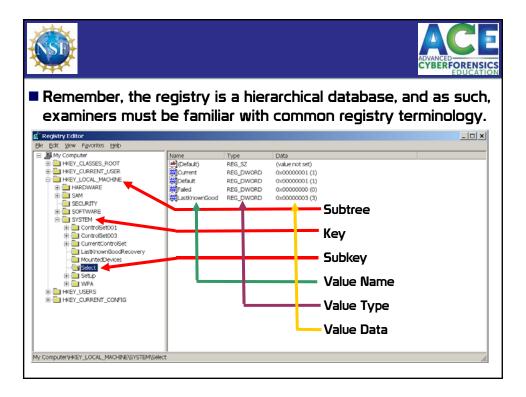
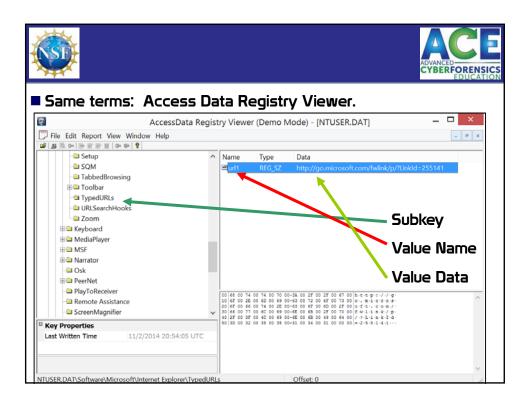


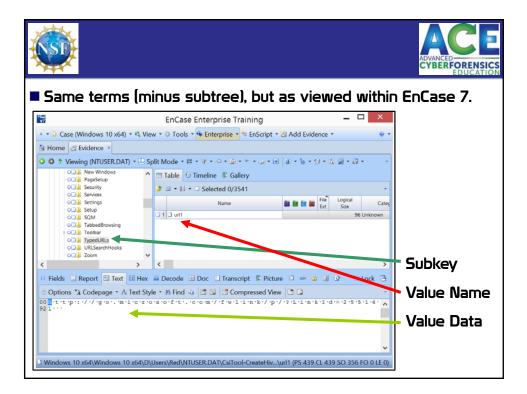


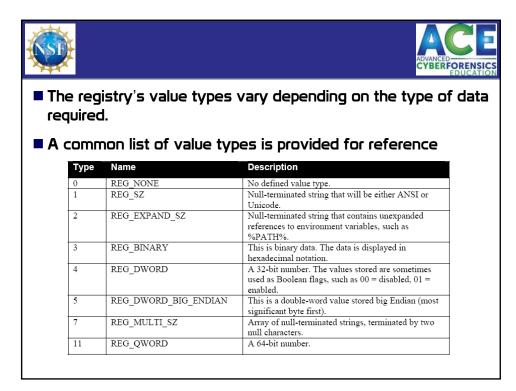


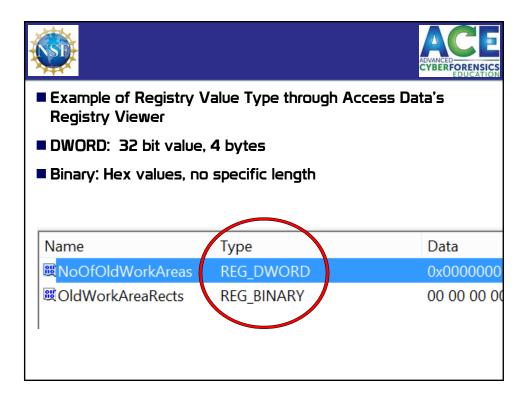
- The logical registry is viewed through a forensic or nonforensic application that is capable of reading and displaying the hives, keys, subkeys, and values in a manner that normally shows the parent/child relationship of objects within the hive.
- The <u>physical registry</u> is the binary content of the logical hive files. In order to understand the physical structure, one must understand the signatures of keys and values along with other specific attributes of the registry hive.
- By understanding some of the basics of the physical registry, examiners may identify registry fragments in unallocated clusters, pagefile.sys, slack space, etc.







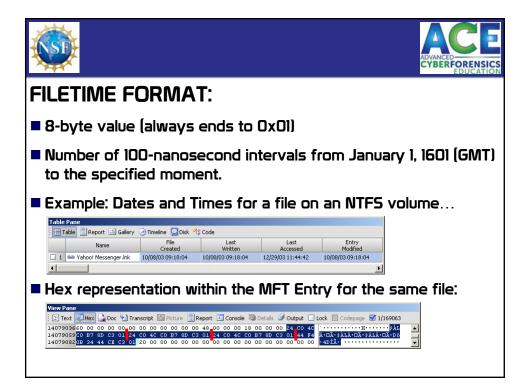






FILETIME FORMAT:

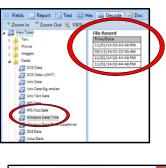
- FILETIME format is used throughout the NTFS file system
- FILETIME format is very common within the Windows Registry and numerous Microsoft software products.
- Important to note that the displayed date/time is subject to the correct offset from GMT/UTC
- To correctly translate, the examiner must determine the regional settings used on the subject's installation of Windows. (we'll cover this in a few minutes)



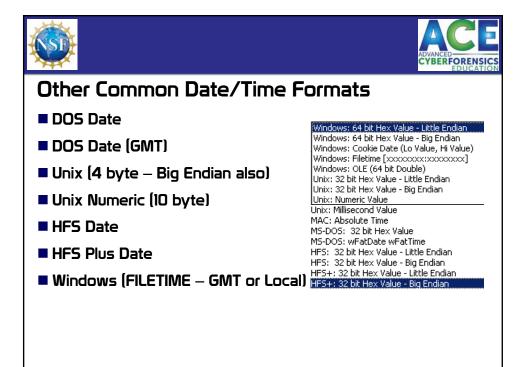


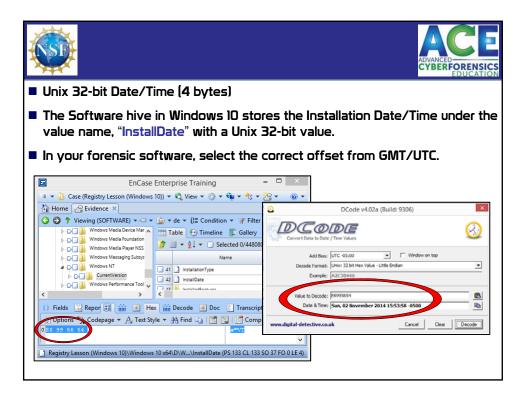


- With the data highlighted, right click in EnCase and select Bookmark Data.
- The Data Type pane allows you to select a number of different Date/Time formats.
- In this case, we've selected Windows Date/Time, which will decode the data in FILETIME format using the default or examiner-selected GMT offset.
- In the bottom portion of the Bookmark Data window, one can see the decoded data.



