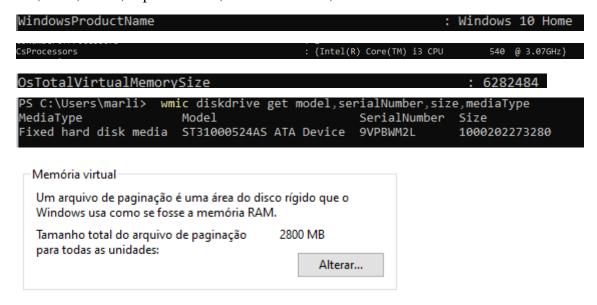
Atividade 10 - Relatório Cliente Linux

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1. Informe via comando e/ou interface GUI:

As seguintes informações da sua máquina:

SO, CPU, RAM, Tipo de Disco, Tamanho Disco, Tamanho Memória Estendida



2. Qual ferramenta você utilizou para criar o ambiente Linux?
WSL

- 3. Veja os comandos a seguir, descreva para que serve e liste as informações importantes que trazem (print):
- 3.1. sudo apt update Procura Updates para os pacotes instalados

```
luiz_carlos@DESKTOP-PVS1Q3D:~$ sudo apt update
[sudo] password for luiz_carlos:
Get:1 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Hit:2 http://archive.ubuntu.com/ubuntu focal InRelease
Get:3 http://archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:4 http://archive.ubuntu.com/ubuntu focal-backports InRelease [101 kB]
Get:5 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 c-n-f Metadata [14.3 kB]
Fetched 342 kB in 3s (101 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
All packages are up to date.
```

3.2. top – Traz informações a respeito do Consumo de HW

```
🧿 luiz_carlos@DESKTOP-PVS1Q3D: ~
top - 21:26:51 up 57 min, 0 users, load average: 0.29, 0.09, 0.03
Tasks: 5 total, 1 running, 4 sleeping, 0 stopped, 0 zombi
%Cpu(s): 0.0 us, 0.1 sy, 0.0 ni, 99.7 id, 0.2 wa, 0.0 hi, 0.0
MiB Mem : 3079.7 total, 2756.3 free, 56.9 used, 266.5 bu
                                                                                      0 zombie
                                                                0.2 wa, 0.0 hi, 0.0 si,
                                                                                    266.5 buff/cache
MiB Swap:
                 1024.0 total,
                                        1024.0 free,
                                                                  0.0 used.
                                                                                   2881.1 avail Mem
  PID USER
                       PR NI
                                     VIRT
                                                 RES
                                                                     %CPU
                                                                             %MEM
                                                                                           TIME+ COMMAND
                                                                                        0:00.05 init
       root
                       20
                                                                                        0:00.00 init
                                      896
                                                  84
                                                            20 S
                                                                      0.0
                                                                               0.0
       root
                       20
                              0
                                      896
                                                  84
                                                            20
                                                                      0.0
                                                                               0.0
                                                                                        0:00.25 init
                       20
                                    10040
                                                          3248
                                                                                        0:00.62 bash
        luiz_ca+
                              0
                                                4948
                                                                      0.0
                                                                               0.2
                       20
                              0
                                                                               0.1
                                    10876
                                               3696
                                                          3196 R
                                                                      0.0
                                                                                        0:00.07 top
  292 luiz ca+
```

3.3. more /proc/cpuinfo – Traz diversas informações sobre a CPU

```
 luiz_carlos@DESKTOP-PVS1Q3D: ~
                                                                                                                                   ×
 luiz carlos@DESKTOP-PVS1Q3D:~$ more /proc/cpuinfo
processor
                       : 0
vendor_id
                       : GenuineIntel
cpu family
model
                       : Intel(R) Core(TM) i3 CPU
model name
                                                                         540 @ 3.07GHz
stepping
microcode
                       : 0xffffffff
cpu MHz
                         3066.767
cache size
                       : 4096 KB
physical id
siblings
core id
                       : 0
cpu cores
                         2
apicid
initial apicid
                       : 0
fpu
                       : yes
                       : yes
: 11
fpu_exception
cpuid level
wp
flags
                       : yes
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush
mmx fxsr sse sse2 ht syscall nx rdtscp lm constant_tsc rep_good nopl xtopology cpuid pni ssse3 c
x16 pcid sse4_1 sse4_2 popcnt hypervisor lahf_lm pti ssbd ibrs ibpb stibp flush_l1d arch_capabili
```

3.4. cpuid | more – Traz Informações mais especificas sobre a CPU e uma lista com várias funções que ela consegue realizar

```
Iuiz_carlos@DESKTOP-PVS1Q3D: ~
                                                                                                    uiz_carlos@DESKTOP-PVS1Q3D:~$ cpuid | more
CPU 0:
  vendor_id = "GenuineIntel"
   version information (1/eax):
      processor type = primary processor (0)
                       = 0x6 (6)
      family
                       = 0x5 (5)
= 0x5 (5)
= 0x0 (0)
      model
      stepping id = extended family =
                       = 0x2 (2)
= 0x6 (6)
      extended model
      (family synth)
(model synth)
                        = 0x25 (37)
      (simple synth)
                       = Intel Core (unknown type) (Clarkdale/Arrandale K0) [Westmere] {Nehalem},
32nm
   miscellaneous (1/ebx):
      process local APIC physical ID = 0x0 (0)
                                        = 0x4(4)
      cpu count
      CLFLUSH line size
                                        = 0x8 (8)
      brand index
                                        = 0x0 (0)
  brand id = 0x00 (0): unknown
   feature information (1/edx):
      x87 FPU on chip
                                                 = true
      VME: virtual-8086 mode enhancement
                                                 = true
      DE: debugging extensions
                                                 = true
```

