

FORENSIC REPORT

NUIPC
100/10.1JAAVR
EXAM
01/2021

Partial Expedient Remittance
[volume 1 of 1]

AVEIRO UNIVERSITY

FORENSIC ANALYSIS OF COMPUTATIONAL SYSTEMS (AFSC)

NUIPC: 100/10.1JAAVR

EXAM: 1/2021

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JOB SHEET**EXECUTION**

DATE October 3, 2020
LOCAL Aveiro
EXAMINER(S) AV

EQUIPMENT #01

TYPE	Laptop	MODEL	Dv6-1250sp
BRAND	HP	DISK #	1 (one)
SERIAL	CNF931429X	FOTOGRAFADO	Yes
CONDITION	Good		
IDENTIFICATON	PRT#01		
OBSERVATIONS			

SUPORTE #01

TYPE	Hard Drive, 2.5"	MODELO	WD5000BEVT
BRAND	Western Digital	INTERFACE	SATA
SERIAL	WX30A6981080		
CAPACITY	500GB		
INTERVENTION	Forensic Copy		
SECURITY VERIFICATION	No		
CONDITION	Good	PHOTOGRAPHED	Yes
IDENTIFICATON	PRT#01_HDD01		
OBSERVATIONS			

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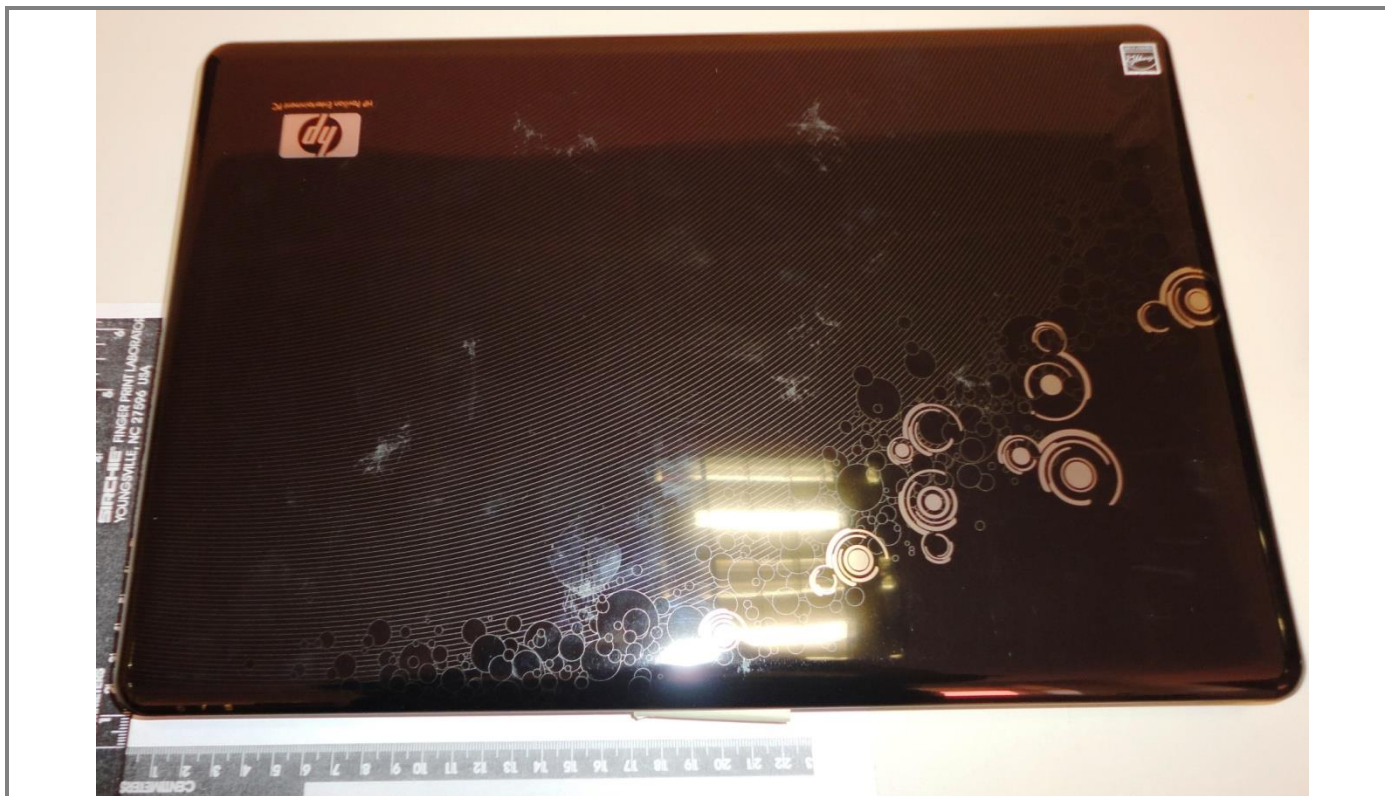
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EQUIPMENT EXAMINED

