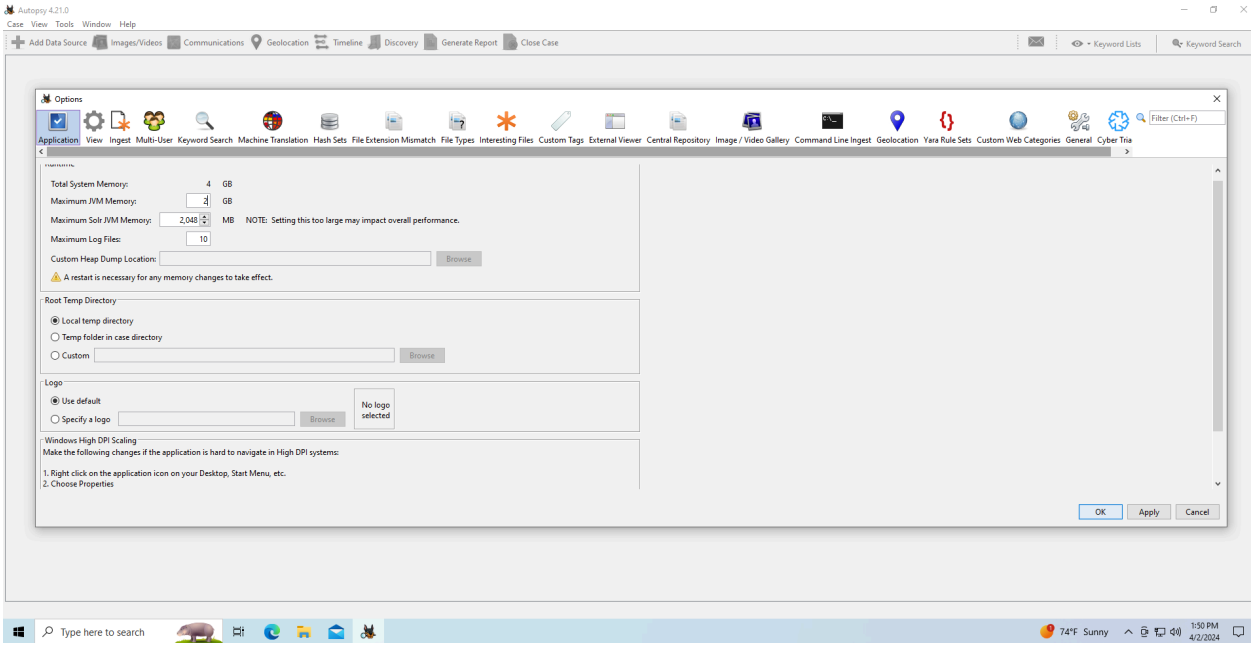
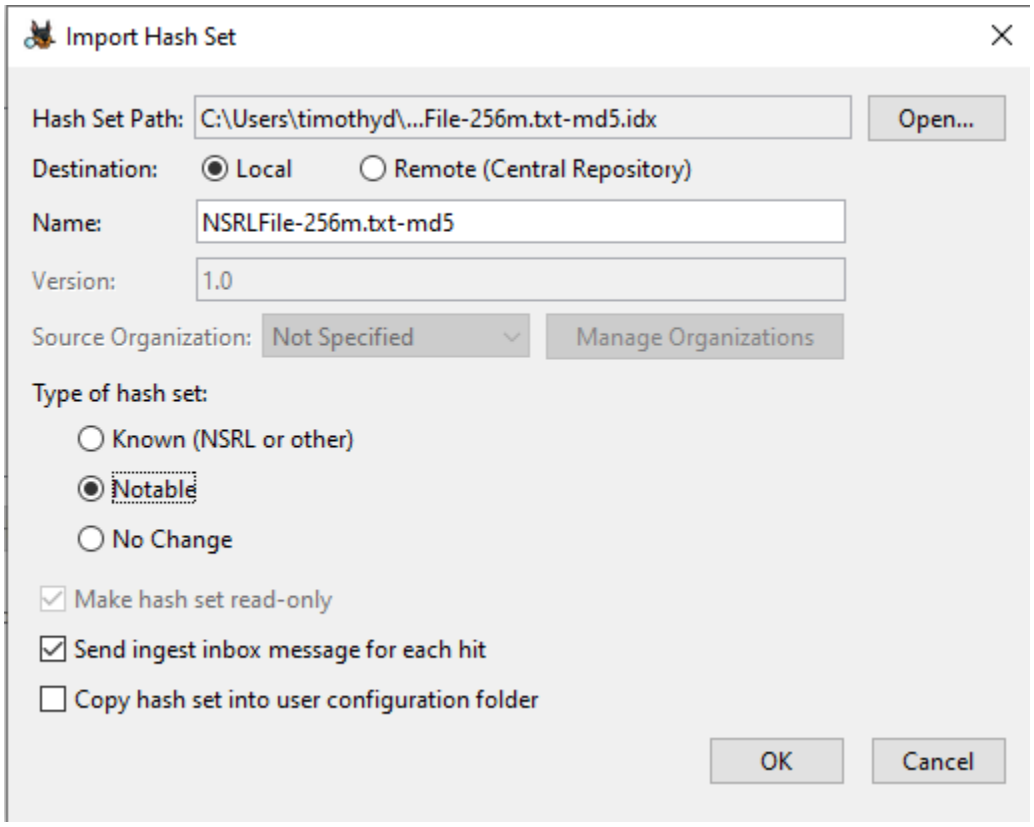
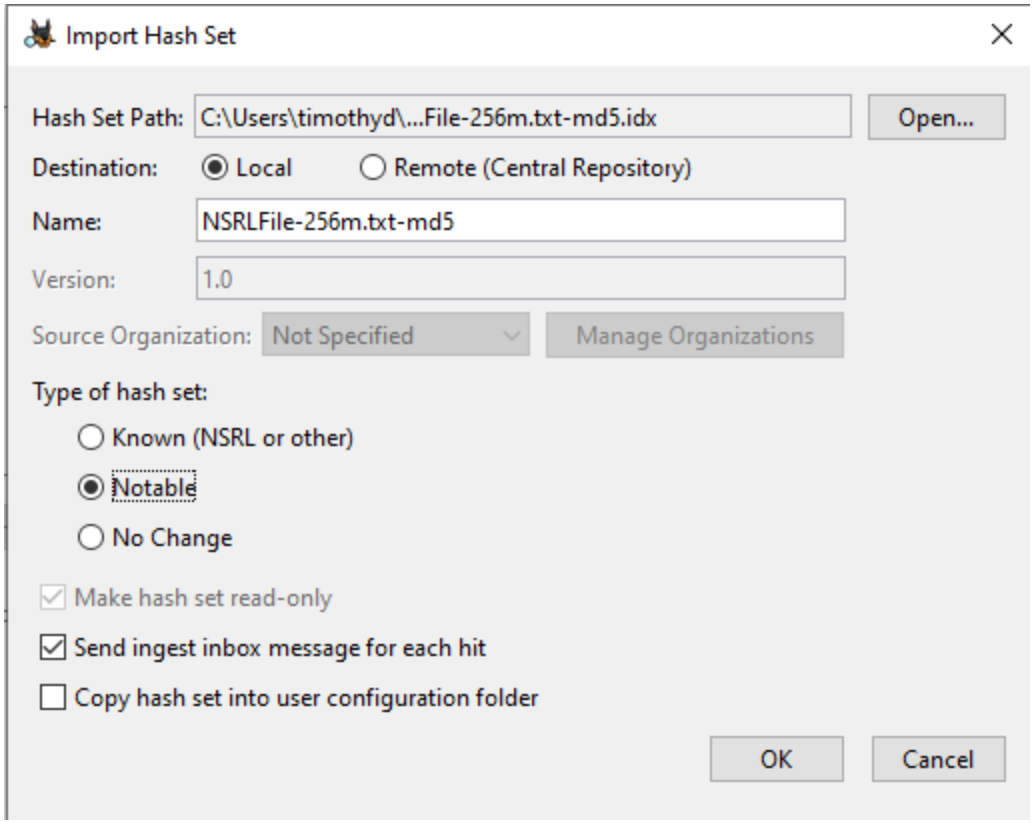
Task 1:



