

## 1. <https://cmake.org/download/>

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**Get the Software**

You can either download binaries or source code archives for the [latest stable](#) or [previous](#) release or access the [current development](#) (aka nightly) distribution through Git. This software may not be exported in violation of any U.S. export laws or regulations. For more information regarding Export Control matters please go to <https://www.kitware.com/legal>.

**Training**

CMake training covers how to efficiently write CMake scripts for small to larger projects along with best practices. [For more information visit the training page](#). Our next CMake Training Course is June 13-15. [Register Now](#).

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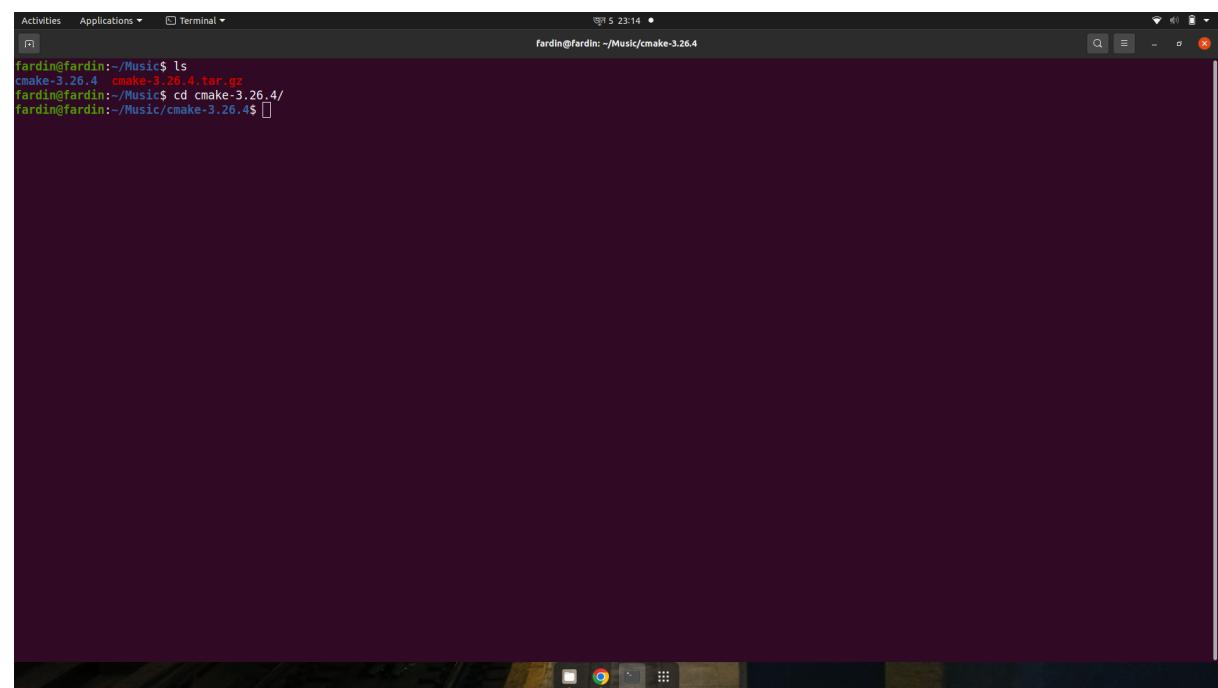
**Latest Release (3.26.4)**

The release was packaged with CPack which is included as part of the release. The .sh files are self extracting gzipped tar files. To install a .sh file, run it with /bin/sh and follow the directions. The OS-machine.tar.gz files are gzipped tar files of the install tree. The OS-machine.tar.Z files are compressed tar files of the install tree. The tar file distributions can be untared in any directory. They are prefixed by the version of CMake. For example, the linux-x86\_64 tar file is all under the directory cmake-linux-x86\_64. This prefix can be removed as long as the share, bin, man and doc directories are moved relative to each other. To build the source distributions, unpack them with zip or tar and follow the instructions in README.rst at the top of the source tree. See also the [CMake 3.26 Release Notes](#).

Source distributions:

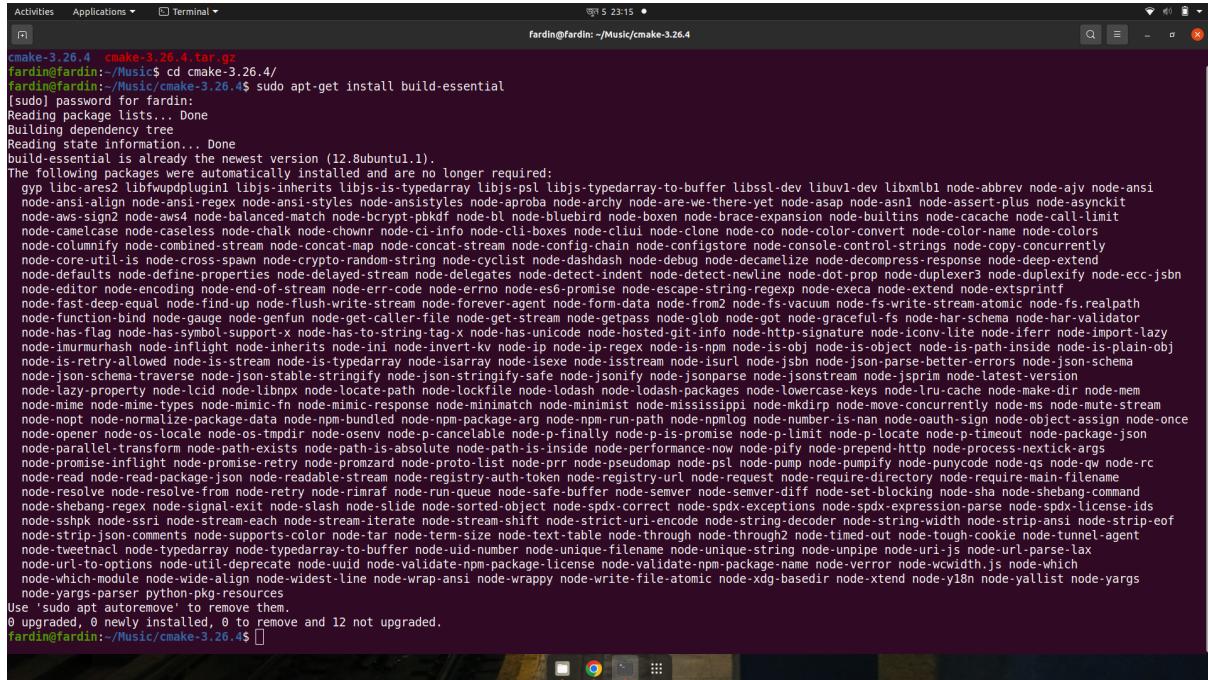
Platform	Files
Linux/Unix Source (has inline spec)	<a href="#">cmake-3.26.4.tar.gz</a>