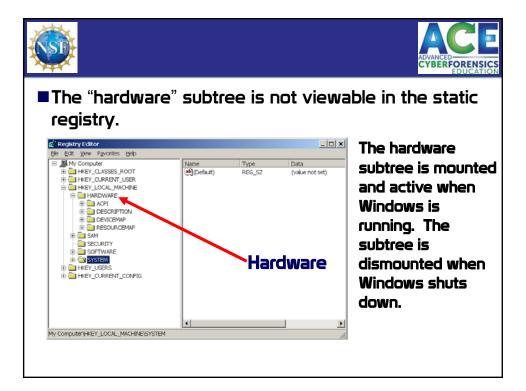


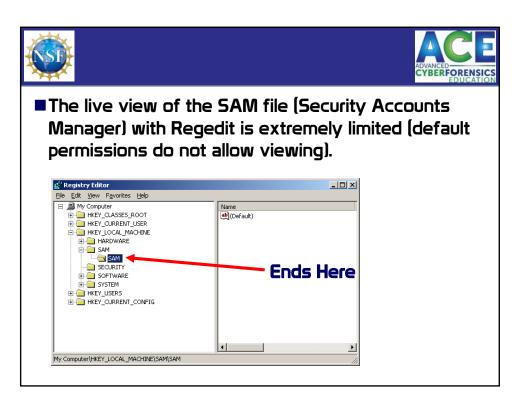


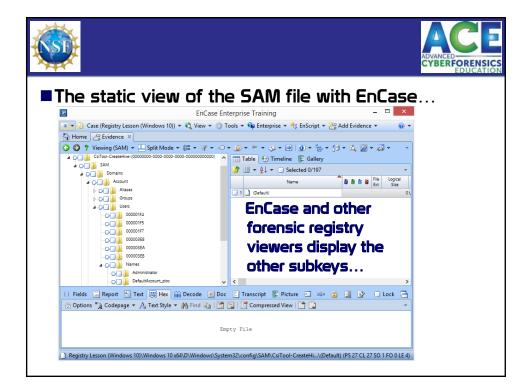


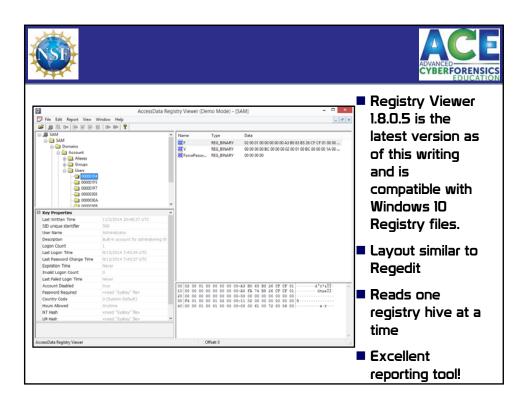
Unix Num	eric Values are common	1.0.6.5.6.4.4.9.0.	1
	e data is typically stored in L bits. In other words, only c	•	o remove the
-	usly viewed in this lesson, a /ilson's "DCODE" from www.	-	ates and times
	DCode v4.02a (B	uild: 9306)	
	Convert Data to Date / Time Values	\bigotimes	
	Add Bias: UTC -05:00	▼ Window on top	
	Decode Format: Unix: Numeric Value Example: 1170245478	•	
	Example: 11/0243476		
	Value to Decode: 1065644901 Date & Time: Wed, 08 October 2003 1	5:28:21 -0500	
	www.digital-detective.co.uk	Cancel Clear Decode	

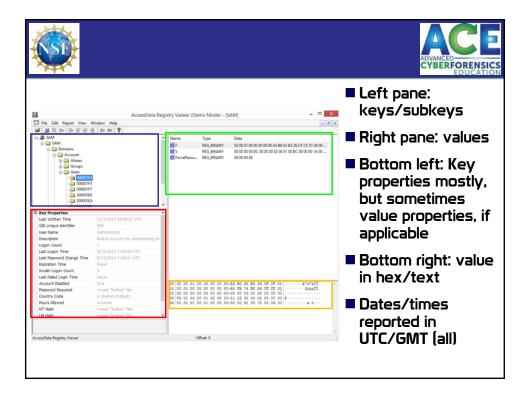
	S		
1	able Report III Gallery (Name (Default)	Timeline Dick 🛠 (1) Last Written	The only object that consistently records a modification date/time is the key/subkey.
2	Download Directory	08/22/03 13:40:57	is the key/subkey. \square
	Settings	08/22/03 13:40:57	
	Services	08/22/03 13:40:57	Value Names, Types, and Data do
	URLSearchHooks	08/22/03 13:40:57	<i>,</i> ,
7	Help Menu URLs	08/22/03 13:41:19	NOT record a last modified
2 8	Contraction Security	08/22/03 13:41:20	
2 9	Desktop	08/22/03 14:06:08	date/time.
10	Default MHTML Editor	10/08/03 11:59:32	
11	Default HTML Editor	10/08/03 11:59:32	
12	🗀 Media	10/08/03 12:01:49	If a child object of the subkey is
13	🚞 IntelliForms	10/08/03 12:03:13	•
14	🚞 Extensions	10/08/03 12:18:17	changed (values), the last
15	🚞 Toolbar	10/08/03 13:19:25	
🛛 16	🚞 International	10/08/03 16:22:03	modified date/time of the subkey
⊿ 17	🚞 Download	10/08/03 16:27:20	
⊿ 18	🛅 MenuExt	10/08/03 16:28:21	will reflect the date and time of
⊿ 19	🚞 SearchUrl	10/08/03 16:28:21	
20	🚞 Explorer Bars	10/09/03 03:05:44	the change.
21 🗹	C TypedURLs	10/12/03 13:16:26	_
🛛 22	🚞 Main	11/29/03 04:16:14	