PHOTOGRAPHY Nrº
IDENTIFICATON
TYPE
VIEW

01
PRT#01
Laptop
Top



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PHOTOGRAPHY Nrº
IDENTIFICATON
TYPE
VIEW

02
PRT#01
Laptop
Top



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PHOTOGRAPHY Nºº
IDENTIFICATON
TYPE
VIEW

03
PRT#01
Laptop
Back



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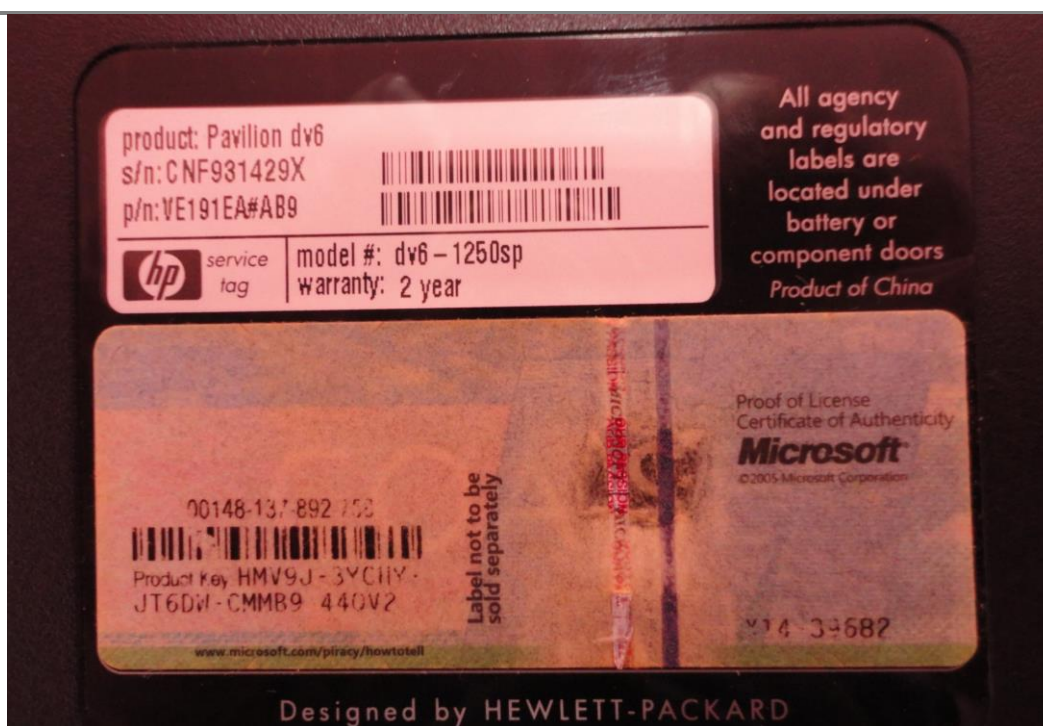
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PHOTOGRAPHY Nrº
IDENTIFICATON
TYPE
VIEW

04
PRT#01
Laptop
Back



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PHOTOGRAPHY N.º
IDENTIFICATION
TYPE
VIEW

