

Report:

Linux:

Building:

```
surabhi@DESKTOP-LPA07AN:~/Canonical/build$ cd build/
surabhi@DESKTOP-LPA07AN:~/Canonical/build$ cmake ..
-- The C compiler identification is GNU 11.3.0
-- The CXX compiler identification is GNU 11.3.0
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Check for working C compiler: /usr/bin/cc - skipped
-- Detecting C compile features
-- Detecting C compile features - done
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Check for working CXX compiler: /usr/bin/c++ - skipped
-- Detecting CXX compile features
-- Detecting CXX compile features - done

CMake Deprecation Warning at build/_deps/json-src/CMakeLists.txt:1 (cmake_minimum_required):
  Compatibility with CMake < 3.5 will be removed from a future version of
  CMake.

  Update the VERSION argument <min> value or use a ...>max suffix to tell
  CMake that the project does not need compatibility with older versions.

-- Using the single-header code from /home/surabhi/Canonical/build/_deps/json-src/single_include/
-- Found CURL: /usr/lib/x86_64-linux-gnu/libcurl.so (found version "8.5.0")
-- Configuring done (31.1s)
-- Generating done (0.0s)
-- Build files have been written to: /home/surabhi/Canonical/build
surabhi@DESKTOP-LPA07AN:~/Canonical/build$ make -j$(nproc)
[ 66%] Building CXX object CMakeFiles/main.dir/src/main.cpp.o
[ 66%] Building CXX object CMakeFiles/main.dir/src/fetchubuntuimage.cpp.o
[100%] Linking CXX executable main
[100%] Built target main
```

Running main.exe with no parameters:

```
surabhi@DESKTOP-LPA07AN:~/Canonical/build$ ./main
Usage: ./main --listAll
./main --currentLTSVersion
./main --sha256 release
```

1) listAll: To list all currently supported Ubuntu releases for AMD64 architecture

```
surabhi@DESKTOP-LPA07AN:~/Canonical/build$ ./main --listAll
List of all (amd64) releases:
18.04 LTS
18.10
19.04
19.10
20.04 LTS
20.10
21.04
21.10
22.04 LTS
22.10
23.04
23.10
24.04 LTS
24.10
```

2) currentLTSVersion: To get the current LTS version

```
surabhi@DESKTOP-LPA07AN:~/Canonical/build$ ./main --currentLTSVersion
Current LTS version: 24.04
```

3) sha256: To get the sha256 checksum of the disk1.img item of a given Ubuntu release

Usage: ./main --sha256 release

```
surabhi@DESKTOP-LPA07AN:~/Canonical/build$ ./main --sha256 24.04
SHA256 checksum for 24.04: 1806ba7d346b9a7193e1859df41cfea9dc36fc92378c79b6122e68bc4c9e4d48
```

Windows:

Building:

```
PS C:\Users\Naveen> New-Item -Path "C:\Users\Naveen\Documents\Visual Studio 2022\Projects\MyProject\bin\Debug\MyProject.exe"
Building for Visual Studio 17.0.2021
--
Selecting Windows SDK version 10.0.22H2.0 to target Windows 10.0.22H2.0.
The C++ compiler identification is Visual Studio 17.0.2021
The CXX compiler identification is Visual Studio 17.0.2021
Detecting C compiler ABI info
Detecting C compiler ABI info - done
Check for working C compiler: C:\Program Files\Microsoft Visual Studio\2022\Community\VC\Tools\MSVC\14.42.34433\bin\Hostx64\x64\cl.exe - skipped
Detecting C compiler features
Detecting C compiler features - done
Detecting CXX compiler ABI info
Detecting CXX compiler ABI info - done
Check for working CXX compiler: C:\Program Files\Microsoft Visual Studio\2022\Community\VC\Tools\MSVC\14.42.34433\bin\Hostx64\x64\cl.exe - skipped
Detecting CXX compiler features
Detecting CXX compiler features - done
Found asan installed at: C:\Program Files\Microsoft Visual Studio\2022\Community\VC\Tools\MSVC\14.42.34433\bin\Hostx64\x64\asan.exe (found suitable version "11.0.1", minimum required is "9")
Configuring done (0.21s)
Generating done (0.0s)
--
Build files have been written to: C:\Users\Naveen\Documents\Visual Studio 2022\Projects\MyProject\bin\Debug\MyProject.exe
PS C:\Users\Naveen\Documents\Visual Studio 2022\Projects\MyProject\bin\Debug> .\MyProject.exe
Build version 17.0.2021 available for .NET Framework

Unloading Build System
Building Custom Rule C:\Users\Naveen\Documents\Visual Studio 2022\Projects\MyProject\bin\Debug\MyProject.exe
MyProject.exe
Generating Code...
Building Custom Rule C:\Users\Naveen\Documents\Visual Studio 2022\Projects\MyProject\bin\Debug\MyProject.exe
Building Custom Rule C:\Users\Naveen\Documents\Visual Studio 2022\Projects\MyProject\bin\Debug\MyProject.exe
```

1) listAll: To list all currently supported Ubuntu releases for AMD64 architecture

```
PS C:\Sarabhi\Resume\New Resume\New\Canonical\Linux\build\Debug> ./main.exe --listall
List of all (amd64) releases:
10.04 LTS
10.10
11.04
11.10
12.04 LTS
12.10
13.04
13.10
14.04 LTS
14.10
15.04
15.10
16.04 LTS
16.10
17.04
17.10
18.04 LTS
18.10
19.04
19.10
20.04 LTS
20.10
21.04
21.10
22.04 LTS
22.10
23.04
23.10
24.04 LTS
24.10
```

2) `currentLTSVersion`: To get the current LTS version

```
PS C:\Surabhi\Resume\New Resume\Neww\Canonical\Linux\build\Debug> .\main.exe --currentLTSVersion
Current LTS version: 24.04
```

3) sha256: To get the sha256 checksum of the disk1.img item of a given Ubuntu release
Usage: `./main -sha256 release`

```
PS C:\Surabhi\Resume\New Resume\Neww\Canonical\Linux\build\Debug> .\main.exe --sha256 24.04
SHA256 checksum for 24.04: 1806ba7d346b9a7193e1859df41cfea9dc36fc92378c79b6122e68bc4c9e4d48
```