Renan Alves Rocha 2ADS-C – Comando Linux na VM

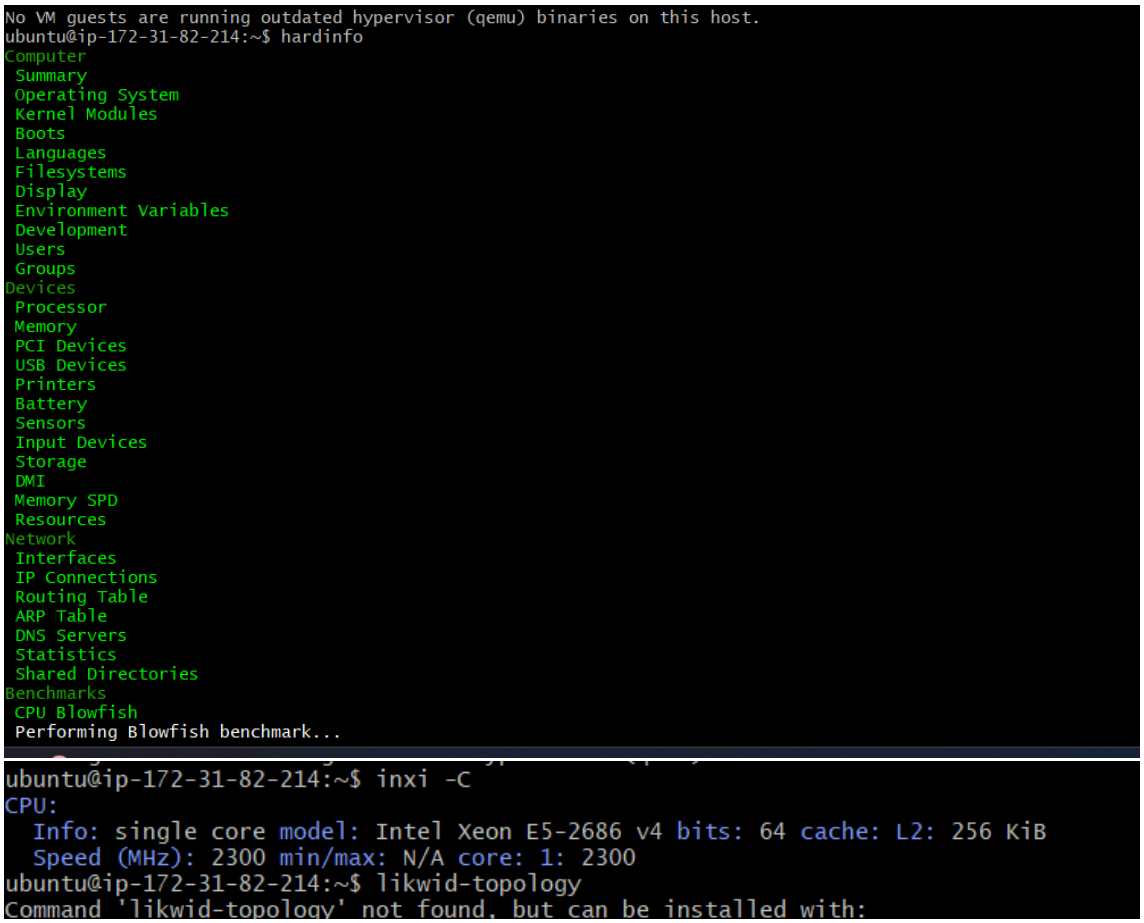
```
ubuntu@ip-172-31-82-214:~$ sudo apt upgrade && sudo apt update
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [11
9 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [
109 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packag
es [14.1 MB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-
en [5652 kB]
Get:7 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1342
 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f
Metadata [286 kB]
```

```
MAN(1)                          Manual pager utils                          MAN(1)

NAME
       man - an interface to the system reference manuals

SYNOPSIS
       man [man options] [[section] page ...] ...
       man -k [apropos options] regexp ...
       man -K [man options] [section] term ...
       man -f [whatis options] page ...
       man -l [man options] file ...
       man -w|-W [man options] page ...

