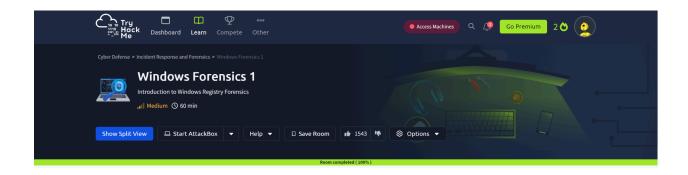
WINDOWS FORENSICS 1

ASSIGNMENT REPORT



Peter Kinyumu, cs-sa07-24067, July 20th, 2024

1. INTRODUCTION

This room teaches how to perform Windows registry forensics. It explains why the registry is a rich source of forensics evidence, then goes ahead to show how to access the different registry hives, tools used and the different artefacts like system information, program execution and external devices that were connected to the victim machine.

2. ANSWERS TO QUESTIONS

Introduction to Windows Forensics

- a. What is the most used Desktop Operating System right now?
 - Microsoft Windows

Windows Registry and Forensics

- a. What is the short form for HKEY LOCAL MACHINE?
 - HKLM

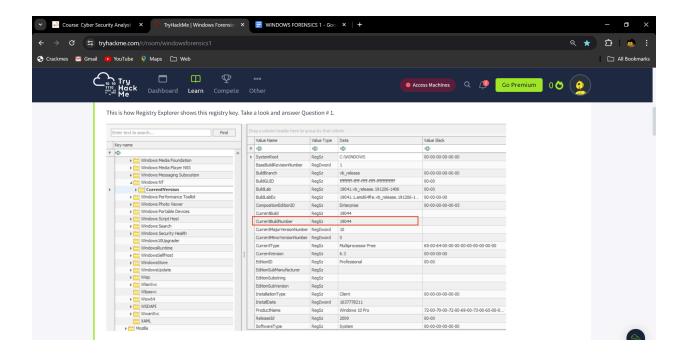
Accessing Registry hives offline

- a. What is the path for the five main registry hives, DEFAULT, SAM, SECURITY, SOFTWARE, and SYSTEM?
 - C:\Windows\System32\Config
- b. What is the path for the AmCache hive?
 - C:\Windows\AppCompat\Programs\Amcache.hve



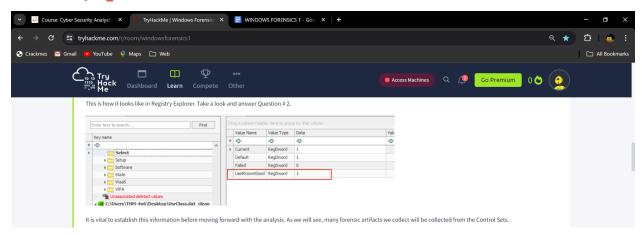
System Information and System accounts

- a. What is the Current Build Number of the machine whose data is being investigated?
 - 19044

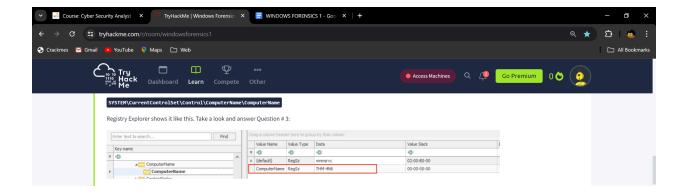


b. Which ControlSet contains the last known good configuration?

• 1

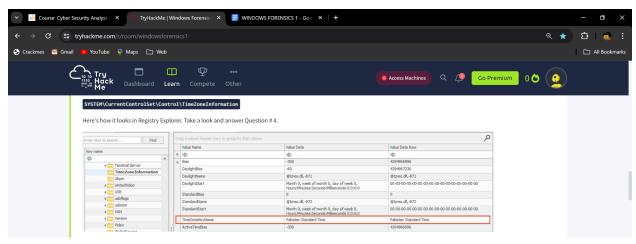


- c. What is the Computer Name of the computer?
 - THM-4n6



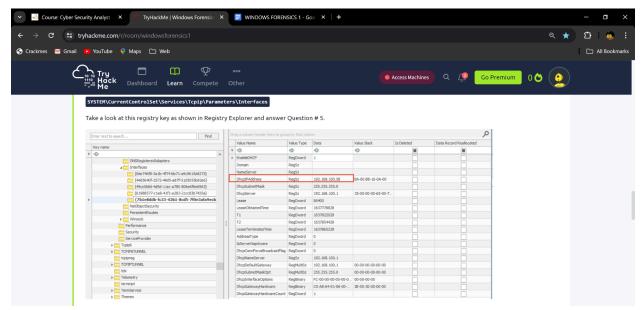
d. What is the value of the TimeZoneKeyName?

