









































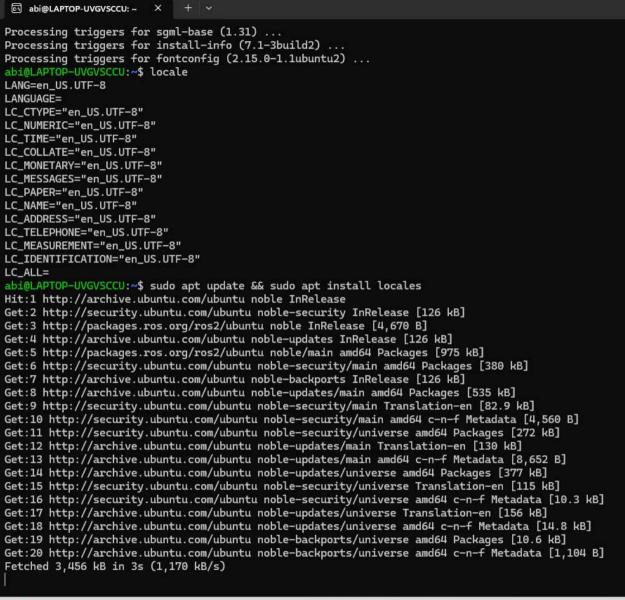








o x



































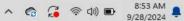








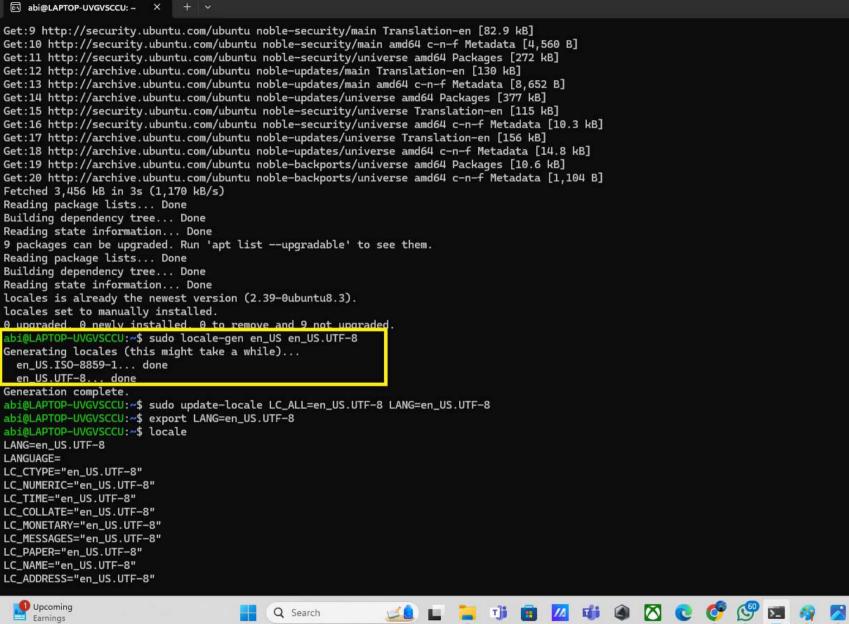






o









































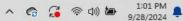














o



```
locales set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 9 not upgraded.
abi@LAPTOP-UVGVSCCU:~$ sudo locale-gen en_US en_US.UTF-8
Generating locales (this might take a while)...
  en_US.ISO-8859-1... done
  en_US.UTF-8... done
Generation complete.
abi@LAPTOP-UVGVSCCU:~$ sudo update-locale LC_ALL=en_US.UTF-8 LANG=en_US.UTF-8
abi@LAPTOP-UVGVSCCU:~$ export LANG=en US.UTF-8
 abi@LAPTOP-UVGVSCCU:~$ locale
LANG=en_US.UTF-8
LANGUAGE=
LC CTYPE="en US.UTF-8"
LC_NUMERIC="en_US.UTF-8"
LC_TIME="en_US.UTF-8"
LC_COLLATE="en_US.UTF-8"
LC_MONETARY="en_US.UTF-8"
LC_MESSAGES="en_US.UTF-8"
LC_PAPER="en_US.UTF-8"
LC_NAME="en_US.UTF-8"
LC ADDRESS="en US.UTF-8"
LC_TELEPHONE="en_US.UTF-8"
LC_MEASUREMENT="en_US.UTF-8"
LC_IDENTIFICATION="en_US.UTF-8"
LC ALL=
abi@LAPTOP-UVGVSCCU:~$ sudo apt install software-properties-common
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
software-properties-common is already the newest version (0.99.48).
0 upgraded, 0 newly installed, 0 to remove and 9 not upgraded.
abi@LAPTOP-UVGVSCCU:~$ sudo add-apt-repository universe
Adding component(s) 'universe' to all repositories.
Press [ENTER] to continue or Ctrl-c to cancel.
Hit:1 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:2 http://packages.ros.org/ros2/ubuntu noble InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:4 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:5 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
abi@LAPTOP-UVGVSCCU:~$ sudo apt update && sudo apt install curl -v
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
```









