DESCRIPTION
       man is the system's manual pager.  Each page argument given to man is normally the name of a program, utility or function.  The manual page associated with each of these arguments is then found and
       displayed.  A section, if provided, will direct man to look only in that section of the manual.  The default action is to search in all of the available sections following a pre-defined order  (see
       DEFAULTS), and to show only the first page found, even if page exists in several sections.

       The table below shows the section numbers of the manual followed by the types of pages they contain.

       1   Executable programs or shell commands
       2   System calls (functions provided by the kernel)
       3   Library calls (functions within program libraries)
       4   Special files (usually found in /dev)
       5   File formats and conventions, e.g. /etc/passwd
       6   Games
       7   Miscellaneous (including macro packages and conventions), e.g. man(7), groff(7), man-pages(7)
       8   System administration commands (usually only for root)
       9   Kernel routines [Non standard]

       A manual page consists of several sections.

       Conventional  section  names  include  NAME, SYNOPSIS, CONFIGURATION, DESCRIPTION, OPTIONS, EXIT STATUS, RETURN VALUE, ERRORS, ENVIRONMENT, FILES, VERSIONS, CONFORMING TO, NOTES, BUGS, EXAMPLE, AU-
       THORS, and SEE ALSO.

       The following conventions apply to the SYNOPSIS section and can be used as a guide in other sections.

       bold text          type exactly as shown.
       italic text        replace with appropriate argument.
       [-abc]             any or all arguments within [ ] are optional.
       -a|-b              options delimited by | cannot be used together.
       argument ...       argument is repeatable.
       [expression] ...   entire expression within [ ] is repeatable.

       Exact rendering may vary depending on the output device.  For instance, man will usually not be able to render italics when running in a terminal, and will typically use underlined or coloured text
       instead.

       The  command or function illustration is a pattern that should match all possible invocations.  In some cases it is advisable to illustrate several exclusive invocations as is shown in the SYNOPSIS
       section of this manual page.

EXAMPLES
       man ls
           Display the manual page for the item (program) ls.

       man man.7
           Display the manual page for macro package man from section 7.  (This is an alternative spelling of "man 7 man".)

Manual page man(1) line 1 (press h for help or q to quit)
```

```
ubuntu@ip-172-31-82-214:~$ lsb_release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description:    Ubuntu 22.04.4 LTS
Release:        22.04
Codename:       jammy
ubuntu@ip-172-31-82-214:~$
```

```
ubuntu@ip-172-31-82-214:~$ lsb_release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description:    Ubuntu 22.04.4 LTS
Release:        22.04
Codename:       jammy
ubuntu@ip-172-31-82-214:~$ cat /proc/cpuinfo
processor       : 0
vendor_id       : GenuineIntel
cpu family      : 6
model           : 79
model name      : Intel(R) Xeon(R) CPU E5-2686 v4 @ 2.30GHz
stepping        : 1
microcode       : 0xb000040
cpu MHz         : 2299.963
cache size      : 46080 KB
physical id     : 0
siblings        : 1
core id         : 0
cpu cores       : 1
apicid          : 0
initial apicid  : 0
fpu             : yes
fpu_exception   : yes
cpuid level     : 13
wp              : 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 tsc_known_freq pni pclmulqd
q ssse3 fma cx16 pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand hypervisor lahf_lm abm cpuid_fault invpcid_single pti fsgsbase bmi1 avx2 smep bmi2 erms invpcid xsaveopt
bugs            : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs itlb_multihit mmio_stale_data