## 2. cd cmake-3.26.4/



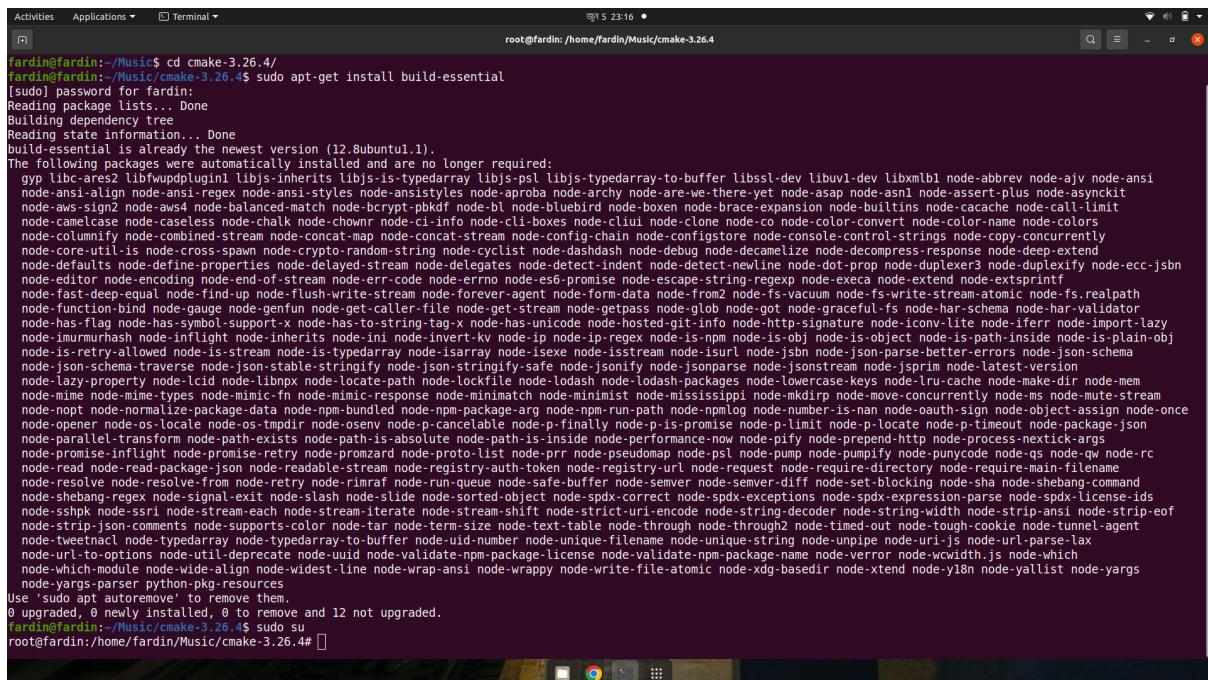
```
fardin@fardin:~/Music$ ls
cmake-3.26.4  cmake-3.26.4.tar.gz
fardin@fardin:~/Music$ cd cmake-3.26.4/
fardin@fardin:~/Music/cmake-3.26.4$ [ ]
```

### 3.sudo apt-get install build-essential



```
Activities Applications Terminal fardin@fardin: ~/Music/cmake-3.26.4$ sudo apt-get install build-essential
[sudo] password for fardin:
Reading package lists... Done
Building dependency tree
Reading state information... Done
build-essential is already the newest version (12.8ubuntu1.1).
The following packages were automatically installed and are no longer required:
  gyp libbc-ares2 libfwupdplugin1 libjs-inherits libjs-typedarray libjs-psl libjs-typedarray-to-buffer libssl-dev libuv1-dev libxmlb1 node-abbrev node-ajv node-ansi
  node-ansi-align node-ansi-regexp node-ansi-styles node-ansi-styles node-aproba node-archy node-are-we-there-yet node-asap node-asn1 node-assert-plus node-asynkit
  node-aws-sign2 node-aws4 node-balanced-match node-bcrypt-phkdf node-bl node-bluebird node-boxen node-brace-expansion node-builtins node-cacache node-call-limit
  node-camelcase node-caseless node-chalk node-chownr node-cl-info node-cli-boxes node-clui node-clone node-co node-color-convert node-color-name node-colors
  node-columnify node-combined-stream node-concat-map node-concat-stream node-config-chain node-configstore node-console-control-strings node-copy-concurrently
  node-core-util-is node-cross-spawn node-crypto-random-string node-cyclist node-dashdash node-debug node-decamelize node-decompress-response node-deep-extend
  node-defaults node-define-properties node-delayed-stream node-delegates node-detect-indent node-detect-newline node-dot-prop node-duplexer3 node-duplexify node-ecc-jbsn
  node-editor node-encoding node-end-of-stream node-err-code node-errno node-es6-promise node-escape-string-regexp node-execa node-extend node-extsprintf
  node-fast-deep-equal node-find-up node-flush-write-stream node-forever-agent node-form-data node-from2 node-fs-vacuum node-fs-write-stream-atomic node-fs.realpath
  node-function-bind node-gauge node-gefun node-get-caller-file node-get-stream node-getpass node-glob node-got node-graceful-fs node-har-schema node-har-validator
  node-has-iflag node-has-symbol-support-x node-has-unicode node-hosted-git-info node-http-signature node-iconv-lite node-iferr node-import-lazy
  node-imurmurhash node-inflight node-inherits node-invert-kv node-ip node-ip-regen node-is-npm node-is-obj node-is-object node-is-path-inside node-is-plain-obj
  node-is-retry-alowed node-is-stream node-isarray node-isexec node-isstream node-isurl node-jbsn node-json-parse-better-errors node-json-schema
  node-json-schema-traverse node-json-stable-stringify node-jsonify node-jsonparse node-jsonstream node-jspm node-latest-version
  node-lazy-property node-lcid node-libpnp node-locate-path node-lockfile node-lodash node-lodash-packets node-lowercase-keys node-lru-cache node-make-dir node-mem
  node-mime node-mime-types node-mimic-fn node-mimic-response node-minimatch node-minimist node-mississippi node-mkdirp node-move-concurrently node-ms node-mute-stream
  node-nopt node-normalize-package-data node-npm-bundled node-npm-package-arg node-npm-run-path node-npmlog node-number-is-nan node-oauth-sign node-object-assign node-once
  node-opener node-os-locale node-os-tmpdir node-osenv node-p-cancelable node-p-finally node-p-is-promise node-p-limit node-p-locate node-p-timeout node-package-json
  node-parallel-transform node-path-exists node-path-is-absolute node-path-is-inside node-performance-now node-pify node-prepend http node-process-nextick-args
  node-promise-inflight node-promise-retry node-promzard node-proto-list node-prr node-pseudomap node-psl node-pump node-pumpify node-puncode node-qv node-rc
  node-read node-read-package-json node-readable-stream node-registry-auth-token node-registry-url node-request node-require-directory node-require-main-filename
  node-resolve node-resolve-from node-retry node-rimraf node-run-queue node-safe-buffer node-semver node-semver-diff node-set-blocking node-sha node-shebang-command
  node-shebang-regex node-signal-exit node-slash node-slide node-sorted-object node-spdx-correct node-spdx-exceptions node-spdx-expression-parse node-spdx-license-ids
  node-sshpk node-ssri node-stream-each node-stream-iterate node-stream-shift node-strict-uri-encode node-string-decoder node-string-width node-strip-ansi node-strip-eof
  node-strip-json-comments node-supports-color node-tar node-term-size node-text-table node-through2 node-timed-out node-tough-cookie node-tunnel-agent
  node-tweetnacl node-typedarray node-typedarray-to-buffer node-uid-number node-unique-filename node-unique-string node-unpipe node-uri.js node-url-parse-lax
  node-url-to-options node-util-deprecate node-uuid node-validate-npm-package-license node-validate-npm-package-name node-errmsg node-wcwidth.js node-which
  node-yargs-parser python-pkg-resources
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 12 not upgraded.
fardin@fardin: ~/Music/cmake-3.26.4$
```

### 4. sudo su



```
Activities Applications Terminal root@fardin: /home/fardin/Music/cmake-3.26.4$ root@fardin: /home/fardin/Music/cmake-3.26.4$ sudo apt-get install build-essential
[sudo] password for fardin:
Reading package lists... Done
Building dependency tree
Reading state information... Done
build-essential is already the newest version (12.8ubuntu1.1).
The following packages were automatically installed and are no longer required:
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  node-shebang-regex node-signal-exit node-slash node-slide node-sorted-object node-spdx-correct node-spdx-exceptions node-spdx-expression-parse node-spdx-license-ids
  node-sshpk node-ssri node-stream-each node-stream-iterate node-stream-shift node-strict-uri-encode node-string-decoder node-string-width node-strip-ansi node-strip-eof
  node-strip-json-comments node-supports-color node-tar node-term-size node-text-table node-through2 node-timed-out node-tough-cookie node-tunnel-agent
  node-tweetnacl node-typedarray node-typedarray-to-buffer node-uid-number node-unique-filename node-unique-string node-unpipe node-uri.js node-url-parse-lax
  node-url-to-options node-util-deprecate node-uuid node-validate-npm-package-license node-validate-npm-package-name node-errmsg node-wcwidth.js node-which
  node-yargs-parser python-pkg-resources
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 12 not upgraded.
root@fardin: /home/fardin/Music/cmake-3.26.4#
```

