

*EtherCore Node Manual

0. Recommended hardware spec for running ethercore node

For PoW Mainnet: AWS for example, **m5a.4xlarge** is a recommended instance size (Over 8 CPU cores 16 threads 64 gigabyte of RAM) + More than 500GB of SSD free space.

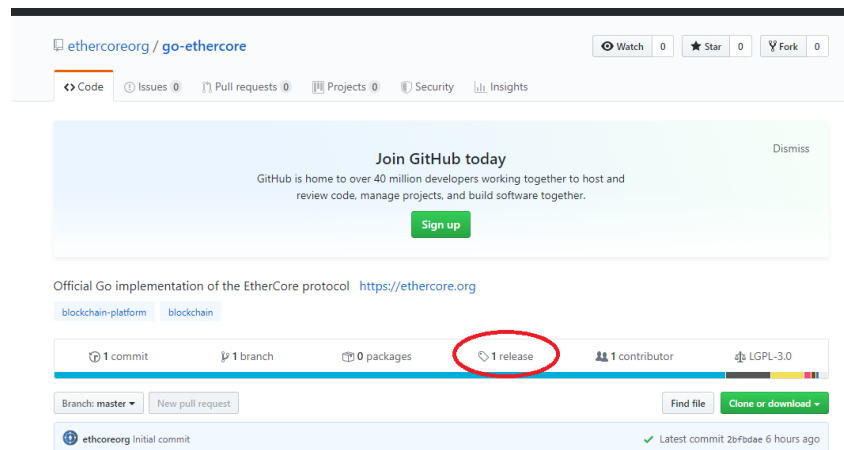
For PoA Sidechain: AWS for example, **m5a.16xlarge** is a recommended instance size (Over 32 CPU cores 64 threads 256 gigabyte of RAM) + More than 4TB of NVME SSD free space.

OS: Ubuntu or CentOS is the best choice

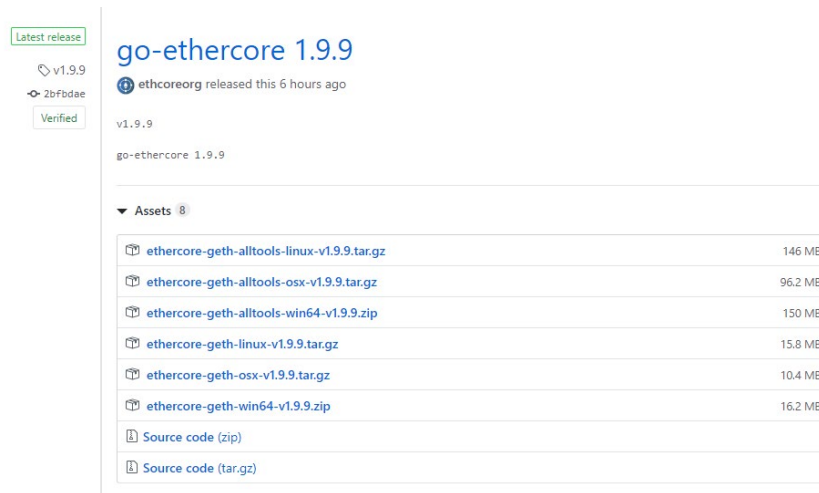
1. Enter Github

<https://github.com/ethercoreorg/go-ethercore>

2. Click release



3. Download Geth binary that fits with your operating system



Asset	Size
ethercore-geth-alltools-linux-v1.9.9.tar.gz	146 MB
ethercore-geth-alltools-osx-v1.9.9.tar.gz	96.2 MB
ethercore-geth-alltools-win64-v1.9.9.zip	150 MB
ethercore-geth-linux-v1.9.9.tar.gz	15.8 MB
ethercore-geth-osx-v1.9.9.tar.gz	10.4 MB
ethercore-geth-win64-v1.9.9.zip	16.2 MB
Source code (zip)	
Source code (tar.gz)	

For Windows, select [ethercore-geth-win64-v1.9.9.zip](#)

For Ubuntu or CentOS: Download ethercore-geth-win64-v1.9.9.zip (`wget https://github.com/ethcoreorg/go-ethereum/releases/download/v1.9.9/ethercore-geth-linux-v1.9.9.tar.gz && tar -xvzf ethercore-geth-linux-v1.9.9.tar.gz && sudo mv build/bin/geth /usr/local/bin/geth`)

