

# How to install and configure the Windows Subsystem for Linux (WSL) 2

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1. Read carefully the instalation instructions available at <https://docs.microsoft.com/en-us/windows/wsl/install-win10>
2. Do not forget to set WSL 2 as your default version
3. Install a Linux distribution (Debian is recommended)
  - Ubuntu IS NOT recommended due to some restrictions in 32-bit support, required in ARQCP
4. Create a user account and password for your new Linux distribution. Read the documentation available at <https://docs.microsoft.com/en-us/windows/wsl/user-support> for more details
5. On the Linux command line, install the following software:

```
sudo dpkg --add-architecture i386
sudo apt update ; sudo apt upgrade
sudo apt install build-essential gcc-multilib g++-multilib
sudo apt install libc6:i386 libc6-dbg:i386 valgrind
sudo apt install cputest libcputest-dev:i386
```

6. There are several text editors you can use

```
sudo apt install nano
sudo apt install neovim
sudo apt install vim
sudo apt install emacs
```

7. Compile and run your code from the Linux command line