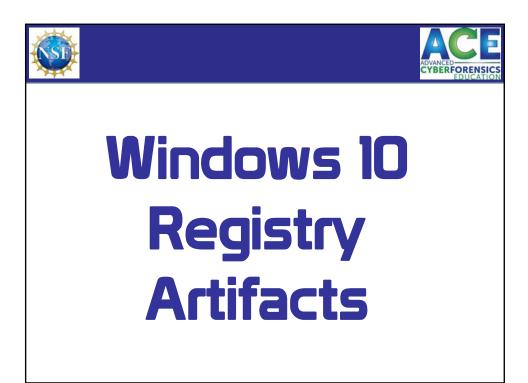


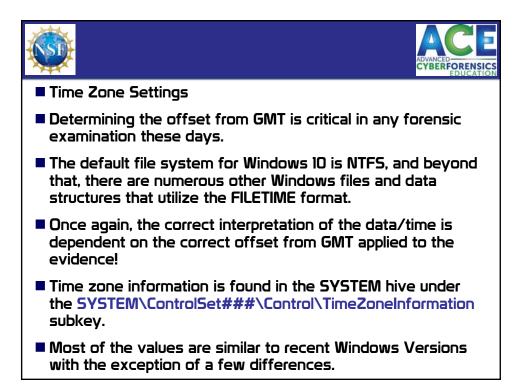


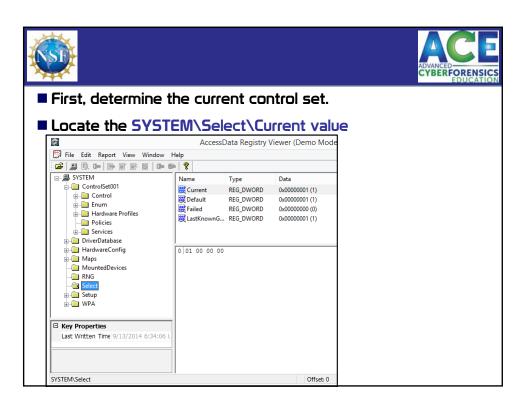






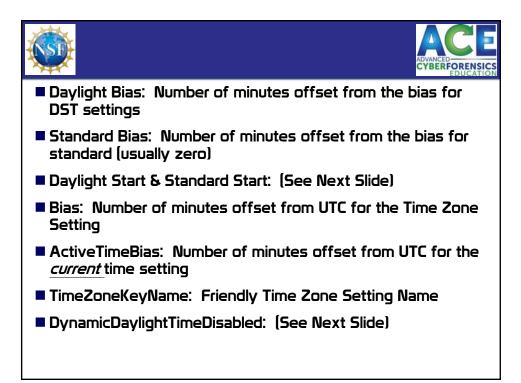






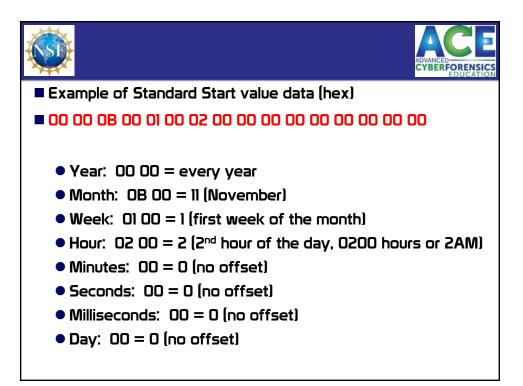
 Next, navigate to SYSTEM\Control 		ol\Time	
subkey. Let's e	AccessData Registry V		lode) - [SYSTEM]
	Name DaylightBias DaylightBias DaylightName StandardStart StandardBias StandardName DaylightStart DaylightStart TimzConeKeyName	Type REG_DWORD REG_SZ REG_BINARY REG_DWORD REG_SZ REG_DWORD REG_BINARY REG_SZ	Data 0xFFFFFC4 (4294967236) @tzres.dll,-191 00 00 80 00 100 02 00 00 00 00 00 00 00 00 00 00 00 0
Execution Rey Properties Last Written Time 12/4/2014 23:24:05 Standard Start Da First Sun in Nov at 2: Daylight Start Dat Second Sun in Mar at Standard Bias 0 Daylight Bias -60 -60	C Initiation Constraints C Initiation C Initiatio C Initiation C Initiation	REG_DWORD REG_DWORD	(มีสถานสถานสถานสถาน เงิน000000 (b) เงิน000001A4 (420)

NSI	ě						
	aylight Name and Sta	andard Name					
Both refer to TZRES.DLL with a string identifier.							
		re are string identifiers that refer to sets. See the example below & URL.					
String ID	String Text						
10	(UTC-01:00) Azores						
11	Azores Daylight Time						
11 12	Azores Daylight Time Azores Standard Time						
12	Azores Standard Time	http://www.pirsoft.pet/dll_inform					
12 20	Azores Standard Time (UTC-01:00) Cape Verde Is.	http://www.nirsoft.net/dll_inform					
12 20 21	Azores Standard Time (UTC-01:00) Cape Verde Is. Cape Verde Daylight Time	http://www.nirsoft.net/dll_inform ation/windows8/tzres_dll.html					
12 20 21 22	Azores Standard Time (UTC-01:00) Cape Verde Is. Cape Verde Daylight Time Cape Verde Standard Time						
12 20 21 22 30	Azores Standard Time (UTC-01:00) Cape Verde Is. Cape Verde Daylight Time Cape Verde Standard Time (UTC-02:00) Mid-Atlantic						
12 20 21 22 30 31	Azores Standard Time (UTC-01:00) Cape Verde Is. Cape Verde Daylight Time Cape Verde Standard Time (UTC-02:00) Mid-Atlantic Mid-Atlantic Daylight Time						
12 20 21 22 30 31 32	Azores Standard Time (UTC-01:00) Cape Verde Is. Cape Verde Daylight Time Cape Verde Standard Time (UTC-02:00) Mid-Atlantic Mid-Atlantic Daylight Time Mid-Atlantic Standard Time						
12 20 21 22 30 31 32 40	Azores Standard Time (UTC-01:00) Cape Verde Is. Cape Verde Daylight Time Cape Verde Standard Time (UTC-02:00) Mid-Atlantic Mid-Atlantic Daylight Time Mid-Atlantic Standard Time (UTC-03:00) Brasilia						
12 20 21 22 30 31 32 40 41	Azores Standard Time (UTC-01:00) Cape Verde Is. Cape Verde Daylight Time Cape Verde Standard Time (UTC-02:00) Mid-Atlantic Mid-Atlantic Daylight Time Mid-Atlantic Standard Time (UTC-03:00) Brasilia E. South America Daylight Time						

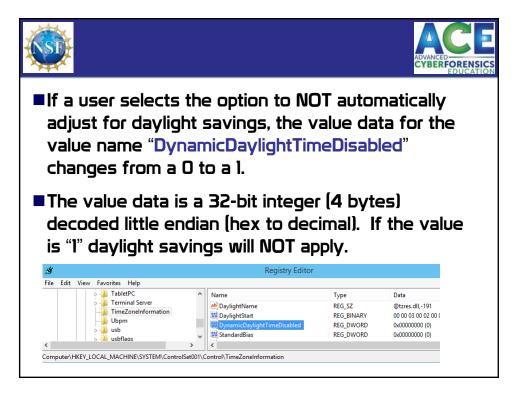


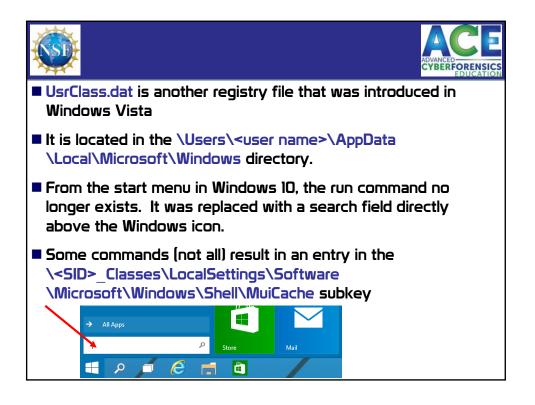


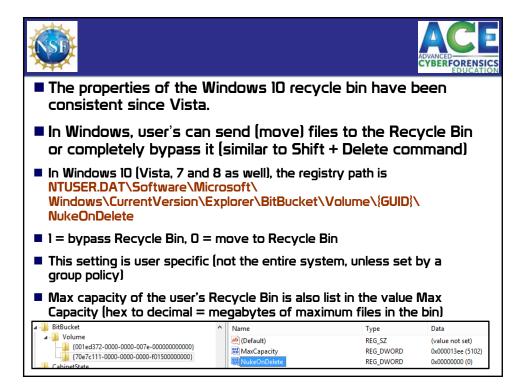
- Daylight Start & Standard Start
- Sixteen Bytes, 2 bytes per meaning, convert hex to decimal
- Year, Month, Week, Hour, Minutes, Seconds, Milliseconds, Day
 - Year: If the year is zero, it reoccurs every year
 - Month: # indicates the month (1-12)
 - Week: week in the month when the setting will start
 - Hour: # hour of the day in 24-hour format
 - Minutes: # of minutes when the setting will start
 - Seconds: # of seconds when the setting will start
 - Milliseconds: # of seconds when the setting will start
 - Day: Day of the week when the setting will start

