

# CSEC 730 - Advanced Computer Forensics

## Practicing Access Data's Registry Viewer Homework 3

**Due Date:** Please submit your answers to the Homework 3 dropbox by Sunday midnight 11/25/2018.

### Goal

Windows registry is a system-defined hierarchical database containing Windows hardware, user information and preferences, application, and network configuration information. Examining the Windows registry is one of the most important steps for Windows forensic analysis.

### Case Scenario

Do you still remember the *Linux\_Financial\_Case* from Lab 1? You are given the registry hive files acquired from Mark's system. In this activity, you will use Access Data's Registry Viewer to examine the files, and to extract and correlate information to obtain evidence.

### Software and registry files

Registry Viewer is installed on the virtual machine *Windows 10 w/ FTK 6 & EnCase 8* on RLES. User Guide download link: [https://ad-pdf.s3.amazonaws.com/RegistryViewer\\_UG.pdf](https://ad-pdf.s3.amazonaws.com/RegistryViewer_UG.pdf)

Download and extract the *Registry files for HW3.zip* from *myCourses > Project and Homework*. The Windows registry hive files are:

- SAM
- SYSTEM
- Mark-NTUSER.DAT

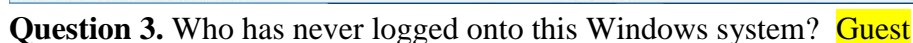
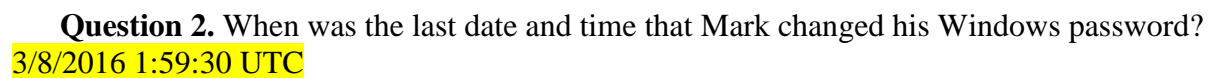
### Instructions

- To open the hive-file you would like to examine, click File > Open.
- Registry Viewer also lets you quickly search keys, values, and dates that were last written to the registry file. To find certain registry data, you will select Edit > Find.

### Deliverables:

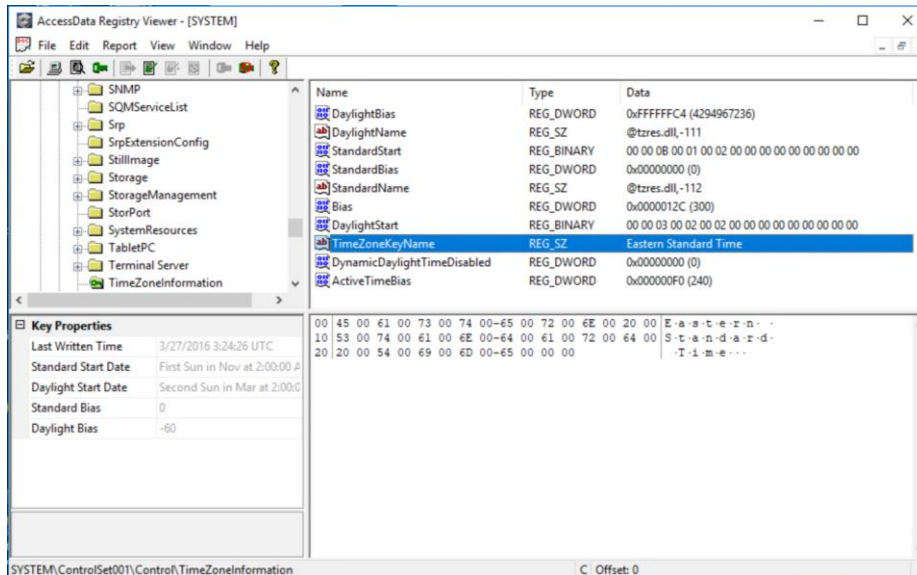
Examine the SAM, SYSTEM and Mark-NTUSER.DAT hives and **answer all the questions below. Include one screenshot for EACH question as supporting data.**

**Question 1.** Which user name and SID number logged onto the system on 3/8/2016 at 4:40:56 UTC? **Mark, 1001**





**Question 5.** Click ControlSet001 and search for “TimeZone” via “Edit>Find...” What is the TimeZoneKeyName? **Eastern Standard Time**