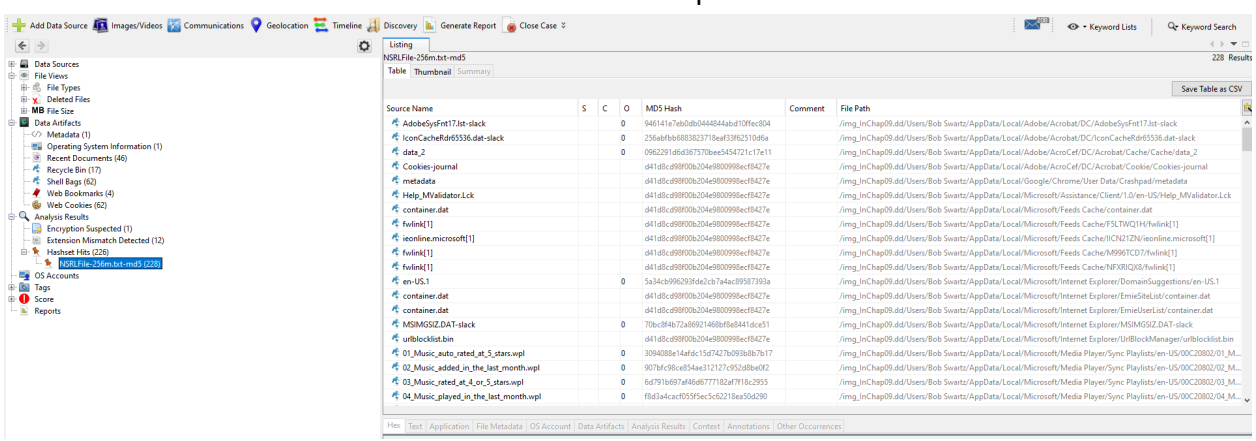
In this step, I have downloaded the NSRL. I am now in Autopsy and increasing the Max JVM Memory to 2 GB.