04
PRT#01_HDD01
Hard Drive
Top



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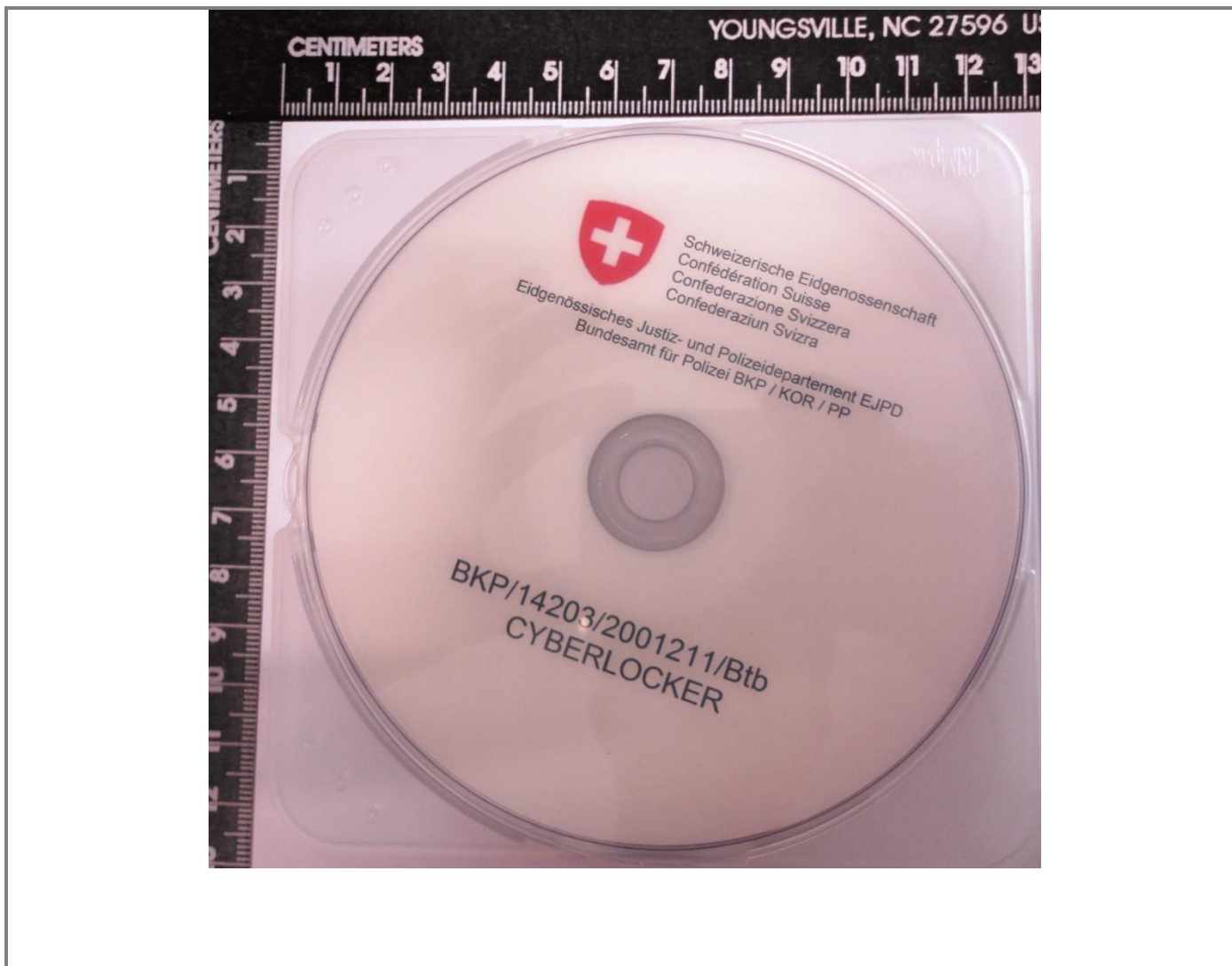
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PHOTOGRAPHY Nº°
IDENTIFICATON
TYPE
VIEW

05
DVD#01
Optical Disk
Top



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FORENSIC COPY**IDENTIFICATION
TYPE**HDD01
Hard Drive

Created By AccessData® FTK® Imager 3.1.4.6

Case Information:

Acquired using: ADI3.1.4.6

Case Number: 768_13.4JDLSB

Evidence Number: PRT#01_HDD01

Unique description: PRT#01_HDD01

Examiner: PM

Notes: HDD S/N WX30A6981080

Information for J:\768_13.4JDLSB\PRT#01\PRT#01_HDD01:

Physical Evidentiary Item (Source) Information:

[Device Info]

Source Type: Physical

[Drive Geometry]

Cylinders: 60.801

Tracks per Cylinder: 255

Sectors per Track: 63

Bytes per Sector: 512

Sector Count: 976.773.168

[Physical Drive Information]

Drive Model: WDC WD5000BEVT-60ZAT1 ATA Device

Drive Serial Number: WD-WX30A6981080

Drive Interface Type: IDE

Removable drive: False

Source data size: 476940 MB

Sector count: 976773168

[Computed Hashes]

MD5 checksum: abbc4acfa3d734a5bf2153bb772855

SHA1 checksum: 2dd8cf63d56f07d70465a795b191e604b127452f

Image Information:

Acquisition started: Fri Oct 03 15:17:27 2020

Acquisition finished: Fri Oct 03 18:32:33 2020

Segment list:

J:\768_13.4JDLSB\PRT#01\PRT#01_HDD01.E01

J:\768_13.4JDLSB\PRT#01\PRT#01_HDD01.E02

J:\768_13.4JDLSB\PRT#01\PRT#01_HDD01.E03

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J:\768_13.4JDLSB\PRT#01\PRT#01_HDD01.E04
J:\768_13.4JDLSB\PRT#01\PRT#01_HDD01.E05
J:\768_13.4JDLSB\PRT#01\PRT#01_HDD01.E06
J:\768_13.4JDLSB\PRT#01\PRT#01_HDD01.E07
J:\768_13.4JDLSB\PRT#01\PRT#01_HDD01.E08
J:\768_13.4JDLSB\PRT#01\PRT#01_HDD01.E09
J:\768_13.4JDLSB\PRT#01\PRT#01_HDD01.E10

Image Verification Results:

Verification started: Fri Oct 03 18:32:46 2020

Verification finished: Fri Oct 03 20:34:09 2020

MD5 checksum: abbc4acfa3d734a5bf2153bb772855 : verified

SHA1 checksum: 2dd8cf63d56f07d70465a795b191e604b127452f : verified

FORENSIC REPORT

DATE	17 November, 2020
LOCAL	Aveiro
EXAMINER(S)	AV

EQUIPMENT EXAMINED1 (one) optical disk, labelled as “BKP/14203/20012111/Btb
CYBERLOCKER”1 (one) hard drive, serial “WX30A6981080”
500GB**CAPACITY****IDENTIFICATION**

DVD#01 e PRT#01_HDD01

DIGITAL SUM (HASH VALUE)

PRT#01_HDD01 MD5: abbc4acfa3d734a5bf2153bb772855

INSTALLED OPERATING SYSTEM

Yes, Windows Vista Home Premium

LAST SHUTDOWN DATE AND TIME

03/06/2014 07:37:16

ATTACHMENTS

1 (one) Forensic Report (DVD 01), FLS. XX

1 (one) Technical Glossary, PAGES YY to ZZ

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INTRODUCTION AND PROCEDURES

-----The forensic copy of the hard disk, serial number "**WX30A6981080**", identified as "**PRT#01_HDD01**", was carried out, and the respective copy report was prepared. With regard to the content of the optical disk, identified as "**DVD#01**", its contents were extracted, namely from the file with the designation "**0575-2013.zip**" which is protected, using the password provided by the main inspector of the investigation, for its opening and analysis the content of the **16 (sixteen) existing video files**, from which frames and technical data were extracted, as shown in pages 39 to 49 above.-----

DEVELOPMENT/RESULTS

----- After analysing the forensic copy, using forensic applications in use by this laboratory, in accordance with the indicated requirements and given the time limitation for carrying out the expertise, it was possible to verify the following: -----

-----The hard disk identified as "**PRT#01_HDD01**" is configured with two logical volumes, the first, with a capacity of 456.4 gigabytes, has the operating system "**Microsoft Vista Home Premium**" installed, with installation date of "**20/07/2009 02:33:22**" and last correct closing on "**03/06/2014 00:37:58**" and registered owner "**Joaquim das Iscas**". -----

----- Regarding the users configured in the operating system, described above, the local users "**Administrator**" and "**Joaquim das Iscas**" are configured, who performed the last access to the system, respectively on "**20/07/2009 03: 09:59**" and "**03/06/2014 07:37:16**", it is not necessary to authenticate in the system through a password for access.-----

----- From the analysis of the installed applications, it is verified the existence of the "**P2P**" (peer-to-peer) application called "**BitTorrent**" and which is installed in the "**Joaquim das Iscas**" user profile. -----

----- The operating system is configured with 2 (two) network devices, with dynamic IP addresses, allowing access to the internet. -----

----- It was extracted information about the programs executed in the "boot" of the operating system and after the login of the local user "**Joaquim das Iscas**". -----

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----- The operating system is not configured with the system firewall active.-----

----- Regarding antivirus applications, the operating system is configured with the “Windows Defender” and “Norton Internet Security” applications.-----

----- It was extracted the list with the USB devices registered by the operating system.-----