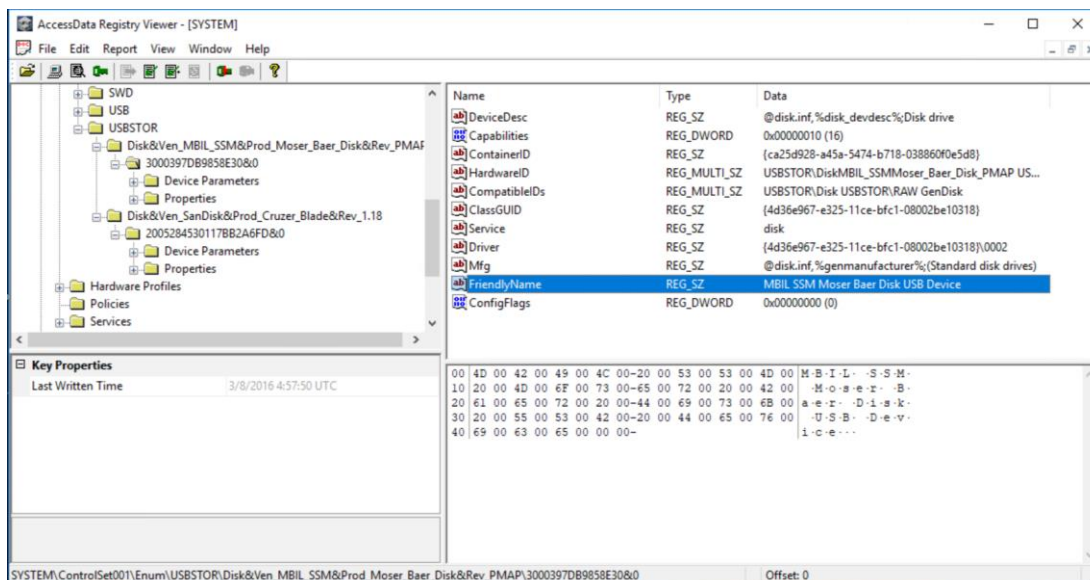


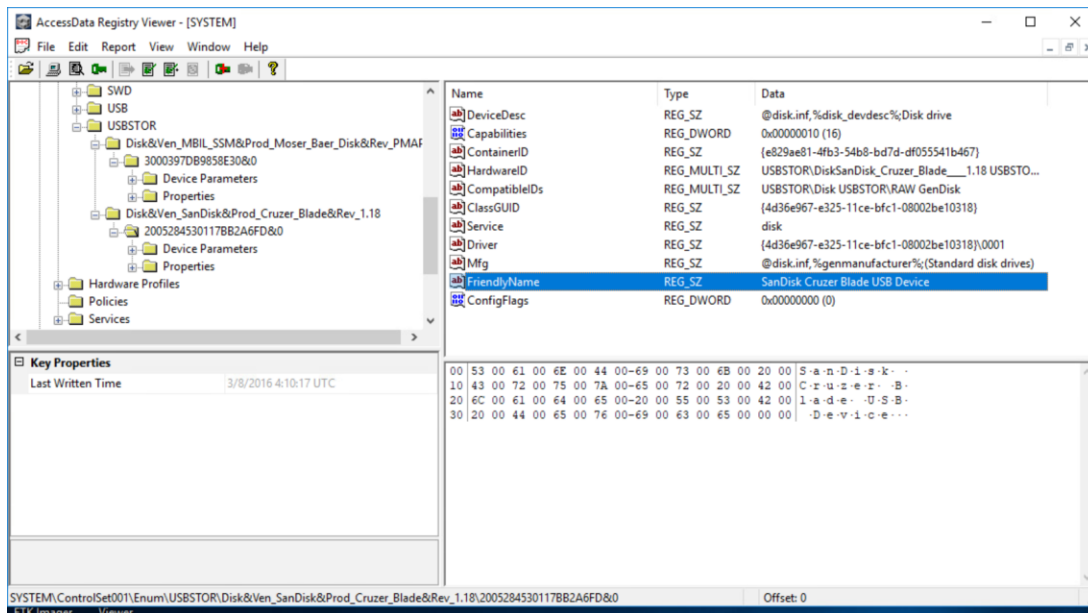
**Question 6.** Expand ControlSet001>Enum>USBSTOR. How many USBs were plugged into the system and what are the USB’s friendly names? (Hint: expand each device entry and click on the unique instance ID, for example “2005284530117BB2A6FD&0”)