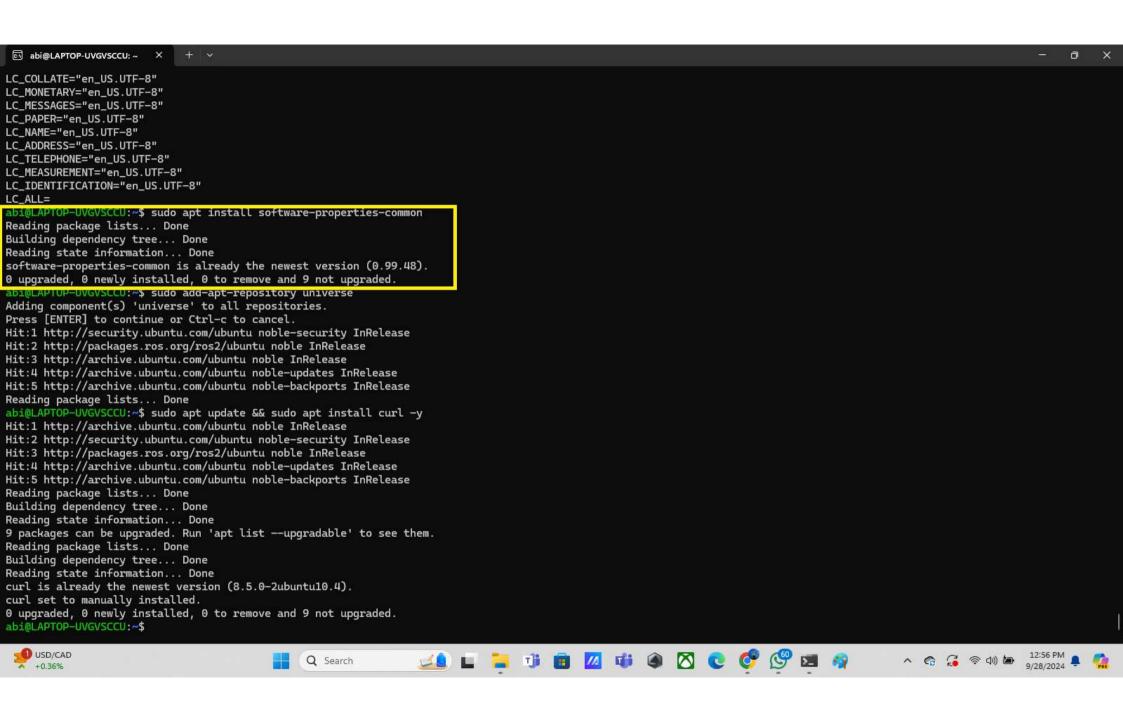


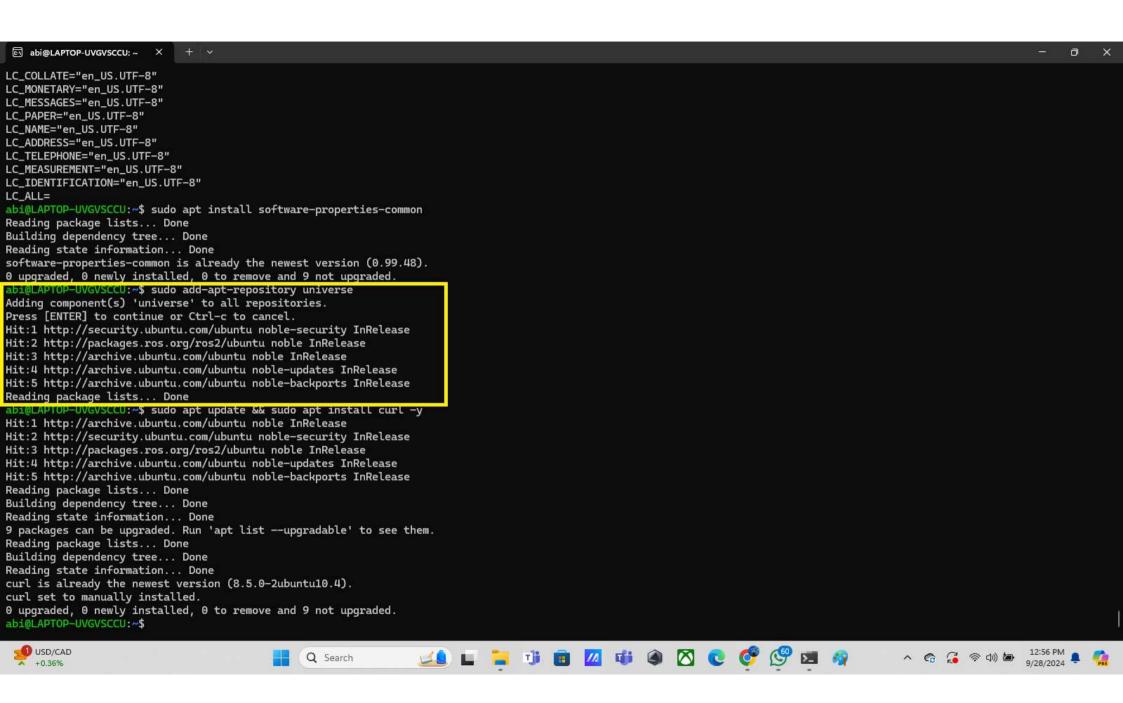


