

EthUpdater Manual

ethUpdater is an easy Ethereum installation tool for the Linux platform.

This tool will download the latest source code of go-ethereum, solidity, and epirus project, which then compiles the code and install them in the current directory.

You only have to install the prerequisite libraries for compiling Ethereum and add the installation path to your PATH environment variables.

If you are using the Blockchain Demo Environment

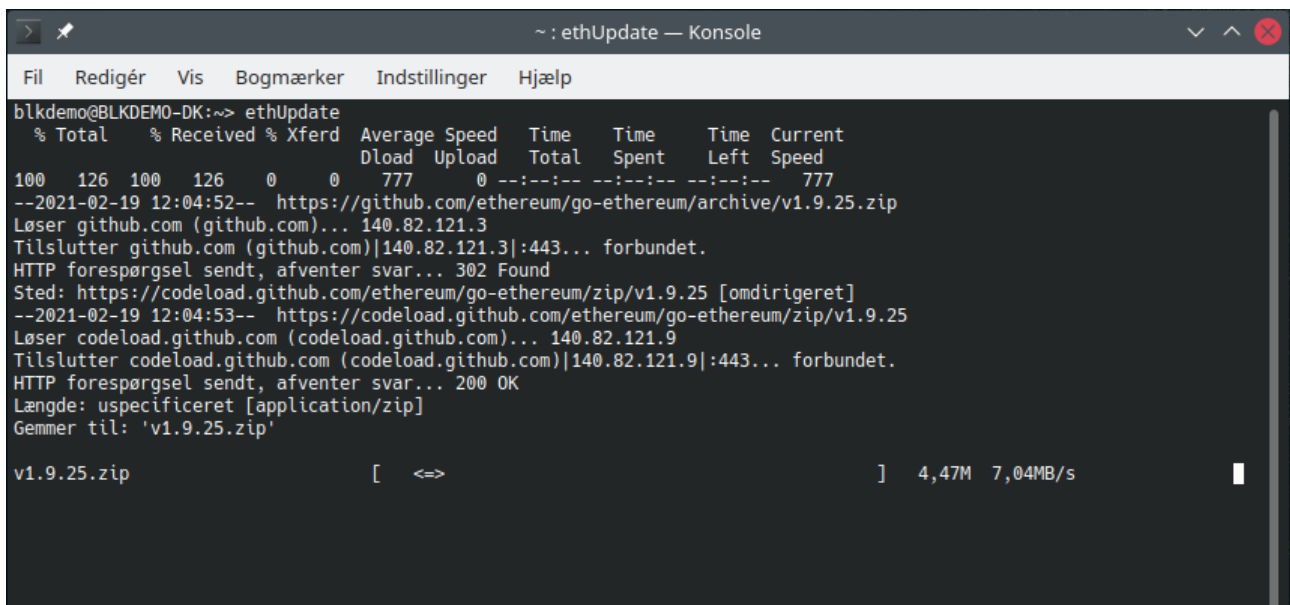
ethUpdater is a built-in tool in Blockchain Demo Environment.

To update the built-in Ethereum, please command:

```
cd /home/blkdemo/ethereum/
```

and

```
ethUpdate
```



```
blkdemo@BLKDEMO-DK:~> ethUpdate
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100 126 100 126 0 0 777 0 --:--:-- --:--:-- --:--:-- 777
--2021-02-19 12:04:52-- https://github.com/ethereum/go-ethereum/archive/v1.9.25.zip
Løser github.com (github.com)... 140.82.121.3
Tilslutter github.com (github.com)[140.82.121.3]:443... forbundet.
HTTP forespørgsel sendt, afventer svar... 302 Found
Sted: https://codeload.github.com/ethereum/go-ethereum/zip/v1.9.25 [omdirigeret]
--2021-02-19 12:04:53-- https://codeload.github.com/ethereum/go-ethereum/zip/v1.9.25
Løser codeload.github.com (codeload.github.com)... 140.82.121.9
Tilslutter codeload.github.com (codeload.github.com)[140.82.121.9]:443... forbundet.
HTTP forespørgsel sendt, afventer svar... 200 OK
Længde: uspecificeret [application/zip]
Gemmer til: 'v1.9.25.zip'

v1.9.25.zip [ <=> ] 4,47M 7,04MB/s
```

If you liked to install Ethereum using this tool

Although ethUpdater can determine and download the latest version of Ethereum and its toolset, it cannot determine whether your Linux system is installed with the required packages, since the package naming scheme varies from distro to distro.

