#### KAUNO TECHNOLOGIJOS UNIVERSITETAS

## KOMPIUTERIŲ KATEDRA

# NUSIKALTIMAI ELEKTRONINĖJE ERDVĖJE IR JŲ TYRIMŲ METODIKOS T120M152

# Laboratorinio darbo Nr. 1 ataskaita KOMPIUTERINĖS INFORMACIJOS IŠTYRIMAS REGISTRAS

Atliko: IFM-1/3 gr.

Stud. Eligijus Kiudys

Patikrino:

## Laboratorinis darbas Nr. 1. Kompiuterinių įkalčių tyrimas ir bylos sudarymas

#### Darbo priemonės

- 1. Hyper-V, VMplayer, VirtualBox įkalčių OS;
- 2. Kompiuterio kietojo disko atvaizdas; NEE įkalčių atvaizdas; NEE įkalčių registras.
- 3. AccessData Registry Viewer;
- 4. Sysinternals paketas;
- 5. Microsoft File Checksum Integrity Verifier (kontrolinių sumų skaičiavimas);
- 6. Regripper;
- 7. FTP prieiga (įkalčių disko atvaizdai ir registrai NEE katalogas; FCIV TOOLS katalogas ) <a href="ftp://IP">ftp://IP</a> Prisijungimo vardas: anonymous; Naudoti KTU VPN (Klases) prisijungimą atliekant darbą namuose;
- 8. Galima naudoti ir šiame sąraše nepateiktą programinę įrangą (Programinės įrangos paketas yra pateiktas MS TEAMS TOOLS kataloge.

#### Darbo scenarijus:

Kompiuterio vartotojas Almantas Karvelis, buvo nužudytas, dėl galimo bendradarbiavimo su Valstybinėmis institucijomis arba dėl kibernetinių išpuolių prieš "KTU TELEKOM" organizaciją. Policijos skyrius atliko poėmio kratas ir sulaikė A. K. darbo (workstation) kompiuterį. DVI (pirmoji gr. – neporiniai; antroji gr. poriniai skaičiai tyrėjų-studentų grupės sąraše) grupės tirs įkalčių surinkimo tinkamumą ir bandys išsiaiškinti galimas nužudymo priežastis. Reikia atlikti kompiuterio kietojo disko tyrimą ieškant galimų vartotojo atliktų veiksmų įrodymų atliekant veiklos požymių.

#### Darbo tikslas

Atlikti kietojo disko atvaizdo kopijos analizę: registrų, istorijos, prisijungimo (login/password), el. pašto, debesų kompiuterijos paslaugų("clouds computing") analizę, ir pateikti išvadas, įvardinant įkalčių sąsajumą (neprivaloma).

Tyrimui pateikiama kompiuterio kietojo disko atvaizdo kopija, kuriame yra sekanti informacija: Windows registrai ir veiksmų istorija, esanti failuose NTUSER.DAT, SAM, SECURITY, SYSTEM, SOFTWARE, DEFAULT, naršyklės istorija, vartotojo profilio istorija, vartotojo paieškos istorija, prisijungimų duomenys, debesų kompiuterijos duomenų sinchronizacijos informacija). Kiekvienai (viso 2) grupei analizuojant pateiktą disko atvaizdą, naudojant elektroninių nusikaltimų tyrimo įrankius, reikės sugeneruoti HTML arba TXT tipo ataskaitas ("output"). Sugeneruotas ataskaitas reiks pateikti po užduoties klausimais. Toliau naudojant ( AutoPSY "The Sleuth Kit") programinę įrangą, reikės sudaryti bylą, prie kurios reiks ridėti ankščiau sugeneruotas ataskaitas.