• Pakistan Standard Time



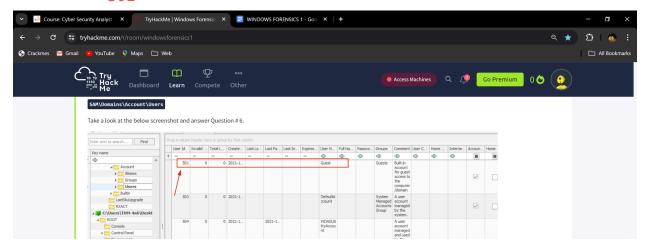
e. What is the DHCP IP address

192.168.100.58



f. What is the RID of the Guest User account?

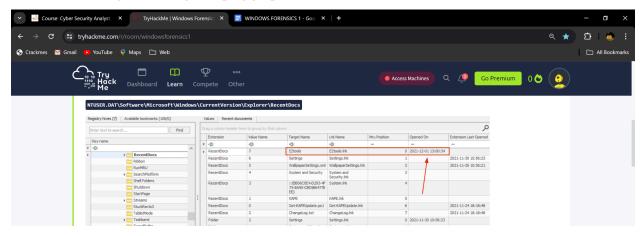
• 501



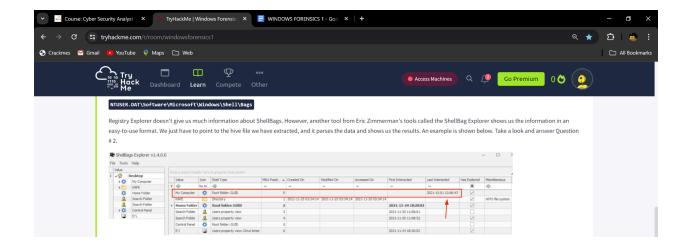
Usage or Knowledge of files/folders

a. When was EZtools opened?

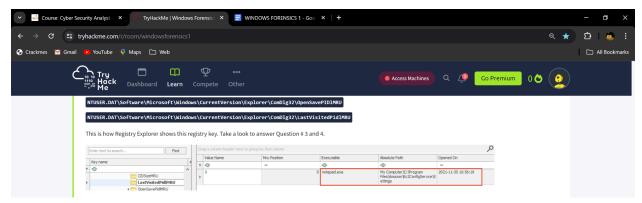
2021-12-01 13:00:34



- b. At what time was My Computer last interacted with?
 - 2021-12-01 13:06:47

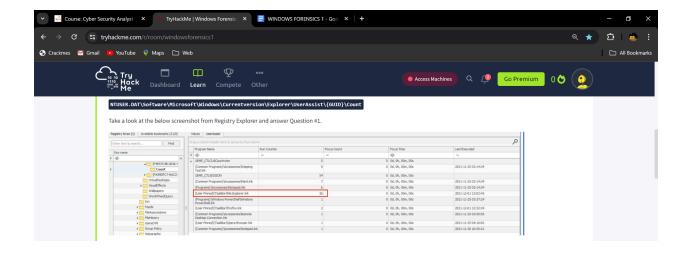


- c. What is the Absolute Path of the file opened using notepad.exe?
 - C:\Program Files\Amazon\Ec2ConfigService\Settings
- d. When was this file opened?
 - 2021-11-30 10:56:19



Evidence of Execution

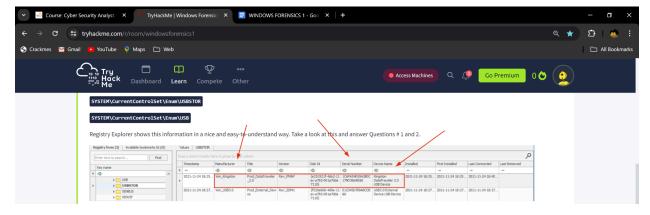
- a. How many times was the File Explorer launched?
 - 26



