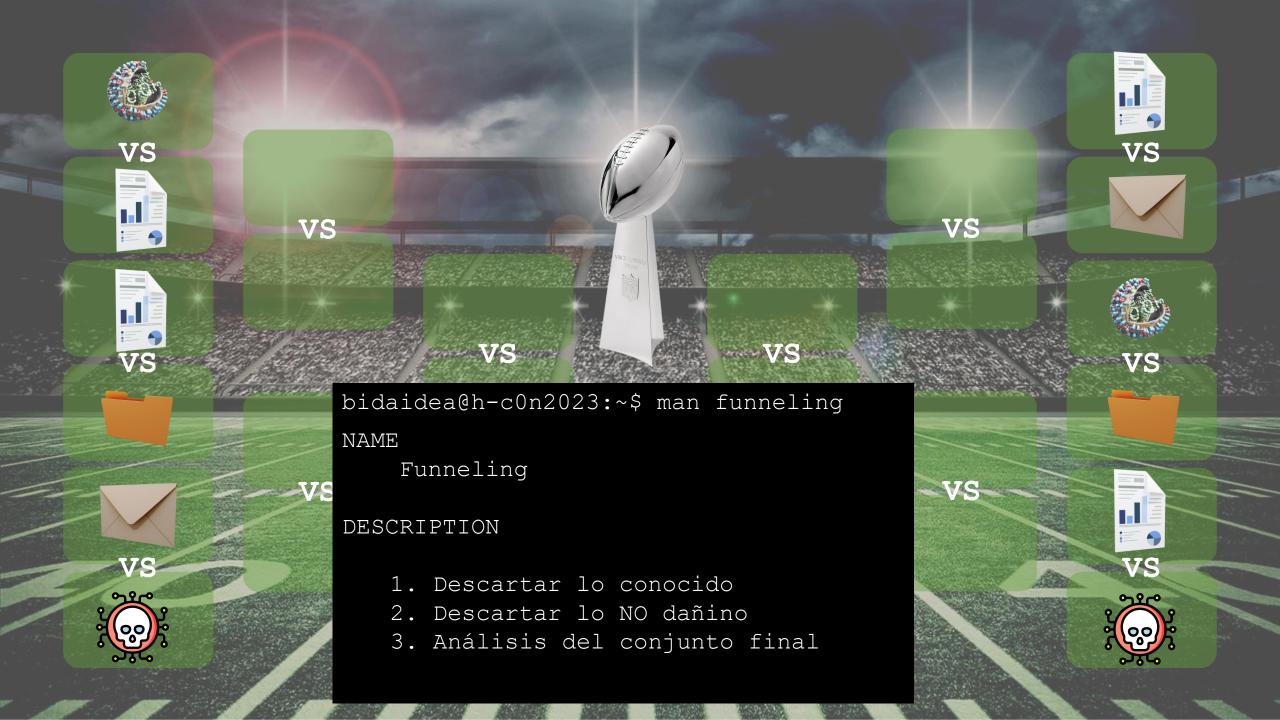


bidaidea@h-c0n2023:~\$ sudo adduser rafa --ingroup bidaidea Adding user `rafa` Adding new user `rafa` (1001) with group `bidaidea` Enter the new value, or press ENTER for the default Full Name []: Rafael Tenorio Rol []: DFIR & CTI Service Manager @ Bidaidea Email []: rafael.tenorio@bidaidea.com Other []: GCTI/GCFA/GCFE/GASF/CISM en más de 10 años en estas batallas, involucrado en incidentes internacionales, analizando APTs, liderando equipos de ciberinteligencia y construyendo CSIRT/CERT en operaciones, todo con familia y aficiones. bidaidea@h-c0n2023:~\$ sudo adduser luise --ingroup bidaidea Adding user `luise` Adding new user `luise` (1002) with group `bidaidea` Enter the new value, or press ENTER for the default Full Name []: Luis Enrique Sainz Rol []: Cybersecurity Principal analyst @ Bidaidea Email []: luis.sainz@bidaidea.com Other []: cerca 20 años de experiencia en el desarrollo y de admin, siendo reservista voluntario en el MCCE y radioaficionado.

bidaidea@h-c0n2023:~\$ whoami rafa/luise









bidaidea@h-c0n2023:~\$ sudo ewfacquire -u -c "fast" -S "10GiB" -C "Playoff" -D
"Dirty" -e "HeadCoach" -l /data/dirty/ewfacquire.log -t "/data/dirty/dirty"
/dev/nvme0n1p3



```
caine@caine: ~
File Edit View Search Terminal Help
/dev/nvme0n1p3 239616 166729555 166489940 79,4G Microsoft basic data
Disk /dev/sda: 200 GiB, 214748364800 bytes, 419430400 sectors
Disk model: VMware Virtual S
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: gpt
Disk identifier: FBB2473F-C013-334A-8220-028499F90D5D
                    End Sectors Size Type
         Start
caine@caine:~$ sudo mount /dev/sda1 /mnt/
caine@caine:~$ sudo umount /mnt
caine@caine:~$ sudo mount /dev/sdal /media/sda
ntfs-3g-mount: failed to access mountpoint /media/sda: No such file or directory
caine@caine:~$ sudo mount /dev/sda1 /mnt/
caine@caine:~$ ls /mnt/
caine@caine:~$ sudo ewfacquire -u -c "fast" -S "10GiB" -C "Playoff" -D "Dirty"
e "HeadCoach" -l /mnt/dirty/log.txt -t "/mnt/dirty/dirty" /dev/nvme0n1p3
```

```
bidaidea@h-c0n2023:~$ sudo ewfmount /data/dirty/dirty.E01 /mnt/ewf_dirty
bidaidea@h-c0n2023:~$ sudo mount -t ntfs3 -o ro,loop /mnt/ewf_dirty/ewf1
/mnt/windows02
bidaidea@h-c0n2023:~$ macrobber-ng -5 /mnt/windows02 > /data/dirty/dirty.body
```

Body file!!!!

MD5/Path/inodo/filetype+Permissions+linkfile/uid/gid/size/AMCB Time



System Information

Operating System Version

Description

This determines the operating system type, version, build number and installation dates for current installation and previous updates.