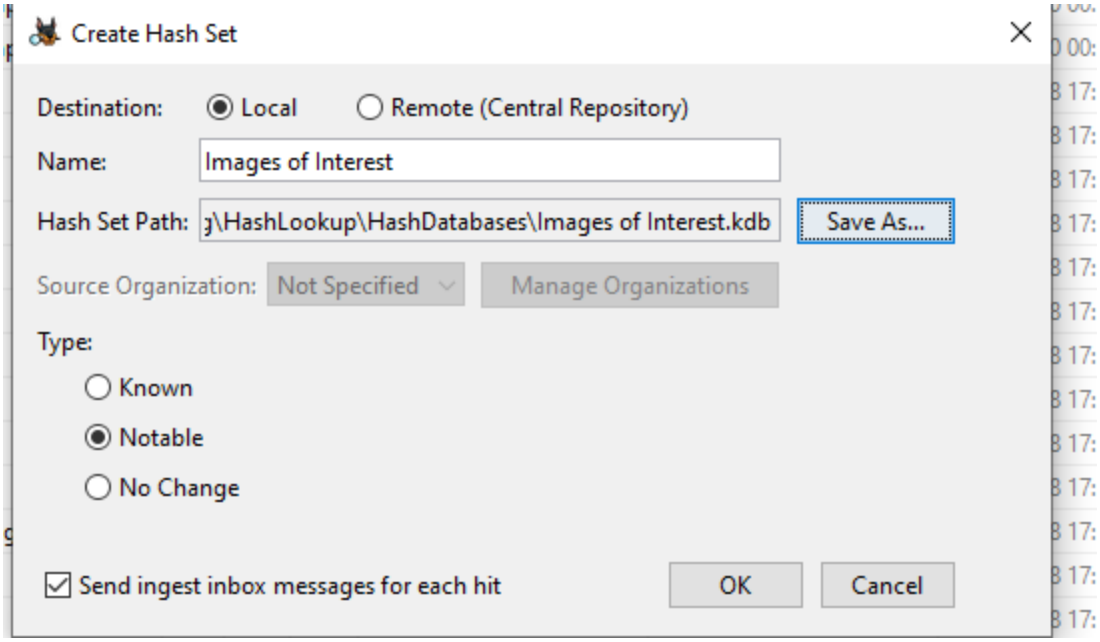
Here I am importing the database into Autopsy.



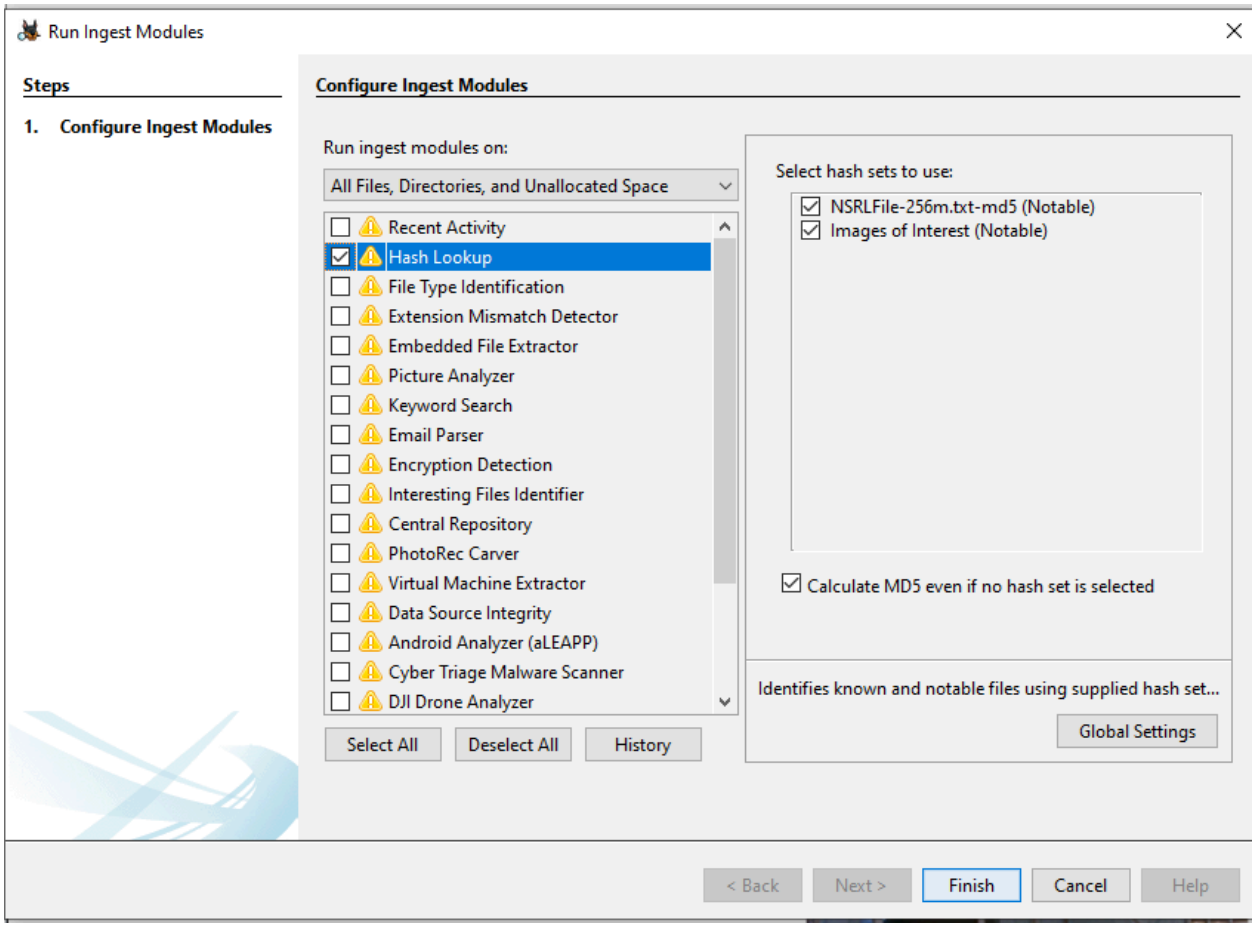
Here I have created a new case and added the InChapter09.dd file.



