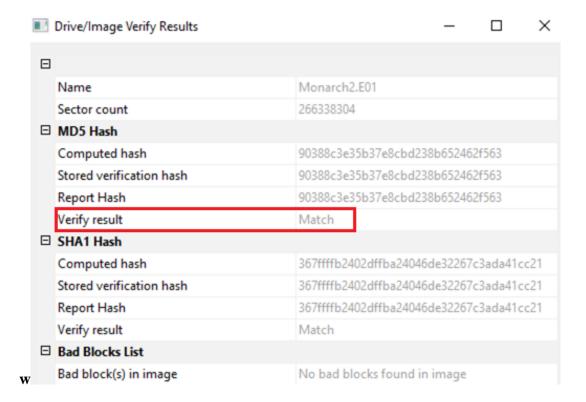
ITIS 5250 Parag Mhatre Lab 6 11/25/2018

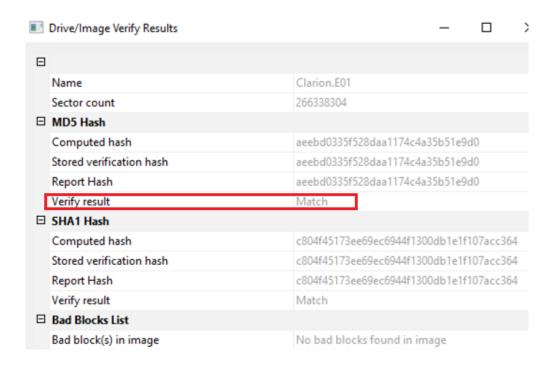
Overview:

In this case, I will be examining 6 files, viz. - MonarchUser.ad1, Monarch2User.ad1, ClarionUser.ad, Clarion.E01, Monarch.E01 and Monarch2.E01. The Monarch is a little-known super villain that is now gaining traction and whose costumed capers have attracted the attention of your police organization. I must investigate and find evidence where The Monarch, has discussed/planned to harm local super scientist Dr. Thaddeus Venture and others. Agent Sampson has asked me to identify any communications with the GCI (Guild of Calamitous Intent), the location of members of the GCI, photographs of the Monarch and his associates, communications with the GCI or any evidence of explosives, drones, poisons, bombs or other means to kill or injure the Monarch's intended targets.

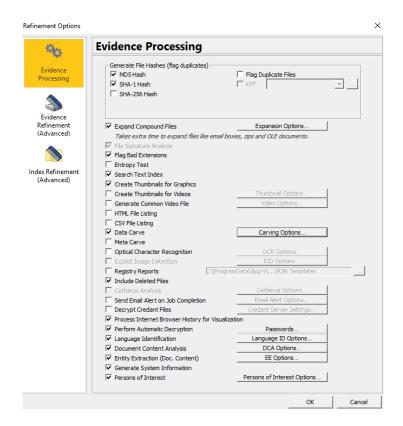
Forensic Acquisition and Exam Preparation:

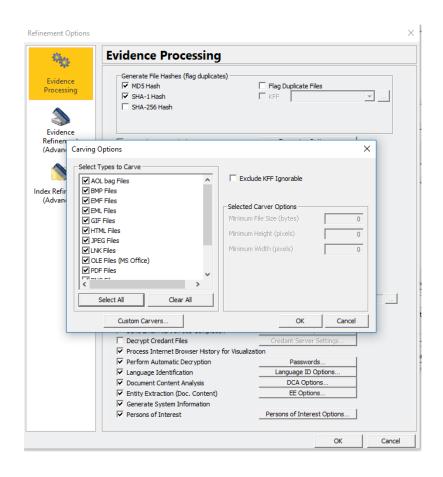
I moved the image files from the shared folder in the Forensics Lab, calculated and verified the Hash values of the files. The software used for accessing & extracting information from the images is FTK Imager 4.1.1.1, PRTK (Password Recovery Toolkit) and Forensic Toolkit 6.3 **Hash Verifications:**