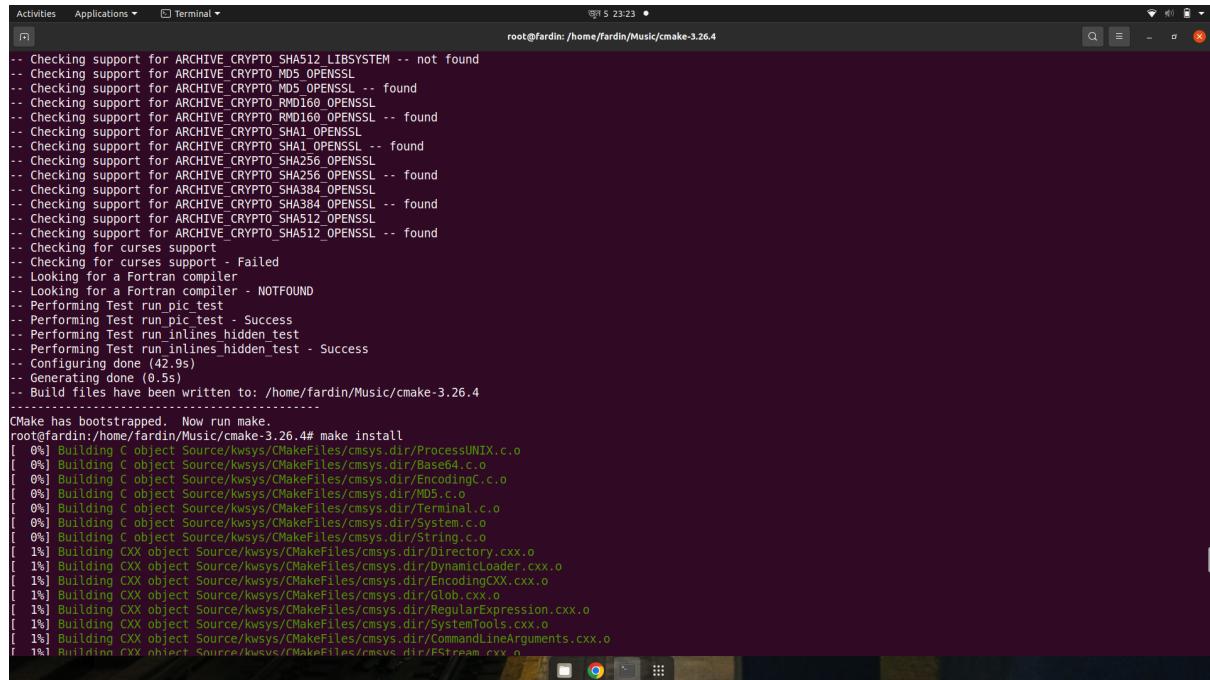
### 5./configure

```
Activities Applications Terminal
root@fardin: /home/fardin/Music/cmake-3.26.4
root@fardin: /home/fardin/Music/cmake-3.26.4$ node-strip.json-comments node-supports-color node-tar node-term-size node-text-table node-through2 node-timed-out node-tough-cookie node-tunnel-agent node-tweetnacl node-typedarray node-typedarray-to-buffer node-uid-number node-unique-filename node-unique-string node-unpipe node-uri-js node-url-parse-lax node-url-to-options node-util-deprecate node-uuid node-validate-npm-package-license node-validate-npm-package-name node-verror node-wcwidth.js node-which node-which-module node-wide-align node-widest-line node-wrap-ansi node-wrapy node-write-file-atomic node-xdg-basedir node-xtend node-y18n node-yallist node-yargs node-yargs-parser python-pkg-resources
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 12 not upgraded.
root@fardin: /home/fardin/Music/cmake-3.26.4$ sudo su
root@fardin: /home/fardin/Music/cmake-3.26.4# ./configure
-----
CMake 3.26.4, Copyright 2000-2023 Kitware, Inc. and Contributors
Found GNU toolchain
C compiler on this system is: gcc
C++ compiler on this system is: g++
Makefile processor on this system is: make
g++ has setenv
g++ has unsetenv
g++ does not have environ in stdlib.h
g++ has stl wstring
g++ has <ext/stdio filebuf.h>
-----
g++ -D FILE_OFFSET_BITS=64 -DCMAKE_BOOTSTRAP -DCMake HAVE_CXX_MAKE_UNIQUE=1 -I/home/fardin/Music/cmake-3.26.4/Bootstrap.cmk -I/home/fardin/Music/cmake-3.26.4/S
ource -I/home/fardin/Music/cmake-3.26.4/Source/LexerParser -I/home/fardin/Music/cmake-3.26.4/Utilities/std -I/home/fardin/Music/cmake-3.26.4/Utilities -c /home/fardin
/Music/cmake-3.26.4/Source/cmAddCompileDefinitionsCommand.cxx -o cmAddCompileDefinitionsCommand.o
g++ -D FILE_OFFSET_BITS=64 -DCMAKE_BOOTSTRAP -DCMake HAVE_CXX_MAKE_UNIQUE=1 -I/home/fardin/Music/cmake-3.26.4/Bootstrap.cmk -I/home/fardin/Music/cmake-3.26.4/S
ource -I/home/fardin/Music/cmake-3.26.4/Source/LexerParser -I/home/fardin/Music/cmake-3.26.4/Utilities/std -I/home/fardin/Music/cmake-3.26.4/Utilities -c /home/fardin
/Music/cmake-3.26.4/Source/cmAddCustomCommandCommand.cxx -o cmAddCustomCommandCommand.o
g++ -D FILE_OFFSET_BITS=64 -DCMAKE_BOOTSTRAP -DCMake HAVE_CXX_MAKE_UNIQUE=1 -I/home/fardin/Music/cmake-3.26.4/Bootstrap.cmk -I/home/fardin/Music/cmake-3.26.4/S
ource -I/home/fardin/Music/cmake-3.26.4/Source/LexerParser -I/home/fardin/Music/cmake-3.26.4/Utilities/std -I/home/fardin/Music/cmake-3.26.4/Utilities -c /home/fardin
/Music/cmake-3.26.4/Source/cmAddCustomTargetCommand.cxx -o cmAddCustomTargetCommand.o
g++ -D FILE_OFFSET_BITS=64 -DCMAKE_BOOTSTRAP -DCMake HAVE_CXX_MAKE_UNIQUE=1 -I/home/fardin/Music/cmake-3.26.4/Bootstrap.cmk -I/home/fardin/Music/cmake-3.26.4/S
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/Music/cmake-3.26.4/Source/cmAddDefinitionsCommand.cxx -o cmAddDefinitionsCommand.o
g++ -D FILE_OFFSET_BITS=64 -DCMAKE_BOOTSTRAP -DCMake HAVE_CXX_MAKE_UNIQUE=1 -I/home/fardin/Music/cmake-3.26.4/Bootstrap.cmk -I/home/fardin/Music/cmake-3.26.4/S
ource -I/home/fardin/Music/cmake-3.26.4/Source/LexerParser -I/home/fardin/Music/cmake-3.26.4/Utilities/std -I/home/fardin/Music/cmake-3.26.4/Utilities -c /home/fardin
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ource -I/home/fardin/Music/cmake-3.26.4/Source/LexerParser -I/home/fardin/Music/cmake-3.26.4/Utilities/std -I/home/fardin/Music/cmake-3.26.4/Utilities -c /home/fardin
/Music/cmake-3.26.4/Source/cmAddExecutableCommand.cxx -o cmAddExecutableCommand.o
g++ -D FILE_OFFSET_BITS=64 -DCMAKE_BOOTSTRAP -DCMake HAVE_CXX_MAKE_UNIQUE=1 -I/home/fardin/Music/cmake-3.26.4/Bootstrap.cmk -I/home/fardin/Music/cmake-3.26.4/S
ource -I/home/fardin/Music/cmake-3.26.4/Source/LexerParser -I/home/fardin/Music/cmake-3.26.4/Utilities/std -I/home/fardin/Music/cmake-3.26.4/Utilities -c /home/fardin
/Music/cmake-3.26.4/Source/cmAddLibraryCommand.cxx -o cmAddLibraryCommand.o
n++ -D FILE_OFFSET_BITS=64 -DCMAKE_BOOTSTRAP -DCMake HAVE_CXX_MAKE_UNIQUE=1 -T/home/fardin/Music/cmake-3.26.4/Rootstrap.cmk -T/home/fardin/Music/cmake-3.26.4/S
```