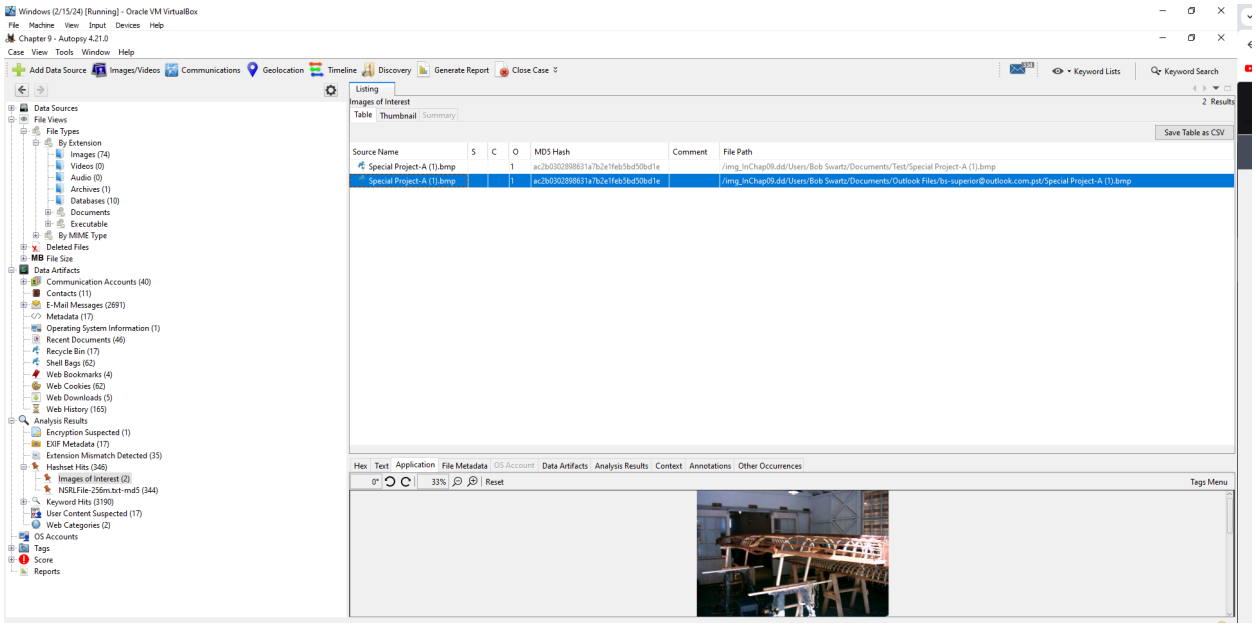
In this step, we can see that Autopsy identified the hash hits.



In this step, I am creating a hash set and filing it to the hash database.