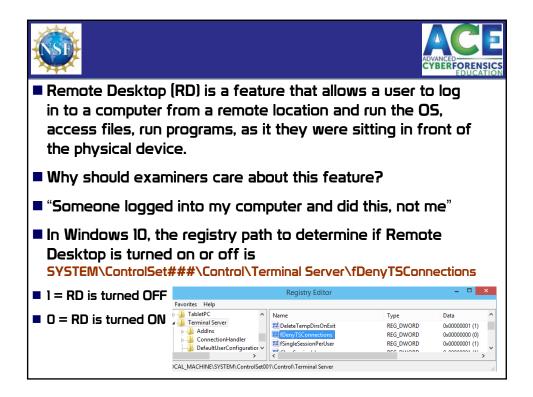


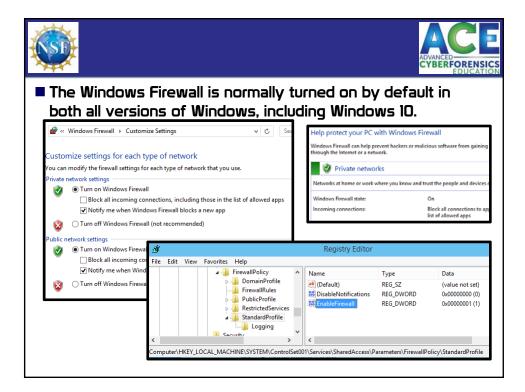
Same v	value as shown	in R	legistry View	er	
	AccessData	Reaist	ry Viewer (Demo Mode) - [S	YSTEM1	_ 0
<u> </u>			.,		_ 8
🗃 🔍 🕒 🖬 🖉					
Carter of the second seco	I Server neInformation	~	DaylightBias DaylightName StandardStart StandardBias StandardName Bias DaylightStart Imr2coneKcyName DaylightStart Dinnacconsiderity	REG_DWORD REG_SZ REG_BINARY REG_DWORD REG_SZ REG_DWORD REG_BINARY REG_SZ REG_DWORD	OxFFFFFFC4 (4294967236) @tzres.dll,-191 00 00 80 00 10 00 20 00 00 00 00 00 00 00 00 00 00 00
Last Written Time	12/4/2014 23:24:05 UTC		ActiveTimeBias	REG_DWORD	0x000001A4 (420)
Standard Start Date Daylight Start Date Standard Bias	First Sun in Nov at 2:00:00 AM Local Second Sun in Mar at 2:00:00 AM Local 0		<pre>< 00 4D 00 6F 00 75 00 6E 00 10 20 00 53 00 74 00 61 00 20 64 00 20 00 54 00 69 00</pre>	-6E 00 64 00 61	00 72 00 ·S·t·a·n·d·a·r·
Daylight Bias	-60		20104 00 20 00 04 00 05 00	02 00 00 00 00	
	ntrol\TimeZoneInformation		Offset: 0		

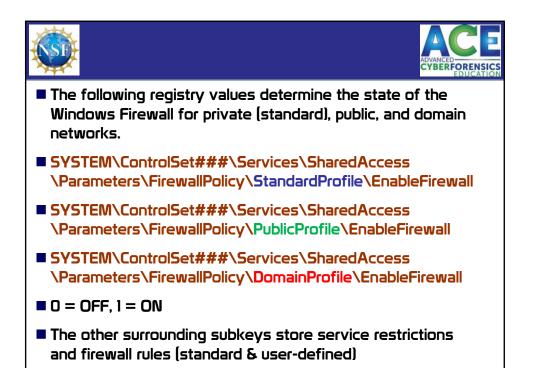


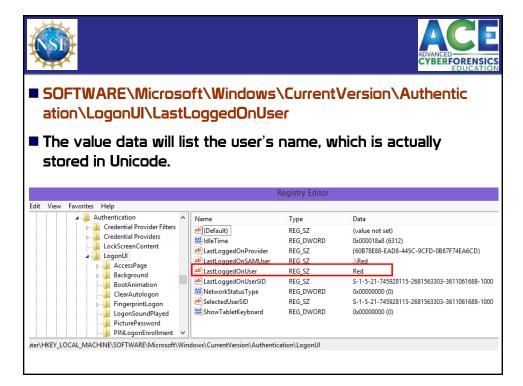


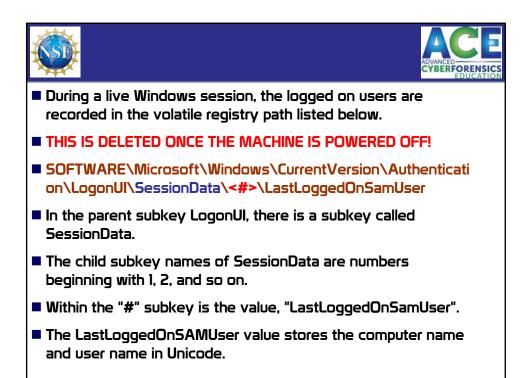


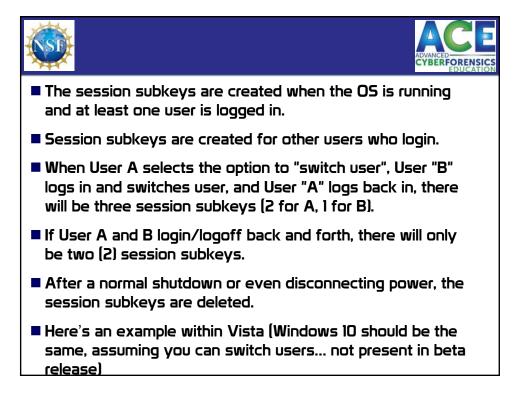


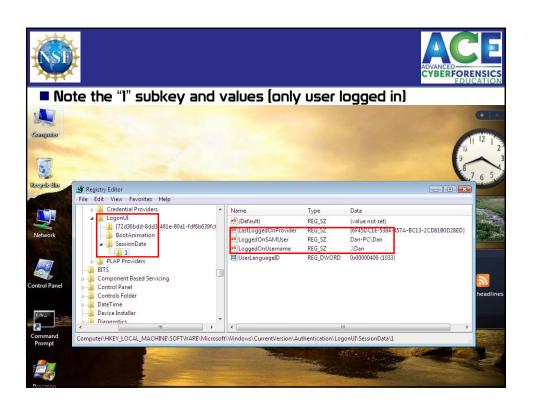


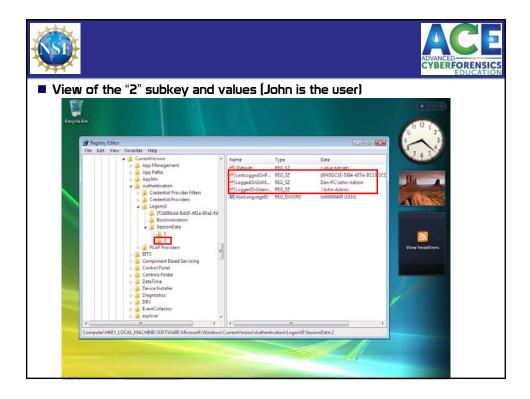


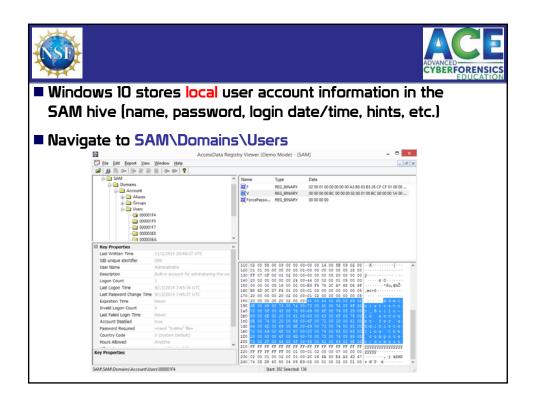


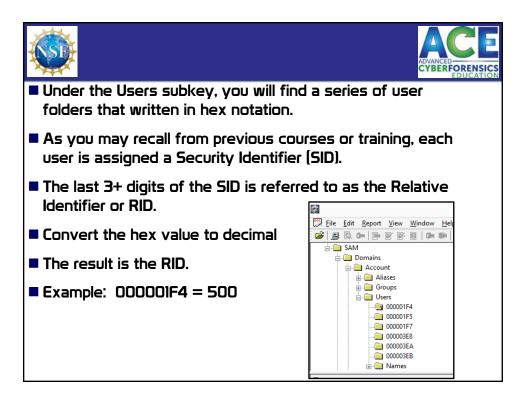














YBERFORENSICS

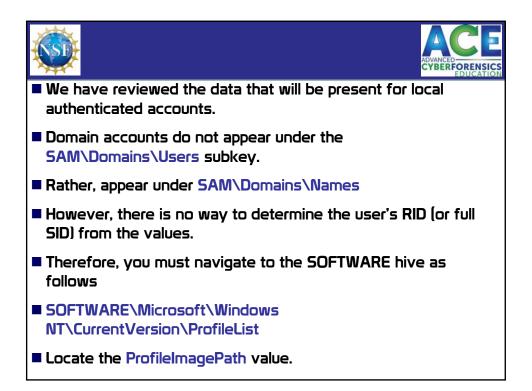
- The V value data shows the name of the user in plain Unicode text
- Administrator is the built-ir account on the local machine
- The RID is 500, which is common on installations of Windows from NT to present.

