

Lshw

Install

```
yum install lshw
apt-get install lshw
```



EPEL repository may need to be enabled to install lshw.

Google Cloud examples:

```
[root@db01 ~]# lshw -short
H/W path      Device      Class      Description
=====
                system      Google
/0              bus          Motherboard
/0/0            memory       96KiB BIOS
/0/401          processor    Intel(R) Xeon(R) CPU @ 2.30GHz
/0/1000         memory       3840MiB System Memory
/0/1000/0       memory       3840MiB DIMM RAM
/0/1            bridge       82371AB/EB/MB PIIX4 ISA
/0/1.3          bridge       82371AB/EB/MB PIIX4 ACPI
/0/3            generic      Virtio SCSI
/0/4            eth0         network     Virtio network device
/0/2            scsi0        storage
/0/2/0.1.0      /dev/sda     disk        10GB PersistentDisk
/0/2/0.1.0/1    /dev/sda1    volume      10238MiB Linux filesystem partition
```

output by HW type

```
root@noc01:~# lshw -short -class memory
H/W path      Device      Class      Description
=====
/0/0            memory       96KiB BIOS
/0/1000         memory       7680MiB System Memory
/0/1000/0       memory       7680MiB DIMM RAM

root@noc01:~# lshw -short -class processor
H/W path      Device      Class      Description
=====
/0/401          processor    Intel(R) Xeon(R) CPU @ 2.30GHz
/0/402          processor    CPU
```

Amazon Web Services

```
[root@jira ~]# lshw -short
H/W path    Device  Class        Description
=====
                system      HVM domU
/0           bus       Motherboard
/0/0         memory    96KiB BIOS
/0/1         processor Intel(R) Xeon(R) CPU E5-2670 v2 @ 2.50GHz
/0/2         memory    System Memory
/0/2/0       memory    1GiB DIMM RAM
/0/2/1       memory    1GiB DIMM RAM
/0/3         memory    96KiB BIOS
/0/4         processor CPU
/0/5         memory    System Memory
/0/6         memory
/0/7         memory
/0/100       bridge    440FX - 82441FX PMC [Natoma]
/0/100/1     bridge    82371SB PIIX3 ISA [Natoma/Triton II]
/0/100/1.1   storage   82371SB PIIX3 IDE [Natoma/Triton II]
/0/100/1.3   bridge    82371AB/EB/MB PIIX4 ACPI
/0/100/2     display   GD 5446
/0/100/3     generic   Xen Platform Device
/1           eth0      network      Ethernet interface
```

another server

```
root@noc01:~# lshw -short
H/W path    Device  Class        Description
=====
                system      Google ()
/0           bus       Motherboard
/0/0         memory    96KiB BIOS
/0/401       processor Intel(R) Xeon(R) CPU @ 2.30GHz
/0/402       processor CPU
/0/1000      memory    7680MiB System Memory
/0/1000/0    memory    7680MiB DIMM RAM
/0/1         bridge    82371AB/EB/MB PIIX4 ISA
/0/1.3       bridge    82371AB/EB/MB PIIX4 ACPI
/0/3         generic   Virtio SCSI
/0/4         eth0      network      Virtio network device
/0/2         scsi0     storage
/0/2/0.1.0   /dev/sda disk        10GB PersistentDisk
/0/2/0.1.0/1 /dev/sda1 volume    10239MiB EXT4 volume
```