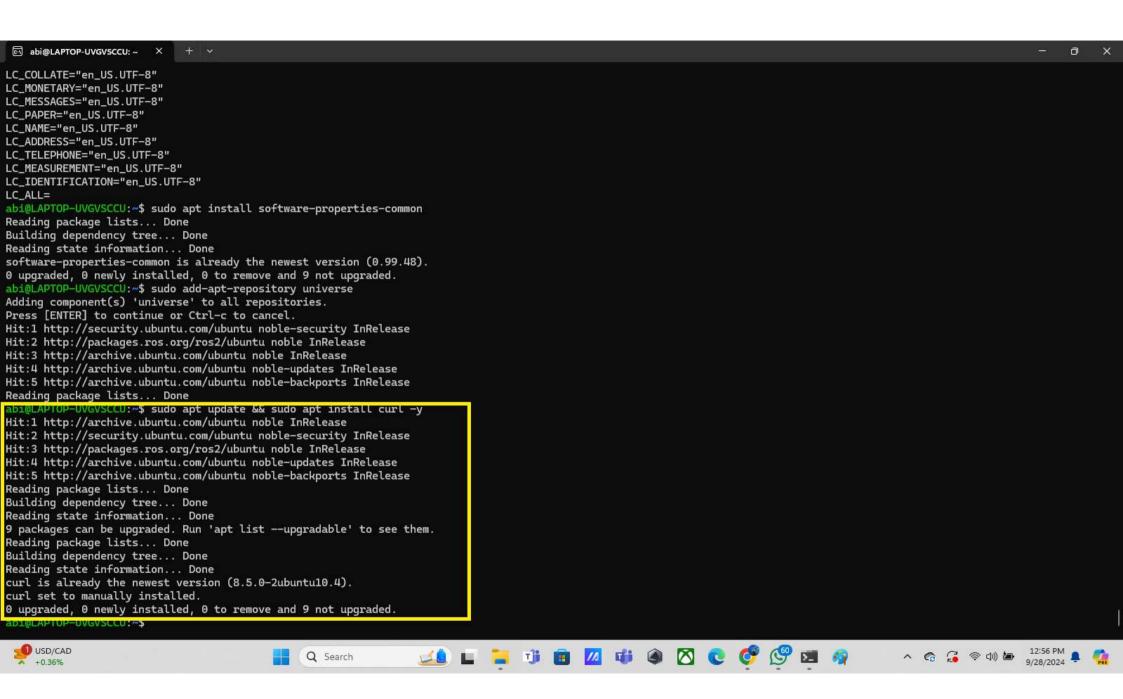


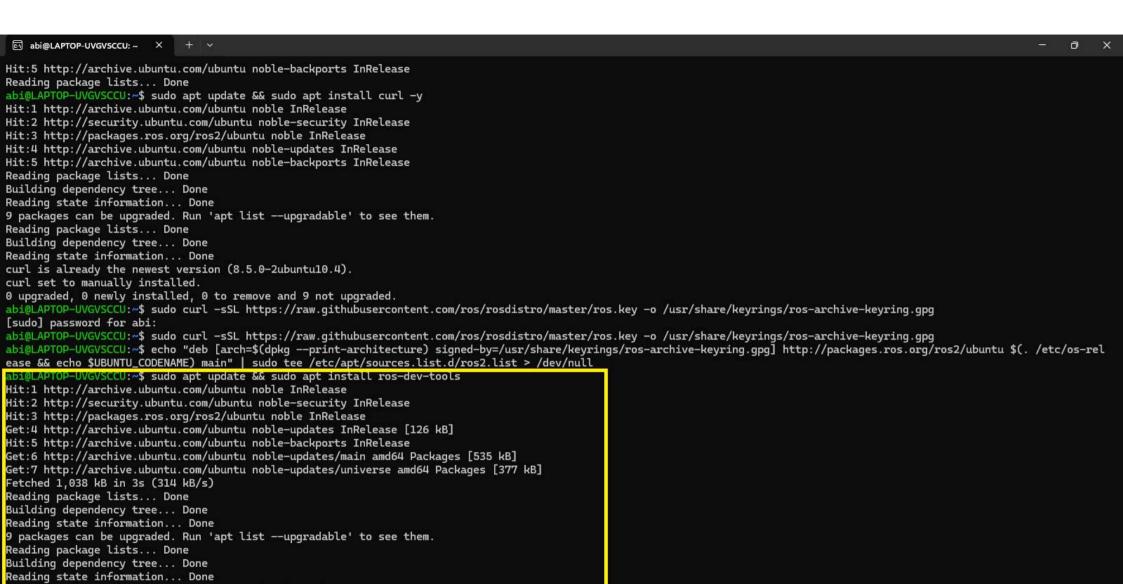














abi@LAPTOP-UVGVSCCU:~\$



ros-dev-tools is already the newest version (1.0.1).