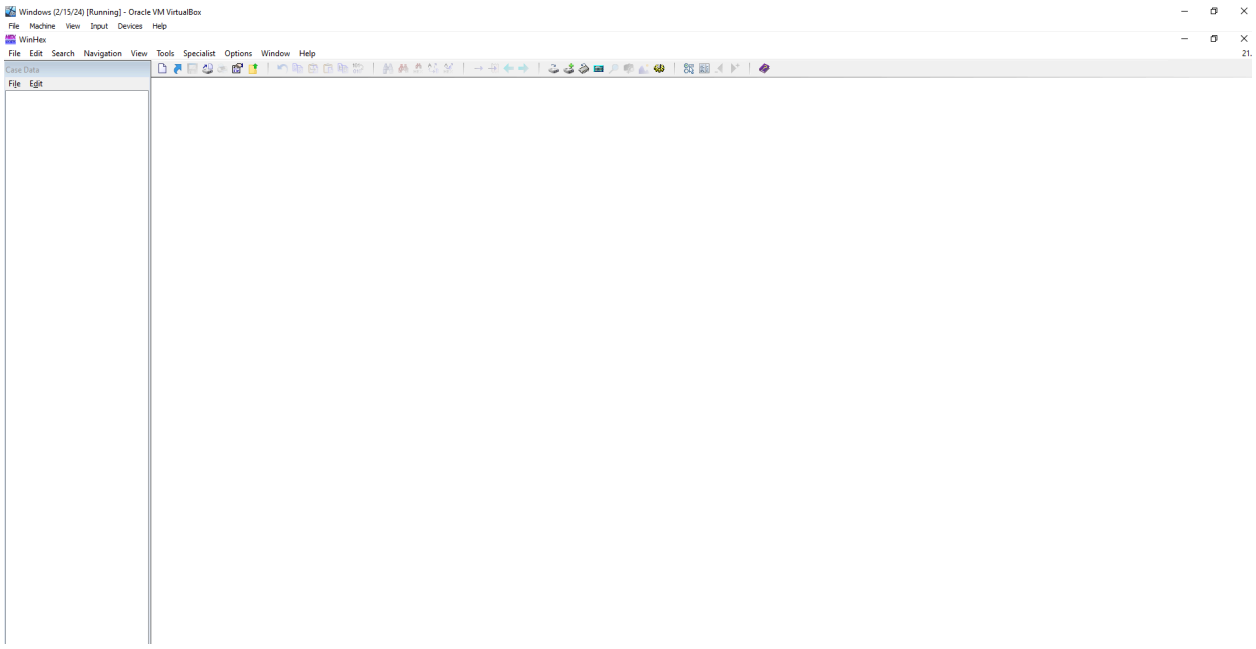


In this step, I am in “Run Ingest Modules” and can see that Images of Interest are listed.

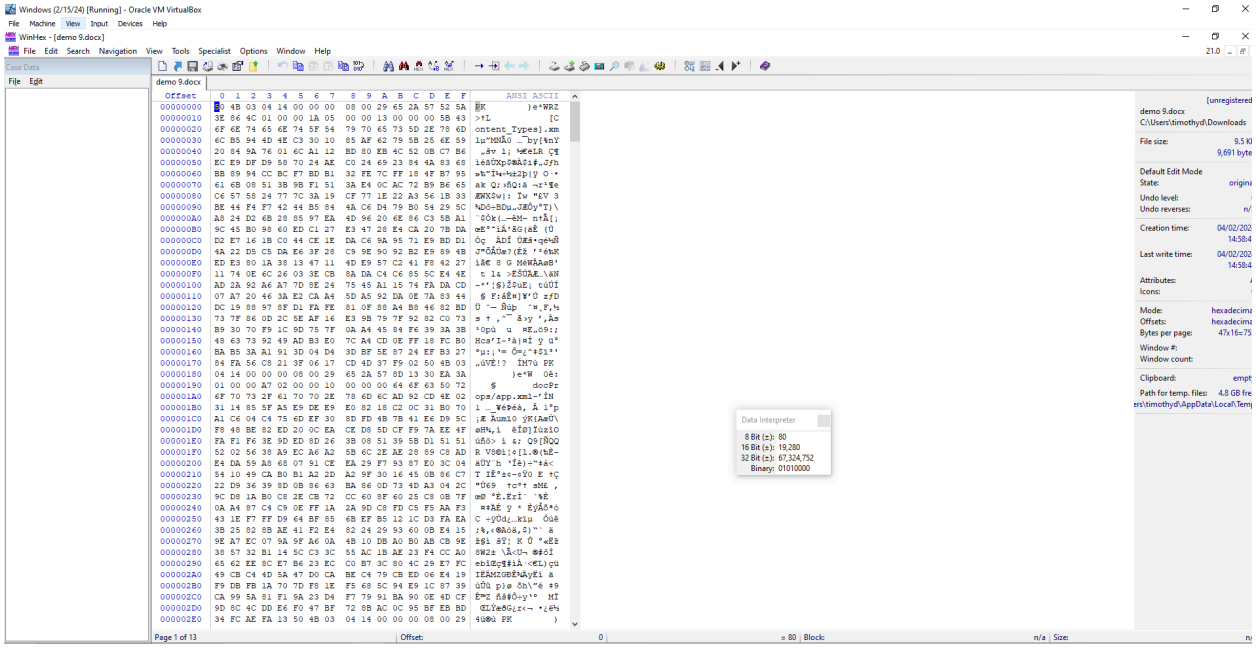


After rerunning the module, we can see that the hash set hits includes the identified images from the md5 hash.