### UŽDUOTYS

Naudojantis elektroninių nusikaltimų ištyrimų priemonėmis, atsakyti į žemiau pateiktus klausimus:

Naudojamos sistemos konfigūracijos numeris (Default konfiguracijos numeris atitinka naudojama ControlSet numerį, toliau pažymėtą kaip XXX)SYSTEM\Select\Default 001

Kompiuterio operacinės sistemos pavadinimas (OS name)*SOFTWARE\Microsoft\Windows NT\CurrentVersion/ProductName* 

Windows 8.1 Pro

Įdiegto atnaujinimų rinkinio numeris (most recent service pack installed) SOFTWARE \Microsoft \Windows NT\Current Version/CSDV ersion

6.3

OS įdiegimo katalogas (OS installation folder path)*SOFTWARE\Microsoft\Windows NT\CurrentVersion/PathName* 

C:/Windows

OS įdiegimo data (OS installation date)  $SOFTWARE \setminus Microsoft \setminus Windows NT \setminus Current Version / Install Date$ 

2016-09-02 22:32:44 GMT+03:00

Registruotas kompiuterio savininkas (Registered Owner)  $SOFTWARE \setminus Microsoft \setminus Windows NT \setminus Current Version / Registered Owner$ 

Almantas Karvelis

 $Registruotas\ organizacijos\ pavadinimas\ (Registered\ Organization) \textit{SOFTWARE} \backslash \textit{Microsoft} \backslash \textit{Windows}\ NT \backslash \textit{CurrentVersion/RegisteredOrganization}$ 

Reikšmė nenustatyta

Kompiuterio vardas (Computer Name)SYSTEM\ControlSetXXX\Control\ComputerName/ComputerName

**KAUNAS** 

Kompiuterio laiko juostos nustatymai (Computer Time Zone Information) SYSTEM\ControlSetXXX\Control\TimeZoneInformation/StandardName Laiko juosta FLE Standard Time (UTC+02:00). Standartinis laikas įvedamas paskutinį spalio sekmadienį 4:00, vasaros laikas įvedamas paskutinį kovo sekmadienį 3:00.

Tinklo plokščių informacija (NetworkCards information) $SOFTWARE \setminus Microsoft \setminus Windows NT \setminus CurrentVersion \setminus NetworkCards \setminus \#$ 

Pavadinimas/	Identifikatorius/
Description	ServiceName
(1) Realtek PCIe GBE Family Controler	{7BDB37D7-DF90-4E3A-95E0-
·	FA85D8CB7009}
(2) Realtek RTL8191SE Wireless LAN	{16BF4516-0C45-4EC9-AE24-
802.11n PCI-E NIC	1CF55DA247B2}

Kompiuterio tinklo plokščių nustatymai "Default" sistemos konfigūracijos rinkinyje (Networks adapter's configuration in the Default configuration profile) SYSTEM\ControlSetXXX\Services\Tcpip\Parameters\Interfaces

Pavadinimas/	Tinklo plokštės konfigūracija/ Network adapter configuration		
Description			
(3) Realtek	EnableDHCP	1	
RTL8191SE	DhcpIPAddress	192.168.0.200	
Wireless LAN	IPAddress	-	
802.11n PCI-E NIC	DhcpSubnetMask	255.255.255.0	
	SubnetMask	-	
	DhcpServer	192.168.0.1	
	DefaultGateway	-	
	DefaultGatewayMetric	-	
	NameServer	Reikšmė nenustatyta (value not set)	
(1) Realtek PCIe	EnableDHCP	1	
GBE Family	DhcpIPAddress	-	
Controler	IPAddress	-	
	DhcpSubnetMask	-	
	SubnetMask	-	
	DhcpServer	-	
	DefaultGateway	-	
	DefaultGatewayMetric	-	
	NameServer	Reikšmė nenustatyta (value not set)	

Kokios USB atminties talpyklos buvo prijungtos prie kompiuterio SYSTEM\ControlSetXXX\Enum\USBSTOR

Registro šakos pavadinimas	Pavadinmas/FriendlyNam
	e
Disk&Ven_ADATA&Prod_USB_Flash_Drive&Rev_1.0	ADATA USB Flash
0	Drive USB device

Disk&Ven_SanDisk&Prod_Cruzer_Fit&Rev_1.00	SanDisk Cruzer Fit USB
	device

Kompiuterio vartotojų informacija (vartotojai, vartotojų prisijungimo laikai ir kartai, SID) SAM\Domains\Account\Users

Vartotojas/	SID	Paskutinis	Prisijungimų kiekis/
User Name		prisijungimo laikas/	Logon Count
		Last Logon Time	
Administrator	000001F4	2013 - 08 - 22	1
		14:47:09 UTC	
Almantas Karvelis	000001F5	2016 - 09 - 02	4
		10:33:30 UTC	
Guest	000003E9	Niekada	0

