# Building XRootD with cmake and installing the source project

### System info:

• Developer tools:

```
Version: 11.4.1 (11E503a)
Location: /Applications/Xcode.app
Applications:
Xcode: 11.4.1 (16137)
```

Instruments: 11.4.1 (64535.74)

• Hardware overview

```
Model Name: MacBook Pro
Model Identifier: MacBookPro16,1
Processor Name: 8-Core Intel Core i9
Processor Speed: 2,4 GHz
Number of Processors: 1
Total Number of Cores: 8
L2 Cache (per Core): 256 KB
L3 Cache: 16 MB
```

Hyper-Threading Technology: Enabled

Memory: 32 GB

Boot ROM Version: 1037.80.53.0.0 (iBridge: 17.16.13050.0.0,0)

Serial Number (system):

Hardware UUID:

Activation Lock Status: Enabled

• Software

System Version: macOS 10.15.3 (19D76)
Kernel Version: Darwin 19.3.0

Boot Volume: Macintosh HD

Boot Mode: Normal

Computer Name: Robert's MacBook Pro Username: Robert Poenaru (basavyr) Secure Virtual Memory: Enabled System Integrity Protection: Enabled

Time since boot: 4 days 1:12

### Building the project

- 1. build with cmake, according to this script. (gitlab nightly build).
  - 1. use appropriate paths for ZLIB, OPENSSL (the include dir, the crypto library and the ssl library)
  - 2. build without VOM modules for macOS (use command: -DVOMSXRD\_SUBMODULE=OFF)

#### Missing XrdVersion header in XrdSysPlugin.cc+XrdSysPlugin.hh

In case of building errors with regards to missing the version info header:

/Users/basavyr/Library/Mobile Documents/com~apple~CloudDocs/Work/Pipeline/DFCTI/CERN\_projections/

The header file should be created by the genversion.sh script at compile time. If that isn't the case, then just run the script from the command line separately:

```
cd xrootd/
./genversion.sh
See the header file here
```

## Installing the source files

Once the building process with cmake completely finished, use make install for the installation process.

1. Installing the Xrd client sources:

```
cd src/XrdCl/
make -j4
make install
```

2. Installing the entire project, including **python bindings**. From the build directory, just:

```
ls -a make install -jNCORES
```