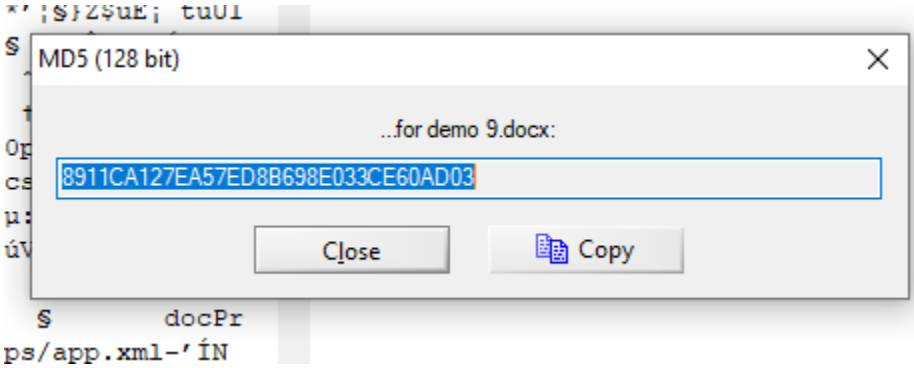
Task 2:



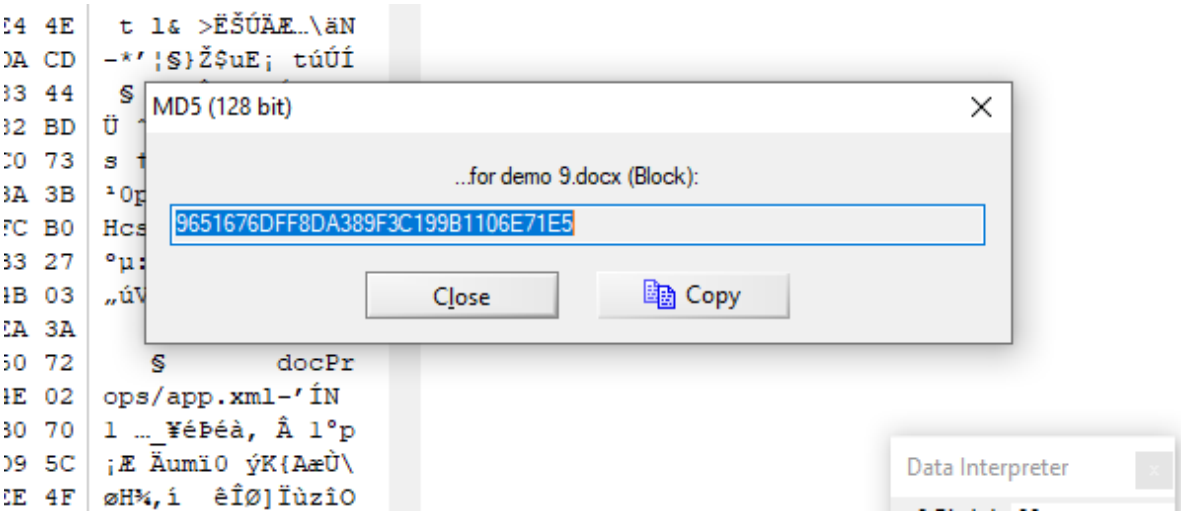
WinHex has been downloaded on my Windows VM.



In this step, I have opened the demo 9 file in WinHex.

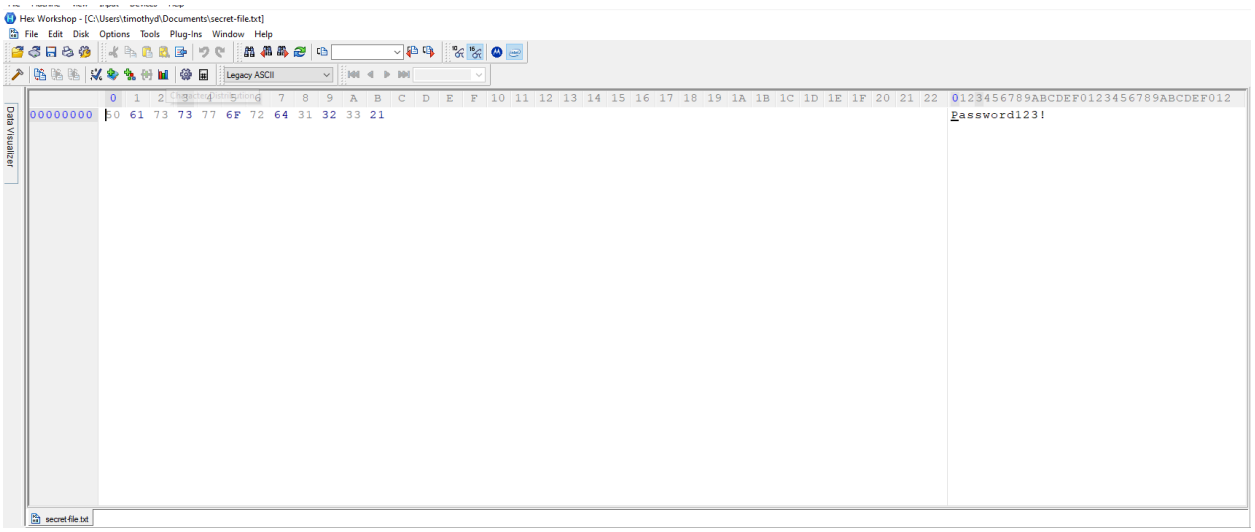


Here I have computed the hash.