Location

- SOFTWARE\Microsoft\Windows NT\CurrentVersion
- SYSTEM\Setup\Source 05

Interpretation

CurrentVersion key stores:

- ProductName, EditionID OS type
- DisplayVersion, Releaseld, CurrentBuildNumber Version info
- InstallTime Installation time of current build (not original installation) Source OS keys are created for each historical OS update:
- ProductName, EditionID OS type
- · BuildBranch, Releaseld, CurrentBuildNumber Version info
- InstallTime Installation time of this build version
- Times present in names of Source OS keys are extraneous: InstallTime = 64-bit FILETIME format (Win10+) InstallDate = Unix 32-bit epoch format (both times should be equivalent)

Computer Name

Description

This stores the hostname of the system in the ComputerName value.

Location

SYSTEM\CurrentControlSet\Control\ComputerName\ComputerName

Interpretation

Hostname can facilitate correlation of log data and other artifacts.

System Boot & A

Description

System Boot and Autostart Programs on system boot or at user login.

Location

- NTUSER_DAT\Software\Microsoft\Windows\CurrentVers\
- NTUSER.DAT\Software\Microsoft\Windows\CurrentVersion.
- SOFTWARE\Microsoft\Windows\CurrentVersion\RunOnce
- SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\Explox
- SOFTWARE\Microsoft\Windows\CurrentVersion\Run
- SYSTEM\CurrentControlSet\Services If Start value is set to 0x02, then service applicats (0x00 for drivers)

Interpretation

- Useful to find malware and to audit installed software
- · This is not an exhaustive list of autorun locations

Description

It is the last time the system was shutdown. On Windows XP, the of shutdowns is also recorded.

Location

- SYSTEM\CurrentControlSet\Control\Windows (Shutdown Time)
- SYSTEM\CurrentControlSet\Control\Watchdog\Display (Shutdown Count - WinXP only)

Interpretation

- · Determining last shutdown time can help to detect user behavior and system anomalies
- Windows 64-bit FILETIME format

FORENSICS 🔓 INCIDENT RESPONSE

System Last Shutdown To Orensic Ana

You Can't Protect the

sics.sans.org

bidaidea@h-c0n2023:~\$ rip.pl -r /mnt/dirty/Windows/System32/config/SOFTWARE -p winver

jedi@eadu:/media/jedi/76FF193F32F8C57A/dirty\$ rip.pl -r /mnt/dirty/Windows/System32/config/S0FTWARE -p winver Launching winver v.20200525

winver v.20200525

(Software) Get Windows version & build info

ProductName Windows 10 Home

ReleaseID 2009

BuildLab 19041.vb release.191206-1406

BuildLabEx 19041.1.amd64fre.vb release.191206-1406

CompositionEditionID Core

RegisteredOrganization

RegisteredOwner Jedi

InstallDate 2021-05-18 14:28:41Z InstallTime 2021-05-18 14:28:41Z

bidaidea@h-c0n2023:~\$ rip.pl -r /mnt/dirty/Windows/System32/config/SYSTEM -p shutdown

jedi@eadu:/media/jedi/76FF193F32F8C57A/dirty\$ rip.pl -r /mnt/dirty/Windows/System32/config/SYSTEM -p shutdown

Launching shutdown v.20200518

shutdown v.20200518

(System) Gets ShutdownTime value from System hive

ControlSet001\Control\Windows key, ShutdownTime value

LastWrite time: 2023-02-07 19:13:45Z ShutdownTime : 2023-02-07 19:13:45Z

```
-rwxrwxrwx 2 root root 18118 feb 7 19:45 DESKTOP-T651MS2-20230207-1945.log
-rwxrwxrwx 1 root root 154320 feb 7 19:49 MpCmdRun.log
-rwxrwxrwx 2 root root 1202 feb 7 19:49 MpCopyAccelerator.log
-rwxrwxrwx 2 root root 407734 feb 7 19:49 MpSigStub.log
drwxrwxrwx 1 root root 0 ott 22 2021 ***DEGREERING**
-rwxrwxrwx 1 root root 311692 ott 22 2021 msedge_installer.log
-rwxrwxrwx 1 root root 196608 ott 22 2021 TS_273E.tmp
-rwxrwxrwx 2 root root 1093632 set 9 2021 UpdHealthTools.msi
drwxrwxrwx 2 root root 1093632 set 9 2021 UpdHealthTools.msi
drwxrwxrwx 2 root root 78454 feb 7 19:50 vmware-vmsvc-SYSTEM.log
-rwxrwxrwx 2 root root 1987 feb 7 19:42 vmware-vmtoolsd-Jedi.log
-rwxrwxrwx 2 root root 1690 feb 7 19:42 vmware-vmtoolsd-SYSTEM.log
-rwxrwxrwx 2 root root 37997 feb 7 19:50 vmware-vmusr-Jedi.log
-rwxrwxrwx 2 root root 37997 feb 7 19:50 vmware-vmusr-Jedi.log
-rwxrwxrwx 2 root root 37997 feb 7 19:30 vmware-vmusr-Jedi.log
-rwxrwxrwx 2 root root 37997 feb 7 19:30 vmware-vmusr-Jedi.log
-rwxrwxrwx 1 root root 0 ott 22 2021 ***Tryx**
-rwxrwxrwx 1 root root 0 ott 22 2021 ***Tryx**
-rwxrwxrwx 1 root root 0 ott 22 2021 ***Tryx**
-rwxrwxrwx 1 root root 0 ott 22 2021 ***Tryx**
-rwxrwxrwx 1 root root 0 ott 22 2021 ***Tryx**
-rwxrwxrwx 1 root root 0 ott 22 2021 ***Tryx**
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-rwxrwxrwx 1 root root 0 ott 22 2021 ***Tryx**
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-rwxrwxrwx 1 root root 0 ott 22 2021 ***Tryx**
-rwxrwxrwx 1 root root 0 ott 22 2021 ***Tryx**
-rwxrwxrwx 1 root root 0 ott 22 2021 ***Tryx**
-rwxrwxrwx 2 root root 1344 feb 7 19:38 ***Tryx**
-rwxrwxrwx 2 root root 1344 feb 7 19:38 ***Tryx**
-rwxrwxrwx 2 root root 1344 feb 7 19:38 ***Tryx**
-rwxrwxrwx 2 root root 1344 feb 7 19:38 ***Tryx**
-rwxrwxrwx 2 root root 1344 feb 7 19:38 ***Tryx**
-rwxrwxrwx 2 root root 1344 feb 7 19:38 ***Tryx**
-rwxr
```