Vėliausiai (paskutinis) prisijungęs vartotojas ir jo prisijungimo laikas SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon (DefaultUserName, Last Written Time)

(Value not set) 2016 - 09 - 07 14:16:51

Kokia programinė įranga buvo įdiegta kompiuteryje SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall

Pavadinimas/	Įdiegimo katalogas/	Įdiegimo data/
DisplayName	Install Location	Last written
		time
LibreOffice	C:\ProgramFiles (x86)\ LibreOffice 5\	9/5/2016
5.2.0.4		13:36:33 UTC
Gpg4win	C:\ ProgramFiles (x86)\GNU\GnuPG	9/2/2016
(2.3.3)		10:08:40 UTC
Mozilla	C:\Program Files (x86)\Mozilla Firefox	9/2/2016
Firefox		10:02:09 UTC
48.0.2 (x86		
en-US)		
Mozilla	C:\Program Files (x86)\Mozilla Thunderbird	9/2/2016
Thunderbird		10:04:57 UTC
45.3.0 (x86		
en-US)		
Google	C:\ProgramFiles (x86)\ Google	9/2/2016
Drive		10:28:00 UTC

Podėlyje (angl. cache) rastas BoxSync diegimo failas (2016 – 09 – 02 13:48:50)

Ar kompiuteryje buvo įdiegta antivirusinė programa, kokia ji (pagal įdiegtos programinės įrangos sąrašą) ir jos įdiegimo data

Windows Defender 9/7/2016 14:16:51 UTC

Kokia programinė įranga buvo naudojama kompiuteryje dažniausiai NTUSER.DAT\Software\Microsoft\Windows\CurrentVersion\Explorer\UserAssist\750...

Vykdytos programos pavadinimas/	Paskutinis	Vykdymų	Trumpas
Value Name ROT13	vykdymo	kiekis/	programos
	laikas/	Times	aprašymas
	Time	Executed	
{9E3995AB-1F9C-4F13-B827-	9/7/2016	9	El. pašto
48B24B6C7174}\TaskBar\Mozilla	14:19:08		skaitymo PĮ
Thunderbird.lnk	UTC		"Thunderbird"

Omenacinės sistemas ilmoves metu vydodemas me enemas (Nymodytos mesistme želvos cali kūti tužžios
Operacinės sistemos įkrovos metu vykdomos programos (Nurodytos registro šakos gali būti tuščios,

Operacinės sistemos įkrovos metu vykdomos programos (Nurodytos registro šakos gali būti tuščios, arba šakų gali visiškai nebūti )

 $SOFTWARE \label{lem:conft} Value \label{lem:conft} Windows \label{lem:conft} Current Version \label{lem:conft} Runonce$ 

 $SOFTWARE \setminus Software \setminus Microsoft \setminus Windows \setminus Current Version \setminus policies \setminus Explorer \setminus Run$ 

 $SOFTWARE \setminus Software \setminus Microsoft \setminus Windows \setminus Current Version \setminus Run$ 

 $NTUSER.DAT \setminus Software \setminus Microsoft \setminus Windows \setminus NT \setminus Current Version \setminus Windows \setminus Run$ 

Kokia programine iranga vartotojas naudojosi paskutinio prisijungimo metu?

 $NTUSER.DAT \setminus Software \setminus Microsoft \setminus Windows \setminus Current Version \setminus Run$ 

 $NTUSER.DAT \ \backslash Software \backslash Microsoft \backslash Windows \backslash Current Version \backslash RunOnce$ 

"C:\Program Files\Box\Box Sync\BoxSync.exe" -m
"C:\Program Files (x86)\Google\Drive\googledrivesync.exe" /autostart

Kokios internetinės naršyklės buvo įdiegtos kompiuteryje SOFTWARE\Clients\StartMenuInternet

FIREFOX.EXE
IEXPLORE.EXE

Kokia naršyklė naudojama kaip numatytoji SOFTWARE\Classes\http\shell\open\command SOFTWARE\Clients\StartMenuInternet / default

IExplore.exe

Kokie URL adresai buvo įvesti Internet Explorer naršyklėje NTUSER.DAT\Software\Microsoft\Internet Explorer\Typed URLs

Numeris	URL adresas
1	http://google.com/
2	http://live.com/
3	http://hotmail.com/
4	http://www.mozila.org/en-US/thunderbird

