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```
ubuntu@ip-172-31-87-241:~$ su vini
Password:
vini@ip-172-31-87-241:/home/ubuntu$ lsb_release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description:    Ubuntu 22.04.1 LTS
Release:        22.04
Codename:       jammy
```

```
ubuntu@ip-172-31-87-241:~$ cat cpuinfo
cat: cpuinfo: No such file or directory
ubuntu@ip-172-31-87-241:~$ cd /proc
ubuntu@ip-172-31-87-241:/proc$ cat cpuinfo
processor       : 0
vendor_id      : GenuineIntel
cpu family     : 6
model          : 63
model name     : Intel(R) Xeon(R) CPU E5-2676 v3 @ 2.40GHz
stepping       : 2
microcode      : 0x49
cpu MHz        : 2399.902
cache size     : 30720 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 clf
```

```
ubuntu@ip-172-31-87-241:/proc$ cat meminfo
```

```
MemTotal:      991128 kB
MemFree:       185208 kB
MemAvailable:  631256 kB
Buffers:       11260 kB
Cached:        547536 kB
SwapCached:    0 kB
Active:        364732 kB
Inactive:      252348 kB
Active(anon):   832 kB
Inactive(anon): 71892 kB
Active(file):   363900 kB
Inactive(file): 180456 kB
Unevictable:    32028 kB
Mlocked:       27492 kB
SwapTotal:     0 kB
SwapFree:      0 kB
Dirty:         8 kB
Writeback:     0 kB
AnonPages:     90348 kB
Mapped:        81128 kB
Shmem:         836 kB
```

```
ubuntu@ip-172-31-87-241:/proc$ cat filesystems
```

```
nodev sysfs
nodev tmpfs
nodev bdev
nodev proc
nodev cgroup
nodev cgroup2
nodev cpuset
nodev devtmpfs
nodev configfs
nodev debugfs
nodev tracefs
nodev securityfs
nodev sockfs
nodev bpf
nodev pipefs
nodev ramfs
nodev hugetlbfs
nodev devpts
      ext3
      ext2
      ext4
      squashfs
      vfat
```

```
ubuntu@ip-172-31-87-241:/proc$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
/dev/root        30308240 2041484 28250372  7% /
tmpfs            495564      0    495564  0% /dev/shm
tmpfs            198228      832    197396  1% /run
tmpfs            5120        0     5120  0% /run/lock
/dev/xvda15     106858      5329    101529  5% /boot/efi
tmpfs            99112       4     99108  1% /run/user/1000
```

```
ubuntu@ip-172-31-87-241:/proc$ free
              total        used        free      shared  buff/cache   available
Mem:           991128      188308      185208         836       617612       631404
Swap:              0              0              0
```

```
top - 23:19:24 up 24 min, 1 user, load average: 0.08, 0.06, 0.07
Tasks: 95 total, 1 running, 94 sleeping, 0 stopped, 0 zombie
%Cpu(s):  0.0 us,  0.0 sy,  0.0 ni,100.0 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :   967.9 total,   180.9 free,   183.7 used,   603.4 buff/cache
MiB Swap:    0.0 total,    0.0 free,    0.0 used.   616.8 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1	root	20	0	166304	11516	8244	S	0.0	1.2	0:08.64	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	netns
7	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/0:0H-events_+
10	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	mm_percpu_wq
11	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcu_tasks_rude_
12	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcu_tasks_trace
13	root	20	0	0	0	0	S	0.0	0.0	0:00.32	ksoftirqd/0
14	root	20	0	0	0	0	I	0.0	0.0	0:00.66	rcu_sched
15	root	rt	0	0	0	0	S	0.0	0.0	0:00.01	migration/0
16	root	-51	0	0	0	0	S	0.0	0.0	0:00.00	idle_inject/0
17	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/0
18	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kdevtmpfs
19	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	inet_frag_wq
20	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kauditd

```
ubuntu@ip-172-31-87-241:/proc$ cpuid | more
CPU 0:
  vendor_id = "GenuineIntel"
  version information (1/eax):
    processor type = primary processor (0)
    family = 0x6 (6)
    model = 0xf (15)
    stepping id = 0x2 (2)
    extended family = 0x0 (0)
    extended model = 0x3 (3)
    (family synth) = 0x6 (6)
    (model synth) = 0x3f (63)
    (simple synth) = Intel (unknown type) (Haswell C1/M1/R2) {Haswell}, 22nm
  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
--More--
```

```
ubuntu@ip-172-31-87-241:/proc$ 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: ec2aaac4-357d-fce8-8e50-e9923c564b39
```

```
ubuntu@ip-172-31-87-241:/proc$ 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
```

```
ubuntu@ip-172-31-87-241:~$ inxi -C
CPU:
  Info: single core model: Intel Xeon E5-2676 v3 bits: 64 cache: L2: 256 KiB
  Speed (MHz): 2400 min/max: N/A core: 1: 2400
ubuntu@ip-172-31-87-241:~$ |
```

```
ubuntu@ip-172-31-87-241:~$ lshw-topology
-----
CPU name:      Intel(R) Xeon(R) CPU E5-2676 v3 @ 2.40GHz
CPU type:      Intel Xeon Haswell EN/EP/EX processor
CPU stepping:  2
*****
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:         30 MB
Cache groups: ( 0 )
-----
*****
NUMA Topology
*****
NUMA domains: 1
-----
Domain:       0
Processors:   ( 0 )
Distances:    10
Free memory:  104.285 MB
Total memory: 966.203 MB
-----
ubuntu@ip-172-31-87-241:~$ |
```

```

ubuntu@ip-172-31-87-241:~$ 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 E5-2676 v3 @ 2.40GHz
CPU family:             6
Model:                 63
Thread(s) per core:    1
Core(s) per socket:    1
Socket(s):              1
Stepping:               2
BogoMIPS:               4799.99
Flags:                  fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mc
                        a cmov pat pse36 clflush mmx fxsr sse sse2 ht syscall n
                        x rdtscp lm constant_tsc rep_good nopl xtopology cpuid
                        tsc_known_freq pni pclmulqdq ssse3 fma cx16 pcid sse4_1
                        sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsav
                        e avx f16c rdrand hypervisor lahf_lm abm cpuid_fault in
                        vpcid_single pti fsgsbase bmi1 avx2 smep bmi2 erms invp
                        cid 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:                    30 MiB (1 instance)
NUMA:
NUMA node(s):          1
NUMA node0 CPU(s):     0
Vulnerabilities:
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 store bypass:     Vulnerable
Spectre v1:            Mitigation; usercopy/swapgs barriers and __user pointer
                        sanitization
Spectre v2:            Mitigation; Retpolines, STIBP disabled, RSB filling
Srbds:                 Not affected
Tsx async abort:       Not affected
ubuntu@ip-172-31-87-241:~$ |

```

```
ubuntu@ip-172-31-87-241:~$ lshw
WARNING: you should run this program as super-user.
ip-172-31-87-241
  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 E5-2676 v3 @ 2.40GHz
  vendor: Intel Corp.
  physical id: 1
  bus info: cpu@0
  version: 6.63.2
  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 tsc_known_freq pni pclmulqdq s
sse3 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
  configuration: microcode=73
*-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
```

```
ubuntu@ip-172-31-87-241:~$ lstopo
Machine (966MB total)
  Package L#0
    NUMANode L#0 (P#0 966MB)
      L3 L#0 (30MB) + 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-172-31-87-241:~$ |
```