bogomips        : 4600.04
clflush size    : 64
cache_alignment : 64
address sizes   : 46 bits physical, 48 bits virtual
power management:
```

```
CPU 0:
   vendor_id = "GenuineIntel"
   version information (1/eax):
      processor type  = primary processor (0)
      family          = 0x6 (6)
      model           = 0xf (15)
      stepping id     = 0x1 (1)
      extended family = 0x0 (0)
      extended model  = 0x4 (4)
      (family synth)  = 0x6 (6)
      (model synth)   = 0x4f (79)
      (simple synth)  = Intel Core (unknown type) (Broadwell-E / Broadwell-EX) {Haswell}, 14nm
   miscellaneous (1/ebx):
      process local APIC physical ID = 0x0 (0)
      maximum IDs for CPUs in pkg    = 0x1 (1)
      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
      PSE: page size extensions              = true
      TSC: time stamp counter                = true
      RDMSR and WRMSR support                = true
      PAE: physical address extensions       = true
      MCE: machine check exception           = true
      CMPXCHG8B inst.                        = true
      APIC on chip                           = true
      SYSENTER and SYSEXIT                   = true
      MTRR: memory type range registers      = true
      PTE global bit                         = true
      MCA: machine check architecture        = true
      CMOV: conditional move/compare instr   = true
      PAT: page attribute table              = true
      PSE-36: page size extension            = true
      PSN: processor serial number           = false
      CLFLUSH instruction                    = true
      DS: debug store                        = false
      ACPI: thermal monitor and clock ctrl   = false
      MMX Technology                         = true
      FXSAVE/FXRSTOR                         = true
      SSE extensions                         = true
      SSE2 extensions                        = true
      SS: self snoop                         = false
      hyper-threading / multi-core supported = true
      TM: therm. monitor                     = false
      IA64                                   = false
      PBE: pending break event               = false
   feature information (1/ecx):
      PNI/SSE3: Prescott New Instructions     = true
      PCLMULDQ instruction                    = true
      DTES64: 64-bit debug store              = false
      MONITOR/MWAIT                           = false
      CPL-qualified debug store               = false
      VMX: virtual machine extensions         = false
      SMX: safer mode extensions              = false
--More--
      SMX: safer mode extensions              = false
ubuntu@ip-172-31-82-214:~$ df
Filesystem     1K-blocks    Used Available Use% Mounted on
/dev/root       20134592 1841880  18276328  10% /
tmpfs             486004       0    486004   0% /dev/shm
tmpfs             194404     860    193544   1% /run
tmpfs               5120       0      5120   0% /run/lock
/dev/xvda15       106832    6186    100646   6% /boot/efi
tmpfs              97200       4     97196   1% /run/user/1000
ubuntu@ip-172-31-82-214:~$ free
               total        used        free      shared  buff/cache   available
Mem:           972012      177800      202900         864      591312      629456
Swap:               0           0           0
ubuntu@ip-172-31-82-214:~$
```


No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-82-214:~$ hardinfo
Computer
Summary
Operating System
Kernel Modules
Boots
Languages
Filesystems
Display
Environment Variables
Development
Users
Groups
Devices
Processor
Memory
PCI Devices
USB Devices
Printers
Battery
Sensors
Input Devices
Storage
DMI
Memory SPD
Resources
Network
Interfaces
IP Connections
Routing Table
ARP Table
DNS Servers
Statistics
Shared Directories
Benchmarks
CPU Blowfish
Performing Blowfish benchmark...