**There are 2 USB plugged in the system.**

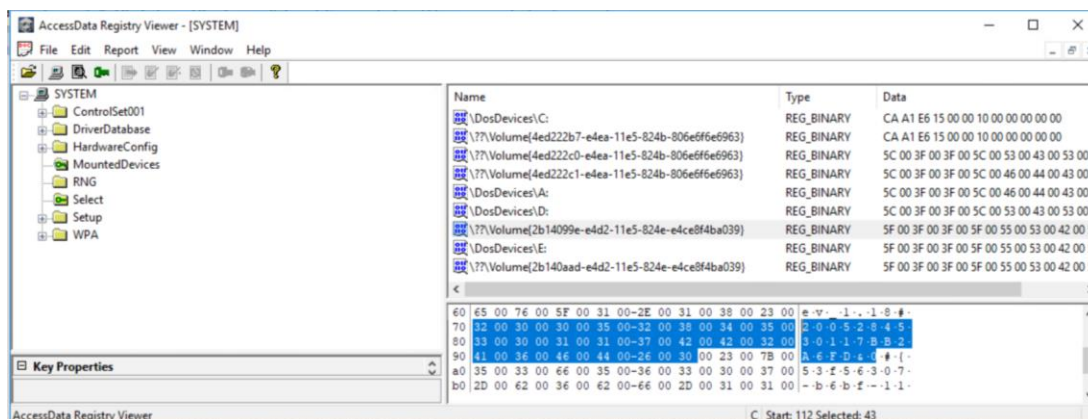
**The Friendly names:**

- **MBIL SSM Moser Baer Disk USB Device**
- **SanDisk Cruzer Blade USB device**

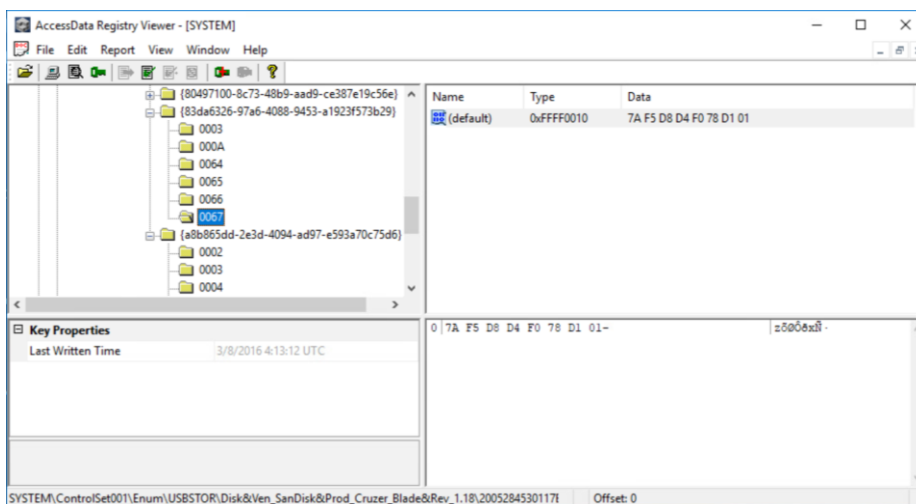
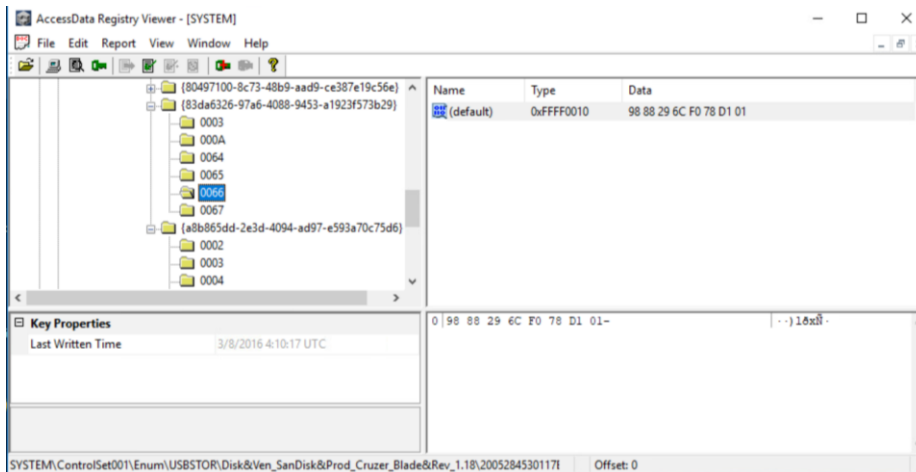