0 upgraded, 0 newly installed, 0 to remove and 9 not upgraded





























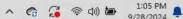






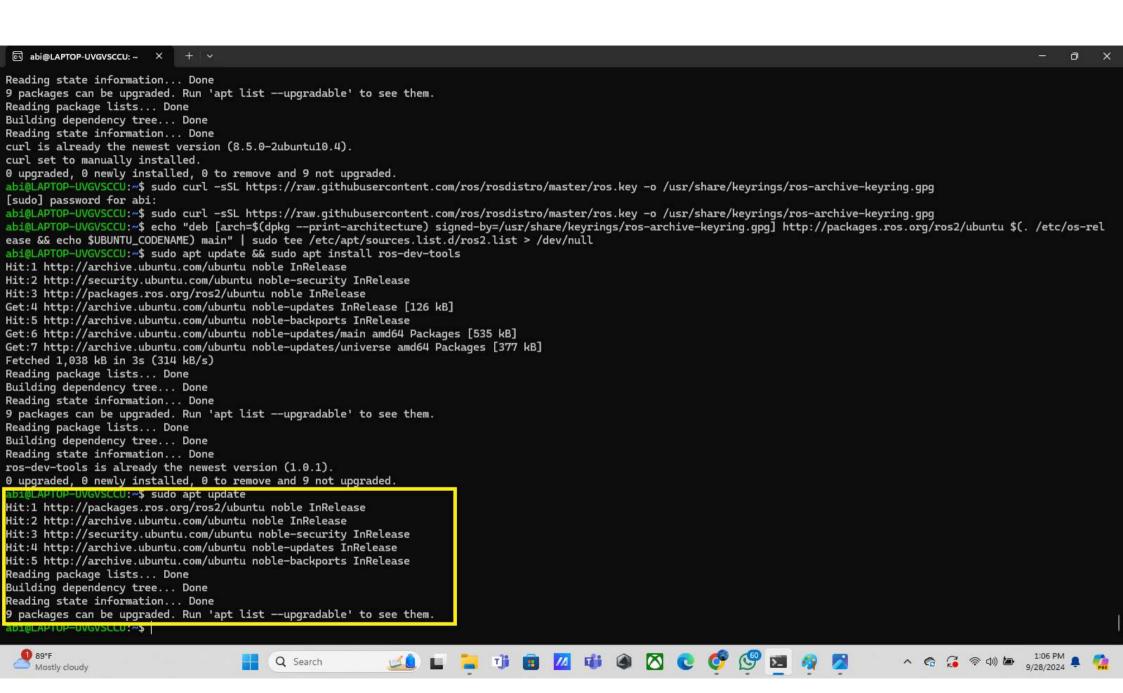












```
abi@LAPTOP-UVGVSCCU: ~
abi@LAPTOP-UVGVSCCU:~$ sudo apt upgrade
Reauting package Lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
# Patches available for packages affected by CUPS Remote Code Execution issue
# tracked by CVE-2024-47076, CVE-2024-47175, CVE-2024-47176, and CVE-2024-47177
# For more see: https://ubuntu.com/blog/cups-remote-code-execution
The following upgrades have been deferred due to phasing:
 python3-distupgrade ubuntu-release-upgrader-core
The following packages will be upgraded:
 cloud-init libapr1t64 libcups2t64 libopenjp2-7 python3-update-manager update-manager-core wsl-setup
7 upgraded, 0 newly installed, 0 to remove and 2 not upgraded.
3 standard LTS security updates
Need to get 1,213 kB of archives.
After this operation, 59.4 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 python3-update-manager all 1:24.04.8 [43.0 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 update-manager-core all 1:24.04.8 [11.6 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libapr1t64 amd64 1.7.2-3.1ubuntu0.1 [108 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libcups2t64 amd64 2.4.7-1.2ubuntu7.3 [272 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 wsl-setup amd64 0.5.4~24.04 [4,002 B]
Get:6 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 cloud-init all 24.3.1-0ubuntu0~24.04.1 [601 kB]
Get:7 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libopenjp2-7 amd64 2.5.0-2ubuntu0.1 [173 kB]
Fetched 1,213 kB in 2s (576 kB/s)
Preconfiguring packages ...
(Reading database ... 55008 files and directories currently installed.)
Preparing to unpack .../0-python3-update-manager_1%3a24.04.8_all.deb ...
Unpacking python3-update-manager (1:24.04.8) over (1:24.04.6) ...
Preparing to unpack .../1-update-manager-core_1%3a24.04.8_all.deb ...
Unpacking update-manager-core (1:24.04.8) over (1:24.04.6) ...
Preparing to unpack .../2-libapr1t64_1.7.2-3.1ubuntu0.1_amd64.deb ...
Unpacking libapr1t64:amd64 (1.7.2-3.1ubuntu0.1) over (1.7.2-3.1build2) ...
Preparing to unpack .../3-libcups2t64_2.4.7-1.2ubuntu7.3_amd64.deb ...
Unpacking libcups2t64:amd64 (2.4.7-1.2ubuntu7.3) over (2.4.7-1.2ubuntu7.2) ...
Preparing to unpack .../4-wsl-setup_0.5.4~24.04_amd64.deb ...
Unpacking wsl-setup (0.5.4~24.04) over (0.5.3~24.04) ...
Preparing to unpack .../5-cloud-init_24.3.1-0ubuntu0~24.04.1_all.deb ...
Unpacking cloud-init (24.3.1-0ubuntu0~24.04.1) over (24.2-0ubuntu1~24.04.2) ...
dpkg: warning: unable to delete old directory '/etc/systemd/system/sshd-keygen@.service.d': Directory not empty
```







