----- Regarding the requested questions, the following is noted: -----

----- Regarding internet access/local files, the following is verified:-----

----- Regarding “Internet Explorer” browser application history, among others, it appears that the file “**Montana Gunn stm07cav.avi**” was uploaded by the user “**Joaquim das Iscas**” on “**20-09-2013 21 :18**”, on the website “**grifthost.com**”, as well as records of access to the website “**2downloadz.com**” with the user “**alfabravo777@gmail.com**” on “**18-09-2013 00:37**”, by the user “**Joaquim das Iscas**”.-----

----- Regarding “Opera” browser application history, among others, accesses to an electronic mailbox, with the designation “**alfabravo777@gmail.com**”.-----

----- Regarding “Chrome” browser application history, among others, the mailbox with the designation “**alfabravo777@gmail.com**”, as well as access records with the designations “*uploading*” of the file with the designation “**Noeru Natsumi (GOD-031).avi**” from the websites “**pastebin.com**” and “**uploading.com**”, by the user “**Joaquim das Iscas**”.-----

----- Were also found records with the word “**account**”, to the “**skrill.com**” website, which indicates that the user “**Joaquim das Iscas**” holds credentials to access that website.-----

----- Regarding “Firefox” browser application and the “**Joaquim das Iscas**” user profile, there are accesses to email boxes with the addresses “**bravo7778888@gmail.com**”, “**zulu777777@gmail.com**”, “**charlie7778888@gmail.com**”, “**delta7778888@gmail.com**”, “**omega7778888@gmail.com**” and “**mooncat77777@gmail.com**”, as well as uploads of **24 (twenty-four) files** according to the following table , which also contains the website “**cyberlocker.ch**”:-----

URL	Title	Last Access
http://batman.superupl.com/tmp/status.html?116035242537= hv1076vid.zip =superupl.com/#	File Upload Progress	20-03-2013 16:13
http://batman.superupl.com/tmp/status.html?990749792202= hv1073vid.zip =superupl.com/#	File Upload Progress	20-03-2013 13:29
http://batman.superupl.com/tmp/status.html?132503661502= hv1073vid.zip =superupl.com/#	File Upload Progress	20-03-2013 12:45
http://www0152.cyberlocker.ch/tmp/status.html?691716441538= msk08vid.zip, msk09vid.zip, msk10vid.zip =cyberlocker.ch/#	File Upload Progress	11-02-2013 7:38
http://www0026.cyberlocker.ch/tmp/status.html?328571134938= hv1088vid.zip =cyberlocker.ch/#	File Upload Progress	10-02-2013 0:47

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URL	Title	Last Access
http://91.216.163.100/tmp/status.html?445804511767= mtg08cav.avi =www.streamvideo.me/#	File Upload Progress	07-02-2013 18:24
http://91.216.163.100/tmp/status.html?633867953472= mtg07cav.avi =www.streamvideo.me/#	File Upload Progress	07-02-2013 18:24
http://www0135.cyberlocker.ch/tmp/status.html?841017237908= hv1076vid.zip =cyberlocker.ch/#	File Upload Progress	06-02-2013 20:38
http://ww2.queenshare.com/tmp/status.html?579990908409= hv335.zip, hv341.zip, hv342.zip, hv343.zip, hv344.zip =www.queenshare.com/#	File Upload Progress	04-02-2013 18:33
http://server2.baxfile.com/tmp/status.html?510812032609= hv1006vid.zip, hv1007vid.zip, hv1008vid.zip, hv1009vid.zip, hv1010vid.zip =www.baxfile.com/#	File Upload Progress	30-01-2013 14:06
http://www0107.cyberlocker.ch/tmp/status.html?659040700971= hv1039vid.zip =cyberlocker.ch/#	File Upload Progress	26-01-2013 18:33
http://www0094.cyberlocker.ch/tmp/status.html?343328037275= hv1037vid.zip =cyberlocker.ch/#	File Upload Progress	26-01-2013 18:32
http://olive.rapidfileshare.net/tmp/status.html?102958583415= hv1070vid.zip, hv1069vid.zip =www.rapidfileshare.net/upload.html#	File Upload Progress	25-01-2013 7:46

----- The access to sites with references to **“Payment”** as well as to **“account”** by the user **“Joaquim das Iscas”** can also be seen in the internet history. -----

----- Were also found access records with the word **“account”**, to various sites, which indicates that the user **“Joaquim das Iscas”** is/was the holder of credentials to access these sites.-----

----- With regard to the files identified in the table above, they are not found on the hard disk under examination, which was analysed for their presence, considering that there are references to their location in external storage devices and that after the analysis of shortcut files it is possible to say that files were accessed on external devices, with the designation **“Iomega_HDD”** and volume serial numbers **“D0632313”** and **“78BBC9C5”**.-----

