

## Atividade 06

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01: Para visualizar os recursos (processador, memória, processos em execução, etc) de uma instância, instale o “htop” usando o comando “sudo yum install htop”:

```
[ec2-user@ip-172-31-31-53 ~]$ sudo yum install htop
Amazon Linux 2023 Kernel Livepatch repository                               257 kB/s | 29 kB    00:00
Dependencies resolved.
=====
Package                        Architecture      Version           Repository         Size
=====
Installing:
htop                           x86_64            3.2.1-87.amzn2023.0.3  amazonlinux        183 k
=====
Transaction Summary
=====
Install 1 Package

Total download size: 183 k
Installed size: 432 k
Is this ok [y/N]: y
Downloading Packages:
htop-3.2.1-87.amzn2023.0.3.x86_64.rpm                                     3.8 MB/s | 183 kB    00:00
-----
Total                                                                    2.3 MB/s | 183 kB    00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing                : htop-3.2.1-87.amzn2023.0.3.x86_64                1/1
  Installing               : htop-3.2.1-87.amzn2023.0.3.x86_64                1/1
  Running scriptlet        : htop-3.2.1-87.amzn2023.0.3.x86_64                1/1
  Verifying                : htop-3.2.1-87.amzn2023.0.3.x86_64                1/1

Installed:
  htop-3.2.1-87.amzn2023.0.3.x86_64

Complete!
[ec2-user@ip-172-31-31-53 ~]$ htop
```

02: Digite “htop” e pressione <enter> para ver o uso dos recursos da máquina

```
ec2-user@ip-172-31-31-53:~
CPU[|||||] 10.2% Tasks: 30, 13 thr, 67 kthr; 1 running
Mem[|||||] 121M/949M Load average: 0.03 0.03 0.00
Swp[ ] 0K/0K Uptime: 01:10:05

Main T/O
PID USER PRI NI VIRT RES SHR S CPU% MEM% TIME+ Command
1 root 20 0 184M 17312 10672 S 0.0 1.8 0:00.89 /usr/lib/systemd/systemd --switched-root --system --deserialize=32
1694 root 20 0 53600 15032 13900 S 0.0 1.5 0:00.21 /usr/lib/systemd/systemd-journald
1767 root 20 0 32372 11468 8312 S 0.0 1.2 0:00.06 /usr/lib/systemd/systemd-udev
1772 systemd-re 20 0 22552 15012 11524 S 0.0 1.5 0:00.04 /usr/lib/systemd/systemd-resolved
1794 root 16 -4 21184 2296 1536 S 0.0 0.2 0:00.01 /sbin/auditd
1795 root 16 -4 21184 2296 1536 S 0.0 0.2 0:00.00 /sbin/auditd