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	.a0	72							00-69							00	r ·			i -1			•
15	.b0	69							00-63							00							
15	.c0	6E	00	74	00	20	00	66	00-6F	00	72	00	20		61	00	n ·			0.1			
	.d0	64		6D	00	69		6E	00-69	00		00			65	00							
	.e0	72	00	69	00	6E	00		00-20	00		00	68	00	65	00							
	200	20 72		63 2F		6F 64		6D 6F	00-70 00-6D	00					65 6E	00				p-u m-a			
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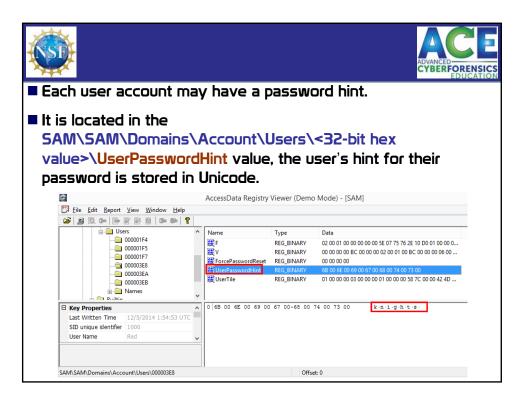


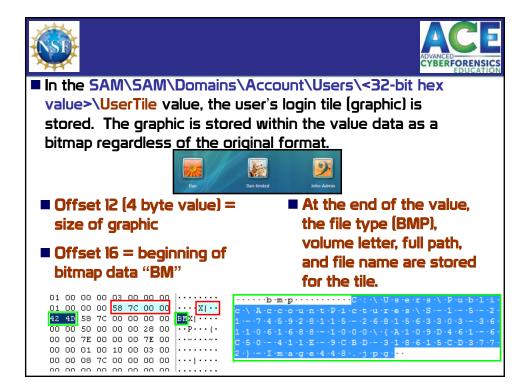
- In Registry Viewer, we can view the key properties, which "decodes" the data in the F and V values for us.
- Registry Viewer show the RID as "SID unique identifier"
- In order to access all of the decryption and advanced features of registry viewer, you must have a fully licensed version.

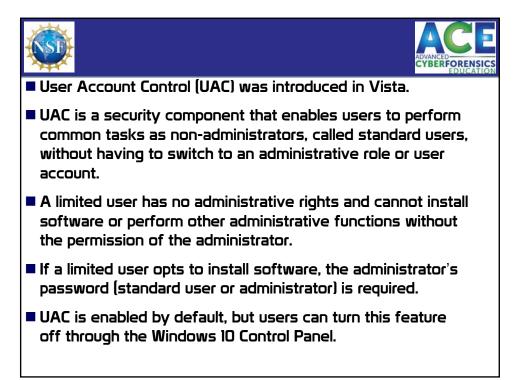
Users 000001F4 000001F5							
Key Properties							
Last Written Time	11/2/2014 20:48:37 UTC						
SID unique identifier	500						
User Name	Administrator						
Description	Built-in account for administering the co						
Logon Count	1						
Last Logon Time	9/13/2014 7:45:34 UTC						
Last Password Change Time	9/13/2014 7:45:37 UTC						
Expiration Time	Never						
Invalid Logon Count	0						
Last Failed Login Time	Never						
Account Disabled	true						
Password Required	«need "SysKey" file»						
Country Code	0 (System Default)						
Hours Allowed	Anytime						
NT Hash	«need "SysKey" file»						
LM Hash	«need "SysKey" file»						
Old NT Hash	«need "SysKey" file»						

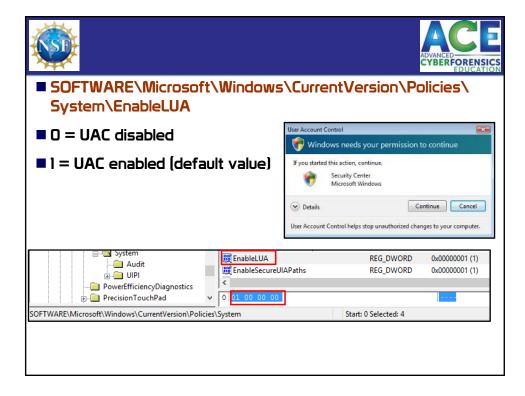


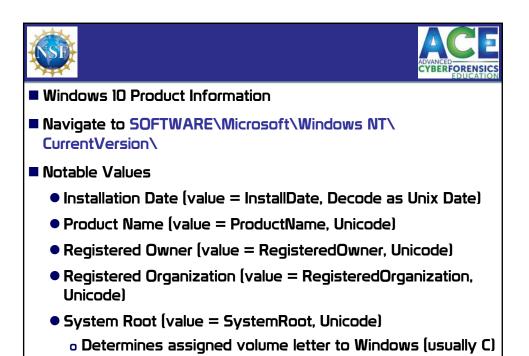
 Review the value data, whicuser's profile folder on the lagencies 	_	ical pa	ADVANCED CYBERE	ORENSICS EDUCATION
In this example, we see the 2681563303-3611061688-100 AccessData Registry V		"Red.'		- • ×
File Edit Report View Window Help		-1		_ 8 ×
← ProfileList	Name ProfileImagePath E Flags State State	Type REG_EXPAND REG_DWORD REG_DWORD REG_BINARY	Data C:\Users\Red 0x00000000 (0) 0x00000000 (0) 01 05 00 00 00 00	00 05 15 00 00 00 B
Key Properties Last Written Time 12/5/2014 1:57:41 UTC	ProfileAttemptedProfileDownloadTi ImprofileAttemptedProfileDownloadTi ImprofileLoadTimeLow ProfileLoadTimeHigh RerCount RunLogonScriptSync <	REG_DWORD	0x00000000 (0) 0x00000000 (0) 0x00000000 (0) 0x00000000 (0) 0x00000000 (0) 0x00000000 (0)	,
SOETWARENMicrosoft Windows NTV Current/Jaccion Drofilal int S-1-S-21-7/502811	00 43 00 3A 00 5C 00 55 00-73 0 10 5C 00 52 00 65 00 64 00-00 0 5.26815 0ffcet 0		73 00 C·:·∖·U \·R·e·d	