5	http://www.mozila.org/
6	http://go.microsoft.com/fwlink/p/?LinkId=255141

Kokie URL adresai buvo įvesti kituose naršyklėse Kita naršyklė buvo naudota tik Mozila firedox

	,			
1	https://www.mozilla.org/en-US/firefox/central/			
2	https://www.mozilla.org/en-US/firefox/help/			
3	https://www.mozilla.org/en-US/firefox/customize/			
4	https://www.mozilla.org/en-US/contribute/			
5	https://www.mozilla.org/en-US/about/			
6	http://go.microsoft.com/fwlink/p/?LinkId=255142			
7	place:sort=8&maxResults=10			
	http://www.bing.com/search?q=7-zip&src=IE-			
8	TopResult&FORM=IETR02&conversationid=			
9	http://www.bing.com/search?q=thunderbird&FORM=IE8SRC			
	http://www.bing.com/search?q=almantas+karveis&src=IE-			
10	TopResult&FORM=IETR02&conversationid=			
	http://www.bing.com/search?q=gnupg&src=IE-			
11	TopResult&FORM=IETR02&conversationid=			
12	http://www.msn.com/?ocid=iehp			
13	https://www.gpg4win.org/get-gpg4win.html			
14	https://www.gpg4win.org/thanks.html			
15	https://www.gpg4win.org/download.html			
16	http://www.7-zip.org/			
17	https://www.mozilla.org/en-US/thunderbird/			
18	https://www.mozilla.org/en-US/firefox/products/			
19	https://www.mozilla.org/en-US/firefox/new/?scene=2			
20	https://www.mozilla.org/fr/thunderbird/			
21	https://www.mozilla.org/en-US/firefox/desktop/			
22	https://www.mozilla.org/en-US/			
23	place:type=6&sort=14&maxResults=10			
24	https://www.mozilla.org/en-US/firefox/48.0.2/firstrun/			
25	https://www.mozilla.org/en-US/firefox/48.0.2/firstrun/learnmore/			
26	https://www.google.com/search?q=gnupg&ie=utf-8&oe=utf-8			
27	https://www.google.com/search?q=gnupg&ie=utf-8&oe=utf-8#q=win4pgp			
28	https://www.gpg4win.org/			
29	https://files.gpg4win.org/gpg4win-2.3.3.exe			
30	https://www.google.com/search?q=gdrive&ie=utf-8&oe=utf-8&client=firefox-b-ab			
	https://www.google.lt/search?q=gdrive&ie=utf-8&oe=utf-8&client=firefox-b-			
31	ab&gfe_rd=cr&ei=RFDJV5T7C4Sr8weG-J7ACA			
	https://www.google.com/search?q=gdrive&ie=utf-8&oe=utf-8&client=firefox-b-			
32	ab&gfe_rd=cr&ei=RFDJV5T7C4Sr8weG-J7ACA			
33	https://www.google.com/drive/			
	https://accounts.google.com/ServiceLogin?service=wise&passive=true&continue=			
	http%3A%2F%2Fdrive.google.com%2F%3Futm_source%3Den%26utm_medium			
	%3Dbutton%26utm_campaign%3Dweb%26utm_content%3Dgotodrive%26usp%3			
34	Dgtd%26ltmpl%3Ddrive&urp=https%3A%2F%2Fwww.google.com%2F			