## 6.make

```
Activities Applications Terminal
root@fardin: /home/fardin/Music/cmake-3.26.4
root@fardin: /home/fardin/Music/cmake-3.26.4$ node-strip.json-comments node-supports-color node-tar node-term-size node-text-table node-through2 node-timed-out node-tough-cookie node-tunnel-agent node-tweetnacl node-typedarray node-typedarray-to-buffer node-uid-number node-unique-filename node-unique-string node-unpipe node-uri-js node-url-parse-lax node-url-to-options node-util-deprecate node-uuid node-validate-npm-package-license node-validate-npm-package-name node-verror node-wcwidth.js node-which node-which-module node-wide-align node-widest-line node-wrap-ansi node-wrapy node-write-file-atomic node-xdg-basedir node-xtend node-y18n node-yallist node-yargs node-yargs-parser python-pkg-resources
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root@fardin: /home/fardin/Music/cmake-3.26.4# ./configure
-----
CMake 3.26.4, Copyright 2000-2023 Kitware, Inc. and Contributors
Found GNU toolchain
C compiler on this system is: gcc
C++ compiler on this system is: g++
Makefile processor on this system is: make
g++ has setenv
g++ has unsetenv
g++ does not have environ in stdlib.h
g++ has stl wstring
g++ has <ext/stdio filebuf.h>
-----
g++ -D FILE_OFFSET_BITS=64 -DCMAKE_BOOTSTRAP -DCMake HAVE_CXX_MAKE_UNIQUE=1 -I/home/fardin/Music/cmake-3.26.4/Bootstrap.cmk -I/home/fardin/Music/cmake-3.26.4/S
ource -I/home/fardin/Music/cmake-3.26.4/Source/LexerParser -I/home/fardin/Music/cmake-3.26.4/Utilities/std -I/home/fardin/Music/cmake-3.26.4/Utilities -c /home/fardin
/Music/cmake-3.26.4/Source/cmAddCompileDefinitionsCommand.cxx -o cmAddCompileDefinitionsCommand.o
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/Music/cmake-3.26.4/Source/cmAddCustomCommandCommand.cxx -o cmAddCustomCommandCommand.o
g++ -D FILE_OFFSET_BITS=64 -DCMAKE_BOOTSTRAP -DCMake HAVE_CXX_MAKE_UNIQUE=1 -I/home/fardin/Music/cmake-3.26.4/Bootstrap.cmk -I/home/fardin/Music/cmake-3.26.4/S
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/Music/cmake-3.26.4/Source/cmAddLibraryCommand.cxx -o cmAddLibraryCommand.o
n++ -D FILE_OFFSET_BITS=64 -DCMAKE_BOOTSTRAP -DCMake HAVE_CXX_MAKE_UNIQUE=1 -T/home/fardin/Music/cmake-3.26.4/Rootstrap.cmk -T/home/fardin/Music/cmake-3.26.4/S
```

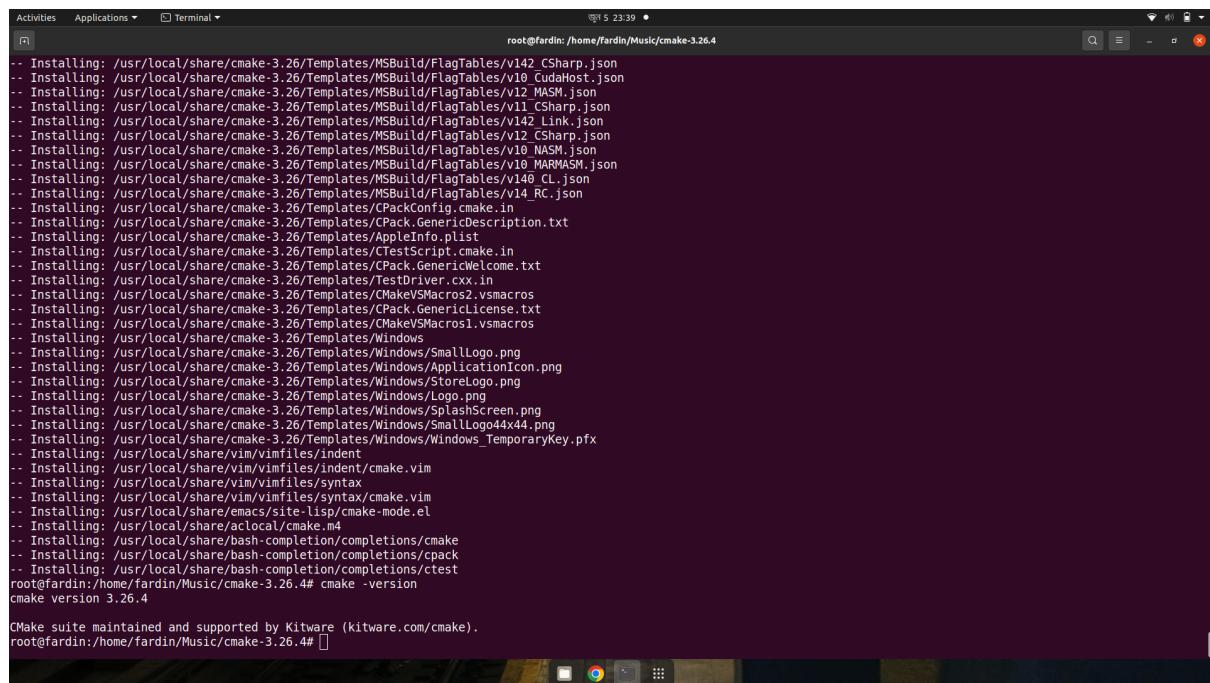
## 7. make install



```
Activities Applications Terminal ⑤ 23:23 root@fardin: /home/fardin/Music/cmake-3.26.4
-- Checking support for ARCHIVE_CRYPTO SHA512_LIBSYSTEM -- not found
-- Checking support for ARCHIVE_CRYPTO MD5_OPENSSL
-- Checking support for ARCHIVE_CRYPTO MD5_OPENSSL -- found
-- Checking support for ARCHIVE_CRYPTO RMD160_OPENSSL
-- Checking support for ARCHIVE_CRYPTO RMD160_OPENSSL
-- Checking support for ARCHIVE_CRYPTO SHA1_OPENSSL
-- Checking support for ARCHIVE_CRYPTO SHA1_OPENSSL -- found
-- Checking support for ARCHIVE_CRYPTO SHA256_OPENSSL
-- Checking support for ARCHIVE_CRYPTO SHA256_OPENSSL -- found
-- Checking support for ARCHIVE_CRYPTO SHA384_OPENSSL
-- Checking support for ARCHIVE_CRYPTO SHA384_OPENSSL -- found
-- Checking support for ARCHIVE_CRYPTO SHA512_OPENSSL
-- Checking support for ARCHIVE_CRYPTO SHA512_OPENSSL -- found
-- Checking for curses support
-- Checking for curses support - Failed
-- Looking for a Fortran compiler
-- Looking for a Fortran compiler - NOTFOUND
-- Performing Test run_pic_test
-- Performing Test run_pic_test - Success
-- Performing Test run_inlines_hidden_test
-- Performing Test run_inlines_hidden_test - Success
-- Configuring done (42.9s)
-- Generating done (0.5s)
-- Build files have been written to: /home/fardin/Music/cmake-3.26.4
-----
CMake has bootedstrapped. Now run make.
root@fardin:/home/fardin/Music/cmake-3.26.4# make install
[ 0%] Building C object Source/kwsys/CMakeFiles/cmsys.dir/ProcessUNIX.c.o
[ 0%] Building C object Source/kwsys/CMakeFiles/cmsys.dir/Base64.c.o
[ 0%] Building C object Source/kwsys/CMakeFiles/cmsys.dir/Encoding.c.o
[ 0%] Building C object Source/kwsys/CMakeFiles/cmsys.dir/MD5.c.o
[ 0%] Building C object Source/kwsys/CMakeFiles/cmsys.dir/Terminal.c.o
[ 0%] Building C object Source/kwsys/CMakeFiles/cmsys.dir/System.c.o
[ 0%] Building C object Source/kwsys/CMakeFiles/cmsys.dir/String.c.o
[ 1%] Building CXX object Source/kwsys/CMakeFiles/cmsys.dir/Directory.cxx.o
[ 1%] Building CXX object Source/kwsys/CMakeFiles/cmsys.dir/DynamicLoader.cxx.o
[ 1%] Building CXX object Source/kwsys/CMakeFiles/cmsys.dir/EncodingCXX.cxx.o
[ 1%] Building CXX object Source/kwsys/CMakeFiles/cmsys.dir/Glob.cxx.o
[ 1%] Building CXX object Source/kwsys/CMakeFiles/cmsys.dir/RegularExpression.cxx.o
[ 1%] Building CXX object Source/kwsys/CMakeFiles/cmsys.dir/SystemTools.cxx.o
[ 1%] Building CXX object Source/kwsys/CMakeFiles/cmsys.dir/CommandLineArguments.cxx.o
[ 1%] Building rcc object Source/kwsys/CMakeFiles/cmsys.dir/FSStream.cxx.o
```