ubuntu@ip-172-31-82-214:~$ inxi -C
CPU:
Info: single core model: Intel Xeon E5-2686 v4 bits: 64 cache: L2: 256 KiB
Speed (MHz): 2300 min/max: N/A core: 1: 2300
ubuntu@ip-172-31-82-214:~$ likwid-topology
Command 'likwid-topology' not found, but can be installed with:

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-82-214:~$ likwid-topology
--------------------------------------------------------------------------------
CPU name:       Intel(R) Xeon(R) CPU E5-2686 v4 @ 2.30GHz
CPU type:       Intel Xeon Broadwell EN/EP/EX processor
CPU stepping:   1
********************************************************************************
Hardware Thread Topology
********************************************************************************
Sockets:                1
Cores per socket:       1
Threads per core:       1
--------------------------------------------------------------------------------
HWThread        Thread          Core            Socket          Available
0               0               0               0               *
--------------------------------------------------------------------------------
Socket 0:               ( 0 )
--------------------------------------------------------------------------------
********************************************************************************
Cache Topology
********************************************************************************
Level:                  1
Size:                   32 kB
Cache groups:           ( 0 )
--------------------------------------------------------------------------------
Level:                  2
Size:                   256 kB
Cache groups:           ( 0 )
--------------------------------------------------------------------------------
Level:                  3
Size:                   45 MB
Cache groups:           ( 0 )
--------------------------------------------------------------------------------
********************************************************************************
NUMA Topology
********************************************************************************
NUMA domains:           1
--------------------------------------------------------------------------------
Domain:                 0
Processors:             ( 0 )
Distances:              10
Free memory:            223.676 MB
Total memory:           949.23 MB
--------------------------------------------------------------------------------
ubuntu@ip-172-31-82-214:~$
```

```
Cache groups:           ( 0 )
--------------------------------------------------------------------------------
********************************************************************************
NUMA Topology
********************************************************************************
NUMA domains:           1