	https://accounts.google.com/ServiceLogin?service=wise&passive=true&continue=
	http%3A%2F%2Fdrive.google.com%2F%3Futm_source%3Den%26utm_medium
	%3Dbutton%26utm_campaign%3Dweb%26utm_content%3Dgotodrive%26usp%3
35	Dgtd%26ltmpl%3Ddrive&urp=https%3A%2F%2Fwww.google.com%2F#identifier
	https://accounts.google.com/ServiceLogin?service=wise&passive=true&continue=
	http%3A%2F%2Fdrive.google.com%2F%3Futm_source%3Den%26utm_medium
	%3Dbutton%26utm_campaign%3Dweb%26utm_content%3Dgotodrive%26usp%3
36	Dgtd%26ltmpl%3Ddrive&urp=https%3A%2F%2Fwww.google.com%2F#password
37	https://accounts.google.com/signin/challenge/sl/password#password
	https://www.google.lt/search?q=gdrive&ie=utf-8&oe=utf-8&client=firefox-b-
38	ab&gfe_rd=cr&ei=hFLJV-rjMleA8Qfuv5CgBg
	https://www.google.com/search?q=gdrive&ie=utf-8&oe=utf-8&client=firefox-b-
39	ab&gfe_rd=cr&ei=hFLJV-rjMleA8Qfuv5CgBg
	https://accounts.google.com/CheckCookie?checkedDomains=youtube&checkCon
	nection=youtube%3A1188%3A1&pstMsg=1&chtml=LoginDoneHtml&service=wise
	&continue=https%3A%2F%2Fdrive.google.com%2F%3Futm_source%3Den%26ut
	m_medium%3Dbutton%26utm_campaign%3Dweb%26utm_content%3Dgotodrive
40	%26usp%3Dgtd%26ltmpl%3Ddrive&gidl=CAwSAggM
	https://security.google.com/settings/security/interstitials/recoveryoptions?authuser
	=0&hl=en&service=wise&continue=https%3A%2F%2Faccounts.google.com%2FS
	erviceLogin%3Fcontinue%3Dhttps%253A%252F%252Fdrive.google.com%252F%
	253Futm_source%253Den%2526utm_medium%253Dbutton%2526utm_campaign
	%253Dweb%2526utm_content%253Dgotodrive%2526usp%253Dgtd%2526ltmpl
	%253Ddrive%26service%3Dwise%26hl%3Den%26authuser%3D0%26passive%3
	Dtrue%26ncpl%3D1%26sarp%3D1%26aodrpl%3D1%26checkedDomains%3Dyo
41	utube%26checkConnection%3Dyoutube%253A1188%253A1%26pstMsg%3D1
	https://accounts.google.com/ServiceLogin?service=accountsettings&passive=120
	9600&osid=1&continue=https://security.google.com/settings/security/interstitials/re
	coveryoptions?authuser%3D0%26hl%3Den%26service%3Dwise%26continue%3
	Dhttps://accounts.google.com/ServiceLogin?continue%253Dhttps%25253A%2525
	2F%25252Fdrive.google.com%25252F%25253Futm_source%25253Den%25252
	6utm_medium%25253Dbutton%252526utm_campaign%25253Dweb%252526utm
	_content%25253Dgotodrive%252526usp%25253Dgtd%252526ltmpl%25253Ddriv
	e%2526service%253Dwise%2526hl%253Den%2526authuser%253D0%2526pass
	ive%253Dtrue%2526ncpl%253D1%2526sarp%253D1%2526aodrpl%253D1%252
	6checkedDomains%253Dyoutube%2526checkConnection%253Dyoutube%25253
	A1188%25253A1%2526pstMsg%253D1&followup=https://security.google.com/set
	tings/security/interstitials/recoveryoptions?authuser%3D0%26hl%3Den%26servic
	e%3Dwise%26continue%3Dhttps://accounts.google.com/ServiceLogin?continue%
	253Dhttps%25253A%25252F%25252Fdrive.google.com%25252F%25253Futm_s
	ource%25253Den%252526utm_medium%25253Dbutton%252526utm_campaign
	%25253Dweb%252526utm_content%25253Dgotodrive%252526usp%25253Dgtd
	%252526ltmpl%25253Ddrive%2526service%253Dwise%2526hl%253Den%2526a
	uthuser%253D0%2526passive%253Dtrue%2526ncpl%253D1%2526sarp%253D1
42	%2526aodrpl%253D1%2526checkedDomains%253Dyoutube%2526checkConnec tion%253Dyoutube%25253A1188%25253A1%2526pstMsg%253D1&hl=en
42	https://security.google.com/accounts/SetOSID?continue=https%3A%2F%2Fsecuri
	ty.google.com%2Fsettings%2Fsecurity%2Finterstitials%2Frecoveryoptions%3Fhl
	%3Den%26service%3Dwise%26continue%3Dhttps%253A%252F%252Faccounts
	.google.com%252FServiceLogin%253Fcontinue%253Dhttps%25253A%252Fdccounts
	25252Fdrive.google.com%25252F%25253Futm_source%25253Den%252526utm
43	_medium%25253Dbutton%252526utm_campaign%25253Dweb%252526utm_con
43	mediam/020200000001/02020200011_campaign/0202000web/020202000111_com