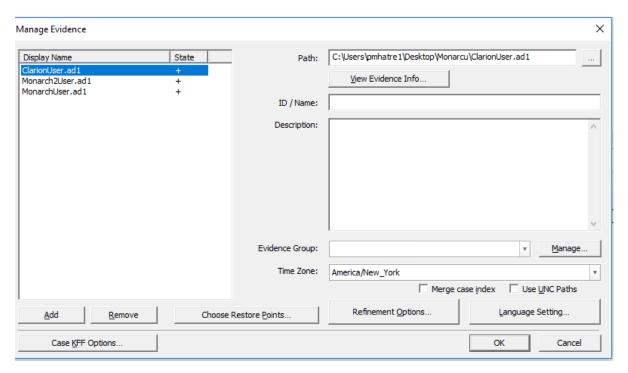




I loaded up the images and files in FTK with custom processing options as follows:







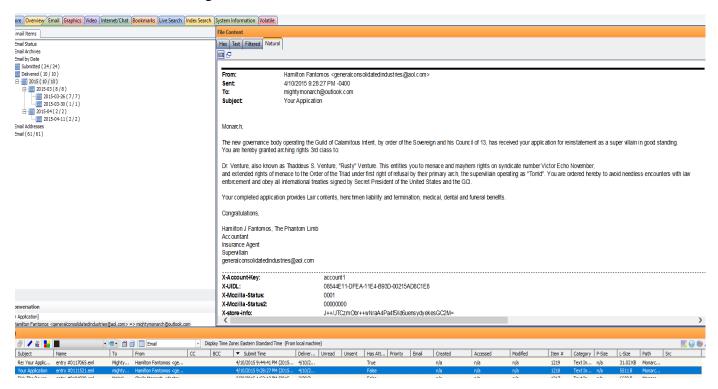
Findings and Report (Forensic Analysis)

1. Who is Guild's Operative?

The Guild's Operative appears to be Hamilton Fantomos. There is an e-mail sent from Hamilton Fantomos to Monarch where information regarding Monarch's reinstatement as a Supervillain and other information including Dr. Venture and following international treaties is communicated. The e-mail is located in the following path:

Monarch2User.ad1/AppData/Roaming/Thunderbird/Profiles/v24p7btk.default/Mail/pop-mail.outlook.com/Inbox=entry #0111521.eml

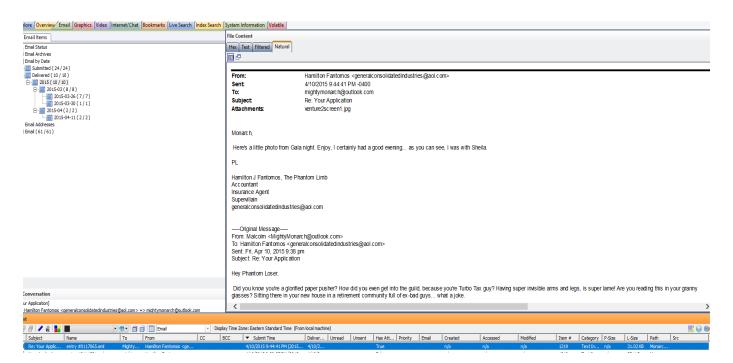
A Screenshot of the e-mail is given below.



2. Can you identify any pictures of this person?

I found an e-mail in the path given below, which Hamilton has sent to Monarch saying that he was with one Sheila and that he's sent their photo as an attachment to the e-mail.

Monarch2User.ad1/AppData/Roaming/Thunderbird/Profiles/v24p7btk.default/Mail/pop-mail.outlook.com/Inbox=entry #0006106.eml



The attachment to the e-mail is given below shows one man and one woman sitting in a car. It is safe to assume that the man must be Hamilton.



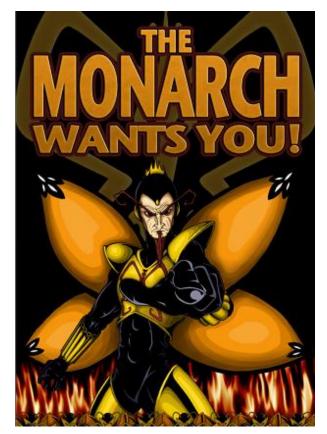
3. Can you provide any pictures depicting the Monarch?

After searching the forensic images, I found the following pictures with their respective paths depicting the Monarch.