bidaidea@h-c0n2023:~\$ sudo ewfmount /data/clean/clean.E01 /mnt/ewf_clean bidaidea@h-c0n2023:~\$ sudo mount -t ntfs3 -o ro /mnt/ewf_clean /mnt/windows02 bidaidea@h-c0n2023:~\$ macrobber-ng -5 /mnt/windows01 > /data/clean/clean.body

```
jedi@eadu:/media/jedi/76FF193F32F8C57A/clean$ macrobber-ng -5 /mnt/windows01 > clean.body
jedi@eadu:/media/jedi/76FF193F32F8C57A/clean$ ls -lh
total 18G
-rwxrwxrwx 1 jedi jedi 116M Feb  8 14:56 clean.body
-rwxrwxrwx 1 jedi jedi 10G Feb  7 20:58 clean.E01
-rwxrwxrwx 1 jedi jedi 7,5G Feb  7 21:11 clean.E02
-rwxrwxrwx 1 jedi jedi 65 Feb  7 21:11 log.txt
```

jedi@eadu:/media/jedi/76FF193F32F8C57A/wildcard\$ wc -l md5_not_clean.txt
2924 md5_not_clean.txt
jedi@eadu:/media/jedi/76FF193F32F8C57A/wildcard\$



Touchdown!!!!

```
def body_parse(file, absolute_path, limit=10):
    """ This function returns a list of dicts with each file in the body file """
    files_object={}
    with open(file) as f:
        lines=0
        for line in f:
            fields=line[0:len(line)-1].split('|') #To remove the New Line
            if fields[0]=='' or fields[0]==None or fields[0]=='0': # Remove empty lines and directories
                continue
            last_bar_pos=fields[1].rfind('/')+1
            filename=None
            extension=None
            if (last_bar_pos!=-1):
                filename=fields[1][last_bar_pos:]
                last_dot_pos=filename.rfind('.')+1
                extension=filename[last_dot_pos:]
                path=fields[1][len(absolute path):last bar pos]
            else:
                path=fields[1][len(absolute_path):]
            file_obj={
                'md5': fields[0],
                'filename':filename,
                'extension':extension,
                'path': path,
                'size': int(fields[6]),
                'atime': float(fields[7]),
                'mtime': float(fields[8]),
                'ctime': float(fields[9]),
                'crtime': float(fields[10]),
            files_object[file_obj['md5']]=file_obj
            if limit!=None and lines>limit:
                break
            lines=lines+1
    f.close()
    return files_object
```

```
def md5_list(file_list):
    md5_=set()
    i=0
    for file in file_list:
        md5_.add(file_list[file]['md5'])
        i=i+1
    return md5_
```

```
def list_compare(a, b):
    r=set()
    for e in a:
        if e not in b:
            r.add(e)
    return r
```

```
In [1]: ► import time
            from utilities import list compare, md5 list, body parse
In [2]: ▶ # Cargamos la lista de ficheros de la imagen limpia
            t1=time.time()
            files clean=body parse('../Data/clean/clean.body', '/mnt/windows01', None)
            md5_list_clean=md5_list(files_clean)
            t2=time.time()-t1
            print(("Cargados "+str(len(md5 list clean))+" ficheros en {:02.2f} segundos").format(t2))
            Cargados 214740 ficheros en 0.93 segundos
In [3]: ▶ # Cargamos la lista de ficheros de la imagen sucia
            t1=time.time()
            files_dirty=body_parse('.../Data/dirty/dirty.body', '/mnt/windows02', None)
            md5_list_dirty=md5_list(files_dirty)
            t2=time.time()-t1
            print(("Cargados "+str(len(md5_list_dirty))+" ficheros en {:02.2f} segundos").format(t2))
            Cargados 215825 ficheros en 0.90 segundos
In [4]: ▶ # Comparamos los sets
            files difference=list_compare(md5_list_dirty, md5_list_clean)
            print("Hay " + str(len(files difference)) + " ficheros diferentes")
            Hay 2924 ficheros diferentes
```



```
bidaidea@h-c0n2023:~$ cd /divisional
bidaidea@h-c0n2023:/divisional$ grep -f md5 not clean.txt dirty.body > divisional.body
bidaidea@h-c0n2023:/divisional$ egrep
"\.exe\||\.dll\||\.msi\||\.vbs\||\.vbe\||\.bat\||\.ps1\|" divisional.body >
conference.body
  jedi@eadu:/data/divisional$ egrep "\.exe\||\.dll\||\.msi\|\.vbs\||\.vbe\||\.bat\||\.ps1\|" divisional.body > conference.body
  jedi@eadu:/data/divisional$ wc -l conference.body
  602 conference.body
         8ceclaf925f69f30a17f772b14662bca|/mnt/windows02/Program Files (x86)/Microsoft/Edge/Application/109.0.1518.78/mip protection sdk.dll|3
         3cfa034laa269dd878le66614d94d9d5|/mnt/windows02/Program Files (x86)/Microsoft/Edge/Application/109.0.1518.78/augloop client.dll|39927
         12f546eb0fd220609e2d4747e48aaccc|/mnt/windows02/Program Files (x86)/Microsoft/Edge/Application/109.0.1518.78/BH0/ie to edge bho.dll|3
         cade8c94b6f83d98c949e2a8e078243d|/mnt/windows02/Program Files (x86)/Microsoft/Edge/Application/109.0.1518.78/BH0/ie to edge bho 64.dl
         70e19e4a1b095398fb044cdb0a8a8150|/mnt/windows02/Program Files (x86)/Microsoft/Edge/Application/109.0.1518.78/BH0/ie to edge stub.exe
         -/008ad741e745236b2cc546999966726c|/mnt/windows02/Users/Jedi/AppData/Local/Microsoft/Teams/current/api-ms-win-core-sysinfo-l1-1-0.dll|125933
         dlf06lc3ceb4f6af1lf5e3c174507573|/mnt/windows02/Users/Jedi/AppData/Local/Microsoft/Teams/current/api-ms-win-core-timezone-ll-1-0.dll|125106|
         fd1ffb1bcf3315dade9842baa522e2ed|/mnt/windows02/Users/Jedi/AppData/Local/Microsoft/Teams/current/api-ms-win-core-util-l1-1-0.dll|125897|-rwx
         a226a2c9dba8ba379bc46f0ecd270669|/mnt/windows02/Users/Jedi/AppData/Local/Microsoft/Teams/current/api-ms-win-crt-conio-l1-1-0.dll|125949|-rwx
bidaidea@h-c0n2023:/divisional$ egrep -v
"\/Program Files \(x86\)\/Microsoft\/Edge\\/Users\/.*\/AppData\/Local\/Microsoft\/Teams"
conference.body > conference Extratime.body
                                                                                  Users\/.*\/AppData\/Local\/Microsoft\/Teams"
            edi@eadu:/data/divisional$ egrep -v "\/Program Files \(x86\)\/Mi
            conference.body > conference Extratime.body
            iedi@eadu:/data/divisional$ wc -l conference Extratime.body
            13 conference Extratime.body
```