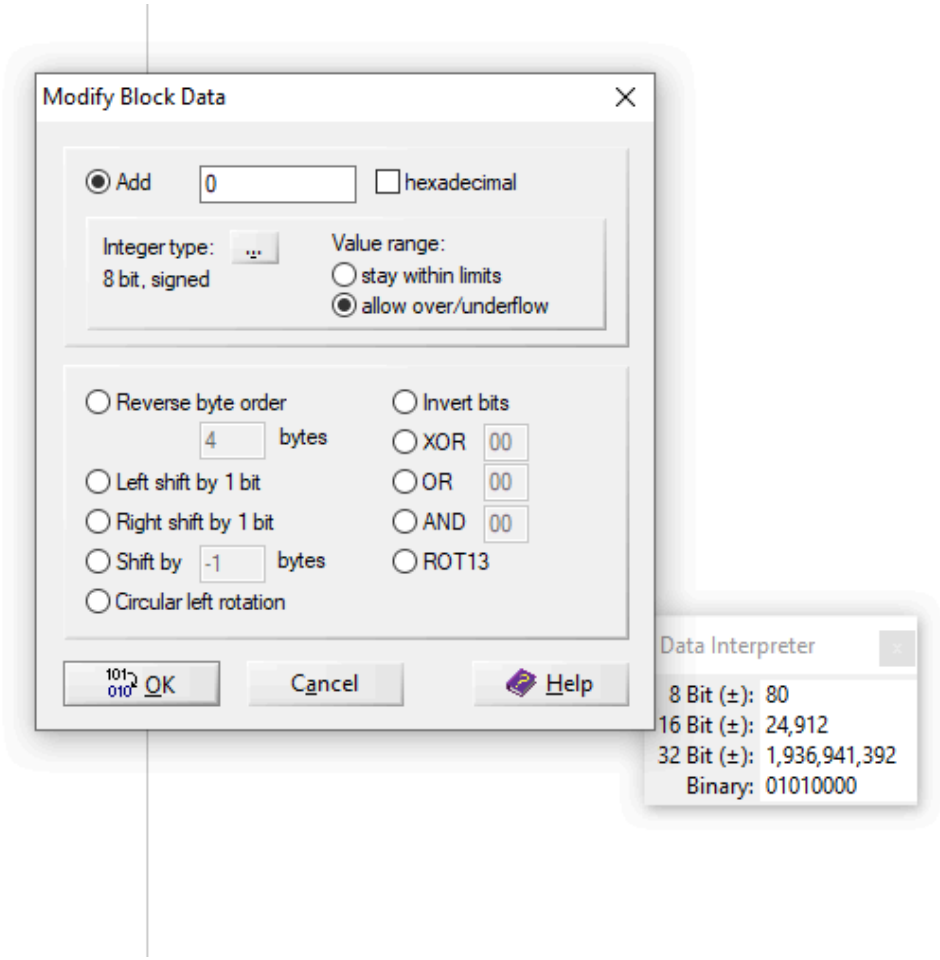


After selecting the first 16 bytes, we can see that the hash is different from the previous step.

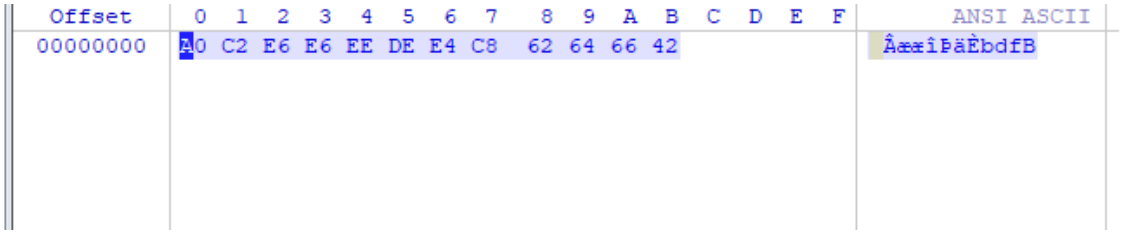
Task 3:



In this step, I have created a file with some text in it. I then have it opened in WinHex.

