

# Install WSL2, Ubuntu, and Miniconda

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## 1 Introduction

We will go through how to install and configure WSL2, Ubuntu, and Miniconda here. This step is necessary to compile libtorch with OpenBLAS/MKL on Windows.

## 2 WSL2 and Ubuntu Installation

In a Windows PowerShell, run `wsl --install` to install WSL2.

Run `wsl --list --online` to see all available distros.

To install a distro using the NAME, run `wsl --install -d <NAME>`.

For example, to install Ubuntu 22.04, run `wsl --install -d Ubuntu-22.04`.

## 3 Install and Initialize Miniconda

Run the following lines of codes to install the latest 64-bit version of the installer and then clean up after themselves.

To install a different version or architecture of Miniconda for Linux, change the name of the `.sh` installer in the `wget` command.

```
mkdir -p ~/miniconda3
wget https://repo.anaconda.com/miniconda/Miniconda3-latest-Linux-x86_64.sh -O ~/miniconda3/miniconda.sh
bash ~/miniconda3/miniconda.sh -b -u -p ~/miniconda3
rm -rf ~/miniconda3/miniconda.sh
```

To initialize the newly-installed Miniconda, run `conda init` and restart the shell to make the change effective.

To create a conda environment with the latest python, run `conda create --name <name> python`.

To create a conda environment with a specifict python, run `conda create --name <name> pytyon=<python version>`.

To activate a conda environment by name, run `conda activate <name>`.

To deactivate a conda environment, run `conda deactivate`.