Lab 1
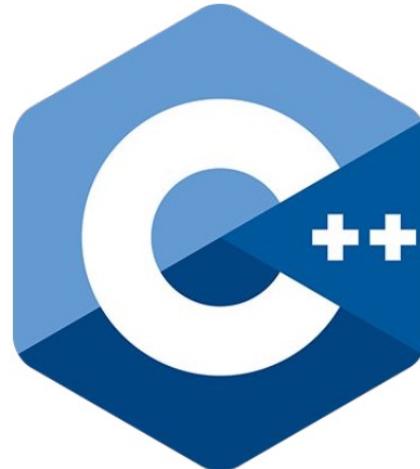
Learning goals:

1. Install ubuntu 20.04
2. Learn the basics of shell and git
3. Learn C++

Lab 1

Installing Ubuntu 20.04

Choose installation media:
- VM (recommend for class)
- Disk (recommend for production environment)

Tips: ROS only available on Linux based system, so we can't use Windows or MacOS

Lab 1

Shell Basics

Basics: pwd, ls, cd, find, mkdir, touch, rm, cp, mv, cat, nano, chmod
Download file, uncompress: wget, tar
Pipe: using | , example $cat 1.txt | sort
Output redirect: > , redirect terminal output to file, example $ls > output.txt, also you can try >, &>, | tee, |& tee,and see what's the difference

Documentation:

https://www.tutorialspoint.com/unix/index.htm
https://blog.csdn.net/weilaaer/article/details/131105614

Lab 1

C++

Resources:
- Book 《C++ Primer》
- Online C++ course:
    - https://www.runoob.com/cplusplus/cpp-tutorial.html
    - https://www.w3cschool.cn/cplusplus/

Lab 1

Git

Documentations of git:
- Official https://git-scm.com/doc
- Unofficial https://www.runoob.com/git/git-basic-operations.html

Lab 1

CMAKE

Documentation:
https://www.runoob.com/cmake/cmake-tutorial.html

Lab 1

Here is a simple guidance：

https://spurious-cornflower-507.notion.site/Lab-1-Linux-C-Git-e788685e06a84200ae587ffe64258c76