Full Output

Full Output example

```
root@noc01:~# lshw
noc01
  description: Computer
  product: Google ()
  vendor: Google
  serial: GoogleCloud-3CAEC48F07050708ED825EF2FE0E23C4
  width: 64 bits
  capabilities: smbios-2.4 dmi-2.4 vsyscall32
  configuration: boot=normal uuid=3CAEC48F-0705-0708-ED82-5EF2FE0E23C4
*-core
  description: Motherboard
  physical id: 0
*-firmware
  description: BIOS
  vendor: Google
```

```
physical id: 0
version: Google
date: 01/01/2011
size: 96KiB
*-cpu:0
  description: CPU
  product: Intel(R) Xeon(R) CPU @ 2.30GHz
  vendor: Intel Corp.
  physical id: 401
  bus info: cpu@0
  slot: CPU 1
  size: 2GHz
  capacity: 2GHz
  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 ss ht syscall nx pdpe1gb rdtscp x86-64 constant_tsc nopl xtopology eagerfpu pni
pclmulqdq ssse3 fma cx16 sse4_1 sse4_2 x2apic movbe popcnt aes xsave avx f16c rdrand hypervisor lahf_lm abm
xsaveopt fsgsbase bml avx2 smep bmi2
*-cpu:1
  description: CPU
  vendor: Google
  physical id: 402
  bus info: cpu@1
  slot: CPU 2
  size: 2GHz
  capacity: 2GHz
*-memory
  description: System Memory
  physical id: 1000
  size: 7680MiB
  *-bank
    description: DIMM RAM
    physical id: 0
    slot: DIMM 0
    size: 7680MiB
    width: 64 bits
*-isa
  description: ISA bridge
  product: 82371AB/EB/MB PIIX4 ISA
  vendor: Intel Corporation
  physical id: 1
  bus info: pci@0000:00:01.0
  version: 03
  width: 32 bits
  clock: 33MHz
  capabilities: isa
  configuration: latency=0
*-bridge UNCLAIMED
  description: Bridge
  product: 82371AB/EB/MB PIIX4 ACPI
  vendor: Intel Corporation
  physical id: 1.3
  bus info: pci@0000:00:01.3
  version: 03
  width: 32 bits
  clock: 33MHz
  capabilities: bridge
  configuration: latency=0
*-generic
  description: Non-VGA unclassified device
  product: Virtio SCSI
  vendor: Red Hat, Inc
  physical id: 3
  bus info: pci@0000:00:03.0
  version: 00
  width: 32 bits
  clock: 33MHz
  capabilities: msix bus_master cap_list
  configuration: driver=virtio-pci latency=0
  resources: irq:11 ioport:c000(size=64) memory:febfe000-febfe07f
*-network
```

```

description: Ethernet interface
product: Virtio network device
vendor: Red Hat, Inc
physical id: 4
bus info: pci@0000:00:04.0
logical name: eth0
version: 00
serial: 42:01:0a:f0:a0:cc
width: 32 bits
clock: 33MHz
capabilities: msix bus_master cap_list ethernet physical
configuration: broadcast=yes driver=virtio_net driverversion=1.0.0 ip=10.240.160.204 latency=0
link=yes multicast=yes
resources: irq:10 ioport:c040(size=64) memory:febff000-febff07f
*-scsi
    physical id: 2
    logical name: scsi0
*-disk
    description: SCSI Disk
    product: PersistentDisk
    vendor: Google
    physical id: 0.1.0
    bus info: scsi@0:0.1.0
    logical name: /dev/sda
    version: 1
    size: 10GiB (10GB)
    capabilities: partitioned partitioned:dos
    configuration: ansiversion=6 sectorsize=4096 signature=000ca37e
*-volume
    description: EXT4 volume
    vendor: Linux
    physical id: 1
    bus info: scsi@0:0.1.0,1
    logical name: /dev/sda1
    logical name: /
    version: 1.0
    serial: dldafa85-9814-47b2-82e2-7b96783380ec
    size: 10239MiB
    capacity: 10239MiB
    capabilities: primary bootable journaled extended_attributes large_files huge_files dir_nlink
recover extents ext4 ext2 initialized
    configuration: created=2015-03-16 18:41:35 filesystem=ext4 label=cloudimg-rootfs
lastmountpoint=/ modified=2015-03-19 09:17:28 mount.fstype=ext4 mount.options=rw,relatime,data=ordered
mounted=2015-03-30 17:02:04 state=mounted

```

Alternative: [dmidecode](#)