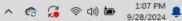














a



```
abi@LAPTOP-UVGVSCCU: ~
Preparing to unpack .../0-python3-update-manager_1%3a24.04.8_all.deb ...
Unpacking python3-update-manager (1:24.04.8) over (1:24.04.6) ...
Preparing to unpack .../1-update-manager-core_1%3a24.04.8_all.deb ...
Unpacking update-manager-core (1:24.04.8) over (1:24.04.6) ...
Preparing to unpack .../2-libapr1t64_1.7.2-3.1ubuntu0.1_amd64.deb ...
Unpacking libapr1t64:amd64 (1.7.2-3.1ubuntu0.1) over (1.7.2-3.1build2) ...
Preparing to unpack .../3-libcups2t64 2.4.7-1.2ubuntu7.3 amd64.deb ...
Unpacking libcups2t64:amd64 (2.4.7-1.2ubuntu7.3) over (2.4.7-1.2ubuntu7.2) ...
Preparing to unpack .../4-wsl-setup 0.5.4~24.04 amd64.deb ...
Unpacking wsl-setup (0.5.4~24.04) over (0.5.3~24.04) ...
Preparing to unpack .../5-cloud-init_24.3.1-0ubuntu0~24.04.1_all.deb ...
Unpacking cloud-init (24.3.1-Oubuntu0~24.04.1) over (24.2-Oubuntu1~24.04.2) ...
dpkg: warning: unable to delete old directory '/etc/systemd/system/sshd-keygen@.service.d': Directory not empty
Preparing to unpack .../6-libopenjp2-7_2.5.0-2ubuntu0.1_amd64.deb ...
Unpacking libopenjp2-7:amd64 (2.5.0-2ubuntu0.1) over (2.5.0-2build3) ...
Setting up wsl-setup (0.5.4~24.04) ...
Installing new version of config file /etc/cloud/cloud.cfg.d/99_wsl.cfg ...
Setting up cloud-init (24.3.1-Oubuntu0~24.04.1) ...
Setting up python3-update-manager (1:24.04.8) ...
Setting up libapr1t64:amd64 (1.7.2-3.1ubuntu0.1) ...
Setting up libopenjp2-7:amd64 (2.5.0-2ubuntu0.1) ...
Setting up libcups2t64:amd64 (2.4.7-1.2ubuntu7.3) ...
Setting up update-manager-core (1:24.04.8) ...
Processing triggers for rsyslog (8.2312.0-3ubuntu9) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-Oubuntu8.3) ...
/sbin/ldconfig.real: /usr/lib/wsl/lib/libcuda.so.1 is not a symbolic link
abi@LAPTOP-UVGVSCCU:~$ sudo apt upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
# Patches available for packages affected by CUPS Remote Code Execution issue
# tracked by CVE-2024-47076, CVE-2024-47175, CVE-2024-47176, and CVE-2024-47177
# For more see: https://ubuntu.com/blog/cups-remote-code-execution
The following upgrades have been deferred due to phasing:
 python3-distupgrade ubuntu-release-upgrader-core
0 upgraded, 0 newly installed, 0 to remove and 2 not upgraded.
abi@LAPTOP-UVGVSCCU:~5
```

















































a



0 upgraded, 0 newly installed, 0 to remove and 2 not upgraded. abi@LAPTOP-UVGVSCCU:~\$ sudo apt install ros-jazzy-desktop