--------------------------------------------------------------------------------
Domain:                 0
Processors:             ( 0 )
Distances:              10
Free memory:            223.676 MB
Total memory:           949.23 MB
--------------------------------------------------------------------------------
ubuntu@ip-172-31-82-214:~$ lscpu
Architecture:            x86_64
  CPU op-mode(s):        32-bit, 64-bit
  Address sizes:         46 bits physical, 48 bits virtual
  Byte Order:            Little Endian
CPU(s):                  1
  On-line CPU(s) list:   0
Vendor ID:               GenuineIntel
  Model name:            Intel(R) Xeon(R) CPU E5-2686 v4 @ 2.30GHz
    CPU family:          6
    Model:               79
    Thread(s) per core:  1
    Core(s) per socket:  1
    Socket(s):           1
    Stepping:            1
    BogoMIPS:            4600.04
    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 x
                         c1mulqdq ssse3 fma cx16 pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand hypervisor lahf_lm abm cpuid_fault invpcid
                          bmi2 erms invpcid xsaveopt
Virtualization features:
  Hypervisor vendor:     Xen
  Virtualization type:   full
Caches (sum of all):
  L1d:                   32 KiB (1 instance)
  L1i:                   32 KiB (1 instance)
  L2:                    256 KiB (1 instance)
  L3:                    45 MiB (1 instance)
NUMA:
  NUMA node(s):          1
  NUMA node0 CPU(s):     0
Vulnerabilities:
  Gather data sampling:  Not affected
  Itlb multihit:         KVM: Mitigation: VMX unsupported
  L1tf:                  Mitigation; PTE Inversion
  Mds:                   Vulnerable: Clear CPU buffers attempted, no microcode; SMT Host state unknown
  Meltdown:              Mitigation; PTI
  Mmio stale data:       Vulnerable: Clear CPU buffers attempted, no microcode; SMT Host state unknown
  Retbleed:              Not affected
  Spec rstack overflow:  Not affected
  Spec store bypass:     Vulnerable
  Spectre v1:            Mitigation; usercopy/swapgs barriers and __user pointer sanitization
  Spectre v2:            Mitigation; Retpolines, STIBP disabled, RSB filling, PBRSB-eIBRS Not affected
  Srbds:                 Not affected
  Tsx async abort:       Not affected
ubuntu@ip-172-31-82-214:~$
```

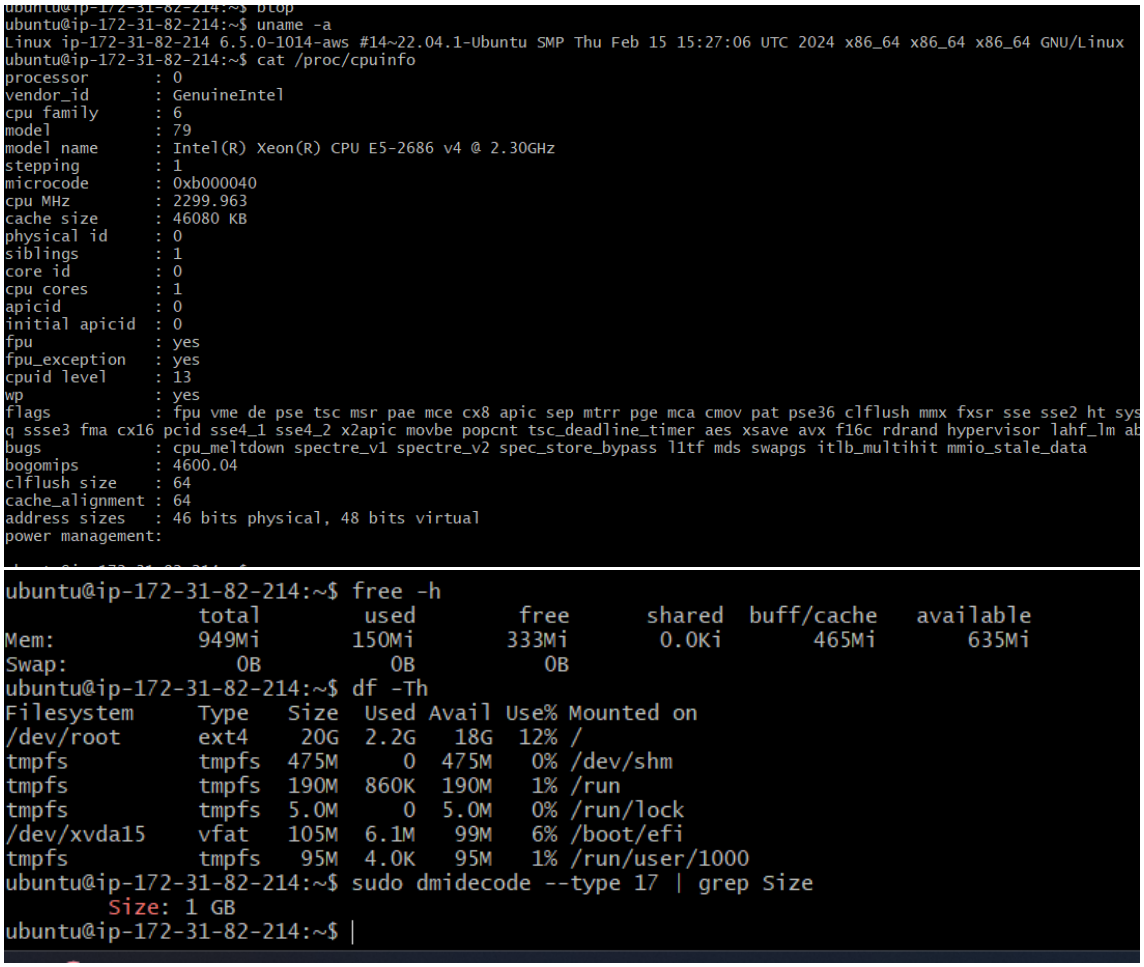
```
ubuntu@ip-172-31-82-214:~$ lshw
WARNING: you should run this program as super-user.
ip-172-31-82-214
    description: Computer
    width: 64 bits
    capabilities: vsyscall32
  *-core
       description: Motherboard
       physical id: 0
     *-memory
          description: System memory
          physical id: 0
          size: 1GiB
     *-cpu
          product: Intel(R) Xeon(R) CPU E5-2686 v4 @ 2.30GHz
          vendor: Intel Corp.