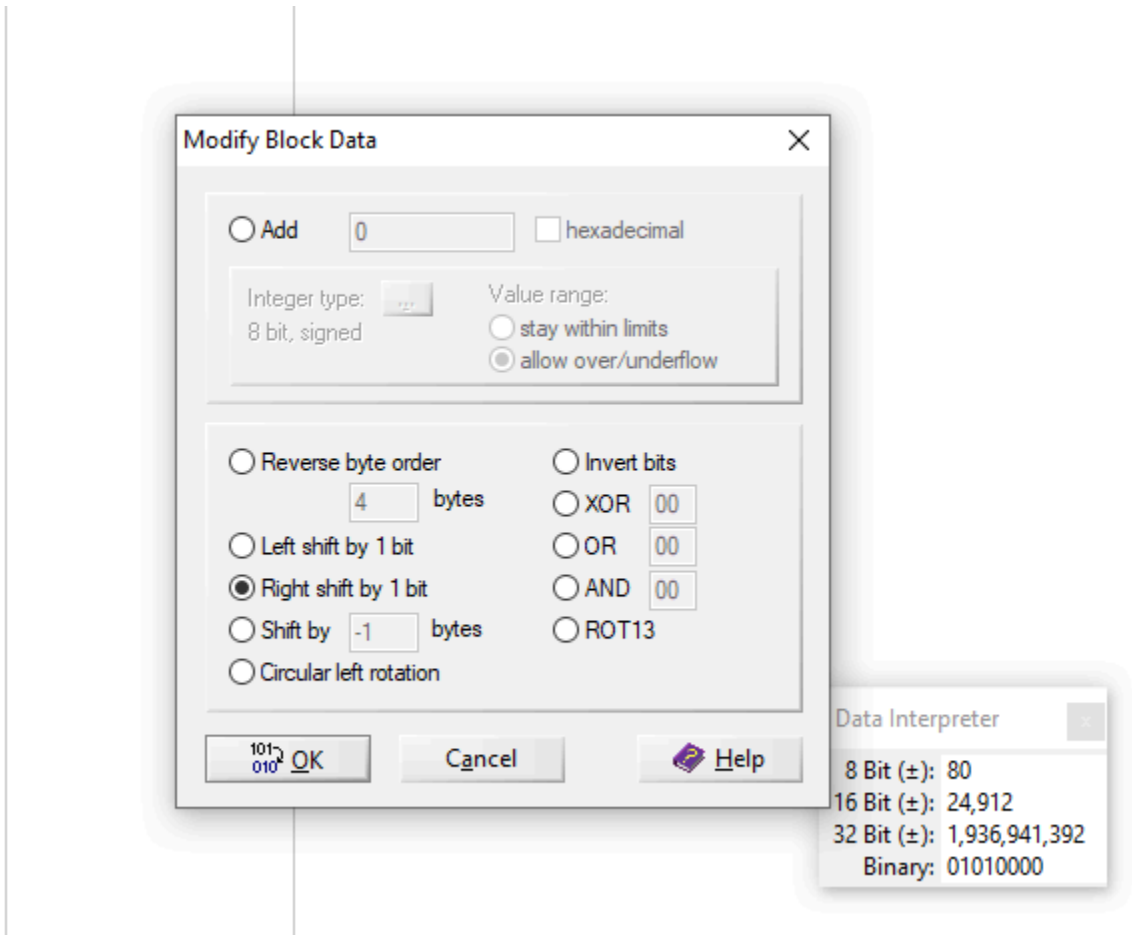


In this step, I have highlighted all the data and am going to modify it.

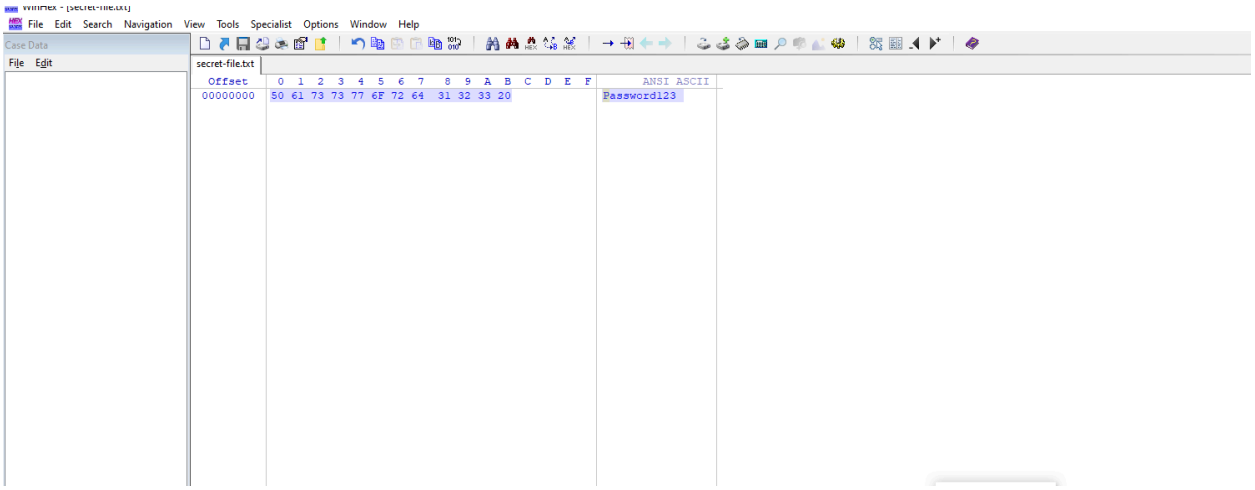


Offset	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	ANSI ASCII
00000000	A0	C2	E6	E6	EE	DE	E4	C8	62	64	66	42					ÂææîÞäÈbdfB

Here we can see the data has been altered.



In this step, I am modifying the data by doing a right shift by 1.



Here we can see the data is recovered.