1967 root 20 0 16352 6316 5432 S 0.0 0.6 0:00.00 /usr/bin/systemd-inhibit --what=handle-suspend-key:handle-hibernate-key --who=noah --why=acpi
1970 libstorage 20 0 2772 1932 1768 S 0.0 0.2 0:00.01 /usr/bin/lsm -d
1973 root 20 0 16836 7892 6900 S 0.0 0.8 0:00.01 /usr/lib/systemd/systemd-homed
1974 root 20 0 18696 9908 7684 S 0.0 1.0 0:00.04 /usr/lib/systemd/systemd-logind
1975 dbus 20 0 8484 4016 3412 S 0.0 0.4 0:00.01 /usr/bin/dbus-broker-launch --scope system --audit
1979 systemd-ne 20 0 231M 9784 8476 S 0.0 1.0 0:00.04 /usr/lib/systemd/systemd-network
1999 dbus 20 0 5380 2824 2372 S 0.0 0.3 0:00.03 dbus-broker --log 4 --controller 9 --machine-id ec27bb7123e4b43148e6998ae9ed2765 --max-bytes
2001 root 20 0 2684 1136 1048 S 0.0 0.1 0:00.00 /usr/sbin/acpid -f
2003 root 20 0 275M 3656 2764 S 0.0 0.4 0:00.04 /usr/sbin/gssproxy -D
2004 root 20 0 275M 3656 2764 S 0.0 0.4 0:00.00 /usr/sbin/gssproxy -D
2005 root 20 0 275M 3656 2764 S 0.0 0.4 0:00.00 /usr/sbin/gssproxy -D
2006 root 20 0 275M 3656 2764 S 0.0 0.4 0:00.00 /usr/sbin/gssproxy -D
2007 root 20 0 275M 3656 2764 S 0.0 0.4 0:00.00 /usr/sbin/gssproxy -D
2008 root 20 0 275M 3656 2764 S 0.0 0.4 0:00.00 /usr/sbin/gssproxy -D
2131 root 20 0 1211M 18676 10536 S 0.0 1.9 0:00.33 /usr/bin/amazon-ssm-agent
2136 root 20 0 14376 8532 7324 S 0.0 0.9 0:00.01 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups
2142 root 20 0 4764 2552 2368 S 0.0 0.3 0:00.00 /usr/sbin/atd -f
2143 root 20 0 216M 1972 984 S 0.0 0.1 0:00.04 /sbin/agetty -o -p -- \u --noclear - linux
2144 root 20 0 216M 1980 984 S 0.0 0.1 0:00.00 /sbin/agetty -o -p -- \u --keep-baud 115200,57600,38400,9600 - vt220
2155 root 20 0 1211M 18676 10536 S 0.0 1.9 0:00.01 /usr/bin/amazon-ssm-agent
2156 root 20 0 1211M 18676 10536 S 0.0 1.9 0:00.00 /usr/bin/amazon-ssm-agent
2157 root 20 0 1211M 18676 10536 S 0.0 1.9 0:00.10 /usr/bin/amazon-ssm-agent
2161 root 20 0 1211M 18676 10536 S 0.0 1.9 0:00.15 /usr/bin/amazon-ssm-agent
2167 chrony 20 0 86452 3876 2188 S 0.0 0.4 0:00.10 /usr/sbin/chronyd -F 2
2171 root 20 0 1211M 18676 10536 S 0.0 1.9 0:00.00 /usr/bin/amazon-ssm-agent
2174 root 20 0 1211M 18676 10536 S 0.0 1.9 0:00.04 /usr/bin/amazon-ssm-agent

1 Help F2 Setup F3 Search F4 Filter F5 Tree F6 Sort By F7 Nice F8 Nice F9 Kill F10 Quit
```