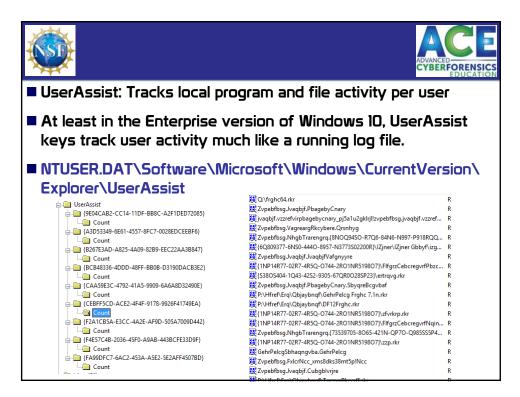




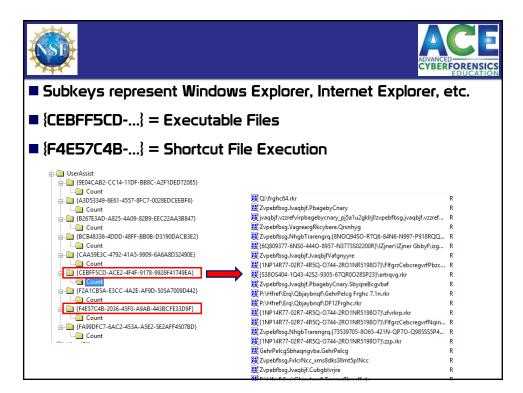


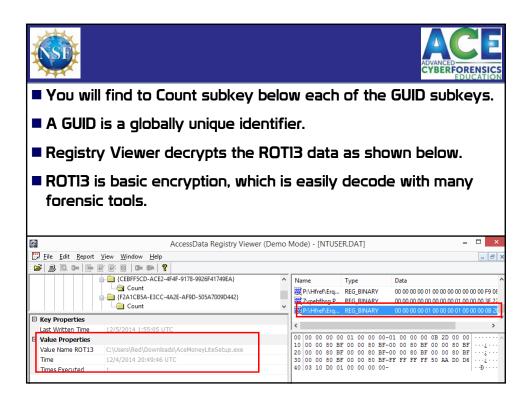


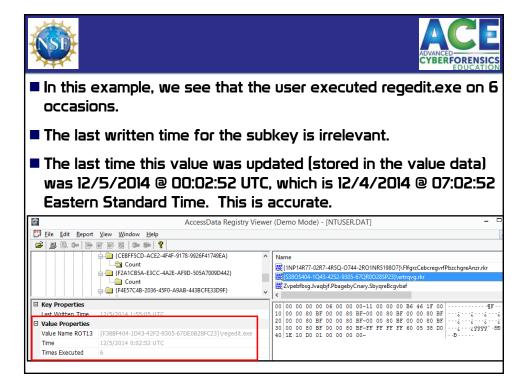




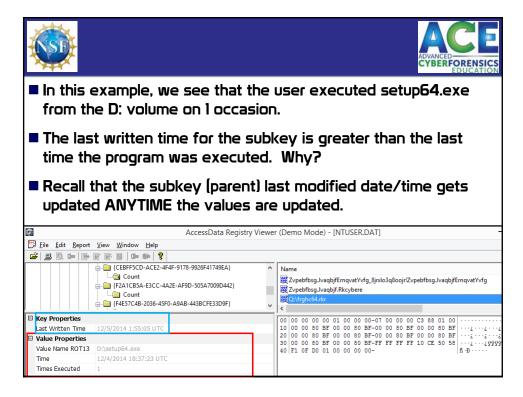
			SICS							
User activity is tracked beneath these subker	User activity is tracked beneath these subkeys in the Count subkeys.									
The value names and value data are encrypt (Caesarian cipher or Rotate by 13 places).	The value names and value data are encrypted with ROT13 encoding (Caesarian cipher or Rotate by 13 places).									
The letter A would be listed as N while E wo	uld be lis	sted as R.								
The raw data looks like this										
Name	Туре	Data								
Zvpebfbsg.JvaqbjfErnqvatVvfg_8jrxlo3q8oojr!Zvpebfbsg.JvaqbjfErnqvatVvfg	REG_BINARY	00 00 00 00 (
🧱 Zvpebfbsg.Jvaqbjf.Rkcybere	REG_BINARY	00 00 00 00 (
鼷 Q:\frghc64.rkr	REG_BINARY	00 00 00 00 (
🐹 Zvpebfbsg.Jvaqbjf.PbagebyCnary	REG_BINARY	00 00 00 00 (
😻 jvaqbjf.vzzrefvirpbagebycnary_pj5a1u2gklrjl!zvpebfbsg.jvaqbjf.vzzrefvirpbagebycnary	REG_BINARY	00 00 00 00 (
腱 Zvpebfbsg.VagreargRkcybere.Qrsnhyg	REG_BINARY	00 00 00 00 (
Zvpebfbsg.NhgbTrarengrq.{8NOQ94SO-R7Q6-84N6-N997-P918RQQR0NR5}	REG_BINARY	00 00 00 00 (
🗮 {6Q809377-6NS0-444O-8957-N3773S02200R}\\Zjner\IZjner Gbbyf\izgbbyfq.rkr	REG_BINARY	00 00 00 00 (
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鬷 (1NP14R77-02R7-4R5Q-0744-2R01NR519807)\FlfgrzCebcregvrfPbzchgreAnzr.rkr	REG_BINARY	00 00 00 00 (
践{\$380\$404-1Q43-42\$2-9305-67QR0O28\$P23}\ertrqvg.rkr	REG_BINARY	00 00 00 00 (
😻 Zvpebfbsg.Jvaqbjf.PbagebyCnary.SbyqreBcgvbaf	REG_BINARY	00 00 00 00 (
😻 P:\Hfref\Erq\Qbjaybnqf\GehrPelcg Frghc 7.1n.rkr	REG_BINARY	00 00 00 00 (
鼷 P:\Hfref\Erq\Qbjaybnqf\DF12Frghc.rkr	REG_BINARY	00 00 00 00 (
B {1NP14R77-02R7-4R5Q-0744-2R01NR519807}\zfvrkrp.rkr	REG_BINARY	00 00 00 00 (