## 8. We may check out the version of the installed CMake.

- `cmake -version`



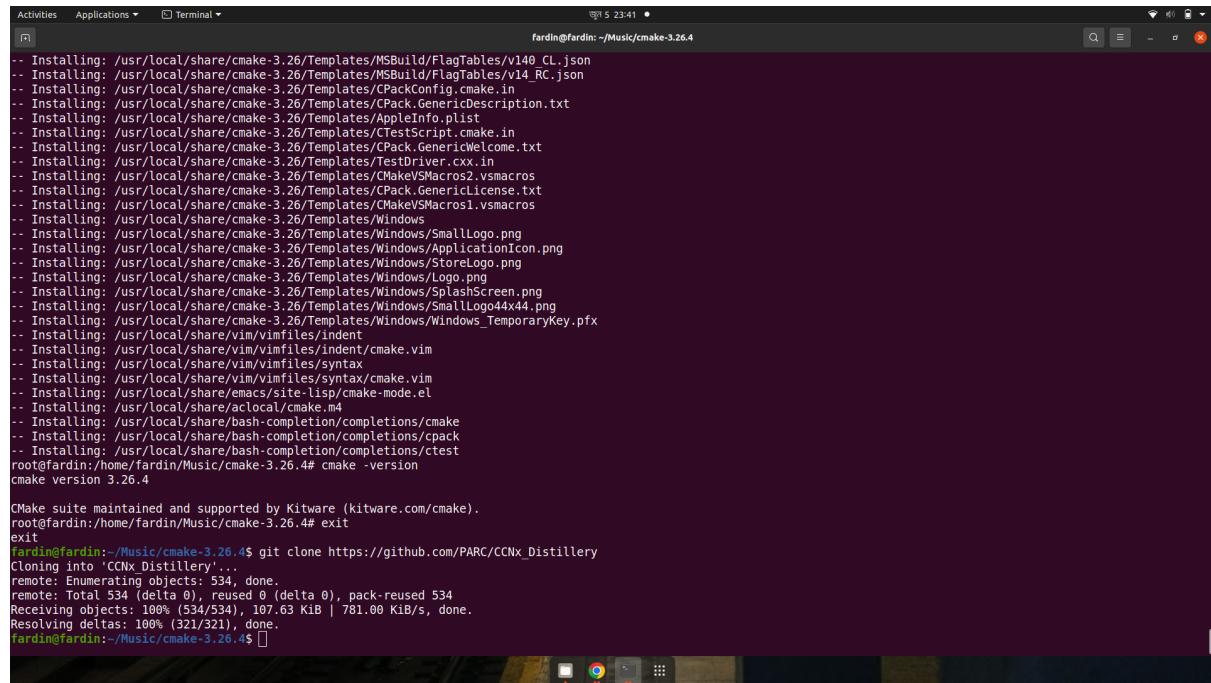
```
Activities Applications Terminal ⑤ 23:39 root@fardin: /home/fardin/Music/cmake-3.26.4
-- Installing: /usr/local/share/cmake-3.26/Templates/MSBuild/FlagTables/v142_CSharp.json
-- Installing: /usr/local/share/cmake-3.26/Templates/MSBuild/FlagTables/v10_CudaHost.json
-- Installing: /usr/local/share/cmake-3.26/Templates/MSBuild/FlagTables/v12_MASM.json
-- Installing: /usr/local/share/cmake-3.26/Templates/MSBuild/FlagTables/v11_CSharp.json
-- Installing: /usr/local/share/cmake-3.26/Templates/MSBuild/FlagTables/v142_Link.json
-- Installing: /usr/local/share/cmake-3.26/Templates/MSBuild/FlagTables/v12_NASM.json
-- Installing: /usr/local/share/cmake-3.26/Templates/MSBuild/FlagTables/v10_NASM.json
-- Installing: /usr/local/share/cmake-3.26/Templates/MSBuild/FlagTables/v10_MARMASM.json
-- Installing: /usr/local/share/cmake-3.26/Templates/MSBuild/FlagTables/v140_CL.json
-- Installing: /usr/local/share/cmake-3.26/Templates/MSBuild/FlagTables/v14_RC.json
-- Installing: /usr/local/share/cmake-3.26/Templates/CPackConfig.cmake.in
-- Installing: /usr/local/share/cmake-3.26/Templates/CPack.GenericDescription.txt
-- Installing: /usr/local/share/cmake-3.26/Templates/AppleInfo.plist
-- Installing: /usr/local/share/cmake-3.26/Templates/TestScript.cmake.in
-- Installing: /usr/local/share/cmake-3.26/Templates/CPack.GenericWelcome.txt
-- Installing: /usr/local/share/cmake-3.26/Templates/TestDriver.cxx.in
-- Installing: /usr/local/share/cmake-3.26/Templates/CMakelVMacros2.vsmacros
-- Installing: /usr/local/share/cmake-3.26/Templates/CPack.GenericLicense.txt
-- Installing: /usr/local/share/cmake-3.26/Templates/CMakelVMacros1.vsmacros
-- Installing: /usr/local/share/cmake-3.26/Templates/Windows
-- Installing: /usr/local/share/cmake-3.26/Templates/Windows/SmallLogo.png
-- Installing: /usr/local/share/cmake-3.26/Templates/Windows/ApplicationIcon.png
-- Installing: /usr/local/share/cmake-3.26/Templates/Windows/StoreLogo.png
-- Installing: /usr/local/share/cmake-3.26/Templates/Windows/Logo.png
-- Installing: /usr/local/share/cmake-3.26/Templates/Windows/SplashScreen.png
-- Installing: /usr/local/share/cmake-3.26/Templates/Windows/SmallLogo44x44.png
-- Installing: /usr/local/share/cmake-3.26/Templates/Windows/Windows_TemporaryKey.pfx
-- Installing: /usr/local/share/vim/vimfiles/indent
-- Installing: /usr/local/share/vim/vimfiles/indent/cmake.vim
-- Installing: /usr/local/share/vim/vimfiles/syntax
-- Installing: /usr/local/share/vim/vimfiles/syntax/cmake.vim
-- Installing: /usr/local/share/emacs/site-lisp/cmake-mode.el
-- Installing: /usr/local/share/aclocal/cmake.m4
-- Installing: /usr/local/share/bash-completion/completions/cmake
-- Installing: /usr/local/share/bash-completion/completions/cpack
-- Installing: /usr/local/share/bash-completion/completions/ctest
root@fardin:/home/fardin/Music/cmake-3.26.4# cmake -version
cmake version 3.26.4

CMake suite maintained and supported by Kitware (kitware.com/cmake).
root@fardin:/home/fardin/Music/cmake-3.26.4# ]
```