----- From the analysis of the file **“Thumbcache_1024.db”**, existing in the profile of the user **“Joaquim das Iscas”**, it appears that image or video thumbnail files were viewed by that user through the operating system explorer, files that are pornography/child abuse content, but it is not possible to determine the date on which they were viewed, as well as their location. -----

Regarding files on sexual child abuse/pornography, the following is noted:-----

----- They were found and extracted **2,121 (two thousand one hundred and twenty-one) video files**, which are located and catalogued, in the folders **“REPOSITORY”**, **“2012-2013 COLLECTION”** and in other folders under the user profile **“Joaquim das Iscas”**. -----

----- There were not found video files contained in the optical disk **“DVD#01”**.-----

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----- Were found and extracted **182,102 (one hundred and eighty-two thousand, one hundred and two) image files**, which are also located in the mentioned folders, **5,229 (five thousand two hundred and twenty-nine)** of them are referenced in the Interpol database.-----

----- Were found **37 (thirty-seven) archive files**, protected by password, and located in folders from which the image and video files were extracted. Due to the time limit for carrying out this expertise, it was not possible to determine the passwords used, however and, at random, it appears that in some of the archive files with videos can be opened with the password “**alpha**”.-----

----- Were also found **41 (forty-one) files** of different formats, which contain e-mail addresses, file lists and respective passwords, as well as internet sites that are presumed to contain sexual child abuse/pornography content.-----

Regarding file sharing applications and as already mentioned, the “**BitTorrent**” application is installed, which is configured to save downloaded files in the folder “**C:\Users\Joaquim das Iscas\Downloads**”, and found the file “**.torrent**”, which contains metadata (information) used by the “**BitTorrent**” application to download the file, which was not found on the disk under examination.-----

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CONCLUSION

----- Thus, considering the above, it is possible to state the following:-----

----- The "**Microsoft Vista Home Premium**" operating system is installed on the hard disk, configured with the local user, with the designation "**Joaquim das Iscas**", with administration privileges, this user having made the last access to the system on "**03/06 /2014 07:37:16**".-----

----- With regard to file sharing applications, the "BitTorrent" application is installed, however no evidence was found of the use of this application to download and share files.-----

----- With regard to access to mailboxes, it is verified in the internet history that there are accesses to mailboxes, with the designations "**alfabravo777@gmail.com**", "**bravo7778888@gmail.com**", "**zulu777777@gmail.com**", "**charlie7778888@gmail.com**", "**delta7778888@gmail.com**", "**omega7778888@gmail.com**" and "**mooncat777777@gmail.com**", as well as the use of the address "**alfabravo777@gmail.com**" to upload files with the names "**Montana Gunn stm07cav.avi**" and "**Noeru Natsumi (GOD-031).avi**", by the user "**Joaquim das Iscas**".-----

----- The uploading of **24 (twenty-four) files** of the type (zip) is also verified in the internet history, which also includes the website "**cyberlocker.ch**" indicated under the questions. The uploaded files are not stored on the hard disk being examined. The uploaded files are not stored on the hard disk being examined, but the records were found on external storage devices, with the designation "**Iomega_HDD**".-----

----- The access to sites with references to "**Payment**" as well as to "**account**" by the user "**Joaquim das Iscas**" can also be seen in the internet history.-----

----- From the analysis of the system file, with the designation "**Thumbcache_1024.db**", it appears that the user "**Joaquim das Iscas**", viewed the "**thumbnails**" of the images or video files, with the content of sexual child abuse/pornography, but there is no information in that file about the location of such files or the date of their viewing.-----

----- Regarding files relating to child sexual abuse/pornography, the following is noted:-----

----- Were found and extracted **182,102 (one hundred and eighty-two thousand, one hundred and two) image files**, which **5229 (five thousand two hundred and twenty-nine)** of them are referenced in the **Interpol** database, as well as **2,121 (two thousand one hundred and twenty-one) video files**, located and catalogued,

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in the folders **"REPOSITORY"**, **"2012-2013 COLLECTION"** and other folders under the user profile **"Joaquim das Iscas"**, with sexual child abuse/pornography, where minors are seen in sexual acts with adults.