          physical id: 1
          bus info: cpu@0
          version: 6.79.1
          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 c
tsc_known_freq pni pclmulqdq ssse3 fma cx16 pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand hypervisor lahf_lm abm cpuid_fault invpc
 erms invpcid xsaveopt
          configuration: microcode=184549440
     *-pci
          description: Host bridge
          product: 440FX - 82441FX PMC [Natoma]
          vendor: Intel Corporation
          physical id: 100
          bus info: pci@0000:00:00.0
          version: 02
          width: 32 bits
          clock: 33MHz
        *-isa
             description: ISA bridge
             product: 82371SB PIIX3 ISA [Natoma/Triton II]
             vendor: Intel Corporation
             physical id: 1
             bus info: pci@0000:00:01.0
             version: 00
             width: 32 bits
             clock: 33MHz
             capabilities: isa
             configuration: latency=0
           *-pnp00:00
                product: PnP device PNP0c02
                physical id: 0
                capabilities: pnp
                configuration: driver=system
           *-pnp00:01
                product: PnP device PNP0c02
                physical id: 1
                capabilities: pnp
                configuration: driver=system
           *-pnp00:02
                product: PnP device PNP0b00
                physical id: 2
                capabilities: pnp
```

```
ubuntu@ip-172-31-82-214:~$ lstopo
Machine (949MB total)
  Package L#0
    NUMANode L#0 (P#0 949MB)
    L3 L#0 (45MB) + L2 L#0 (256KB) + L1d L#0 (32KB) + L1i L#0 (32KB) + Core L#0 + PU L#0 (P#0)
  HostBridge
    PCI 00:01.1 (IDE)
    PCI 00:02.0 (VGA)
  Block "xvda"
  Net "eth0"
ubuntu@ip-172-31-82-214:~$
```

```
top - 15:06:19 up 24 min,  1 user,  load average: 0.10, 0.14, 0.09
Tasks:  96 total,   1 running,  95 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.3 us,  0.3 sy,  0.0 ni, 96.0 id,  3.3 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :    949.2 total,    227.6 free,    149.5 used,    572.1 buff/cache
MiB Swap:      0.0 total,      0.0 free,      0.0 used.    634.1 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
   1275 ubuntu    20   0   17196   8052   5632 S   0.3   0.8   0:00.22 sshd
   3912 root      20   0       0      0      0 I   0.3   0.0   0:00.01 kworker/u30:0-events_unbound
      1 root      20   0  167404  12764   8284 S   0.0   1.3   0:05.63 systemd
      2 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kthreadd
      3 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_gp
      4 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_par_gp
      5 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 slub_flushwq
      6 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 netns
      8 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/0:0H-events_highpri
      9 root      20   0       0      0      0 I   0.0   0.0   0:00.07 kworker/0:1-events
     11 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 mm_percpu_wq
     12 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_tasks_rude_kthread
     13 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_tasks_trace_kthread
     14 root      20   0       0      0      0 S   0.0   0.0   0:00.15 ksoftirqd/0
     15 root      20   0       0      0      0 I   0.0   0.0   0:00.45 rcu_sched
     16 root      rt   0       0      0      0 S   0.0   0.0   0:00.01 migration/0
     17 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/0
     18 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/0
     19 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kdevtmpfs
     20 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 inet_frag_wq
     22 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kauditd
     23 root      20   0       0      0      0 S   0.0   0.0   0:00.00 khungtaskd
     24 root      20   0       0      0      0 I   0.0   0.0   0:00.10 kworker/u30:2-flush-202:0
     25 root      20   0       0      0      0 S   0.0   0.0   0:00.00 oom_reaper
     26 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 writeback
     27 root      20   0       0      0      0 S   0.0   0.0   0:00.04 kcompactd0
     28 root      25   5       0      0      0 S   0.0   0.0   0:00.00 ksmd
     29 root      39  19       0      0      0 S   0.0   0.0   0:00.00 khugepaged
     30 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kintegrityd
     31 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kblockd
     32 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 blkcg_punt_bio
     33 root      20   0       0      0      0 S   0.0   0.0   0:00.00 xen-balloon
     34 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 tpm_dev_wq
     35 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 ata_sff
     36 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 md
     37 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 md_bitmap
     38 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 edac-poller
     39 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 devfreq_wq
     40 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 watchdogd
     43 root      20   0       0      0      0 S   0.0   0.0   0:00.17 kswapd0
     44 root      20   0       0      0      0 S   0.0   0.0   0:00.00 ecryptfs-kthread
     45 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kthrotld
     46 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 acpi_thermal_pm
     47 root      20   0       0      0      0 S   0.0   0.0   0:00.03 xenbus
     48 root      20   0       0      0      0 S   0.0   0.0   0:00.20 xenwatch
     49 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 nvme-wq
     50 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 nvme-reset-wq
     51 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 nvme-delete-wq
     52 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 nvme-auth-wq
     53 root      20   0       0      0      0 S   0.0   0.0   0:00.00 scsi_eh_0
     54 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 scsi_tmf_0
```

```
ubuntu@ip-172-31-82-214:~$ sudo dmidecode
# dmidecode 3.3
Getting SMBIOS data from sysfs.