MonarchUser.ad1\Downloads\venture-bros-monarch.jpg



 $Monarch User. ad 1 \\ lownloads \\ lownloa$



MonarchUser.ad1/AppData/Local/Google/Chrome/User Data /Default /Cache /data_3 = Carved [1957888].jpeg



4. Can you find the Monarch's email address or the email address of the operative?

As seen from the e-mail communication between Monarch and the operative - Hamilton, it is found that the e-mail addresses are as follows:

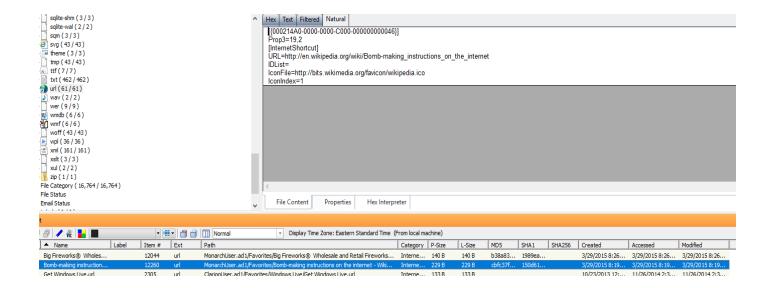
Monarch's email address - mightymonarch@outlook.com Operative's (Hamilton) email address - generalconsolidatedindustries@aol.com

	From:	Hamilton Fantomos <generalconsolidatedindustries@aol.com></generalconsolidatedindustries@aol.com>	
	Sent	4/10/2015 9:28:27 PM -0400	
	To:	mightymonarch@outlook.com	
	Subject	Your Application	
	Monarch,		
	The new governance body operating the Guild of Calamitous Intent, by order of the Sovereign and his Council of 13, has received your application for reinstatement as a super villain in good standing. You are hereby granted arching rights 3rd class to:		
	Tou are neledy granted at	a de newy granou divinig ngito site elass to:	
	Or Venture also known a	Venture, also known as Thaddeus S. Venture, "Rusty" Venture. This entitles you to menace and mayhem rights on syndicate number Victor Echo November,	
	and extended rights of menace to the Order of the Triad under first right of refusal by their primary arch, the supervillain operating as "Torrid". You are ordered hereby to avoid needless encounters with		
enforcement and obey all international treaties signed by Secret President of the United States and the GCI.		international treaties signed by Secret President of the United States and the GCI.	
	our completed application provides Lair contents, henchmen liability and termination, medical, dental and funeral benefits.		
Congratulations,			
	Congratulations,	ngatuations,	
	Hamilton J Fantomos, The Phantom Limb		
	Accountant		
	Insurance Agent		
	Supervillain		
	generalconsolidatedindust	tries@aol.com	

5. Are there any items related to the Monarch's plans for violence?

While investigating, I found various items/evidence related to plans for violence. They are as follows:

1. Bomb making instructions Wikipedia page in Favorites.



2. An image of a crudely made hand grenadelike object.

MonarchUser.ad1/AppData/Local/Microsoft/Temporary Internet Files/Low/ Content.IE5/ KBIPEE3F/ FAEQMCJF68BAFNW.SQUARE2[1].jpg

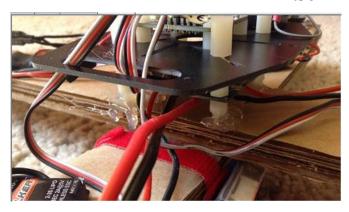


3. An image of Mousetrap Car step. A possible application of this is to use it to trigger something on a desired movement involving it.

MonarchUser/ad1/AppData/Local/Microsoft/Temporary Internet Files/Low/Content.IE5/2KH5I8Y3/crop-127-140-127px-Build_a_Mousetrap-Car-Step-14-Version-2[1].jpg



MonarchUser.ad1/AppData/Local/Microsoft/Windows/Temporary Internet files/Low/Content.IE5/2KH518Y3/IMG_0120-e1359677201327[1].jpg



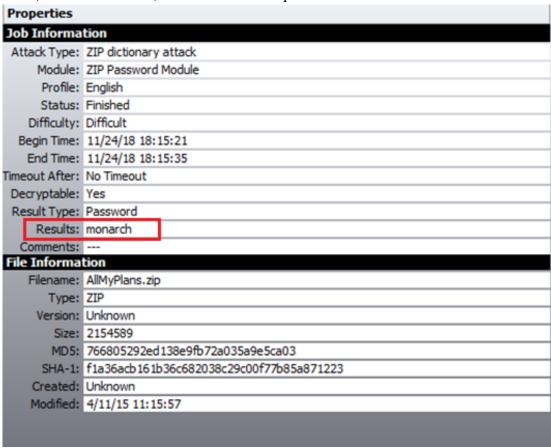
I also found the image of a drone at the path given below,

