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1. qBittorrent – klient P2P sieci BitTorrent napisany przy użyciu języka C++ oraz biblioteki Qt w wersji 4.1. Program jest rozpowszechniany na licencji GPL. Twórcą projektu jest francuski student Christophe Dumez, oparł on swój projekt na bibliotece libtorrent autorstwa Arvida Norberga, przez co ten projekt można łatwo przenosić pomiędzy różnymi platformami.

## 2. Instalacja

```
kali@kali:~$ wget https://github.com/qbittorrent/qBittorrent/archive/refs/tags/release-4.3.5.tar.gz
--2021-07-05 19:13:08-- https://github.com/qbittorrent/qBittorrent/archive/refs/tags/release-4.3.5
.tar.gz
Resolving github.com (github.com) ... 140.82.121.3
Connecting to github.com (github.com)|140.82.121.3|:443 ... connected.
HTTP request sent, awaiting response ... 302 Found
Location: https://codeload.github.com/qbittorrent/qBittorrent/tar.gz/refs/tags/release-4.3.5 [follo
wing]
--2021-07-05 19:13:09-- https://codeload.github.com/qbittorrent/qBittorrent/tar.gz/refs/tags/relea
se-4.3.5
Resolving codeload.github.com (codeload.github.com) ... 140.82.121.9
Connecting to codeload.github.com (codeload.github.com)|140.82.121.9|:443 ... connected.
HTTP request sent, awaiting response ... 200 OK
Length: unspecified [application/x-gzip]
Saving to: 'release-4.3.5.tar.gz'

release-4.3.5.tar.gz      [          ] 7.75M  928KB/s   in 8.1s

2021-07-05 19:13:18 (976 KB/s) - 'release-4.3.5.tar.gz' saved [8128281]
```

```
kali@kali:~$ tar -vxf release-4.3.5.tar.gz
```

```
qBittorrent-release-4.3.5/vcpkg/
qBittorrent-release-4.3.5/vcpkg/libtorrent/
qBittorrent-release-4.3.5/vcpkg/libtorrent/CONTROL
qBittorrent-release-4.3.5/vcpkg/libtorrent/no_use_iconv.patch
qBittorrent-release-4.3.5/vcpkg/libtorrent/portfile.cmake
qBittorrent-release-4.3.5/vcpkg/libtorrent/readme.md
qBittorrent-release-4.3.5/version.pri
qBittorrent-release-4.3.5/winconf.pri
kali@kali:~$
```