- b. What is another name for ShimCache?
 - AppCompatCache
- c. Which of the artifacts also saves SHA1 hashes of the executed programs?
 - AmCache
- d. Which of the artifacts saves the full path of the executed programs?
 - BAM/DAM

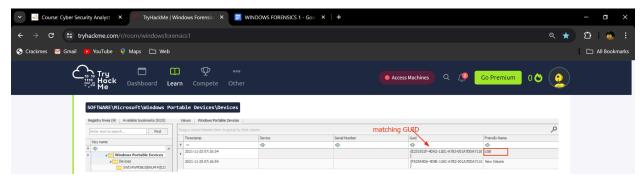
External Devices/USB device forensics

- a. What is the serial number of the device from the manufacturer 'Kingston'?
 - 1C6f654E59A3B0C179D366AE&0
- b. What is the name of this device?
 - Kingston Data Traveler 2.0 USB Device



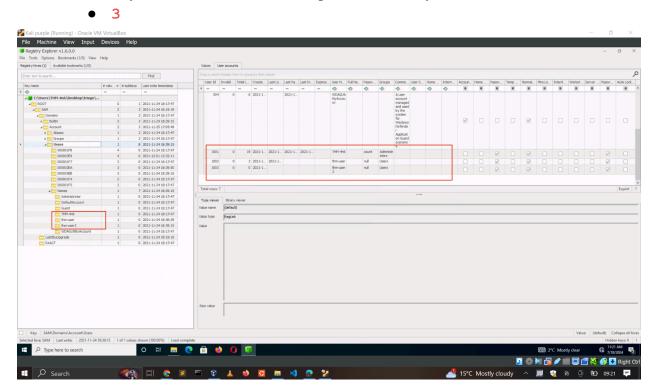
c. What is the friendly name of the device from the manufacturer 'Kingston'?

• USB

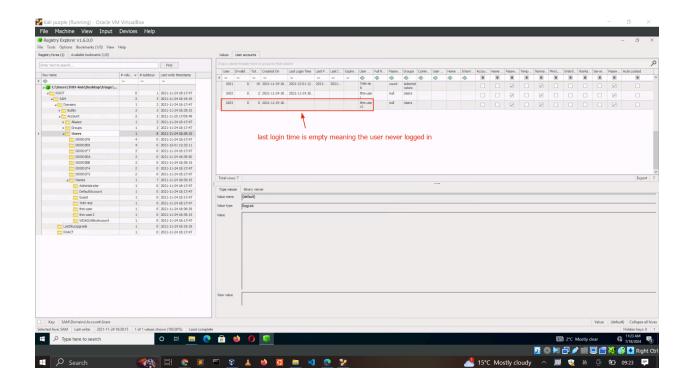


Hands-on Challenge

a. How many user created accounts are present on the system?

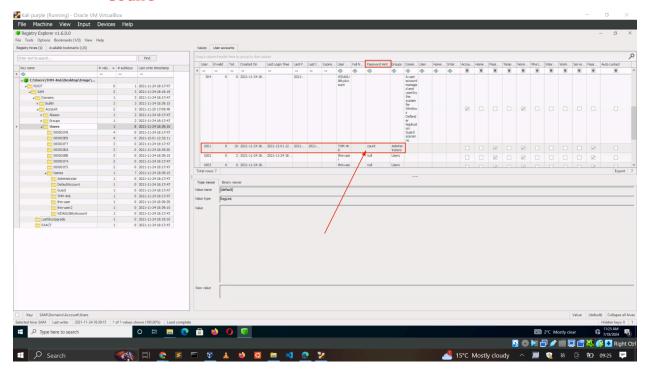


- b. What is the username of the account that has never been logged in?
 - thm-user2

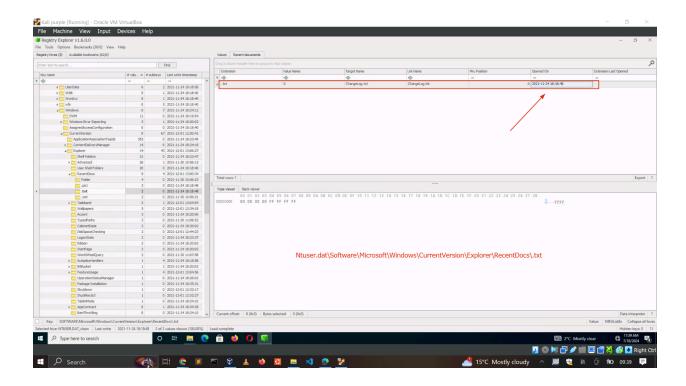


c. What's the password hint for the user THM-4n6?