3.5. sudo dmidecode - Este comando decodifica tabelas DMI (Destktop Management Information)

```
luiz_carlos@DESKTOP-PVS1Q3D:~$ sudo dmidecode
# dmidecode 3.2
Scanning /dev/mem for entry point.
# No SMBIOS nor DMI entry point found, sorry.
```

3.6. hardinfo – Traz várias informações sobre o Arquivos, Dispositivos Conectados e Hardware, além de vários Benchmarks

```
| Second | S
```

3.7. inxi -C – Traz informações sobre a CPU

```
luiz_carlos@DESKTOP-PVS103D:~$ inxi -C
CPU: Topology: Dual Core model: Intel Core i3 540 bits: 64 type: MT MCP
L2 cache: 4096 KiB
Speed: 3067 MHz min/max: N/A Core speeds (MHz): 1: 3067 2: 3067 3: 3067 4: 3067
```

3.8. likwid-topology - Traz diversas infos sobre a CPU e seus cores lógicos

```
Selecionar luiz_carlos@DESKTOP-PVS1Q3D: ~
                                                    uiz_carlos@DESKTOP-PVS1Q3D:~$ likwid-topology
CPU name: Intel(R) Core(TM) i3 CPU
                           540 @ 3.07GHz
CPU type:p://arcIntel Core Westmere processormain amd64 liblua5.2-0 amd64 5.2.4-1.1build3 [106 kB
Sockets:1005 kB in 7s (116 kB/s)
Cores per socket:
Threads per core:
                          Socket Available
        Thread Core
HWThread
         0
                  0
                           0
                  a
                           0
         0
                           0
                           0
             (0123)
Socket 0:
Cache Topology
evel:
```

3.9. lscpu – Também traz bastante informação sobre a CPU

```
luiz_carlos@DESKTOP-PVS1Q3D: ~
                                                                                                   uiz_carlos@DESKTOP-PVS1Q3D:~$ lscpu
Architecture:
CPU op-mode(s):
                                    32-bit, 64-bit
                                   Little Endian
Byte Order:
Address sizes:
                                    36 bits physical, 48 bits virtual
CPU(s):
On-line CPU(s) list:
Thread(s) per core:
Core(s) per socket:
Socket(s):
Vendor ID:
                                    GenuineIntel
CPU family:
Model:
Model name:
                                    Intel(R) Core(TM) i3 CPU
                                                                        540 @ 3.07GHz
Stepping:
CPU MHz:
                                    3066.767
BogoMIPS:
                                    6133.53
Hypervisor vendor:
                                    Microsoft
Virtualization type:
                                    full
                                   64 KiB
64 KiB
L1d cache:
L1i cache:
L2 cache:
                                    512 KiB
L3 cache:
                                    4 MiB
Vulnerability Itlb multihit:
                                    KVM: Mitigation: VMX unsupported
```

3.10. lshw – Traz pouquíssimas informações sobre a placa mae e a Memoria (Que por sinal é a Virtual, não minha memória RAM propriamente dita) e algumas informações sobre a CPU além de uma lista com as suas capacidades

```
🧿 Selecionar luiz_carlos@DESKTOP-PVS1Q3D: ~
                                                                                                                             .uiz carlos@DESKTOP-PVS1Q3D:~$ sudo lshw
desktop-pvs1q3d
     description: Computer
    width: 64 bits
capabilities: smp vsyscall32
         description: Motherboard
         physical id: 0
             description: System memory physical id: 0
             size: 3200MiB
             product: Intel(R) Core(TM) i3 CPU vendor: Intel Corp.
physical id: 1
                                                                       540 @ 3.07GHz
             bus info: cpu@0
width: 64 bits
 capabilities: fpu fpu_exception wp vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca
cmov pat pse36 clflush mmx fxsr sse sse2 ht syscall nx rdtscp x86-64 constant_tsc rep_good nopl
xtopology cpuid pni ssse3 cx16 pcid sse4_1 sse4_2 popcnt hypervisor lahf_lm pti ssbd ibrs ibpb st
ibp flush_l1d arch_capabilities
       *-pnp00:00
             product: PnP device PNP0b00
```

3.11. lstopo – Deveria ter trazido a topologia do sistema (Um desenho de como o sistema funciona)

```
luiz_carlos@DESKTOP-PVS1Q3D:~$ lstopo
Machine (3080MB total)
  Package L#0
    NUMANode L#0 (P#0 3080MB)
    L3 L#0 (4096KB)
    L2 L#0 (256KB) + L1d L#0 (32KB) + L1i L#0 (32KB) + Core L#0
    PU L#0 (P#0)
    PU L#1 (P#1)
    L2 L#1 (256KB) + L1d L#1 (32KB) + L1i L#1 (32KB) + Core L#1
    PU L#2 (P#2)
    PU L#3 (P#3)
Block "sdb"
Block "sda"
Net "eth0"
```

OBS:

Prô, sabia que dá pra usar o PoweShell pelo cmd? Se liga

```
C:\Users\marli>powershell
Windows PowerShell
Copyright (C) Microsoft Corporation. Todos os direitos reservados.

Experimente a nova plataforma cruzada PowerShell https://aka.ms/pscore6

PS C:\Users\marli> Get-ComputerInfo
[
```