Pakiety:

```
kali@kali:~/qBittorrent-release-4.2.4$ sudo apt install libboost-dev
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
libboost-dev is already the newest version (1.74.0.3).
0 upgraded, 0 newly installed, 0 to remove and 9 not upgraded.
```

```
kali@kali:~/qBittorrent-release-4.2.4$ sudo apt install libtorrent-rasterbar-dev
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
libtorrent-rasterbar-dev is already the newest version (1.2.9-0.3).
0 upgraded, 0 newly installed, 0 to remove and 9 not upgraded.
```

```
kali@kali:~/qBittorrent-release-4.2.4$ sudo apt install openssl
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
openssl is already the newest version (1.1.1k-1).
0 upgraded, 0 newly installed, 0 to remove and 9 not upgraded.
```

```
kali@kali:~/qBittorrent-release-4.2.4$ sudo apt install libz-mingw-w64-dev
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libz-mingw-w64
The following NEW packages will be installed:
  libz-mingw-w64 libz-mingw-w64-dev
0 upgraded, 2 newly installed, 0 to remove and 9 not upgraded.
```

```
kali@kali:~/qBittorrent-release-4.2.4$ sudo apt install qt5-default
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Package qt5-default is not available, but is referred to by another package.
This may mean that the package is missing, has been obsoleted, or
is only available from another source

E: Package 'qt5-default' has no installation candidate
```

```
kali@kali:~/qBittorrent-release-4.2.4$ sudo apt install pkg-config
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
pkg-config is already the newest version (0.29.2-1).
pkg-config set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 9 not upgraded.
```

```
kali@kali:~/qBittorrent-release-4.2.4$ ./configure
checking for gcc... gcc
checking whether the C compiler works... yes
checking for C compiler default output file name... a.out
checking for suffix of executables...
checking whether we are cross compiling... no
checking for suffix of object files... o
checking whether we are using the GNU C compiler... yes
checking whether gcc accepts -g... yes
checking for gcc option to accept ISO C89... none needed
checking whether gcc understands -c and -o together... yes
checking for g++... g++
checking whether we are using the GNU C++ compiler... yes
checking whether g++ accepts -g... yes
checking for a sed that does not truncate output... /usr/bin/sed
checking build system type... x86_64-pc-linux-gnu
checking host system type... x86_64-pc-linux-gnu
checking for a BSD-compatible install... /usr/bin/install -c
checking whether build environment is sane... yes
checking for a thread-safe mkdir -p... /usr/bin/mkdir -p
checking for gawk... gawk
checking whether make sets $(MAKE)... yes
