

1.- =====
Download DWservice.net
cd /home/cnc/Downloads
chmod 777 dwagent.sh
sudo ./dwagent.sh
=====

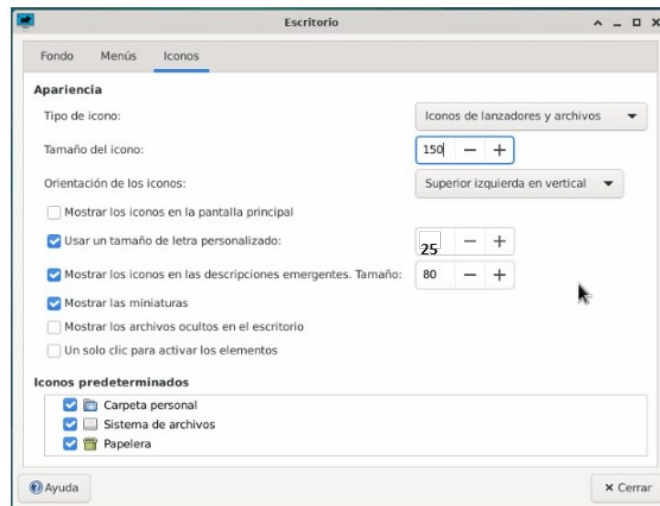
2.- Mover Panel de arriba para abajo
3.- Delete Panel Central
4.- Don't Sleep Aplicaciones --> Configuración --> Gestor de Energía
=====

5.- Abrir Axis de Linuxcnc
=====

6.- Autologin
sudo vi /etc/lightdm/lightdm.conf
Line 126 uncomment and cnc
=====

7.- Grub Time
=====

8.- Change Desktop Icons size:
Right click on desktop:



9.- =====
Icono de Apagado /usr/sbin/shutdown -h now
=====

10.-
=====

Instalar Tarjeta de Red y BT

<https://github.com/lwfinger/rtw88>

sudo apt update && sudo apt upgrade

```
sudo apt install linux-headers-generic build-essential git
```

```
git clone https://github.com/lwfinger/rtw88
cd rtw88
make
sudo make install
sudo make install_fw
```

```
=====
sudo apt install bluetooth blueman
=====
```

Design Instalation

```
=====
sudo apt install python3-pyqt5 python3-dbus.mainloop.pyqt5 python3-pyqt5.qtopengl \
python3-pyqt5.qsci python3-pyqt5.qtmultimedia \
python3-pyqt5.qtquick qml-module-qtquick-controls gstreamer1.0-plugins-bad \
libqt5multimedia5-plugins pyqt5-dev-tools python3-dev \
python3-setuptools python3-wheel python3-pip python3-six \
python3-docopt python3-qtpy python3-pyudev python3-psutil python3-markupsafe \
python3-opengl python3-vtk9 python3-pyqtgraph python3-simpleeval \
python3-jinja2 python3-deepdiff python3-sqlalchemy git python3-distro \
python3-serial
```

```
cd /home/cnc
```

```
git clone https://github.com/kcjengr/qtpyvcp
```

```
sudo apt install qttools5-dev qttools5-dev-tools python3-wheel python3-venv
```

```
python3 -m venv venv --system-site-packages
```

```
source venv/bin/activate
```

```
pip install hiyapyco
```

If you don't want to type source command each session, you can add this lines to the end of ~/.bashrc
file source /home/cnc/venv/bin/activate

```
cd /home/cnc/qtpyvcp/  
pip install --editable .
```

```
=====
```

```
cd /home/cnc/qtpyvcp/pyqt5designer/Qt5.15.4-64bit/python3.10  
sudo ./install.sh
```

Copiar los 3 archivos que funcionan

```
sudo cp /home/cnc/Descargas/LCNC/Plug/* /usr/lib/x86_64-linux-gnu/qt5/plugins/designer
```

```
=====
```

```
===== Copy Examples=====
```

```
cd /home/cnc/qtpyvcp/  
cp -r linuxcnc $HOME
```

```
git clone https://github.com/kcjengr/vcp-template.git  
cd vcp-template  
./copy.sh
```

```
cd /home/cnc/vcp1  
pip install --editable .
```

probebasic

```
sudo apt install zenity
```

```
cd ~  
mkdir dev  
cd dev  
git clone https://github.com/Lcvette/qtpyvcp-bookworm-installer.git  
cd qtpyvcp-bookworm-installer  
./install_for_qtpyvcp.sh  
=====
```

MSDOS
Diskpart
List disk
Select disk 1
Clean
create partition primary format fs=NTFS quick

===== MBUS =====
udev rule for constant USB device

<https://unix.stackexchange.com/questions/66901/how-to-bind-usb-device-under-a-static-name>

```
udevadm info --name=/dev/ttyUSB0 --attribute-walk | grep idProduct | head -1  
udevadm info --name=/dev/ttyUSB0 --attribute-walk | grep idVendor | head -1
```

Edit file /etc/udev/rules.d/70-persistent-cd.rules

```
SUBSYSTEM=="tty", ATTRS{idVendor}=="1a86", ATTRS{idProduct}=="7523",  
SYMLINK+="Mbus485"
```

```
sudo udevadm trigger  
=====
```

git clone <https://github.com/controlnumerico/cnm3a.git>

Descomprimir e instalar en c:/home/cnc

```
cd /home/cnc/cnm3a  
pip install -e .
```

```
mkdir /home/cnc/.iMG  
sudo cp -r /home/cnc/cnm3a/src/cnm3a/ui/rs/* /home/cnc/.iMG/  
sudo cp -r /home/cnc/cnm3a/src/cnm3a/ui/rs/*.TTF /usr/local/share/fonts  
sudo cp -r /home/cnc/cnm3a/src/cnm3a/ui/rs/*.otf /usr/local/share/fonts
```

```
=====  
DISPLAY = cnm3a  
HIDE_MENU_BAR = 1  
FULLSCREEN = 1  
KEYBOARD_JOG = true  
KEYBOARD_JOG_SAFETY_OFF = true
```

```
MACHINE_BOUNDRY = on  
MACHINE_TICKS = on  
MACHINE_LABELS = on
```

```
OPEN_FILE = /home/cnc/Escritorio/Gcode/1.ngc  
=====
```