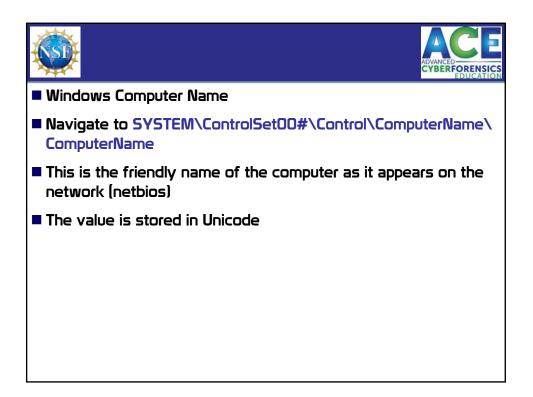


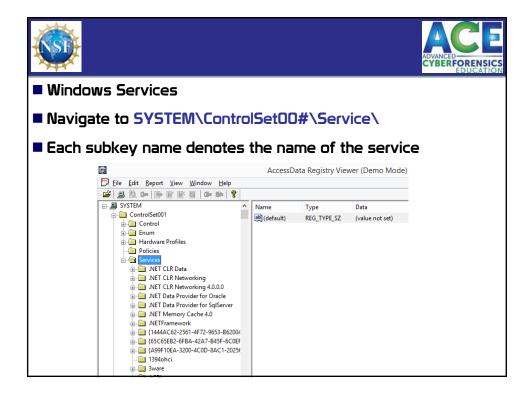


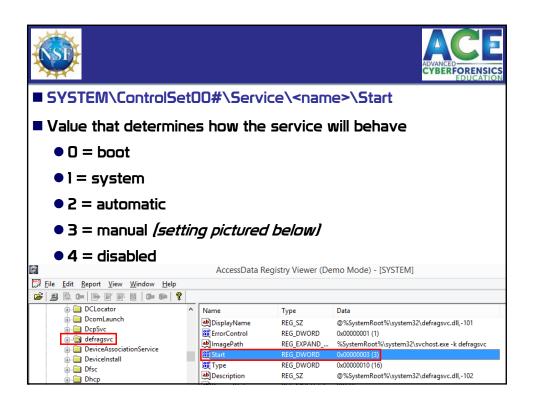


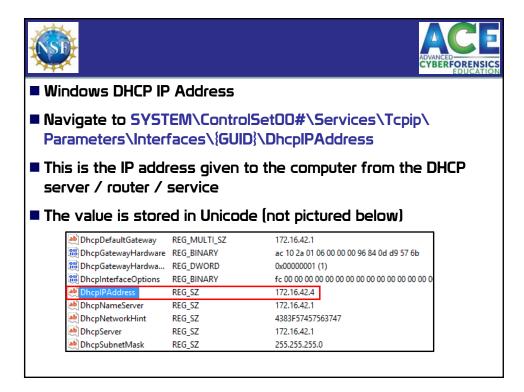
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	ewer (Deho Mode) - [NTUSER.DAT] -
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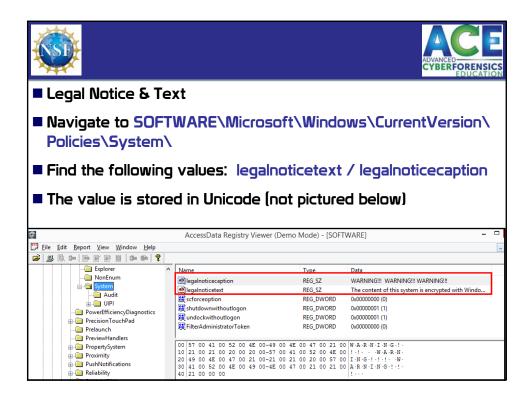