Touchdown!!!!

```
In [5]: M print("Filtramos por extensión...")
    interesting_extensions={'exe', 'dll', 'msi', 'bat', 'ps1', 'vbs', 'vbe'}
    cleanup_set=set()
    for file_md5 in files_difference:
        extension=files_dirty[file_md5]['extension'].lower()
        if (extension not in interesting_extensions):
            cleanup_set.add(file_md5)
    print("\tQuitando "+str(len(cleanup_set))+" elementos")
    for e in cleanup_set:
        files_difference.remove(e)
Filtramos por extensión...
```

Quitando 2570 elementos

```
/Users/Jedi/AppData/Local/Microsoft/Teams/current/
                                                                                                         /Users/Jedi/AppData/Local/Microsoft/Teams/current/resources/app.asar.unpacked/node_modules/slimc /Program Files (x86)/Microsoft/EdgeUpdate/1.3.171.39/
                                                                                                                                                                                                                 /Program Files (x86)/Microsoft/EdgeWebView/Application/109.0.1518.78/
/Program Files (x86)/Microsoft/EdgeUpdate/1.3.171.39/
/Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x64/fr-CA/
/Users/Jedi/Documents/KeyCheck v1.0.3.6_RU_EN_ES_VI_LV/data/
                                                                                                         /Program Files (x86)/Microsoft/EdgeWebView/Application/109.0.1518.78/ /Program Files (x86)/Microsoft/EdgeWebView/Application/109.0.1518.78/
/Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x86/fr-FR/
/Program Files (x86)/Microsoft/EdgeWebView/Application/109.0.1518.78/
/Users/Jedi/AppData/Local/Microsoft/Teams/current/
                                                                                                         /Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x86/fi-FI/
                                                                                                                                                                                                                  /Users/Jedi/AppData/Local/Microsoft/Teams/current/
/Program Files (x86)/Microsoft/EdgeUpdate/1.3.171.39/
/Program Files (x86)/Microsoft/EdgeUpdate/1.3.171.39/
                                                                                                         /Users/Jedi/AppData/Local/Microsoft/Teams/current/
                                                                                                                                                                                                                  /Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x64/hu-HU/
                                                                                                         /Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x86/runtimes/win-x86/native/
                                                                                                                                                                                                                  /Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x64/zh-CN/
/Users/Jedi/AppData/Local/Microsoft/Teams/current/
                                                                                                         /Users/Jedi/Documents/KeyCheck v1.0.3.6_RU_EN_ES_VI_LV/data/
                                                                                                                                                                                                                  /Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x64/ar-SA/
/Users/Jedi/AppData/Local/Microsoft/Teams/current/
                                                                                                         /Program Files (x86)/Microsoft/EdgeUpdate/1.3.171.39/
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                                                                                                                                                                                                                  /Users/Jedi/AppData/Local/Microsoft/Teams/current/
/Users/Jedi/AppData/Local/Microsoft/Teams/current/resources/app.asar.unpacked/node_modules/slimc /Users/Jedi/AppData/Local/Microsoft/Teams/current/
                                                                                                                                                                                                                  /Users/Jedi/AppData/Local/Microsoft/Teams/current/
ore/bin/
                                                                                                         /Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x64/nb-NO/
/Users/Jedi/Documents/KeyCheck v1.0.3.6_RU_EN_ES_VI_LV/
                                                                                                         /Users/Jedi/AppData/Local/Microsoft/Teams/current/
                                                                                                                                                                                                                  /Users/Jedi/AppData/Local/Microsoft/Teams/current/
/Program Files (x86)/Microsoft/EdgeUpdate/1.3.171.39/
/Program Files (x86)/Microsoft/EdgeWebView/Application/109.0.1518.78/
                                                                                                         /Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x64/zh-TW/
                                                                                                                                                                                                                  /Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x86/
                                                                                                         /Program Files (x86)/Microsoft/EdgeWebView/Application/109.0.1518.78/
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                                                                                                         /Program Files (x86)/Microsoft/EdgeUpdate/1.3.171.39/
/Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x64/cy-GB/
                                                                                                                                                                                                                  /Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x64/
/Program Files (x86)/Microsoft/EdgeWebView/Application/109.0.1518.78/
/Program Files (x86)/Microsoft/EdgeWebView/Application/109.0.1518.78/
/Program Files (x86)/Microsoft/EdgeUpdate/1.3.171.39/
/Users/Jedi/AppData/Local/Microsoft/Teams/MeetingAddin/1.0.22272.2/x86/fr-CA/
                                                                                                         /Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x64/hr-HR/
                                                                                                                                                                                                                  /Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x86/is-IS/
                                                                                                         /Users/Jedi/AppData/Local/Microsoft/Teams/current/
                                                                                                                                                                                                                  /Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x64/sl-SI/
                                                                                                         /Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x86/
                                                                                                                                                                                                                  /Users/Jedi/AppData/Local/Microsoft/Teams/current/
                                                                                                         /Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x86/lt-LT/
                                                                                                                                                                                                                  /Program Files (x86)/Microsoft/EdgeUpdate/1.3.171.39/
/Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x86/en-GB/
                                                                                                                                                                                                                  /Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x86/
                                                                                                         /Program Files (x86)/Microsoft/EdgeWebView/Application/109.0.1518.78/
/Users/Jedi/AppData/Local/Microsoft/Teams/current/resources/app.asar.unpacked/node_modules/slimc /Program Files (x86)/Microsoft/EdgeUpdate/1.3.171.39/ore/bin/ /Program Files (x86)/Microsoft/EdgeWebView/Application/109.0.1518.78/
                                                                                                                                                                                                                  /Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x86/et-EE/
                                                                                                                                                                                                                  /Users/Jedi/AppData/Local/Microsoft/Teams/current/
/Users/Jedi/AppData/Local/Microsoft/Teams/current/resources/app.asar.unpacked/node_modules/slimc /Users/Jedi/AppData/Local/Microsoft/Teams/current/
                                                                                                                                                                                                                  /Users/Jedi/Documents/KeyCheck v1.0.3.6_RU_EN_ES_VI_LV/data/
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/Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x86/es-MX/
                                                                                                         /Program Files (x86)/Microsoft/EdgeUpdate/1.3.171.39/
                                                                                                                                                                                                                  /Program Files (x86)/Microsoft/EdgeUpdate/1.3.171.39/
/Program Files (x86)/Microsoft/EdgeUpdate/1.3.171.39/
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                                                                                                                                                                                                                  /Program Files (x86)/Microsoft/EdgeWebView/Application/109.0.1518.78/
/Program Files (x86)/Microsoft/EdgeWebView/Application/109.0.1518.78/
                                                                                                         /Users/Jedi/AppData/Local/Microsoft/Teams/current/resources/app.asar.unpacked/node_modules/slimc /Program Files (x86)/Microsoft/EdgeUpdate/1.3.171.39/
                                                                                                                                                                                                                  /Program Files (x86)/Microsoft/EdgeUpdate/1.3.171.39/
/Users/Jedi/Downloads/
/Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x86/it-IT/
                                                                                                         /Users/Jedi/AppData/Local/Microsoft/Teams/current/resources/app.asar.unpacked/node_modules/@micr /Users/Jedi/AppData/Local/Microsoft/Edge/User Data/Speech Recognition/1.15.0.1/
/Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x64/el-GR/
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/Program Files (x86)/Microsoft/EdgeUpdate/1.3.171.39/
                                                                                                         /Users/Jedi/AppData/Local/Microsoft/Teams/current/
                                                                                                                                                                                                                  /Users/Jedi/AppData/Local/Microsoft/TeamsMeetingAddin/1.0.22272.2/x86/cy-GB/
```