checking whether make supports the include directive... yes (GNU)
checking whether make supports nested variables... yes
checking dependency style of gcc... none
checking dependency style of g++... none
checking whether OS is FreeBSD... no
checking whether OS is macOS... no
checking for pkg-config... /usr/bin/pkg-config
checking pkg-config is at least version 0.23... yes
checking whether to enable the Debug build... no
checking whether to enable the stacktrace feature... yes
checking whether to enable the GUI... yes
checking whether to install the systemd service file... no
checking whether to enable the WebUI... yes
```

```
checking whether to install the systemd service file... no
checking whether to enable the WebUI... yes
checking for Qt5 qmake ≥ 5.9.0... not found
configure: error: Could not find qmake
```

```
kali@kali:~/qBittorrent-release-4.2.4$ sudo apt-get install -y qt5-qmake
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  qt5-qmake-bin
The following NEW packages will be installed:
  qt5-qmake qt5-qmake-bin
0 upgraded, 2 newly installed, 0 to remove and 9 not upgraded.
Need to get 1,290 kB of archives.
After this operation, 4,773 kB of additional disk space will be used.
Get:1 http://http.kali.org/kali kali-rolling/main amd64 qt5-qmake-bin amd64 5.15.2+dfsg-7 [1,041 kB]
Get:2 http://http.kali.org/kali kali-rolling/main amd64 qt5-qmake amd64 5.15.2+dfsg-7 [249 kB]
Fetched 1,290 kB in 2s (629 kB/s)
Selecting previously unselected package qt5-qmake-bin.
(Reading database ... 343432 files and directories currently installed.)
Preparing to unpack .../qt5-qmake-bin_5.15.2+dfsg-7_amd64.deb ...
Unpacking qt5-qmake-bin (5.15.2+dfsg-7) ...
Selecting previously unselected package qt5-qmake:amd64.
Preparing to unpack .../qt5-qmake_5.15.2+dfsg-7_amd64.deb ...
Unpacking qt5-qmake:amd64 (5.15.2+dfsg-7) ...
Setting up qt5-qmake-bin (5.15.2+dfsg-7) ...
Setting up qt5-qmake:amd64 (5.15.2+dfsg-7) ...
```

```
kali@kali:~/qBittorrent-release-4.2.4$ sudo apt-get install -y qt5-default
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Package qt5-default is not available, but is referred to by another package.
This may mean that the package is missing, has been obsoleted, or
is only available from another source

E: Package 'qt5-default' has no installation candidate
kali@kali:~/qBittorrent-release-4.2.4$ aptitude show qt5-default
aptitude: command not found
kali@kali:~/qBittorrent-release-4.2.4$ sudo apt-get install qt5-qmake
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
qt5-qmake is already the newest version (5.15.2+dfsg-7).
0 upgraded, 0 newly installed, 0 to remove and 9 not upgraded.
kali@kali:~/qBittorrent-release-4.2.4$ ./configure
```

```