## 9. Exit

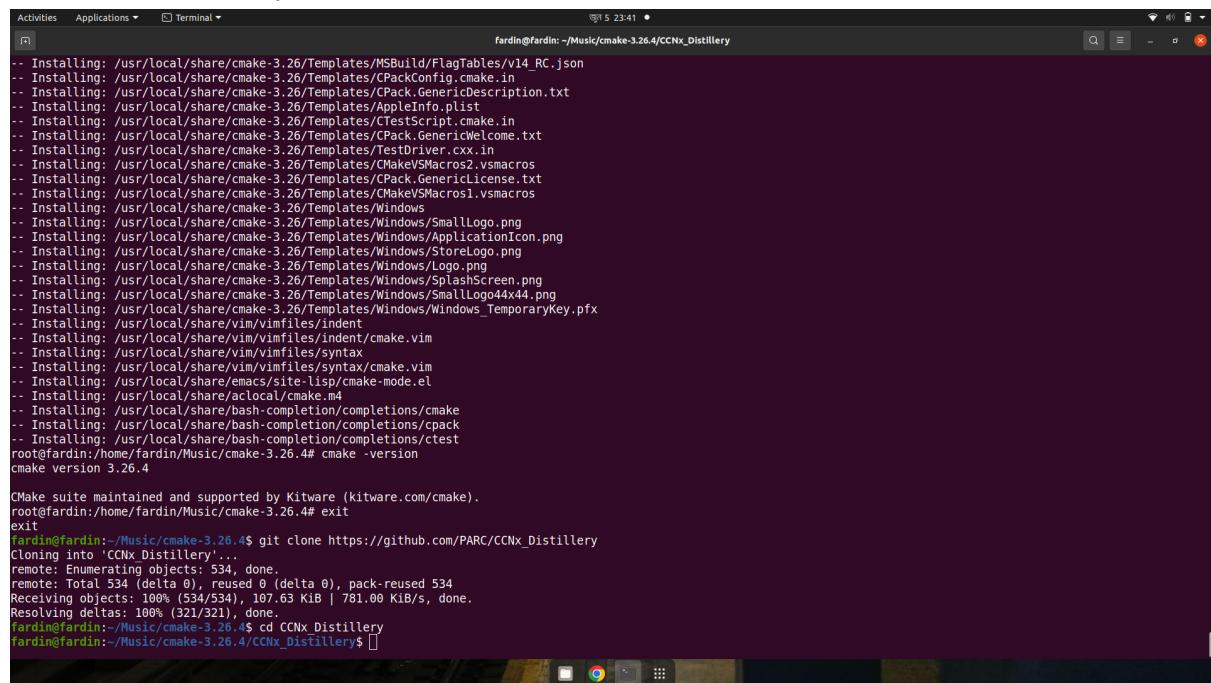
## 10.

git clone [https://github.com/PARC/CCNx\\_Distillery](https://github.com/PARC/CCNx_Distillery)



```
Activities Applications Terminal fardin@fardin: ~/Music/cmake-3.26.4$ git clone https://github.com/PARC/CCNx_Distillery
Cloning into 'CCNx_Distillery'...
remote: Enumerating objects: 534, done.
remote: Total 534 (delta 0), reused 0 (delta 0), pack-reused 534
Receiving objects: 100% (534/534), 107.63 KiB | 781.00 KiB/s, done.
Resolving deltas: 100% (321/321), done.
fardin@fardin:~/Music/cmake-3.26.4$
```

## 11.cd CCNx\_Distillery



```
Activities Applications Terminal fardin@fardin: ~/Music/cmake-3.26.4$ cd CCNx_Distillery
fardin@fardin: ~/Music/cmake-3.26.4$
```

## 12.make dependencies

```
Activities Applications Terminal fardin@fardin: ~/Music/cmake-3.26.4/CCNx_Distillery
Please see the config.local.mk file for more information
make[1]: *** [Makefile:465: ubuntu-check-system] Error 1
make[1]: Leaving directory '/home/fardin/Music/cmake-3.26.4/CCNx_Distillery/dependencies'
make: *** [Makefile:201: dependencies] Error 2
fardin@fardin:~/Music/cmake-3.26.4/CCNx_Distillery$ sudo nano config/config.mk
fardin@fardin:~/Music/cmake-3.26.4/CCNx_Distillery$ sudo nano config/config.mk
fardin@fardin:~/Music/cmake-3.26.4/CCNx_Distillery$ make dependencies
make[1]: Entering directory '/home/fardin/Music/cmake-3.26.4/CCNx_Distillery/dependencies'
make[2]: Entering directory '/home/fardin/Music/cmake-3.26.4/CCNx_Distillery/dependencies'
make[2]: Leaving directory '/home/fardin/Music/cmake-3.26.4/CCNx_Distillery/dependencies'
make directory_warning
make[2]: Entering directory '/home/fardin/Music/cmake-3.26.4/CCNx_Distillery/dependencies'
*****
Distillery will attempt to create the dependency directories if they don't exist.
If this fails you should create the directories yourself with the following commands:
sudo mkdir /usr/local/ccnx/dependencies/build-tools /usr/local/ccnx/dependencies/build /usr/local/ccnx/dependencies /usr/local/ccnx/dependencies/download
sudo chown fardin /usr/local/ccnx/dependencies/build-tools /usr/local/ccnx/dependencies/build /usr/local/ccnx/dependencies /usr/local/ccnx/dependencies/download
sudo chmod 755 /usr/local/ccnx/dependencies/build-tools /usr/local/ccnx/dependencies/build /usr/local/ccnx/dependencies /usr/local/ccnx/dependencies/download

OR

make -C dependencies fix-as-root
make[2]: Leaving directory '/home/fardin/Music/cmake-3.26.4/CCNx_Distillery/dependencies'
mkdir: cannot create directory '/usr/local/ccnx': Permission denied
make[1]: *** [Makefile:431: /usr/local/ccnx/dependencies/build-tools] Error 1
make[1]: Leaving directory '/home/fardin/Music/cmake-3.26.4/CCNx_Distillery/dependencies'
make: *** [Makefile:201: dependencies] Error 2
fardin@fardin:~/Music/cmake-3.26.4/CCNx_Distillery$ make -C dependencies fix-as-root
make: Entering directory '/home/fardin/Music/cmake-3.26.4/CCNx_Distillery/dependencies'
sudo apt-get install libssl-dev openssl flex bison expat libexpat1-dev libpcap-dev libevent-dev g++ libpcre3-dev python-dev uncrustify doxygen
Reading package lists... Done
Building dependency tree
Building state information... Done
Note! selecting 'python-dev-is-python2' instead of 'python-dev'
g++ is already the newest version (4:9.3.0-1ubuntu2).
g++ set to manually installed.
libvulkan is already the newest version (1:8.17-1ubuntu12)
fardin@fardin:~/Music/cmake-3.26.4/CCNx_Distillery$
```