03: Instale o compilador C, digitando “sudo yum install gcc”:

```
Installing...
gcc x86_64 11.5.0-5.amzn2023.0.5 amazonlinux 36 M
Installing dependencies:
annobin-docs noarch 12.69-1.amzn2023.0.1 amazonlinux 93 k
annobin-plugin-gcc x86_64 12.69-1.amzn2023.0.1 amazonlinux 974 k
cpp x86_64 11.5.0-5.amzn2023.0.5 amazonlinux 11 M
gc x86_64 8.0.4-5.amzn2023.0.2 amazonlinux 105 k
gcc-plugin-annobin x86_64 11.5.0-5.amzn2023.0.5 amazonlinux 38 k
glibc-devel x86_64 2.34-231.amzn2023.0.1 amazonlinux 38 k
glibc-headers-x86 noarch 2.34-231.amzn2023.0.1 amazonlinux 444 k
guile22 x86_64 2.2.7-2.amzn2023.0.3 amazonlinux 6.4 M
kernel-headers x86_64 1:6.1.158-178.288.amzn2023 amazonlinux 1.4 M
libmpc x86_64 1.2.1-2.amzn2023.0.2 amazonlinux 62 k
libtool-ltdl x86_64 2.4.7-1.amzn2023.0.3 amazonlinux 38 k
libxcrypt-devel x86_64 4.4.33-7.amzn2023 amazonlinux 32 k
make x86_64 1:4.3-5.amzn2023.0.2 amazonlinux 534 k

Transaction Summary
=====
Install 14 Packages

Total download size: 57 M
Installed size: 182 M
Is this ok [y/N]: y
Downloading Packages:
(1/14): annobin-docs-12.69-1.amzn2023.0.1.noarch.rpm 2.1 MB/s | 93 kB 00:00
(2/14): annobin-plugin-gcc-12.69-1.amzn2023.0.1.x86_64.rpm 16 MB/s | 974 kB 00:00
(3/14): gcc-8.0.4-5.amzn2023.0.2.x86_64.rpm 3.7 MB/s | 105 kB 00:00
(4/14): gcc-plugin-annobin-11.5.0-5.amzn2023.0.5.x86_64.rpm 1.8 MB/s | 38 kB 00:00
(5/14): glibc-devel-2.34-231.amzn2023.0.1.x86_64.rpm 1.5 MB/s | 38 kB 00:00
(6/14): glibc-headers-x86-2.34-231.amzn2023.0.1.noarch.rpm 8.1 MB/s | 444 kB 00:00
(7/14): cpp-11.5.0-5.amzn2023.0.5.x86_64.rpm 32 MB/s | 11 MB 00:00
(8/14): kernel-headers-6.1.158-178.288.amzn2023.x86_64.rpm 14 MB/s | 1.4 MB 00:00
(9/14): libmpc-1.2.1-2.amzn2023.0.2.x86_64.rpm 2.4 MB/s | 62 kB 00:00
(10/14): guile22-2.2.7-2.amzn2023.0.3.x86_64.rpm 20 MB/s | 6.4 MB 00:00
(11/14): libtool-ltdl-2.4.7-1.amzn2023.0.3.x86_64.rpm 1.0 MB/s | 38 kB 00:00
(12/14): libxcrypt-devel-4.4.33-7.amzn2023.x86_64.rpm 1.0 MB/s | 32 kB 00:00
(13/14): make-4.3-5.amzn2023.0.2.x86_64.rpm 12 MB/s | 534 kB 00:00
(14/14): gcc-11.5.0-5.amzn2023.0.5.x86_64.rpm 51 MB/s | 36 MB 00:00
Total 71 MB/s | 57 MB 00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing : 1/1
Installing : libmpc-1.2.1-2.amzn2023.0.2.x86_64 1/14
Installing : cpp-11.5.0-5.amzn2023.0.5.x86_64 2/14
```