• count

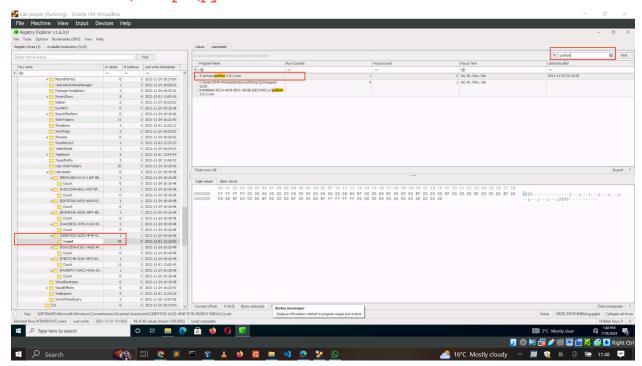


- d. When was the file 'Changelog.txt' accessed?
 - 2021-11-21 18:18:48



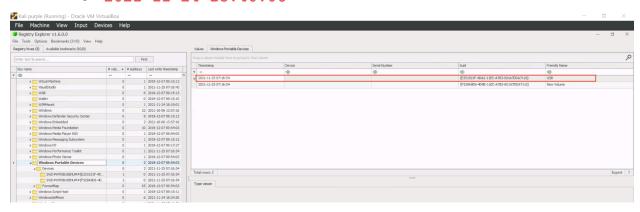
e. What is the complete path from where the python 3.8.2 installer was run?

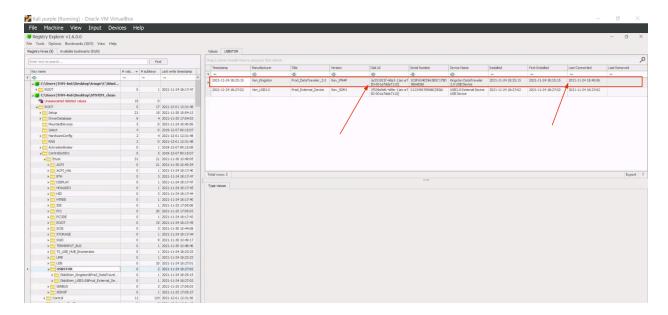
• Z:\setups\python-3.8.2.exe



f. When was the USB device with the friendly name 'USB' last connected?

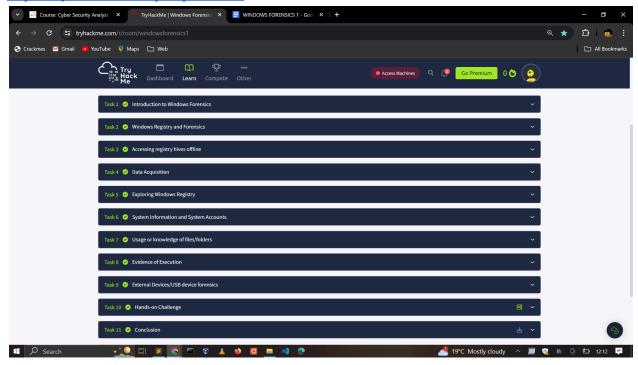
- We start by looking at the USB with the said friendly name from SOFTWARE\Microsoft\Windows Portable Devices\Devices
- Then we match the GUID to the devices in SYSTEM\CurrentControlSet\Enum\USBSTOR
- 2021-11-24 18:40:06





3. MODULE COMPLETION

https://tryhackme.com/p/c1ph3rbnuk



4. CONCLUSION

This assignment has taught me how to perform registry forensics with tools like the Zimmerman Registry explorer. I have learned how to extract artefacts like programs set to run on startup, mounted devices, and user accounts from various registry keys and their values. As a security analyst this knowledge will help me gather more evidence of an attack when performing a diigtal forensic investigation.