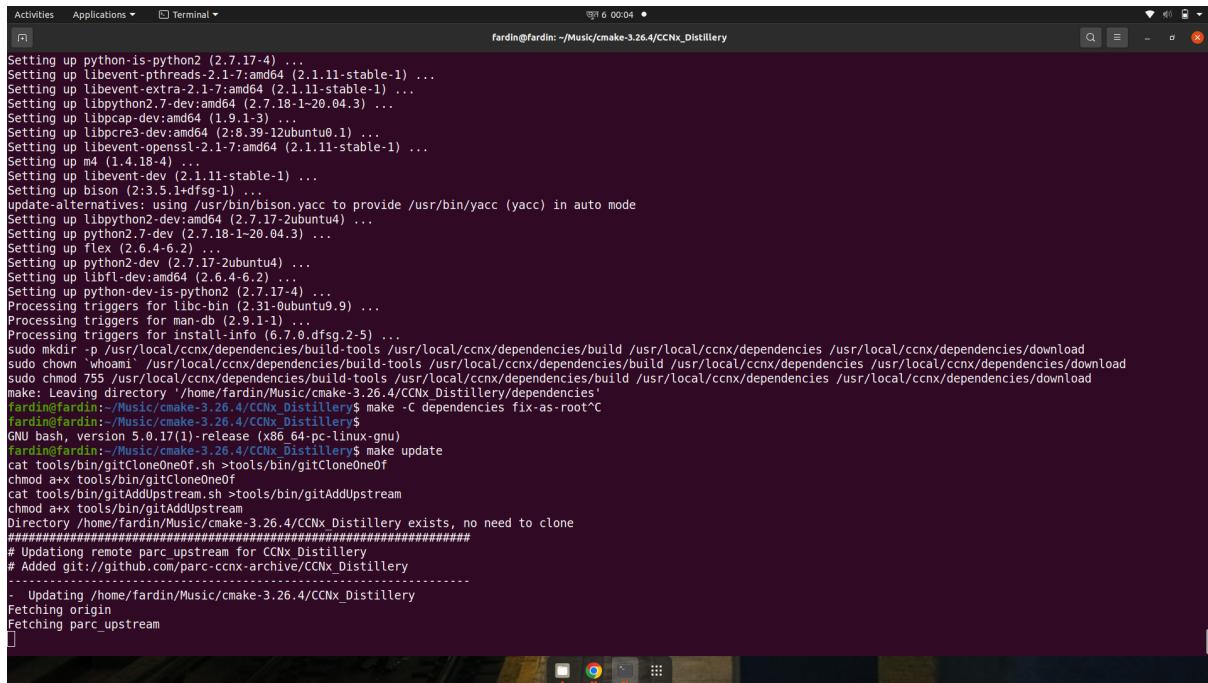
### 13. make -C dependencies fix-as-root

```
Activities Applications Terminal fardin@fardin: ~/Music/cmake-3.26.4/CCNx_Distillery
Please see the config.local.mk file for more information
make[1]: *** [Makefile:465: ubuntu-check-system] Error 1
make[1]: Leaving directory '/home/fardin/Music/cmake-3.26.4/CCNx_Distillery/dependencies'
make: *** [Makefile:201: dependencies] Error 2
fardin@fardin:~/Music/cmake-3.26.4/CCNx_Distillery$ sudo nano config/config.mk
fardin@fardin:~/Music/cmake-3.26.4/CCNx_Distillery$ sudo nano config/config.mk
fardin@fardin:~/Music/cmake-3.26.4/CCNx_Distillery$ make dependencies
make[1]: Entering directory '/home/fardin/Music/cmake-3.26.4/CCNx_Distillery/dependencies'
make[2]: Entering directory '/home/fardin/Music/cmake-3.26.4/CCNx_Distillery/dependencies'
make[2]: Leaving directory '/home/fardin/Music/cmake-3.26.4/CCNx_Distillery/dependencies'
make directory_warning
make[2]: Entering directory '/home/fardin/Music/cmake-3.26.4/CCNx_Distillery/dependencies'
*****
Distillery will attempt to create the dependency directories if they don't exist.
If this fails you should create the directories yourself with the following commands:
sudo mkdir -p /usr/local/ccnx/dependencies/build-tools /usr/local/ccnx/dependencies/build /usr/local/ccnx/dependencies /usr/local/ccnx/dependencies/download
sudo chown fardin /usr/local/ccnx/dependencies/build-tools /usr/local/ccnx/dependencies/build /usr/local/ccnx/dependencies /usr/local/ccnx/dependencies/download
sudo chmod 755 /usr/local/ccnx/dependencies/build-tools /usr/local/ccnx/dependencies/build /usr/local/ccnx/dependencies /usr/local/ccnx/dependencies/download

OR

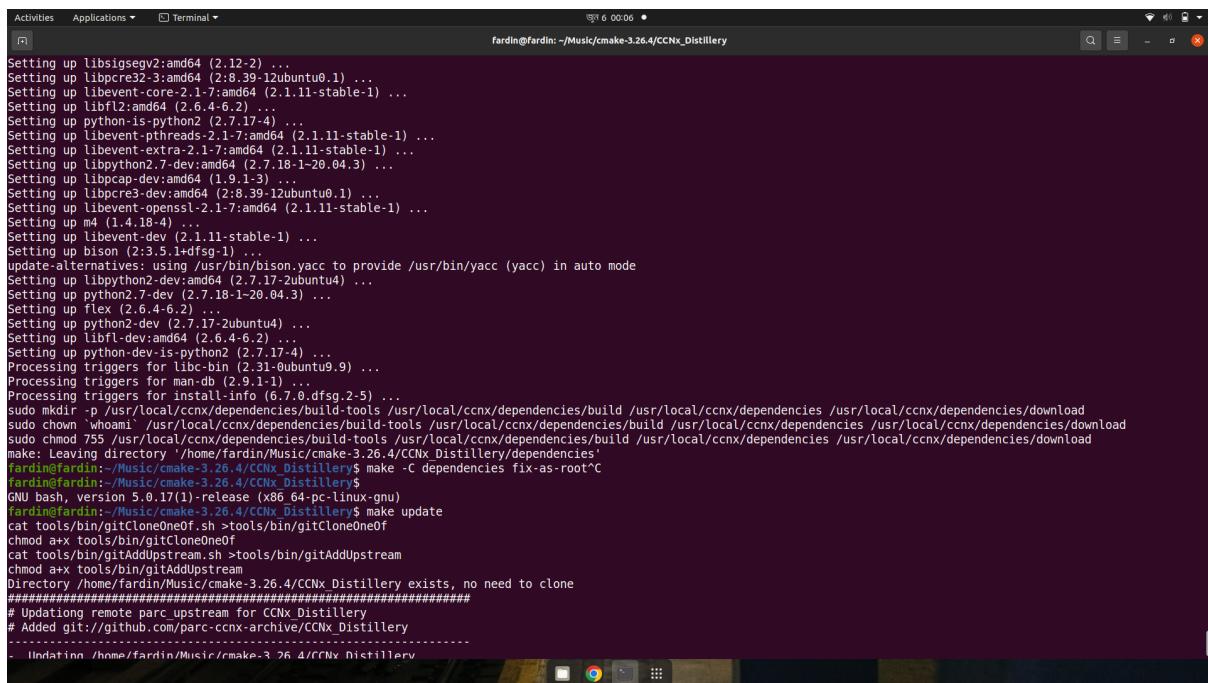
make -C dependencies fix-as-root
make[2]: Leaving directory '/home/fardin/Music/cmake-3.26.4/CCNx_Distillery/dependencies'
mkdir: cannot create directory '/usr/local/ccnx': Permission denied
mkdir: cannot create directory '/usr/local/ccnx': Permission denied
mkdir: cannot create directory '/usr/local/ccnx': Permission denied
make[1]: *** [Makefile:431: /usr/local/ccnx/dependencies/build-tools] Error 1
make[1]: Leaving directory '/home/fardin/Music/cmake-3.26.4/CCNx_Distillery/dependencies'
make: *** [Makefile:201: dependencies] Error 2
fardin@fardin:~/Music/cmake-3.26.4/CCNx_Distillery$ make -C dependencies fix-as-root
make: Entering directory '/home/fardin/Music/cmake-3.26.4/CCNx_Distillery/dependencies'
sudo apt-get install libssl-dev openssl flex bison expat libexpat1-dev libpcap-dev libevent-dev g++ libpcre3-dev python-dev uncrustify doxygen
Reading package lists... Done
Building dependency tree
Building state information... Done
Note! selecting 'python-dev-is-python2' instead of 'python-dev'
g++ is already the newest version (4:9.3.0-1ubuntu2).
g++ set to manually installed.
libvulkan is already the newest version (1:8.17-1ubuntu12)
fardin@fardin:~/Music/cmake-3.26.4/CCNx_Distillery$
```