Limpiando por rutas...

Path filter: \/Program Files \(x86\)\/Microsoft\/Edge

Path filter: \/Users\/[a-zA-Z0-9]+\/AppData\/Local\/Microsoft\/Teams

Quitando 152 elementos

Quitando 190 elementos



bidaidea@h-c0n2023:~\$ cd /conference bidaidea@h-c0n2023:/conference\$ cut -d "|" -f 1 conference Extratime.body > conference hashes.txt bidaidea@h-c0n2023:~\$ cat conference hashes.txt 1f083f5a820468e5438c32419525b798 SOURCE RESULTS c1146dfa30d3bce2f4ee6f5282786e3a ALIENVAULTMD5 ALIENVAULT: 1f083f5a820468e5438c32419525b798 | PULSES: 0 | 50de124907b4e6aa5adba60f9cc22ed0 VIRUSTOTAL: 1f083f5a820468e5438c32419525b798 | SCANNED VIRUSTOTAL MD5 0ee2b50c85a110689352fccfa77b5b18 ALIENVAULT: c1146dfa30d3bce2f4ee6f5282786e3a | PULSES: 0 | ALIENVAULTMD5 50de124907b4e6aa5adba60f9cc22ed0 VIRUSTOTAL MD5 VIRUSTOTAL: c1146dfa30d3bce2f4ee6f5282786e3a | SCANNED c18b690c9f7cf921d35d97e87766b209 cb8020836e77353f5229fe43d436e386 ALIENVAULT: 50de124907b4e6aa5adba60f9cc22ed0 | PULSES: 0 | ALIENVAULTMD5 97cf870f1d1fdc83640e3c8d8ec81c66 VIRUSTOTAL MD5 VIRUSTOTAL: 50de124907b4e6aa5adba60f9cc22ed0 | SCANNEI BackDoor.Rat.391, Trojan[Exploit]/Win32.ShellCode | fdb53152230e3beafccbc2aaf2a00165 ALIENVAULT: 0ee2b50c85a110689352fccfa77b5b18 | PULSES: 0 | ALIENVAULTMD5 370b191519abcd3956a065bb89eb9445 VIRUSTOTAL: 0ee2b50c85a110689352fccfa77b5b18 | SCANNED VIRUSTOTALMD5 6a49ba414d53c304bddcbd4a501281cd ALIENVAULTMD5 ALIENVAULT: c18b690c9f7cf921d35d97e87766b209 | PULSES: 0 | cf7dc712c6b4fff1107f28f9bdac829b aeca0aa5 ThreatPinch Bulk Lookups | Perform lookups on lists of observables VIRUSTOTAL: c18b690c9f7cf921d35d97e87766b209 | SCANNED VIRUSTOTALMD5 ALIENVAULT: cb8020836e77353f5229fe43d436e386 | PULSES: 0 | ALIENVAULTMD5 Settings | Customize Lookup List | Paste list here VIRLISTOTAL MDS ■ VIDIISTOTAI · ch8020836577353f5229fa/3d/366386 | SCANNET API Limit (in seconds): f083f5a820468e5438c32419525b798 Website Emulation (For 1146dfa30d3bce2f4ee6f5282786e3a Filtering): bulklookup.threatpinch.com 0de124907b4e6aa5adba60f9cc22ed0 Show All Pivots: Show Graph: 0ee2b50c85a110689352fccfa77b5b18

c1146dfa30d3bce2f4ee6f5282786e3a 50de124907b4e6aa5adba60f9cc22ed0 0ee2b50c85a110689352fccfa77b5b18 50de124907b4e6aa5adba60f9cc22ed0 c18b690c9f7cf921d35d97e87766b209 cb8020836e77353f5229fe43d436e386 97cf870f1d1fdc83640e3c8d8ec81c66 fdb53152230e3beafccbc2aaf2a00165 370b191519abcd3956a065bb89eb9445 6a49ba414d53c304bddcbd4a501281cd cf7dc712c6b4fff1107f28f9bdac829b aeca0aa59566b054ca9283cfc33e45a4