MonarchUser.ad1/AppData/Local/Microsoft/Windows/Temporary Internet files/Low/Content.IE5/KBIPEE3F/31DYMixwkvL._AA160_(1).jpg



6. Can you recover any passwords?

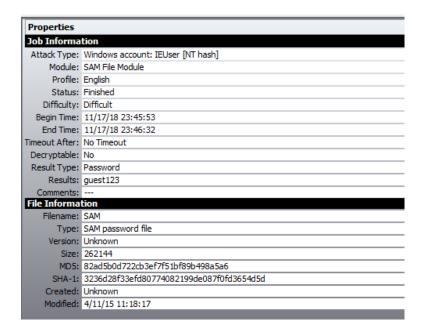
I found a compressed file called "AllMyPlans.zip" which was password protected. I extracted this file and tried to crack the password using the PRTK (Password Recovery Toolkit). After some time, PRTK cracked the password which was "monarch".



In the extracted files, I found further evidence in the form of pictures, related to the Monarch's plans for violence.



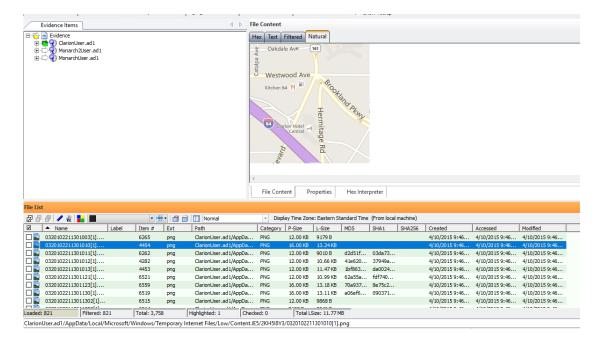
I also tried recovering passwords from the SAM file. The password found for the user account is "guest123".



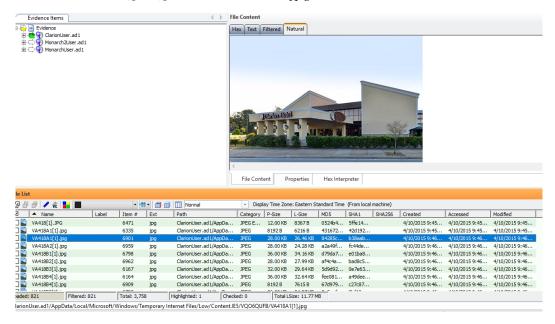
7. Is there any evidence the Monarch planned to stay in the particular hotel?

I found map picture files, pictures of the Clarion hotel and extensive internet searches for the hotel from the forensic images were found when I checked the Browsing history. It can be said that the Monarch's stay at the hotel was pre-planned.

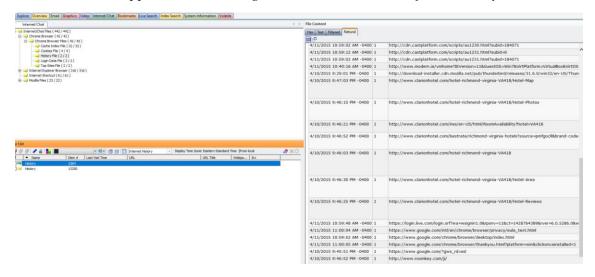
ClarionUser.AD1/AppData/Local/Microsoft/Windows/Temporary Internet Files/Low/Content.IE5/2KH5I8Y3/0320102211301010[1].png



ClarionUser.AD1/AppData/Local/Microsoft/Windows/Temporary Internet Files/Low/Content.IE5/VQ06QUFB/VA418A1[1].jpg



Monarch2User.ad1/AppData/Local/Google/Chrome/UserData/Default/History



Conclusion:

I verified and examined the forensic images MonarchUser.ad1, Monarch2User.ad1, ClarionUser.ad1, Clarion.E01, Monarch.E01 and Monarch2.E01 using the Forensic Toolkit 6.3 and I found relevant email conversations between the Monarch and the operative named Hamilton. I also found the operative's and the Monarch's pictures and email addresses. In addition to this, I found evidence related to Monarch's plans of violence including recovering password for a zip file. Moreover, I found evidence that the Monarch's stay in the hotel was pre-planned.