Example)

```
ubuntu@ethcore:~$ wget https://github.com/ethcoreorg/go-ethereum/releases/download/v1.9.9/ethercore-geth-linux-v1.9.9.tar.gz && tar -xvzf ethercore-geth-linux-v1.9.9.tar.gz && sudo mv build/bin/geth /usr/local/bin/geth
--2020-01-23 02:52:00-- https://github.com/ethcoreorg/go-ethereum/releases/download/v1.9.9/ethercore-geth-linux-v1.9.9.tar.gz
Resolving github.com (github.com)... 52.192.72.89
Connecting to github.com (github.com)[52.192.72.89]:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://github-production-release-asset-2e65be.s3.amazonaws.com/231118780/2a51c700-3d4d-11ea-9918-4b66845dd44a7X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CSVEH53A&X-Amz-Expires=300&X-Amz-Signature=c0690d5304df1175de031d3436ad99009370ed090f708f5918705493fcd3a6e&X-Amz-SignedHeaders=host&actor_id=0&response-content-disposition=attachment&3020ethercore-geth-linux-v1.9.9.tar.gz&response-content-type=application/octet-stream
--2020-01-23 02:52:00-- https://github-production-release-asset-2e65be.s3.amazonaws.com/231118780/2a51c700-3d4d-11ea-9918-4b66845dd44a7X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CSVEH53A&X-Amz-Expires=300&X-Amz-Signature=c0690d5304df1175de031d3436ad99009370ed090f708f5918705493fcd3a6e&X-Amz-SignedHeaders=host&actor_id=0&response-content-disposition=attachment&3020ethercore-geth-linux-v1.9.9.tar.gz&response-content-type=application/octet-stream
Resolving github-production-release-asset-2e65be.s3.amazonaws.com (github-production-release-asset-2e65be.s3.amazonaws.com)... 52.216.177.99
Connecting to github-production-release-asset-2e65be.s3.amazonaws.com (github-production-release-asset-2e65be.s3.amazonaws.com)[52.216.177.99]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 16592906 (16M) [application/octet-stream]
Saving to: 'ethercore-geth-linux-v1.9.9.tar.gz'

ethercore-geth-linux-v1.9.9.tar.gz      100%[=====] 16.6MB 7.46MB/s
2020-01-23 02:52:03 (7.46 MB/s) - 'ethercore-geth-linux-v1.9.9.tar.gz' saved [16592906/16592906]

build/bin/geth
ubuntu@ethcore:~$
```

If you have installed the Ethereum Foundation version of Geth already

`sudo mv build/bin/geth /usr/local/bin/geth-ethercore`



4. Start Geth-EtherCore node

Linux: Start with `geth -noui -rpc` command and wait for the full sync of blockchain node, if synced you may be able to interact with EtherCore mainnet.

```
ubuntu@ethercore:~$ geth
INFO [01-23|03:01:48.400]umping default cache on mainnet
WARN [01-23|03:01:48.409]Sanitizing cache to Go's GC limits
INFO [01-23|03:01:48.409]Maximum peer count
INFO [01-23|03:01:48.409]Smartcard socket not found, disabling
INFO [01-23|03:01:48.412]Starting peer-to-peer node
INFO [01-23|03:01:48.412]Allocated trie memory caches
INFO [01-23|03:01:48.412]Allocated cache and file handles
INFO [01-23|03:01:48.441]Opened ancient database
INFO [01-23|03:01:48.441]Writing default main-net genesis block
INFO [01-23|03:01:48.442]Persisted trie from memory database
INFO [01-23|03:01:48.443]Initialised chain configuration
INFO [01-23|03:01:48.443]Disk storage enabled for ethash caches
INFO [01-23|03:01:48.443]Disk storage enabled for ethash DAOs
INFO [01-23|03:01:48.443]Initialising ethercore protocol
WARN [01-23|03:01:48.443]Upgrade blockchain database version
INFO [01-23|03:01:48.444]Loaded most recent local header
INFO [01-23|03:01:48.444]Loaded most recent local full block
INFO [01-23|03:01:48.444]Loaded most recent local fast block
INFO [01-23|03:01:48.445]Regenerated local transaction journal
INFO [01-23|03:01:48.467]Allocated fast sync bloom

provided=1024 updated=4096
provided=4096 updated=664
eth=50 lcs=0 total=50
err="stat /run/pcscd/pcscd.comm: no such file or directory"
install=Geth-EtherCore/v1.9.9-stable-443f4bb3/linux-amd64/go1.13.6
clean=166.00MiB dirty=166.00MiB
database=/home/ubuntu/.ethercore/geth/chaindata cache=332.00MiB handles=524288
database=/home/ubuntu/.ethercore/geth/chaindata/ancient
nodes=6 size=862.000 time=133.173us gcnodes=0 gcsz=0.000 gctime=0s livenodes=1 liveness=0.000
config="{ChainID: 466 Homestead: 0 DAO: <nil> DAOsupport: true EIP150: 0 EIP155: 0 EIP158: 0 Byzantium: 0 Constantinople: 0 Petersburg: 0 Istanbul: 0 Muir Glacier: 0}"
dir=/home/ubuntu/.ethercore/geth/ethash count=3
dir=/home/ubuntu/.etherash count=2
version="[14 43]" network=466 diversion=<nil>
from=<nil> to=7
number=0 hash=9bc5f1 4f3734 td=524288 age=3w1d3h
number=0 hash=9bc5f1 4f3734 td=524288 age=3w1d3h
number=0 hash=9bc5f1 4f3734 td=524288 age=3w1d3h
transactions=0 accounts=0
size=332.00MiB
```

(If the Ethereum Foundation's Geth is running background make sure the port doesn't conflict with them, change the port via adding `-port=30503 -rpcport=8745` option)

