```
A instalar libdecor-0-plugin-1-cairo:amd64 (0.1.0-3build1) ...
A instalar librsvg2-common:amd64 (2.52.5+dfsg-3ubuntu0.2) ...
A instalar libgdk-pixbuf2.0-bin (2.42.8+dfsg-1ubuntu0.2) ...
A instalar adwaita-icon-theme (41.0-1ubuntu1) ...
update-alternatives: a usar /usr/share/icons/Adwaita/cursor.theme para disponibilizar /usr/share/ico
ns/default/index.theme (x-cursor-theme) em modo auto
A instalar humanity-icon-theme (0.6.16) ...
A instalar ubuntu-mono (20.10-0ubuntu2) ...
A processar 'triggers' para man-db (2.10.2-1) ...
A processar 'triggers' para dbus (1.12.20-2ubuntu4.1) ...
A processar 'triggers' para libglib2.0-0:amd64 (2.72.4-0ubuntu2.2) ...
A instalar libgtk-3-0:amd64 (3.24.33-1ubuntu2) ...
A processar 'triggers' para libc-bin (2.35-0ubuntu3.1) ...
A instalar libgtk-3-bin (3.24.33-1ubuntu2) ...
A instalar libvte-2.91-0:amd64 (0.68.0-1) ...
A instalar at-spi2-core (2.44.0-3) ...
A instalar glib-networking:amd64 (2.72.0-1) ...
A instalar libsoup2.4-1:amd64 (2.74.2-3) ...
A instalar qemu-system-gui (1:6.2+dfsg-2ubuntu6.12) ...
A instalar gstreamer1.0-plugins-good:amd64 (1.20.3-0ubuntu1.1) ...
A processar 'triggers' para libgdk-pixbuf-2.0-0:amd64 (2.42.8+dfsg-1ubuntu0.2) ...
A processar 'triggers' para libc-bin (2.35-0ubuntu3.1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
asr@lab:~$ grep -E -c "vmx|svm" /proc/cpuinfo
4
asr@lab:~$ _
```

```
A processar 'triggers' para libglib2.0-0:amd64 (2.72.4-0ubuntu2.2) ...
A instalar libgtk-3-0:amd64 (3.24.33-1ubuntu2) ...
A processar 'triggers' para libc-bin (2.35-0ubuntu3.1) ...
A instalar libgtk-3-bin (3.24.33-1ubuntu2) ...
A instalar libvte-2.91-0:amd64 (0.68.0-1) ...
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A instalar libsoup2.4-1:amd64 (2.74.2-3) ...
A instalar qemu-system-gui (1:6.2+dfsg-2ubuntu6.12) ...
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A processar 'triggers' para libgdk-pixbuf-2.0-0:amd64 (2.42.8+dfsg-1ubuntu0.2) ...
A processar 'triggers' para libc-bin (2.35-0ubuntu3.1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
asr@lab:~$ grep -E -c "vmx|svm" /proc/cpuinfo
4
asr@lab:~$ sudo apt-get install qemu-kvm libvirt-clients libvirt-daemon-system bridge-utils
A ler as listas de pacotes... Pronto
A construir árvore de dependências... Pronto
A ler a informação de estado... Pronto
Note, a seleccionar 'qemu-system-x86' em vez de 'qemu-kvm'
bridge-utils is already the newest version (1.7-1ubuntu3).
libvirt-clients is already the newest version (8.0.0-1ubuntu7.6).
libvirt-daemon-system is already the newest version (8.0.0-1ubuntu7.6).
qemu-system-x86 is already the newest version (1:6.2+dfsg-2ubuntu6.12).
0 pacotes actualizados, 0 pacotes novos instalados, 0 a remover e 0 não actualizados.
asr@lab:~$
```

```
asr@lab:~$ usermod -aG libvirt $asr
Usage: usermod [options] LOGIN

Options:
  -b, --badnames               allow bad names
  -c, --comment COMMENT        new value of the GECOS field
  -d, --home HOME_DIR          new home directory for the user account
  -e, --expiredate EXPIRE_DATE set account expiration date to EXPIRE_DATE
  -f, --inactive INACTIVE      set password inactive after expiration
                               to INACTIVE
  -g, --gid GROUP              force use GROUP as new primary group
  -G, --groups GROUPS          new list of supplementary GROUPS
  -a, --append                 append the user to the supplemental GROUPS
                               mentioned by the -G option without removing
                               the user from other groups
  -h, --help                   display this help message and exit
  -l, --login NEW_LOGIN        new value of the login name
  -L, --lock                   lock the user account
  -m, --move-home              move contents of the home directory to the
                               new location (use only with -d)
  -o, --non-unique             allow using duplicate (non-unique) UID
  -p, --password PASSWORD      use encrypted password for the new password
  -R, --root CHROOT_DIR        directory to chroot into
  -P, --prefix PREFIX_DIR      prefix directory where are located the /etc/* files
  -s, --shell SHELL            new login shell for the user account
  -u, --uid UID                new UID for the user account
  -U, --unlock                 unlock the user account
  -v, --add-subuids FIRST-LAST add range of subordinate uids
  -V, --del-subuids FIRST-LAST remove range of subordinate uids
  -w, --add-subgids FIRST-LAST add range of subordinate gids
  -W, --del-subgids FIRST-LAST remove range of subordinate gids
  -Z, --selinux-user SEUSER    new SELinux user mapping for the user account

asr@lab:~$ sudo usermod -aG libvirt $USER
[sudo] password for asr:
asr@lab:~$ sudo usermod -aG kvm $USER
asr@lab:~$ _
```