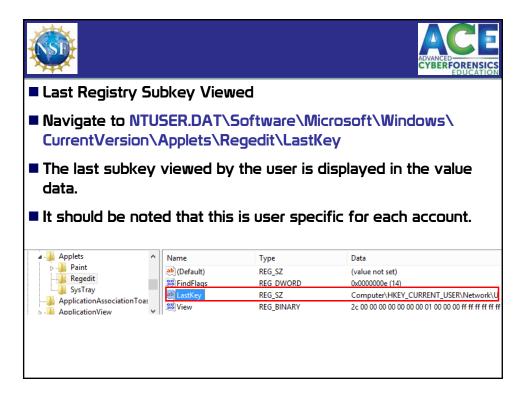


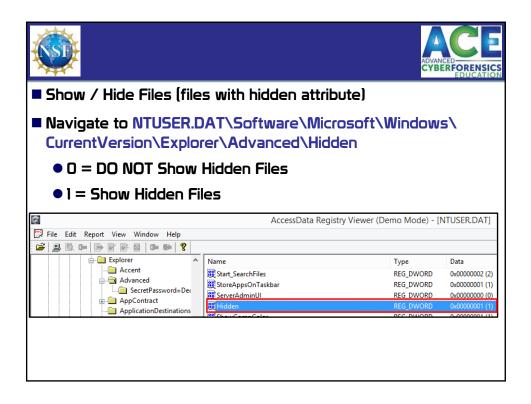


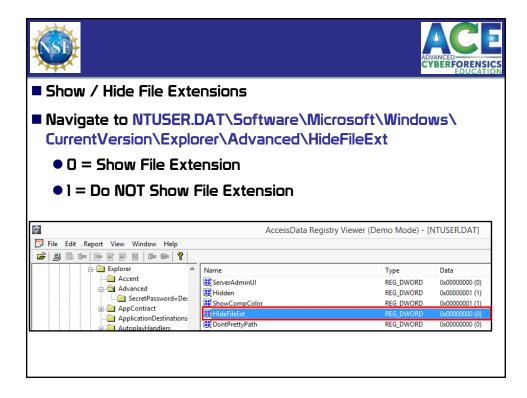


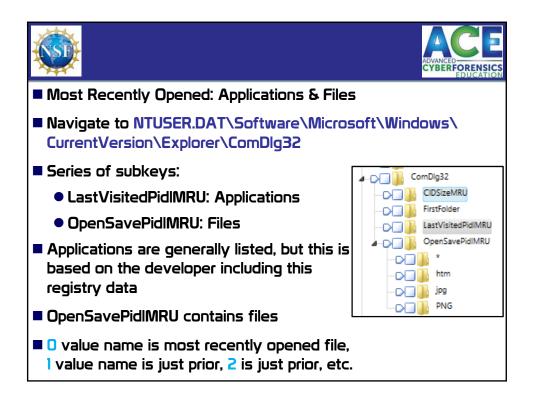


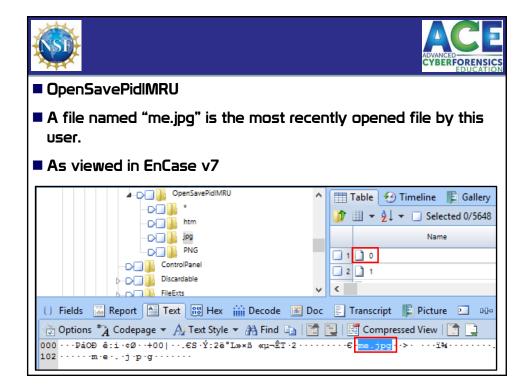




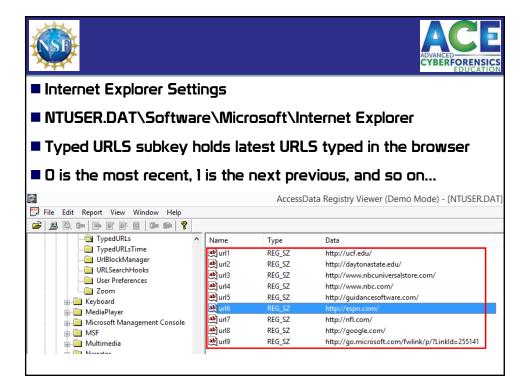




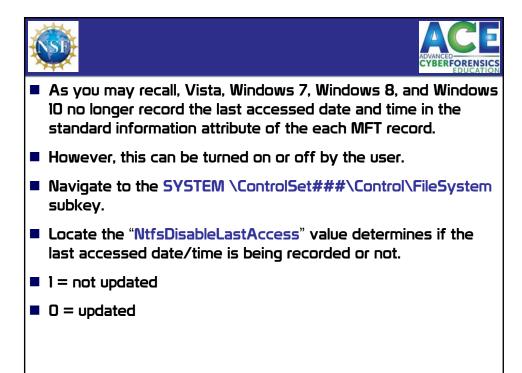


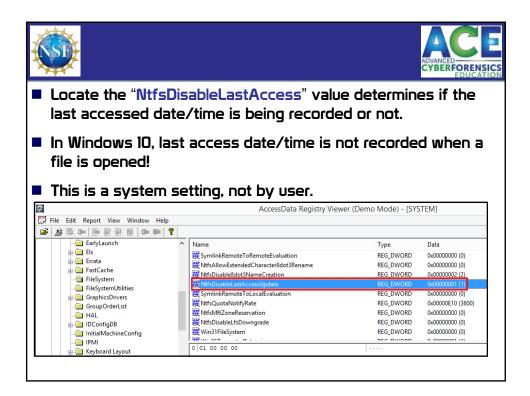


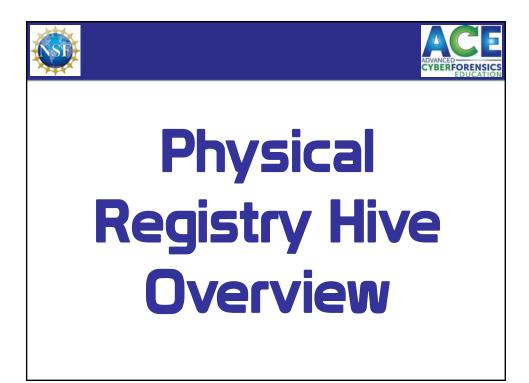
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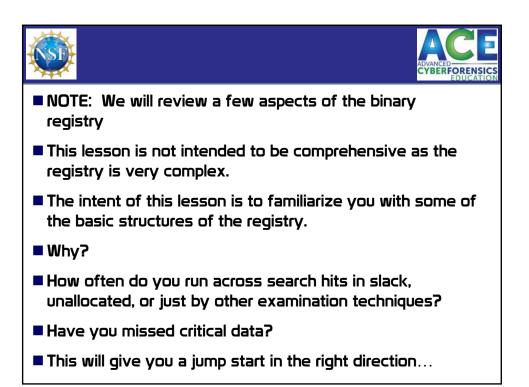


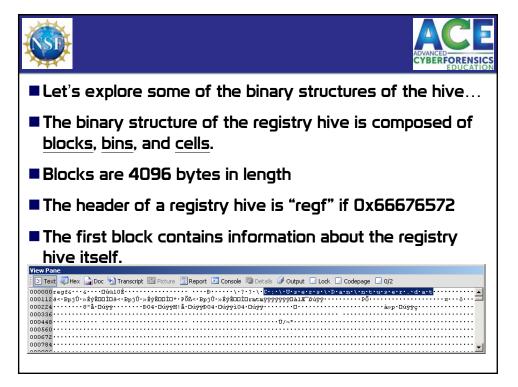
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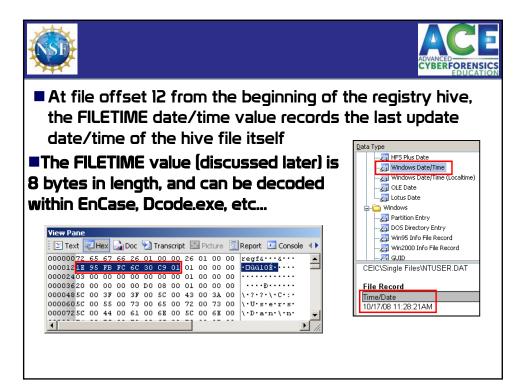




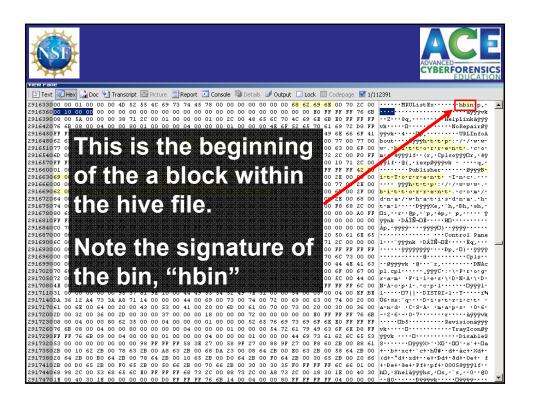


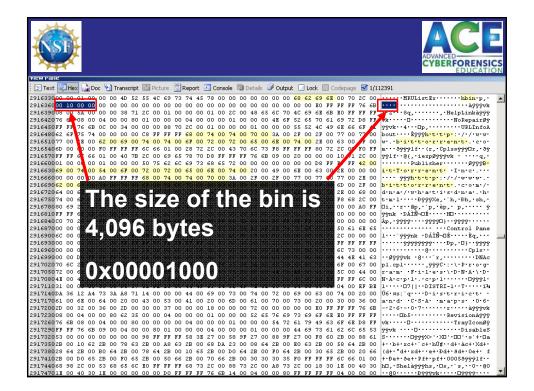






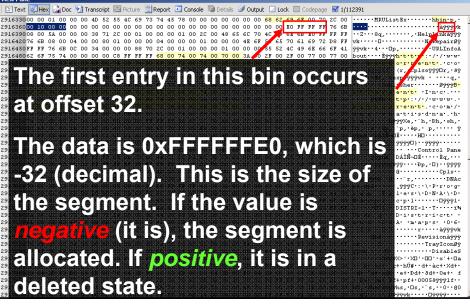
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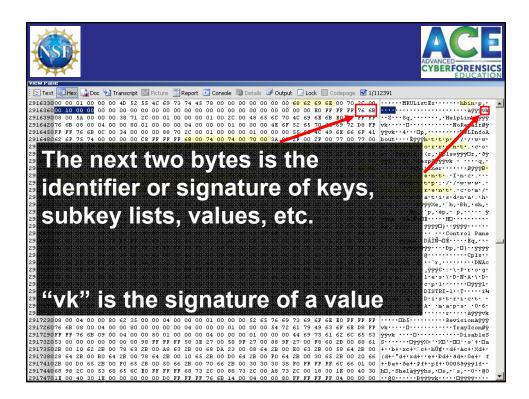


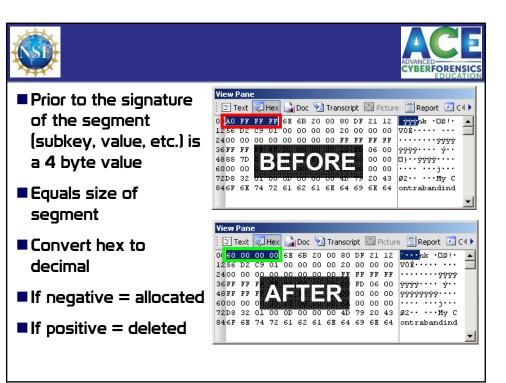












OxFFFFFFAD = -96 Ballocated Byte Order: Data Type: Raw Hex Decimat FFFFFFa Decimat FFFFFF Decimat FFFFFF Decimat FFFFFF Decimat FFF Decimat FFF FFF FF	View Pane Text Hex Doc Transcript Picture Report C () 0 AO FF FF 6E 6E 20 00 80 DF 21 12 12 56 D2 C9 01 00<
Ox0000060 = +96 deleted Base Converter Byte Order: Data Type: Raw Hex Desimal Ox000000000000000000000000000000000000	View Pane Image: Text Hex Doc Transcript Picture Report Image: C(1) 0(50 00 00 68 68 20 00 00 Image: C(1) 1256 D2 C9 01 00 00 00 00 00 00 00 2400 00

Logical view of the TypedURLs subkey			
Registry Editor Elit Sex Several Several	3		
Physical view of the subkey: Identification			
 Unique signature: "kn" (little endian) 	FF FF FF 6E 6B 20 00 78 63 ÿÿjnk •xc		
• 0x6B6E	D2 D4 21 18 C9 01 00 00 00 00!·É···· 00 20 50 00 00 00 00 00 00 · P·····		
FILETIME date/time value follows	00 00 00 00 FF FF FF FF FF ···· yyyyy FF FF FF 05 00 00 00 78 1C yyy		
FILETIME value = key/subkey last	04 00 38 1D 02 00 FF FF FF8yyy FF 00 00 00 00 00 00 00 00 v		
modified	08 00 00 00 5A 00 00 00 00z		
 Subkey name in Unicode 	00 00 00 09 00 00 00 54 79 ··· ···Ty 70 65 64 55 52 4C 73 00 00 pedURLs·· 00 00 00 00 00 E0 FF FF FF ·····àÿÿÿ		