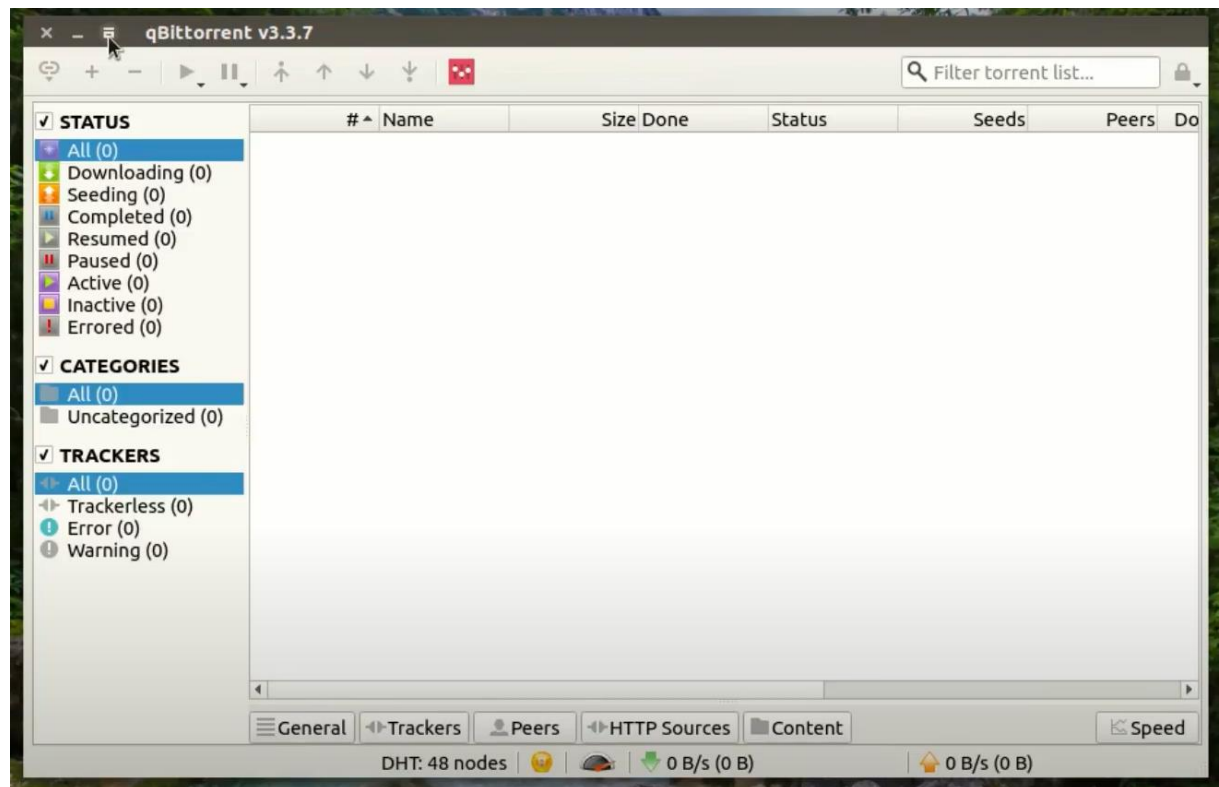
kali@kali:~/qBittorrent-release-4.2.4$ which -a qmake
/usr/bin/qmake
/bin/qmake
kali@kali:~/qBittorrent-release-4.2.4$ qmake -v
QMake version 3.1
Using Qt version 5.15.2 in /usr/lib/x86_64-linux-gnu
kali@kali:~/qBittorrent-release-4.2.4$ /usr/bin/qmake -query
QT_SYSROOT:
QT_INSTALL_PREFIX:/usr
QT_INSTALL_ARCHDATA:/usr/lib/x86_64-linux-gnu/qt5
QT_INSTALL_DATA:/usr/share/qt5
QT_INSTALL_DOCS:/usr/share/qt5/doc
QT_INSTALL_HEADERS:/usr/include/x86_64-linux-gnu/qt5
QT_INSTALL_LIBS:/usr/lib/x86_64-linux-gnu
QT_INSTALL_LIBEXEC:/usr/lib/x86_64-linux-gnu/qt5/libexec
QT_INSTALL_BINS:/usr/lib/qt5/bin
QT_INSTALL_TESTS:/usr/tests
QT_INSTALL_PLUGINS:/usr/lib/x86_64-linux-gnu/qt5/plugins
QT_INSTALL_IMPORTS:/usr/lib/x86_64-linux-gnu/qt5/imports
QT_INSTALL_QML:/usr/lib/x86_64-linux-gnu/qt5/qml
QT_INSTALL_TRANSLATIONS:/usr/share/qt5/translations
QT_INSTALL_CONFIGURATION:/etc/xdg
QT_INSTALL_EXAMPLES:/usr/lib/x86_64-linux-gnu/qt5/examples
QT_INSTALL_DEMOS:/usr/lib/x86_64-linux-gnu/qt5/examples
QT_HOST_PREFIX:/usr
QT_HOST_DATA:/usr/lib/x86_64-linux-gnu/qt5
QT_HOST_BINS:/usr/lib/qt5/bin
QT_HOST_LIBS:/usr/lib/x86_64-linux-gnu
QMAKE_SPEC:linux-g++
QMAKE_XSPEC:linux-g++
QMAKE_VERSION:3.1
QT_VERSION:5.15.2
kali@kali:~/qBittorrent-release-4.2.4$ qmake -v
QMake version 3.1
Using Qt version 5.15.2 in /usr/lib/x86_64-linux-gnu
kali@kali:~/qBittorrent-release-4.2.4$ /usr/bin/qmake -query
QT_SYSROOT:
QT_INSTALL_PREFIX:/usr
QT_INSTALL_ARCHDATA:/usr/lib/x86_64-linux-gnu/qt5
QT_INSTALL_DATA:/usr/share/qt5
QT_INSTALL_DOCS:/usr/share/qt5/doc
QT_INSTALL_HEADERS:/usr/include/x86_64-linux-gnu/qt5
QT_INSTALL_LIBS:/usr/lib/x86_64-linux-gnu
QT_INSTALL_LIBEXEC:/usr/lib/x86_64-linux-gnu/qt5/libexec
QT_INSTALL_BINS:/usr/lib/qt5/bin
QT_INSTALL_TESTS:/usr/tests
QT_INSTALL_PLUGINS:/usr/lib/x86_64-linux-gnu/qt5/plugins
QT_INSTALL_IMPORTS:/usr/lib/x86_64-linux-gnu/qt5/imports
QT_INSTALL_QML:/usr/lib/x86_64-linux-gnu/qt5/qml

```

### 3. Działanie

Działanie tego programu jest podobne do każdego klienta torrent.  
Interfejs wygląda następująco.





#### 4. Zależności

- libtorrent-rasterbar-dev,
- Qt5-default
- libboost-dev
- OpenSSL
- pkg-config
- libz-mingw-w64-dev

#### 5 Wnoski

Nie udało mi się zainstalować pakietów ponieważ miał problem qt5

Przejrzałem te kilkanaście stron i to nie pomogło:

<https://askubuntu.com/questions/1318043/uninstalling-qt5>

<https://stackoverflow.com/questions/16607003/qmake-could-not-find-a-qt-installation-of>

<https://www.linux.org/threads/qmake-not-found.23766/>

<https://forum.qt.io/topic/107156/you-don-t-seem-to-have-make-or-qmake-in-your-path>

<https://gitmemory.com/issue/qbittorrent/qBittorrent/10992/516242681>

Program który wybrałem nadal jest ciekawy i warty użytku.

