst others.

- This helps to prevent users from installing malicious files to their devices.

1. Download the file to be verified. (Kali iso image file)



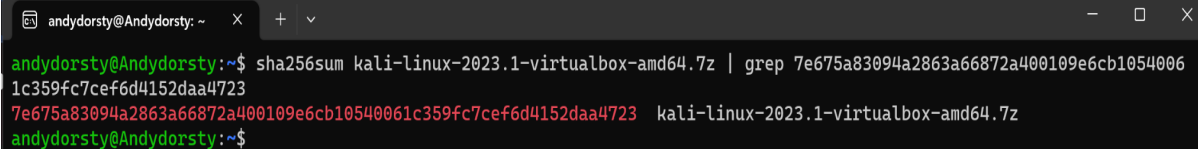
2. Check the original hash value of the file from the Original site downloaded.



3. Compute the hash value of the downloaded file.

```
andydorsty@Andydorsty:~$ sha256sum kali-linux-2023.1-virtualbox-amd64.7z
7e675a83094a2863a66872a400109e6cb10540061c359fc7cef6d4152daa4723 kali-linux-2023.1-virtualbox-amd64.7z
andydorsty@Andydorsty:~$
```

4. Comparing computed hash value with the Original hash value on the site.

A terminal window with a title bar showing 'andydorsty@Andydorsty: ~'. The terminal content shows the same sha256sum command as in step 3, followed by a grep command that filters the output to show only the line containing the specific hash value. The output line is highlighted in red.

```
andydorsty@Andydorsty:~$ sha256sum kali-linux-2023.1-virtualbox-amd64.7z | grep 7e675a83094a2863a66872a400109e6cb1054006
1c359fc7cef6d4152daa4723
7e675a83094a2863a66872a400109e6cb10540061c359fc7cef6d4152daa4723 kali-linux-2023.1-virtualbox-amd64.7z
andydorsty@Andydorsty:~$
```

NB: The red hash value is an indication that the hash value of the downloaded file and that of the Original hash value of the file matches.