	tent%25253Dgotodrive%252526usp%25253Dgtd%252526ltmpl%25253Ddrive%2 526service%253Dwise%2526hl%253Den%2526authuser%253D0%2526passive %253Dtrue%2526ncpl%253D1%2526sarp%253D1%2526aodrpl%253D1%2526c heckedDomains%253Dyoutube%2526checkConnection%253Dyoutube%25253A1 188%25253A1%2526pstMsg%253D1%26pli%3D1&osidt=ALWU2cvOlKeESuA42 CliASozItJQZunh26xqLOCKLRYuymoWEqmS1XD41pVR9cNrxM6aoTqWYOpTcd
	peC-s_xTp2f0jfqflEeS3npUzZzGuaxzAY0ItbWnB3F7JFRxAiGezWBI9Z4Qmv
	https://security.google.com/settings/security/interstitials/recoveryoptions?hl=en&se rvice=wise&continue=https%3A%2F%2Faccounts.google.com%2FServiceLogin%3Fcontinue%3Dhttps%253A%252F%252Fdrive.google.com%252F%253Futm_so urce%253Den%2526utm_medium%253Dbutton%2526utm_campaign%253Dweb%2526utm_content%253Dgotodrive%2526usp%253Dgtd%2526ltmpl%253Ddrive%26service%3Dwise%26hl%3Den%26authuser%3D0%26passive%3Dtrue%26ncpl%3D1%26sarp%3D1%26aodrpl%3D1%26checkedDomains%3Dyoutube%26ch
44	eckConnection%3Dyoutube%253A1188%253A1%26pstMsg%3D1&pli=1
45	https://accounts.google.com/ServiceLogin?continue=https%3A%2F%2Fdrive.google.com%2F%3Futm_source%3Den%26utm_medium%3Dbutton%26utm_campaign%3Dweb%26utm_content%3Dgotodrive%26usp%3Dgtd%26ltmpl%3Ddrive&service=wise&hl=en&authuser=0&passive=true&ncpl=1&sarp=1&aodrpl=1&checkedDomains=youtube&checkConnection=youtube%3A1188%3A1&pstMsg=1
	https://accounts.youtube.com/accounts/SetSID?ssdc=1&sidt=ALWU2cvbawdYITy
	Z3cK6FptOhKCJDvu7Lg2d3LMetb6RgY4%2FH%2BeQploGE0nHxFXXNIhQignZ OsxO3jJHwUjWHacIEPihaCymN%2BS0zJXJwaS6%2BfcYChUv0TLnWk6sjeLM2
	ooJ6435xNoYZ08F%2BlRnPJIIDj0IKwGAlJBKiAtyjMy1DaO75ZaGKFvwDlORIrRlz
	XsnZ%2BYJA0B0T16H93MHzzdvlTaE8ilTkmbg77CKM2KznkOfGnDMCGPb2qc6
	04MioqODGYcd8spMbswCLDPMfJ%2BJeQvhnzlPCMCRi2dlqUlj1Wny8U%2FLy8
	o%3D&continue=https%3A%2F%2Fdrive.google.com%2F%3Futm_source%3Den
	%26utm_medium%3Dbutton%26utm_campaign%3Dweb%26utm_content%3Dgot odrive%26usp%3Dgtd%26ltmpl%3Ddrive%26pli%3D1%26auth%3DtgNKKFO0nH
	-MgdYH-
	HVDypHWSuD5SRRonGObRv2QwuhRh6vgOmcr8WoNPqKcqLD5KA2Deg.%26a
46	uthuser%3D0&dbus=LT
	https://accounts.google.lt/accounts/SetSID?ssdc=1&sidt=ALWU2ctZkOezKhKdWg
	B8N0pLlr4sGW7dABwsxqjpfXzi3ZlwkA0wLDOxtBiw5OaeVExUfcc5u0QZL6QWKc
	AljsrNWhPtU4nRPpNOhnPZd4OFWcnfHDy69%2Bq9XbTcQtn4RaypM6BkVCgo18UtC6crOD3TJBM6WxJbDV%2F59if052HfPFjcJMNUSKY5JkxMpWdRAPh2qlqlC
	wXcb65zX0TPi1SfachtBu3mSGNCoFChDSDisP0c2lqdAD8GDex3mKKASLc7m2j
	ljsT2g7yXMdn1%2FTxvC5gRca%2B4MaGej22Ktj6x6298W03fVAA%3D&continue
	=https%3A%2F%2Fdrive.google.com%2F%3Futm_source%3Den%26utm_mediu
	m%3Dbutton%26utm_campaign%3Dweb%26utm_content%3Dgotodrive%26usp
	%3Dgtd%26ltmpl%3Ddrive%26pli%3D1%26auth%3DtgNKKFO0nH-MqdYH-
4_	HVDypHWSuD5SRRonGObRv2QwuhRh6vgOmcr8WoNPqKcqLD5KA2Deg.%26a
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Kokie failai ir kokiuose kataloguose buvo išsaugoti kompiuteryje NTUSER.DAT\Software\Microsoft\Windows\CurrentVersion\Explorer\ComDlg32\OpenSaveMRU