## 14. make update



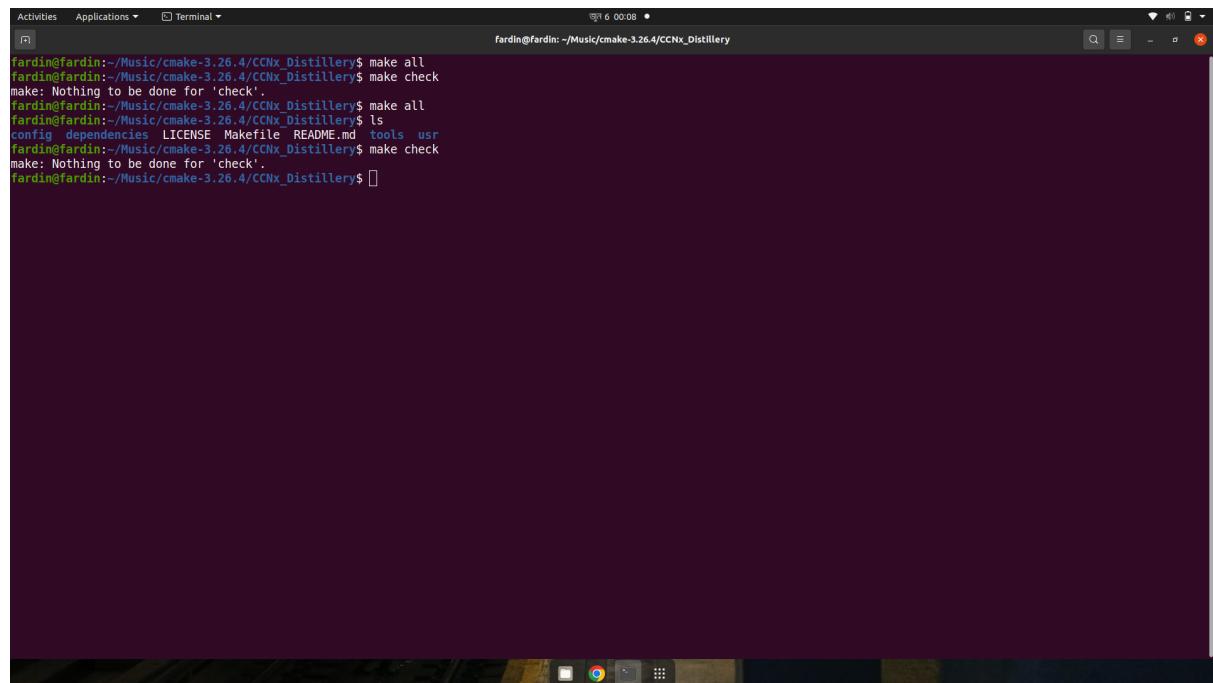
```
Activities Applications Terminal fardin@fardin: ~/Music/cmake-3.26.4/CCNx_Distillery
Setting up python-is-python2 (2.7.17-4) ...
Setting up libevent-pthreads-2.1.7:amd64 (2.1.11-stable-1) ...
Setting up libevent-extra-2.1.7:amd64 (2.1.11-stable-1) ...
Setting up libpython2.7-dev:amd64 (2.7.18-1-20.04.3) ...
Setting up libpcap-dev:amd64 (1.9.1-3) ...
Setting up libpcre3-dev:amd64 (2.8.39-12ubuntu0.1) ...
Setting up libevent-openssl-2.1.7:amd64 (2.1.11-stable-1) ...
Setting up m4 (1.4.18-4) ...
Setting up libevent-dev (2.1.11-stable-1) ...
Setting up bison (2:3.5.1+dfsg-1) ...
update-alternatives: using /usr/bin/bison.yacc to provide /usr/bin/yacc (yacc) in auto mode
Setting up libpython2.7-dev:amd64 (2.7.17-2ubuntu4) ...
Setting up python2.7-dev (2.7.18-1-20.04.3) ...
Setting up flex (2.6.4-6.2) ...
Setting up python2-dev (2.7.17-2ubuntu4) ...
Setting up libfl-dev:amd64 (2.6.4-6.2) ...
Setting up python-dev-is-python2 (2.7.17-4) ...
Processing triggers for libc-bin (2.31-0ubuntu9.9) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for install-info (6.7.0.dfsg.2-5) ...
sudo mkdir -p /usr/local/ccnx/dependencies/build-tools /usr/local/ccnx/dependencies/build /usr/local/ccnx/dependencies /usr/local/ccnx/dependencies/download
sudo chown 'whoami' /usr/local/ccnx/dependencies/build-tools /usr/local/ccnx/dependencies/build /usr/local/ccnx/dependencies /usr/local/ccnx/dependencies/download
sudo chmod 755 /usr/local/ccnx/dependencies/build-tools /usr/local/ccnx/dependencies/build /usr/local/ccnx/dependencies /usr/local/ccnx/dependencies/download
make: Leaving directory '/home/fardin/Music/cmake-3.26.4/CCNx Distillery/dependencies'
fardin@fardin: ~/Music/cmake-3.26.4/CCNx_Distillery$ make -C dependencies fix-as-root`c
fardin@fardin: ~/Music/cmake-3.26.4/CCNx_Distillery$ GNU bash, version 5.0.17(1)-release (x86_64-pc-linux-gnu)
fardin@fardin: ~/Music/cmake-3.26.4/CCNx_Distillery$ make update
cat tools/bin/gitCloneOneOf.sh >tools/bin/gitCloneOneOf
chmod a+x tools/bin/gitCloneOneOf
cat tools/bin/gitAddUpstream.sh >tools/bin/gitAddUpstream
chmod a+x tools/bin/gitAddUpstream
chmod a+x tools/bin/gitAddUpstream
Directory /home/fardin/Music/cmake-3.26.4/CCNx Distillery exists, no need to clone
#####
# Updating remote parc_upstream for CCNx Distillery
# Added git://github.com/parc-ccnx-archive/CCNx Distillery
-----
- Updating /home/fardin/Music/cmake-3.26.4/CCNx Distillery
Fetching origin
Fetching parc_upstream
[]
```

## 15. Make all



```
Activities Applications Terminal fardin@fardin: ~/Music/cmake-3.26.4/CCNx_Distillery
Setting up libsigsegv2:amd64 (2.12-2) ...
Setting up libpcre3-3:amd64 (2:8.39-12ubuntu0.1) ...
Setting up libevent-core-2.1.7:amd64 (2.1.11-stable-1) ...
Setting up libfl2:amd64 (2.6.4-6.2) ...
Setting up python-is-python2 (2.7.17-4) ...
Setting up libevent-pthreads-2.1.7:amd64 (2.1.11-stable-1) ...
Setting up libevent-extra-2.1.7:amd64 (2.1.11-stable-1) ...
Setting up libpython2.7-dev:amd64 (2.7.18-1-20.04.3) ...
Setting up libpcap-dev:amd64 (1.9.1-3) ...
Setting up libpcre3-dev:amd64 (2:8.39-12ubuntu0.1) ...
Setting up libevent-openssl-2.1.7:amd64 (2.1.11-stable-1) ...
Setting up m4 (1.4.18-4) ...
Setting up libevent-dev (2.1.11-stable-1) ...
Setting up bison (2:3.5.1+dfsg-1) ...
update-alternatives: using /usr/bin/bison.yacc to provide /usr/bin/yacc (yacc) in auto mode
Setting up libpython2.7-dev:amd64 (2.7.17-2ubuntu4) ...
Setting up python2.7-dev (2.7.18-1-20.04.3) ...
Setting up flex (2.6.4-6.2) ...
Setting up python2-dev (2.7.17-2ubuntu4) ...
Setting up libfl-dev:amd64 (2.6.4-6.2) ...
Setting up python-dev-is-python2 (2.7.17-4) ...
Processing triggers for libc-bin (2.31-0ubuntu9.9) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for install-info (6.7.0.dfsg.2-5) ...
sudo mkdir -p /usr/local/ccnx/dependencies/build-tools /usr/local/ccnx/dependencies/build /usr/local/ccnx/dependencies /usr/local/ccnx/dependencies/download
sudo chown 'whoami' /usr/local/ccnx/dependencies/build-tools /usr/local/ccnx/dependencies/build /usr/local/ccnx/dependencies /usr/local/ccnx/dependencies/download
sudo chmod 755 /usr/local/ccnx/dependencies/build-tools /usr/local/ccnx/dependencies/build /usr/local/ccnx/dependencies /usr/local/ccnx/dependencies/download
make: Leaving directory '/home/fardin/Music/cmake-3.26.4/CCNx Distillery/dependencies'
fardin@fardin: ~/Music/cmake-3.26.4/CCNx_Distillery$ make -C dependencies fix-as-root`c
fardin@fardin: ~/Music/cmake-3.26.4/CCNx_Distillery$ GNU bash, version 5.0.17(1)-release (x86_64-pc-linux-gnu)
fardin@fardin: ~/Music/cmake-3.26.4/CCNx_Distillery$ make update
cat tools/bin/gitCloneOneOf.sh >tools/bin/gitCloneOneOf
chmod a+x tools/bin/gitCloneOneOf
cat tools/bin/gitAddUpstream.sh >tools/bin/gitAddUpstream
chmod a+x tools/bin/gitAddUpstream
chmod a+x tools/bin/gitAddUpstream
Directory /home/fardin/Music/cmake-3.26.4/CCNx Distillery exists, no need to clone
#####
# Updating remote parc_upstream for CCNx Distillery
# Added git://github.com/parc-ccnx-archive/CCNx Distillery
-----
- Updating /home/fardin/Music/cmake-3.26.4/CCNx Distillery
```

## 16. Make check



A screenshot of a Linux desktop environment. At the top, there is a horizontal menu bar with "Activities", "Applications", and a "Terminal" icon. Below the menu bar is a window titled "fardin@fardin: ~/Music/cmake-3.26.4/CCNx\_Distillery". The window contains a terminal session with the following text:

```
fardin@fardin:~/Music/cmake-3.26.4/CCNx_Distillery$ make all
fardin@fardin:~/Music/cmake-3.26.4/CCNx_Distillery$ make check
make: Nothing to be done for 'check'.
fardin@fardin:~/Music/cmake-3.26.4/CCNx_Distillery$ make all
fardin@fardin:~/Music/cmake-3.26.4/CCNx_Distillery$ ls
config dependencies LICENSE Makefile README.md tools usr
fardin@fardin:~/Music/cmake-3.26.4/CCNx_Distillery$ make check
make: Nothing to be done for 'check'.
fardin@fardin:~/Music/cmake-3.26.4/CCNx_Distillery$ []
```

The desktop background is dark, and the bottom of the screen shows a dock with several icons.