SMBIOS 2.7 present.
11 structures occupying 378 bytes.
Table at 0x000EB01F.

Handle 0x0000, DMI type 0, 24 bytes
BIOS Information
        Vendor: Xen
        Version: 4.11.amazon
        Release Date: 08/24/2006
        Address: 0xE8000
        Runtime Size: 96 kB
        ROM Size: 64 kB
        Characteristics:
                PCI is supported
                EDD is supported
                Targeted content distribution is supported
        BIOS Revision: 4.11

Handle 0x0100, DMI type 1, 27 bytes
System Information
        Manufacturer: Xen
        Product Name: HVM domU
        Version: 4.11.amazon
        Serial Number: ec2caceb-46b1-517a-8318-fdb200c5a47d
        UUID: ec2caceb-46b1-517a-8318-fdb200c5a47d
        Wake-up Type: Power Switch
        SKU Number: Not Specified
        Family: Not Specified

Handle 0x0300, DMI type 3, 21 bytes
Chassis Information
        Manufacturer: Xen
        Type: Other
        Lock: Not Present
        Version: Not Specified
        Serial Number: Not Specified
        Asset Tag: Not Specified
        Boot-up State: Safe
        Power Supply State: Safe
        Thermal State: Safe
        Security Status: Unknown
        OEM Information: 0x00000000
        Height: Unspecified
        Number Of Power Cords: Unspecified
        Contained Elements: 0

Handle 0x0401, DMI type 4, 35 bytes
Processor Information
        Socket Designation: CPU 1
        Type: Central Processor
        Family: Other
        Manufacturer: Intel
        ID: F1 06 04 00 FF FB 8B 17
        Version: Not Specified
```

2.



3.

Uma instância na AWS é um servidor virtual na nuvem que você pode usar para executar suas aplicações. Ela se comporta como uma thread ao ser uma unidade de execução independente, podendo ser gerenciada e escalonada dinamicamente conforme necessário, de forma semelhante ao gerenciamento de threads em um programa.

4.

AMI (Amazon Machine Image) é um modelo de imagem virtual usado para criar uma instância EC2 (Elastic Compute Cloud) na AWS (Amazon Web Services). Uma AMI contém todos os elementos necessários para iniciar uma instância, como o sistema operacional, aplicativos, configurações de rede e permissões de acesso. É possível criar AMIs personalizadas para atender às necessidades específicas de sua aplicação e usá-las para iniciar novas instâncias conforme necessário.

5.

O preço de um modelo de processador reservado na EC2 (Elastic Compute Cloud) da AWS depende de vários fatores, como a região da AWS em que você está executando as instâncias, o tipo de instância e o plano de pagamento (reservado, sob demanda, etc.).

Os preços específicos podem ser encontrados no site da AWS, na seção de preços da EC2. Lá, você pode selecionar a região, o tipo de instância e ver os preços para diferentes planos de pagamento, incluindo instâncias reservadas.