Building dependency tree... Done Reading state information... Done

The following additional packages will be installed:

alsa-topology-conf alsa-ucm-conf babeltrace catch2 cppcheck fonts-liberation2 fonts-lvx gdal-data gdal-plugins gir1.2-ibus-1.0 google-mock googletest graphviz gstreamer1.0-plugins-base i965-va-driver ibverbs-providers intel-media-va-driver isympy-common isympy3 libaacs0 libaec0 libaed-comgr2 libamdhip64-5 libann0 libarmadillo12 libarpack2t64 libasound2-data libasound2-dev libasound2t64 libassimp-dev libassimp5 libasyncns0 libavcodec-dev libavcodec60 libavformat-dev libavformat60 libavutil-dev libavutil58 libbabeltrace1 libbdplus0 libblas3 libblkid-dev libblosc1 libbluray2 libboost-filesystem1.83.0 libboost-iostreams1.83.0 libboost-python1.83.0 libbrotli-dev libbullet-dev libbullet3.24t64 libbz2-dev libcdparanoia0 libcdt5 libcfitsio10t64 libcgraph6 libcharls2 libchromaprint1 libcjson1 libclang1-18 libcodec2-1.2 libconsole-bridge-dev libconsole-bridge1.0 libcurl4-openssl-dev libdav1d7 libdbus-1-dev libdc1394-25 libdc1394-dev libdecor-0-0 libdecor-0-dev libdecor-0-plugin-1-gtk libdeflate-dev libdouble-conversion3 libdraco8 libdrm-dev libeql-dev libeigen3-dev libevdev2 libevent-pthreads-2.1-7t64 libexif-dev libexif-doc libexif12 libexpat1-dev libfabric1 libffi-dev libflac12t64 libfmt-dev libfmt9 libfreetype-dev libfreexl1 libfyba0t64 libgbm-dev libgdal34t64 libgdcm-dev libgdccm3.0t64 libgeos-c1t64 libgeos3.12.1t64 libgeotiff5 libgfortran5 libgif7 libgirepository-2.0-0 libgl-dev libgl1-mesa-dev libgl2ps1.4 libgles-dev libgles1 libgles2 libglew2.2 libglib2.0-dev libglib2.0-dev-bin libglu1-mesa libglu1-mesa-dev libglut3.12 libglvnd-core-dev libglvnd-dev libglx-dev libgme0 libgphoto2-6t64 libgphoto2-dev libgphoto2-l10n libqphoto2-port12t64 libqsm1 libqstreamer-pluqins-base1.0-0 libqtest-dev libqts-0.7-5t64 libqts-bin libqudev-1.0-0 libqvc6 libqvpr2 libhdf4-0-alt libhdf5-103-1t64 libhdf5-hl-100t64 libhsa-runtime64-1 libhsakmt1 libhwloc-pluqins libhwloc15 libhwylt64 libibus-1.0-5 libibus-1.0-dev libibverbs1 libice-dev libice6 libiqdqmm12 libimath-3-1-29t64 libimath-dev libinput-bin libinput10 libjbig-dev libjpeg-dev libjpeg-turbo8-dev libjpeg8-dev libjs-jguery-ui libjs-sphinxdoc libjs-underscore libjxl0.7 libkmlbaselt64 libkmldom1t64 libkmlenginelt64 liblab-gamut1 liblapack3 liblbfgsb0 liblept5 liblerc-dev libllvm18 libltdl7 liblttng-ctl0t64 liblttng-ust-common1t64 liblttng-ust-ctl5t64 liblttng-ust-dev liblttng-ust-python-agent1t64 liblttng-ust1t64 liblz4-dev liblzma-dev libmbedcrypto7t64 libmd4c0 libminizip1t64 libmount-dev libmp3lame0 libmpg123-0t64 libmtdev1t64 libmunge2 libmysglclient21 libnetcdf19t64 libnl-3-200 libnl-route-3-200 libnorm1t64 libnspr4 libnss3 libnuma1 libodbc2 libodbcinst2 libogdi4.1 libogg0 libopencv-calib3d-dev libopencv-calib3d406t64 libopencv-contrib-dev libopencv-contrib406t64 libopencv-core-dev libopencv-core406t64 libopencv-dev libopencv-dnn-dev libopencv-dnn406t64 libopencv-features2d-dev libopencv-features2d406t64 libopencv-flann-dev