----- Were found **37 (thirty-seven) archive files**, protected by password and located in folders from which the image and video files were extracted. Due to the time limit for carrying out this expertise, it was not possible to determine the passwords used, however and, at random, it appears that in some of the archive files with videos can be opened with the password **"alpha"**. -----

----- Were also found **41 (forty-one) files** of different formats, which contain e-mail addresses, file lists and respective passwords, as well as internet sites that are presumed to contain sexual child abuse/pornography content. -----

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TECHNICAL GLOSSARY**A**

ADSL	(<i>Assimetric Digital Subscriber Line</i>), asymmetric data communication technology, using telephone lines and quick access.
ASCII	(<i>American Standard Code for Information Interchange</i>), it is a character encoding designed to represent text in computer systems, each character uses 8 bits (1byte).

B

BIOS	(<i>Basic Input/Output System</i>), basic software system that allows you to boot the main hardware components as well as trigger access to installed operating systems.
BIT	Elementary unit of information that can take one of two values (0 or 1).
BLOG	It is a web publishing system designed to disseminate information in chronological order, like a diary.
BROWSER	Program used to view web pages.
BYTE	Group of 8 (eight) bits.

C

CACHE	Functionality that allows a certain resource to be accessed even if it is already available at its source, common in search engines, namely regarding accessing web pages.
CLUSTER	It is used with different meanings. It can designate a specific data structure used in a database management system or a group of machines that interact with each other in the performance of various tasks. In the context of web search, it means an aggregation of research results interconnected with each other.
CODEC	(<i>COmpression DECompression</i>), program that has the compression and decompression algorithms for a certain file format, usually Audio and Video.
COOKIES	Function usually present on web pages. In this context it is small data stored locally after accessing them and which are mainly intended to preserve various information about users and sessions performed previously, such as access preferences and appearance.
CPU	(<i>Central Processing Unit</i>) it is the fundamental component of a computer that executes instructions comprising a computer program.

D

DRIVE	Unit for writing and/or reading fixed or removable disks.
DRIVER	Set of routines that allow the operating system to access a peripheral (<i>Hardware</i>).
DLL	(<i>Dynamic Link Library</i>) Files that have routines and functions that can be used by programs. The use of DLLs is intended to facilitate the work of programmers who can use functions, previously implemented and already existing in other DLLs, instead of creating them from scratch.

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DNS

(*Domain Name System*) Service responsible for converting URLs into IP addresses, namely the servers that have the resources to be accessed, thus allowing, for example, that it is humanly possible to memorize the addresses of various web pages.

DHCP

(*Dynamic Host Configuration Protocol*) Protocol that allows you to define that certain equipment can automatically receive your network configuration from a server responsible for providing that same service.

E

EXPLOIT

Program that allows you to exploit vulnerabilities in a system.

EXTENSION

On Windows systems, it is a prefix consisting of a “.” (period) followed by 3 letters that identify a certain type of file, so that it can be executed by a compatible program. The main file extensions and their categories are:

- Images (.bmp, .gif, .jpg, .jpeg, .png, etc)
- Documents (.doc, .docx, .pdf, .rtf, .txt, etc)
- Áudio (mp3, .wav, .wma, etc)
- Vídeo (.avi, .mov, .mpeg, .wmv, etc)
- Programs (.exe).

F

FILE SYSTEM

It is a set of logical structures and routines that allow the operating system to control access to storage units, usually hard disks. Different operating systems use different file systems. The main file systems are: FAT and NTFS (Windows), EXT (Linux) and HFS (Mac OS).

FIREWALL

Program or component designed to protect a computer network against intrusion or unauthorized access.

FIRMWARE

A set of essential instructions for the operation of a device, which are usually stored in ROM memory chips, flash or even in the device itself.

FRAMEWORK

This term is used to designate an application or set of applications that support software development in a given context.

FTP

(*File Transfer Protocol*) It is a protocol used to transfer files over TCP/IP networks.

H

HARDWARE

Physical components of an information system, the same ones programmed to perform automatic information processing.

I

IP

At the level of protocol (*Internet Protocol*) it is intended to route network packets (routing). In terms of address (*Internet Protocol Address*), it is a numerical identification, in a computer network. The representation differs from its version (v4 or v6).

ISP

(*Internet Service Provider*) commonly known as Internet access provider or operator, this is the entity that, upon subscription, provides this service.

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L

LINK Used in various contexts, it is a pointer, hypertext link, reference, for example, to and from a web page.

M

MALWARE (*Malicious Software*) known as malicious software or code, it refers generically to programs that have routines and commands, created with the intention of generating some damage or impact on computer systems.