Care Care	MD5	Fichero	VT	MalShare	AlienWare OTX	MalwareBazaar	CAPEv2	ClamAv	Malware Hash Registry	MISP	Circl.lu
97cf876f1d1fdc83640e3c8d8ec81c66 msvcr120.d11 0/65 - 0 - 1.6/10 - 0%	fdb53152230e3beafccbc2aaf2a00165	pidgenx.dll	0/69	-	0	-	1.3/10	-	0%	-	Conocido (que no seguro)
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Divisional Wild Card Conference VS VS

bidaidea@h-c0n2023:~\$ cd /superbowl bidaidea@h-c0n2023:/superbowl\$ cat superbowl.body

```
jedi@eadu:/data/superbowl$ cat superbowl.body
1f083f5a820468e5438c32419525b798|/mnt/windows02/Program Files (x86)/NCH Software/Components/mp3el/mp3enc.exe|398931|
c1146dfa30d3bce2f4ee6f5282786e3a|/mnt/windows02/Program Files (x86)/NCH Software/ExpressRip/expressrip.exe|398921|-r
50de124907b4e6aa5adba60f9cc22ed0|/mnt/windows02/Program Files (x86)/NCH Software/ExpressRip/expressripsetup_v5.00.ex
50de124907b4e6aa5adba60f9cc22ed0|/mnt/windows02/Users/Jedi/AppData/Local/Temp/ExpressRip-9004-1/Installer.exe|398912
370b191519abcd3956a065bb89eb9445|/mnt/windows02/Users/Jedi/Documents/KeyCheck v1.0.3.6_RU_EN_ES_VI_LV/KeyCheck.exe|3
aeca0aa59566b054ca9283cfc33e45a4|/mnt/windows02/Windows/Temp/combase.exe|235858|-rwxrwxrwx|0|0|804352|1675797199.806
```

bidaidea@h-c0n2023:/superbowl\$ mactime -b superbowl.body > superbowl.MACBtime.txt bidaidea@h-c0n2023:/superbowl\$ cat superbowl.MACBtime.txt

```
jedi@eadu:/data/superbowl$ mactime -b superbowl.body > superbowl.MACBtime.txt
jedi@eadu:/data/superbowl$ cat superbowl.MACBtime.txt
Tue May 06 2014 09:07:36
                          315904 ...b -rwxr-xr-x 0
                                                                    399830
                                                                             /mnt/windows01/Users/Jedi/Documents/KeyCheck v1.0.3.6 RU EN ES VI LV/KeyCheck.exe
Tue Feb 08 2022 17:37:32 1111568 m... -rwxr-xr-x 0
                                                                    398921
                                                                             /mnt/windows01/Program Files (x86)/NCH Software/ExpressRip/expressrip.exe
Tue Feb 07 2023 19:11:06
                          804352 m... -rwxr-xr-x 0
                                                                    235858
                                                                             /mnt/windows01/Windows/Temp/combase.exe
Tue Feb 07 2023 19:56:03
                          607760 ...b -rwxr-xr-x 0
                                                                    398912
                                                                             /mnt/windows01/Users/Jedi/AppData/Local/Temp/ExpressRip-9004-1/Installer.exe
                          607760 m.c. -rwxr-xr-x 0
Tue Feb 07 2023 19:56:04
                                                                    398912
                                                                             /mnt/windows01/Users/Jedi/AppData/Local/Temp/ExpressRip-9004-1/Installer.exe
                                                                             /mnt/windows01/Program Files (x86)/NCH Software/ExpressRip/expressripsetup v5.00.exe
                           607760 m.c. -rwxr-xr-x 0
                                                                    398965
Tue Feb 07 2023 19:56:17 1111568 ..cb -rwxr-xr-x 0
                                                                    398921
                                                                             /mnt/windows01/Program Files (x86)/NCH Software/ExpressRip/expressrip.exe
Tue Feb 07 2023 19:56:18
                                                                             /mnt/windows01/Program Files (x86)/NCH Software/Components/mp3el/mp3enc.exe
                          110592 macb -rwxr-xr-x 0
                                                                    398931
Tue Feb 07 2023 19:56:21
                                                                    398912
                                                                             /mnt/windows01/Users/Jedi/AppData/Local/Temp/ExpressRip-9004-1/Installer.exe
                          607760 .a.. -rwxr-xr-x 0
                          607760 ...b -rwxr-xr-x 0
                                                                    398965
                                                                             /mnt/windows01/Program Files (x86)/NCH Software/ExpressRip/expressripsetup v5.00.exe
                                                                    398965
                                                                             /mnt/windows01/Program Files (x86)/NCH Software/ExpressRip/expressripsetup v5.00.exe
Tue Feb 07 2023 19:56:22
                          607760 .a.. -rwxr-xr-x 0
Tue Feb 07 2023 20:06:50 1111568 .a.. -rwxr-xr-x 0
                                                                    398921
                                                                             /mnt/windows01/Program Files (x86)/NCH Software/ExpressRip/expressrip.exe
Tue Feb 07 2023 20:07:04
                          315904 m... -rwxr-xr-x 0
                                                                    399830
                                                                             /mnt/windows01/Users/Jedi/Documents/KeyCheck v1.0.3.6 RU EN ES VI LV/KeyCheck.exe
Tue Feb 07 2023 20:07:19
                                                                    399830
                                                                             /mnt/windows01/Users/Jedi/Documents/KeyCheck v1.0.3.6 RU EN ES VI LV/KeyCheck.exe
                           315904 ..c. -rwxr-xr-x 0
                                                                             /mnt/windows01/Users/Jedi/Documents/KeyCheck v1.0.3.6 RU EN ES VI LV/KeyCheck.exe
Tue Feb 07 2023 20:07:33
                           315904 .a.. -rwxr-xr-x 0
                                                                    399830
Tue Feb 07 2023 20:11:38
                          804352 ...b -rwxr-xr-x 0
                                                                    235858
                                                                             /mnt/windows01/Windows/Temp/combase.exe
Tue Feb 07 2023 20:13:03
                           804352 ..c. -rwxr-xr-x 0
                                                                    235858
                                                                             /mnt/windows01/Windows/Temp/combase.exe
                                                                    235858
Tue Feb 07 2023 20:13:19
                                                                             /mnt/windows01/Windows/Temp/combase.exe
                           804352 .a.. -rwxr-xr-x 0
```



DIGITAL FORENSICS 🔓 INCIDENT RESPONSE

Windows® Time Rules

\$Standard_Information Win10 v1903



File Creation

Modified – Time of File Creation

Access – Time of File Creation

Metadata –

File Access

Modified – No Change

Access – Time of Access (No Change If System Volume > 128 GIB)

Motadata -

File Modification

> Modified – Time of Data Modification

Access – Time of Data Modification

Metadata -

File Rename

Modified – No Change

Access – No Change

Metadata –

File Copy (new file)