04:

Digite “nano” e pressione <enter> para abrir o editor de textos:

```
ec2-user@ip-172-31-31-53:~$ nano
int main()
{
    printf("niello world!\n");
    return 0;
}
^
```

Help Write Out Where Is Cut Execute Location Undo Set Mark To Bracket Previous Back Prev Word  
Home Exitline Read File Replace Paste Justify Go To Line Redo Copy Where Was Next Forward Next Word  
End  
Cancels File Name to Write: teste.c DOS Format Append  
No Mac Format Prepend

05:

```
ec2-user@ip-172-31-31-53:~  
Installing      : cpp-11.5.0-5.amzn2023.0.5.x86_64                                2/14  
Installing      : libtool-ltdl-2.4.7-1.amzn2023.0.3.x86_64                      3/14  
Installing      : kernel-headers-1:6.1.158-178.288.amzn2023.x86_64              4/14  
Installing      : glibc-headers-x86-2.34-231.amzn2023.0.1.noarch                5/14  
Installing      : libxcrypt-devel-4.4.33-7.amzn2023.x86_64                     6/14  
Installing      : glibc-devel-2.34-231.amzn2023.0.1.x86_64                    7/14  
Installing      : gc-8.0.4-5.amzn2023.0.2.x86_64                              8/14  
Installing      : guile22-2.2.7-2.amzn2023.0.3.x86_64                         9/14  
Installing      : make-1:4.3-5.amzn2023.0.2.x86_64                           10/14  
Installing      : gcc-11.5.0-5.amzn2023.0.5.x86_64                           11/14  
Running scriptlet: gcc-11.5.0-5.amzn2023.0.5.x86_64                           11/14  
Installing      : annobin-docs-12.69-1.amzn2023.0.1.noarch                    12/14  
Installing      : annobin-plugin-gcc-12.69-1.amzn2023.0.1.x86_64              13/14  
Running scriptlet: annobin-plugin-gcc-12.69-1.amzn2023.0.1.x86_64              13/14  
Installing      : gcc-plugin-annobin-11.5.0-5.amzn2023.0.5.x86_64             14/14  
Running scriptlet: gcc-plugin-annobin-11.5.0-5.amzn2023.0.5.x86_64             14/14  
Verifying       : annobin-docs-12.69-1.amzn2023.0.1.noarch                    1/14  
Verifying       : annobin-plugin-gcc-12.69-1.amzn2023.0.1.x86_64              2/14  
Verifying       : cpp-11.5.0-5.amzn2023.0.5.x86_64                          3/14  
Verifying       : gc-8.0.4-5.amzn2023.0.2.x86_64                            4/14  
Verifying       : gcc-11.5.0-5.amzn2023.0.5.x86_64                          5/14  
Verifying       : gcc-plugin-annobin-11.5.0-5.amzn2023.0.5.x86_64             6/14  
Verifying       : glibc-devel-2.34-231.amzn2023.0.1.x86_64                  7/14  
Verifying       : glibc-headers-x86-2.34-231.amzn2023.0.1.noarch              8/14  
Verifying       : guile22-2.2.7-2.amzn2023.0.3.x86_64                      9/14  
Verifying       : kernel-headers-1:6.1.158-178.288.amzn2023.x86_64          10/14  
Verifying       : libmpc-1.2.1-2.amzn2023.0.2.x86_64                       11/14  
Verifying       : libtool-ltdl-2.4.7-1.amzn2023.0.3.x86_64                  12/14  
Verifying       : libxcrypt-devel-4.4.33-7.amzn2023.x86_64                  13/14  
Verifying       : make-1:4.3-5.amzn2023.0.2.x86_64                          14/14  
  
Installed:  
annobin-docs-12.69-1.amzn2023.0.1.noarch      annobin-plugin-gcc-12.69-1.amzn2023.0.1.x86_64      cpp-11.5.0-5.amzn2023.0.5.x86_64  
gc-8.0.4-5.amzn2023.0.2.x86_64                gcc-11.5.0-5.amzn2023.0.5.x86_64                  gcc-plugin-annobin-11.5.0-5.amzn2023.0.5.x86_64  
glibc-devel-2.34-231.amzn2023.0.1.x86_64      glibc-headers-x86-2.34-231.amzn2023.0.1.noarch      guile22-2.2.7-2.amzn2023.0.3.x86_64  
kernel-headers-1:6.1.158-178.288.amzn2023.x86_64  libmpc-1.2.1-2.amzn2023.0.2.x86_64                  libtool-ltdl-2.4.7-1.amzn2023.0.3.x86_64  
libxcrypt-devel-4.4.33-7.amzn2023.x86_64      make-1:4.3-5.amzn2023.0.2.x86_64  
  
Complete!  
[ec2-user@ip-172-31-31-53 ~]$ nano  
[ec2-user@ip-172-31-31-53 ~]$ |
```

06:

```
[ec2-user@ip-172-31-31-53 ~]$ ^C  
[ec2-user@ip-172-31-31-53 ~]$ nano teste.c  
[ec2-user@ip-172-31-31-53 ~]$ gcc teste.c -o teste  
[ec2-user@ip-172-31-31-53 ~]$ ./teste  
  
Hello world!  
[ec2-user@ip-172-31-31-53 ~]$ sudo shutdown -h now  
  
Broadcast message from root@localhost on pts/3 (Thu 2025-11-20 00:21:44 UTC):  
  
The system will power off now!  
  
[ec2-user@ip-172-31-31-53 ~]$ Connection to ec2-3-80-50-24.compute-1.amazonaws.com closed by remote host.  
Connection to ec2-3-80-50-24.compute-1.amazonaws.com closed.  
  
C:\Users\comer\Downloads>
```

```
| ^  
[ec2-user@ip-172-31-31-53 ~]$ ^C  
[ec2-user@ip-172-31-31-53 ~]$ nano teste.c  
[ec2-user@ip-172-31-31-53 ~]$ gcc teste.c -o teste  
[ec2-user@ip-172-31-31-53 ~]$ ./teste  
  
Hello world!  
[ec2-user@ip-172-31-31-53 ~]$ |
```