- Determine your Linux Distro and Prepare the environment.

We provided a list of required packages to install before running ethUpdate (See the following table). If you are not able to determine the Linux distro that you are using or having trouble locating specific packages, please contact me at: weich@dtu.dk

Package Name	In Debian-based / Ubuntu-based Repo.	In RHEL-based / Fedora-based Repo.	In Novell-based / SUSE-based Repo.
Go compiler	golang		
GNU C compiler	gcc		
GNU C++ compiler	g++	gcc-c++	
OpenJDK 8	openjdk-8-jdk	java-1.8.0-openjdk	
make	make		

If you installed the above package correctly, you can proceed to the next step.

- Create the installation directory.

To keep the maintenance both as easy and as simple as possible, the tool will install the Ethereum Client and its toolset into the directory where ethUpdater located.

- Download and run ethUpdater

We provided a compiled executable for x86-64 Linux Platforms:

<https://github.com/tlchiu40209/ethCreateChain/blob/master/createChainV4-linux>

If you are using a computing platform rather than x86-64, you can download the source code and compile the code yourself.

<https://github.com/tlchiu40209/ethCreateChain/blob/master/createChainV4-linux.cpp>

The program relies on standard C++ and Linux Library, no additional package is required. You can compile the code by:

g++ ./createChainV4-linux.cpp

You can simply create a directory and place ethUpdater into the directory and run it. If you see this message, it means the program has finished the installation process.

```

~ : bash — Konsole
Fil  Redigér  Vis  Bogmærker  Indstillinger  Hjælp
Remember to add the installation path of Ethereum to your PATH variables in .bashrc
Please ignore this message if you are upgrading Ethereum
blkdemo@BLKDEMO-DK:~>

```

```
ethereum : bash — Konsole
Fil Redigér Vis Bogmærker Indstillinger Hjælp
blkdemo@BLKDEMO-DK:~/ethereum> ls -l
total 340812
-rwxr-xr-x 1 blkdemo users 25164536 17 feb 16:18 abidump
-rwxr-xr-x 1 blkdemo users 27745336 17 feb 16:19 abigen
-rwxr-xr-x 1 blkdemo users 26958560 17 feb 16:19 bootnode
-rwxr-xr-x 1 blkdemo users 27518456 17 feb 16:19 checkpoint-admin
-rwxr-xr-x 1 blkdemo users 38876240 17 feb 16:21 clef
-rwxr-xr-x 1 blkdemo users 24269288 17 feb 16:22 devp2p
lrwxrwxrwx 1 blkdemo users 23 17 feb 16:23 epirus -> ./epirus-cli/bin/epirus
drwxr-xr-x 1 blkdemo users 12 2 feb 12:20 epirus-cli
-rwxr-xr-x 1 blkdemo users 27176472 17 feb 16:22 ethkey
-rwxrwxr-x 1 blkdemo users 43008 17 feb 16:15 ethUpdate
-rwxr-xr-x 1 blkdemo users 27648080 17 feb 16:22 evm
-rwxr-xr-x 1 blkdemo users 31027048 17 feb 16:22 faucet
-rwxr-xr-x 1 blkdemo users 38661656 17 feb 16:22 geth
-rwxr-xr-x 1 blkdemo users 24273512 17 feb 16:22 p2psim
-rwxr-xr-x 1 blkdemo users 15703768 17 feb 16:23 puppeth
-rwxr-xr-x 1 blkdemo users 2377994 17 feb 16:23 rlpdump
-rwxrwxr-x 1 blkdemo users 11514424 27 jan 15:05 solc
blkdemo@BLKDEMO-DK:~/ethereum>
```

- Setup the PATH variable

For one time trail, you may command:

export PATH = path-to-eth-directory:\$PATH

If you want to have a permanent change to the PATH variable, consider adding the command into your .bashrc file.

If you liked to upgrade Ethereum installed by this tool

Please note : The tool can only upgrade the installation performed by this tool. If you manually installed Ethereum by other method, we suggest not to use this tool to upgrade your current Ethereum installation.

To upgrade your Ethereum installation, please command ethUpdate command again.