Modified – Inherited from Original

> Access – Time of File Copy

Metadata -

Local File Move

Modified – No Change

Access – No Change

Metadata -

Volume File Move

> Modified – Inherited

from Original

(move vla CLI)

Access – Time of File Move via CLI

Metadata –

Volume File Move

(cut/paste vla Explorer)

Modified – Inherited from Original

Access – Time of Cut/Paste

Metadata –

No Change

File

Deletion

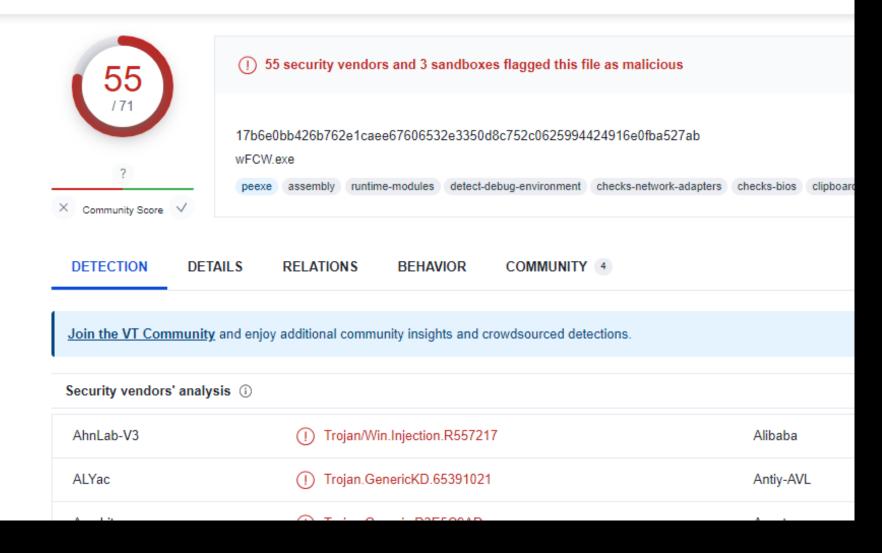
(shift+delete)