Asc, txt

Ar buvo naudojami prijungti tinkliniai diskai (Mapped Network Drives)

Software\Microsoft\Windows\CurrentVersion\Explorer\Map Network Drive MRU

Ne

Kokia programine įranga duomenų sinchronizavimui vartotojas naudojosi paskutinio prisijungimo metu?

SkyDrive, GoogleDrive

Kokie yra vartotojo prisijungimo vardai ir slaptažodžiai (login/password) ir su kokia programine įranga naudojami?

Vartotojas	Slaptažodis	Naudoja	Pasta
		ma	bos
		program inė	
		įranga	
ALarvelis@gmail	1/eFg5BbQAfdEK1npd8awAjK56OPU	Thunder	
.com	chveNYnZ016CFY	Bird	

Kokias el. pašto susirašinėjimo programines įrangas A. K. naudojo?

Programinė įranga	El. pašto dėžutė (tikslus kelias iki el. pašto dėžutės diske)	Antraštės (svarbių el. laiškų antraštės)	Tarp kokių subjektų susirašinėjimas buvo vykdomas)
Mozilla Thunderbir d	C:\Program Files (x86)\Mozill a Thunderbird	Derybos	alarvelis@gmail.com ir skaitmeninis.legionas@gmail.co m
Mozilla Thunderbir d	C:\Program Files (x86)\Mozill a Thunderbird	drobox decryptor	<u>alarvelis@gmail.com</u> ir linas@bruzas.lt
Mozilla Thunderbir d	C:\Program Files (x86)\Mozill a Thunderbird	ataskaito s	<u>alarvelis@gmail.com</u> ir karolis.steikunas@ekt.lt

Kokią programine įranga vartotojas naudojo elektroniniam dokumentams (e. parašas) apsikeisti

Vartotojas	El. paštas	Naudojama	Pastabos
		programinė įranga	(Private/Public keys)
Almantas	alarvelis@gmail.com	Enigmail	
Karvelis		_	

# Kokius svarbius (bendrai kiekvienos grupės) dokumentus radote ir naudosite grupės laboratorinio gynime?

(išvardinti pasiimtus dokumentus, kurie vėliau bus įtraukti į galutinę ataskaitą, atsakant į klausymą: "Ar tinkamai yra surinkti įkalčiai ir ar galima šį dokumentą pridėti, kaip svarbu nagrinėjant A. K. nužudymo bylą?")

Numeris	Dokumento pavadinimas	Kur rastas dokumentas (tikslus kelias iki dokumento ar registro įrašo)	Kontrolinė suma

Išvados
Išanalizavus įkalčius matoma, su kuo žmogus bendravo, kuom jis naudojosi ir kokiose svetainėse jis lankėsi.

## Darbo rezultatų vertinimas

Vertinimas (balais)	Galimas maksimalus vertinimo balas	Vertinimo objektas	Pastabos
	5	Surinkta pagrindinė	Tik bendra informacija apie
		informacija iš vartotojo registrų	vartotoją
	1	Surinkta informacija apie vartotojo veiksmų istoriją	Veiksmų istorijos informaciją
	1	Surinkta informacija apie debesų paslaugų naudojimą	Vartotojo vardai, prisijungimai, debesų programinė įranga
	3	Pateikta informacija apie surinktus įkalčius	Tinkamas dokumentų (įkalčių) sąrašas
	10		