libopencv-flann406t64 libopencv-hiqhqui-dev libopency-highqui406t64 libopency-imgcodecs-dev libopency-imgcodecs406t64 libopency-imgproc-dev libopency-imgproc406t64 libopency-java libopency-ml-dev libopency-ml406t64 libopency-objdetect-dev libopency-objdetect406t64 libopency-photo-dev libopency-photo406t64 libopency-shape-dev libopency-shape406t64 libopency-stitching-dev libopency-stitching406t64 libopency-superres-dev libopency-superres406t64 libopency-video-dev libopency-video406t64 libopency-videoio-dev libopency-videoio406t64 libopency-videostab-dev libopency-videostab406t64 libopency-viz-dev libopency-viz406t64 libopency406-jni libopenexr-3-1-30 libopenexr-dev libopengl-dev libopengl libopenmpi3t64 libopenmpt0t64 libopenni-sensor-pointclouds0 libopenni0t64 libopenni2-0 libopus0 liborc-0.4-0t64 liborocos-kdl-dev liborocos-kdl1.5 libpathplan4 libpcap0.8t64 libpciaccess-dev libpcl-common1.14 libpcl-io1.14 libpcre2-16-0 libpcre2-32-0 libpcre2-dev libpcre2-posix3 libpqm-5.3-0t64 libpkgconf3 libpmix2t64 libpng-dev libpng-tools libpoppler134 libpg5 libproj25 libprotobuf32t64 libpsm-infinipath1 libpsm2-2 libpthread-stubs0-dev libpugixml-dev libpugixml1v5 libpulse-dev libpulse-mainloop-glib0 libpulse0 libpyside2-dev libpyside2-py3-5.15t64 libpython3-dev libpython3.12-dev libqhull-r8.0 libqt5concurrent5t64 libqt5core5t64 libqt5dbus5t64 libqt5designer5 libqt5qui5t64 libqt5help5 libqt5network5t64 libqt5openql5-dev libqt5openql5t64 libqt5printsupport5t64 libqt5qml5 libqt5qmlmodels5 libqt5quick5 libqt5sql5-sqlite libqt5sql5t64 libqt5svg5 libqt5test5t64 libqt5waylandclient5 libqt5waylandcompositor5 libqt5widgets5t64 libqt5xml5t64 librabbitmq4 librav1e0 libraw1394-11 libraw1394-dev libraw1394-tools librdmacm1t64 librist4 librttopol libsamplerate0 libsamplerate0-dev libsdl2-2.0-0 libsdl2-dev libselinux1-dev libsepol-dev libsharpyuv-dev libshiboken2-dev libshiboken2-py3-5.15t64 libshine3 libsm-dev libsm6 libsnappylv5 libsndfile1 libsndio-dev libshdio7.0 libsocket++1 libsoxr0 libspatialite8t64 libspdlog-dev libspdlog1.12 libspeex1 libsglite3-dev libsrt1.5-gnutls libssh-gcrypt-4 libssl-dev libsuperlu6 libsvtav1enc1d1 libswresample-dev libswresample4 libswscale-dev libswscale7 libsz2 libtbb-dev libtbb12 libtbbbind-2-5 libtbbmalloc2 libtesseract5 libtheora0 libtiff-dev libtiffxx6 libtinyxml2-10 libtinyxml2-dev libtinyxml2.6.2v5 libtwolame0 libucx0 libudev-dev libudfread0 liburcu-dev liburcu8t64 liburiparser1 libusb-1.0-0 libva-drm2 libva-x11-2 libva2 libvdpau1 libvisual-0.4-0 libvorbis0a libvorbisenc2 libvorbisfile3 libvpl2 libvpx9 libvtk9.1t64 libvulkan-dev libwacom-common libwacom9 libwayland-bin libwayland-dev libwebp-dev libwebpdecoder3 libx11-dev libx264-164 libx265-199 libxau-dev libxaw7 libxaw7-dev libxcb-icccm4 libxcb-image0 libxcb-keysyms1 libxcb-render-util0 libxcb-shape0 libxcb-util1 libxcb-xinerama0 libxcb-xinput0 libxcb-xkb1 libxcb1-dev libxcursor-dev libxdmcp-dev libxerces-c3.2t64 libxext-dev libxfixes-dev libxi-dev libxinerama-dev







