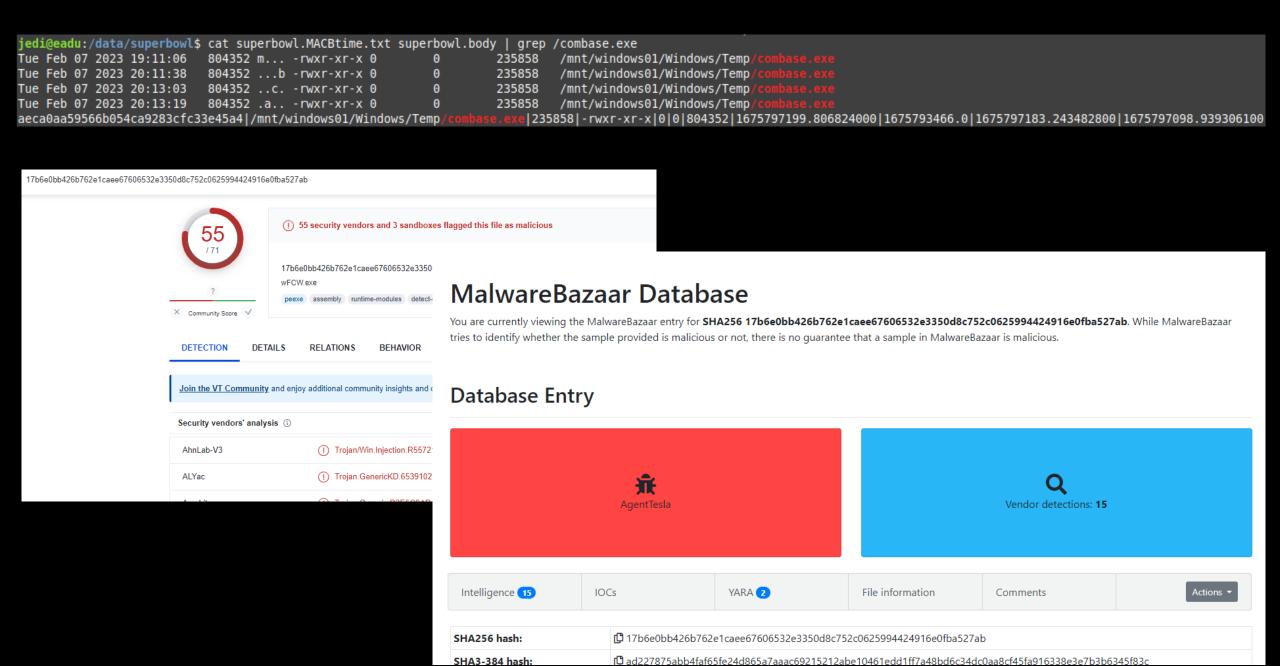
Modified -

No Change

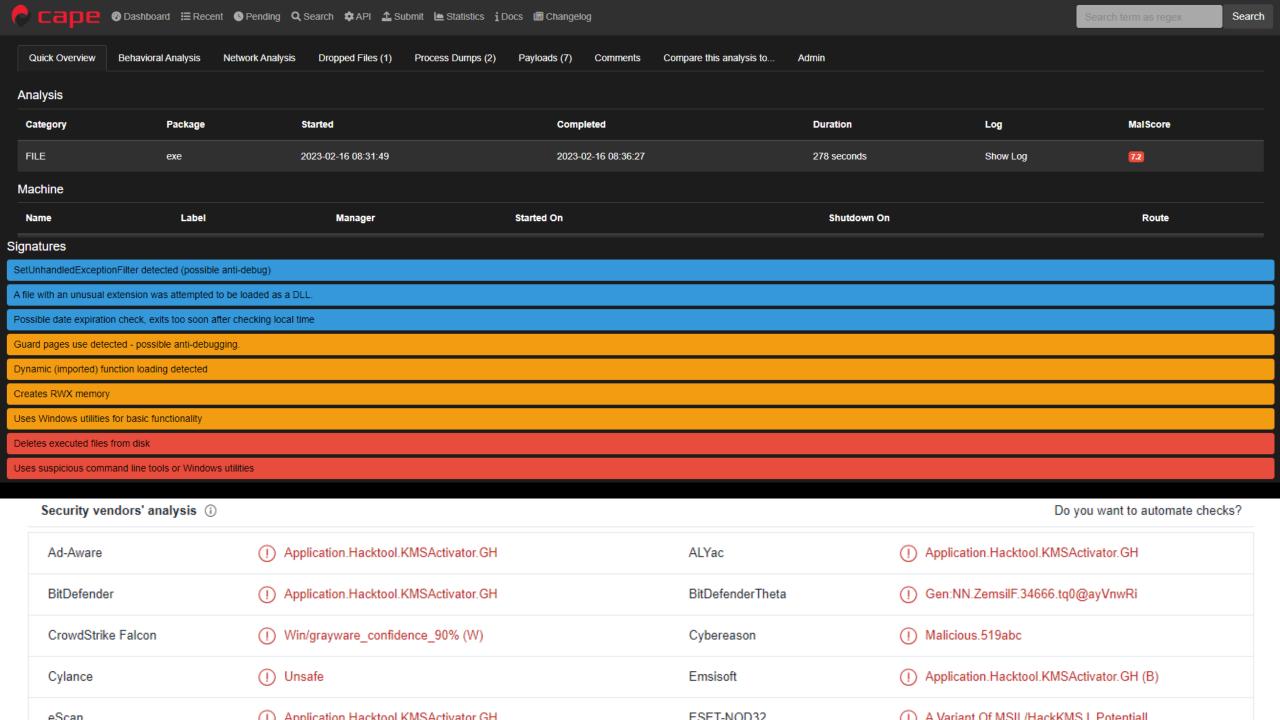
Access -

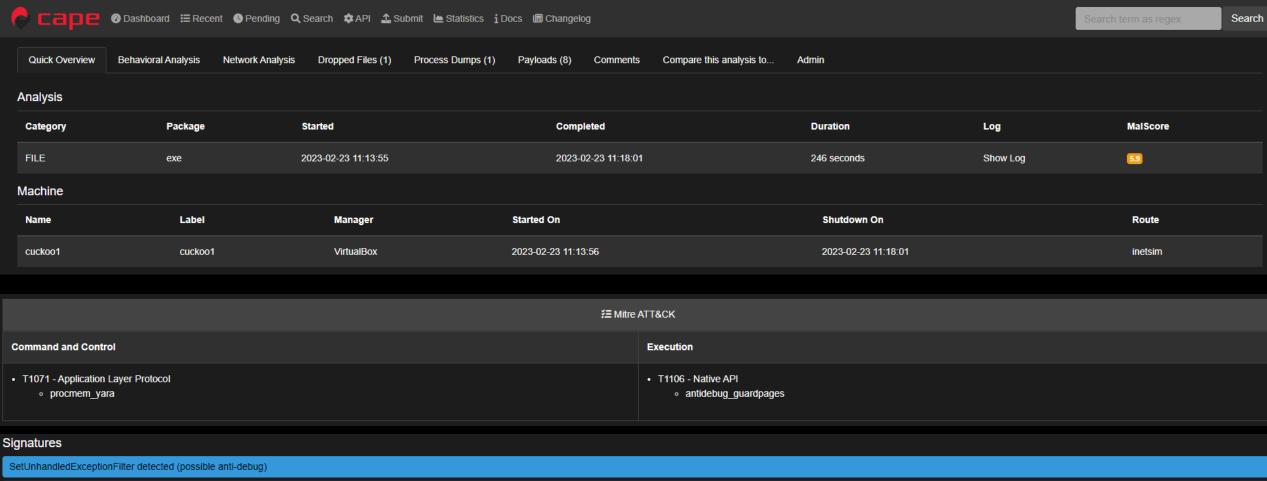
Motadata











At least one process apparently crashed during execution

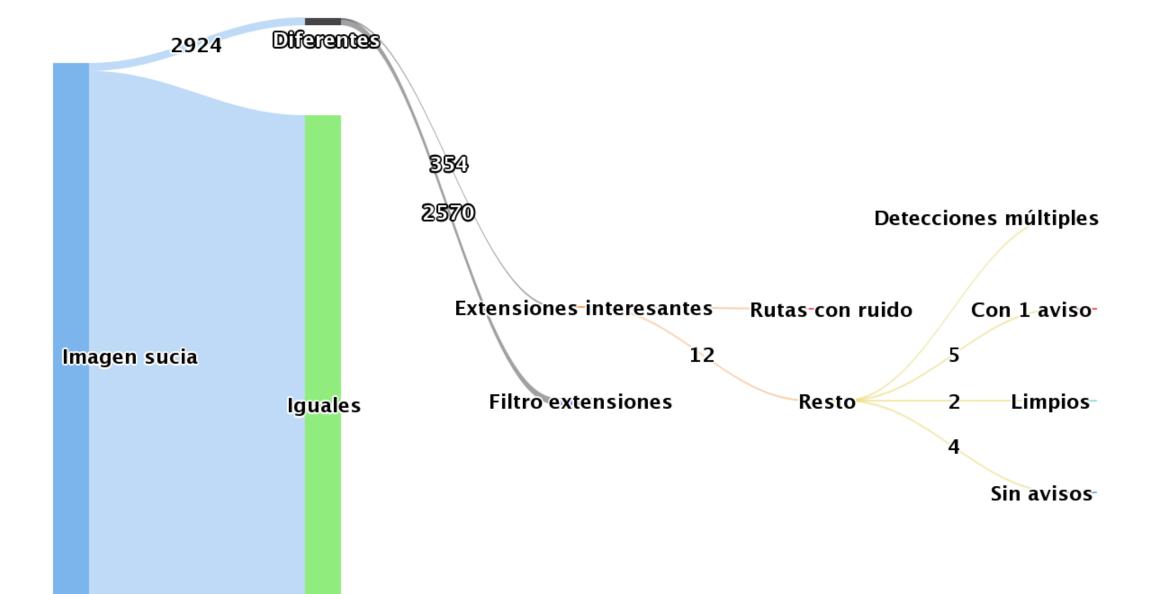
Guard pages use detected - possible anti-debugging.

Dynamic (imported) function loading detected

Reads data out of its own binary image

Creates RWX memory

Yara rule detections observed from a process memory dump/dropped files/CAPE



bidaidea@h-c0n2023:~\$ sudo deluser rafa
bidaidea@h-c0n2023:~\$ sudo deluser luise
bidaidea@h-c0n2023:~\$ cd /
bidaidea@h-c0n2023:/\$ sudo rm -rf *





https://github.com/bidaidea-cyber

https://github.com/kero99/macrobber-ng