**Question 7.** Select SYSTEM> MountedDevices. Search the USB instance ID “2005284530117BB2A6FD&0.” Which Windows Volume had this USB device mounted to?  
Volume{2b14099e-e4d2-11e5-824e-e4ce8f4ba039}



**Question 8.** When was the USB with the instance ID of “2005284530117BB2A6FD&0” last-inserted to the system, and when was it last-removed? (Hint: See lecture ppt slides #17)  
Last inserted: 3/8/2016 4:10:17 UTC  
Last removed: 3/8/2016 4:13:12 UTC

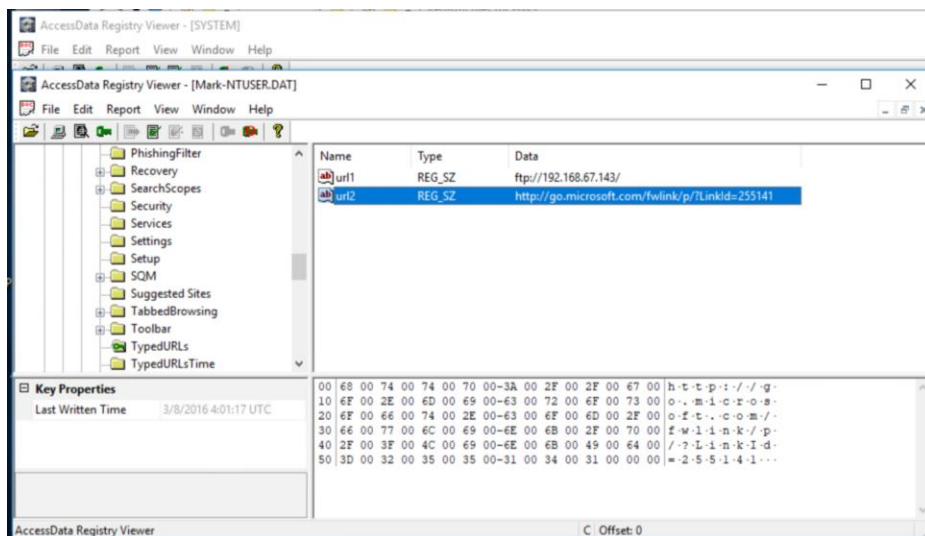


### 3. Examine Mark\_NTUSER.DAT registry hive.

**Question 9.** Click on “Mark-NTUSER.DAT”. To find the URLs Mark visited, you select Edit > Find, enter the registry key “TypedURL” in the Find what: text area, and click Find Next. Check the data of “TypedURL”, What URLs did Mark visit?