META-DATA It is commonly referred to as data's data. As an example of meta-data, we can refer to the creation date of a file.

O

OPERATING SYSTEM It is system software that manages computer hardware, software resources, and provides common services for computer programs.

OPTICAL DISK Intended for data storage at a low cost, instead of other disks, such as magnetic ones, its operation is characterized by using the properties of light. The main optical disks are: CD, DVD, Blu-ray, etc.

P

PHISHING It commonly refers to a computer attack aimed at stealing a person's authentication data, mostly bank details. It is common to be done through emails that are sent on behalf of a service, for example an online banking service, where the insertion of authentication data is requested.

S

SCRIPT Computer program normally intended to add functions to other languages and/or existing applications, especially when there is a need for a higher level of automation and repeated tasks.

SOFTWARE Also known as a computer program, it is a set of instructions that can be interpreted by a specific computer component.

SOURCE CODE File that contains the commands and routines that make up a program.

STEGANOGRAPHY Art or science of writing in such a way as to hide certain sensitive information.

T

TCP/IP (*Transmission Control Protocol/Internet Protocol*) suite of protocols that allow communication between different computers and operating systems on the same network.

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U

UNALLOCATED SPACE

Physical segment of the disk, properly identified, which is not allocated to any file in the file system

UNICODE

Evolution of ASCII, this is a character encoding designed to represent text in computer systems. For each character or symbol it uses 16 bits (2 bytes) or more, defining a much higher number of characters compared to ASCII.

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SUPPORT SHEET**SUPPORT IDENTIFICATION****TYPE****SECURITY SEAL NBR°****SIGNED**

CD-R #01

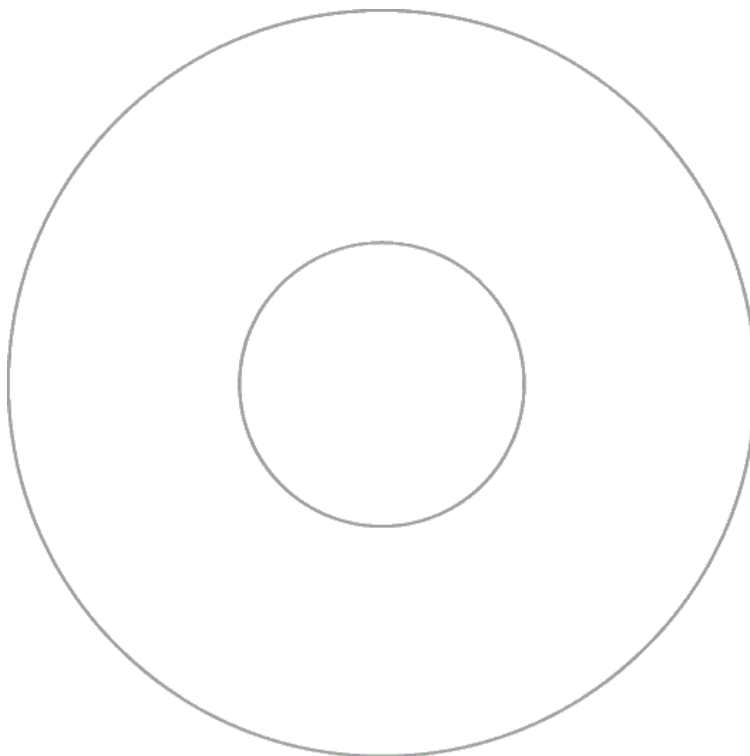
Forensic Examination

A000000

YES

INSTRUCTIONS

The access to the electronic report, stored in this optical support CD-R #01 (CD), is performed automatically when inserting it into a reader device. If this does not happen, in the root directory (Ex: F:\) there is a file named “default.html”, which should be opened for the same purpose, this being the main file of this report.



AVEIRO UNIVERSITY

FORENSIC ANALYSIS OF COMPUTATIONAL SYSTEMS (AFSC)

NUIPC: 100/10.1JAAVR

EXAM: 1/2021

CONCLUSION STATEMENT

Mr. Head of the AFSC in the Aveiro University,

In the scope of the above investigation, a Forensic Examination of the computer equipment was carried out, as requested at the beginning of this NUIPC and as described in the forensic examination records above. Thus, I submit this file to Your Excellency's consideration, so that you can determine what is convenient.

=CONCLUSION=

Aveiro, DAY MONTH, YEAR

The Expert

The Reviewer

(XXXXXXXX)

(XXXXXXXX)