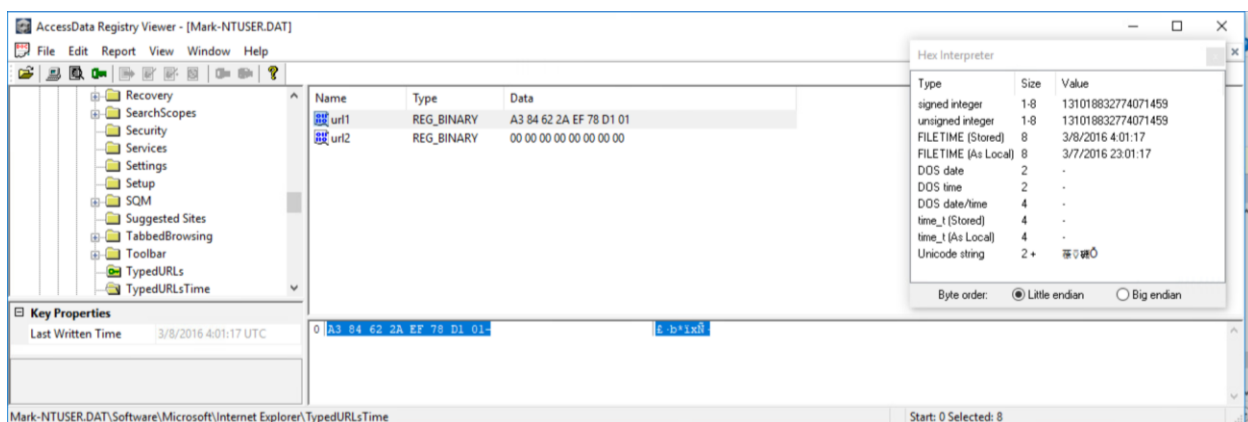
url1:ftp://192.168.67.143

url2: http://go.microsoft.com/fwlink/p/?LinkId=255141



**Question 10.** Checking the value of “TypedURLsTime”, when was the last date and time that Mark visited [ftp://192.168.67.143/](http://192.168.67.143/)? (Hint: the date and time are shown in the key properties pane. It can also be determined by selecting the data in hex at the right bottom pane, right click and use “Show Hex Interpreter Window...” function.)

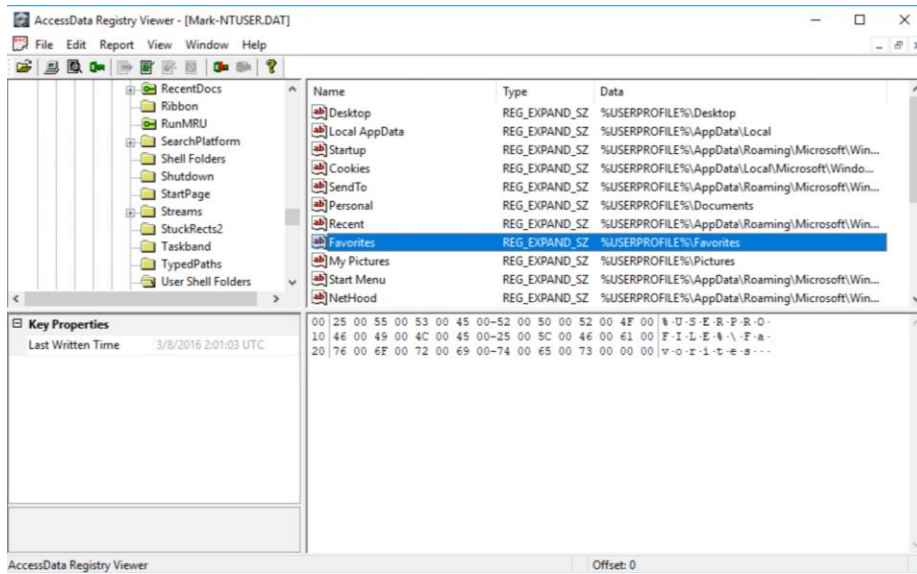
**3/8/2016 4:01:17 UTC**



**Question 11.** Checking the value of “User Shell Folders” by Clicking on “Mark-NTUSER.DAT” and using Edit > Find. What is the path to Mark’s “Favorites” fold?

**%USERPROFILE%\Favorites**





**ENJOY!**