Run Pchain (Windows)

Go: https://golang.org/doc/install

1、Install Windows

1.1 Download

Download link: https://studygolang.com/dl

1.2 Install

Install MSI files or zip compressed package versions to decompress, you need to install or decompress them into the C:\ go directory, otherwise you need to configure environment variables.

1.3 configure

A. Increase the environmental variable GOROOT = C:\ Go\

B.zip version configuration: add the following directory to the system environment variable PATH, c:\Go\bin

1.4 go version

```
C:\Users\z 1>go version
go version gol.11 windows/amd64
```

Git download(windows)

Download path: https://git-scm.com/downloads

With Git, the desktop shortcut interface is as follows. Open it and use it.



```
MINGW
                                                                                                                                     X
                 ∰ĵ‱∰ MINGW64 ~
$ git
usage: git [--version] [--help] [-C <path>] [-c name=value]
[--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
[-p | --paginate | --no-pager] [--no-replace-objects] [--bare]
[--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
                    <command> [<args>]
These are common Git commands used in various situations:
start a working area (see also: git help tutorial)
clone      Clone a repository into a new directory
init        Create an empty Git repository or reinitialize an existing one
work on the current change (see also: git help everyday)
                         Add file contents to the index
Move or rename a file, a directory, or a symlink
Reset current HEAD to the specified state
     add
     mν
     reset
                          Remove files from the working tree and from the index
     rm
examine the history and state (see also: git help revisions)
bisect Use binary search to find the commit that introduced a bug
grep Print lines matching a pattern
```

3. Pchain download and edit

Create folders:

C:\pchain\bin\

C:\pchain\src\github.com\

Source Code

Notice: source has to be under current directory.

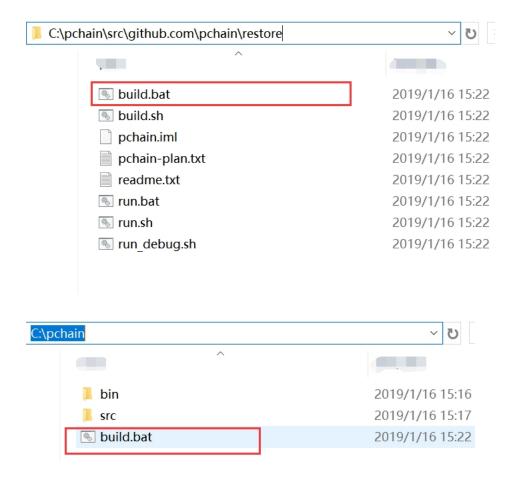
cd C:\pchain\src\github.com\

```
C:\>cd C:\pchain\src\github.com\
C:\pchain\src\github.com>_
```

git clone https://github.com/pchain-org/pchain.git

```
C:\pchain\src\github.com>git clone https://github.com/pchain-org/pchain.git Cloning into 'pchain'...
remote: Enumerating objects: 722, done.
remote: Counting objects: 100% (722/722), done.
remote: Compressing objects: 100% (502/502), done.
remote: Total 22934 (delta 414), reused 403 (delta 207), pack-reused 22212
Receiving objects: 100% (22934/22934), 56.34 MiB | 1.72 MiB/s, done.
Resolving deltas: 100% (13676/13676), done.
Checking out files: 100% (5263/5263), done.
C:\pchain\src\github.com>_
```

Copy build.bat to directory C:\pchain:



build.bat

```
C:\pchain>build.bat
github.com/pchain/vendor/github.com/tendermint/ed25519/edwards25519
github.com/pchain/vendor/golang.org/x/cyryto/openpgp/errors
github.com/pchain/vendor/golang.org/x/cyryto/openpgp/errors
github.com/pchain/vendor/github.com/athreeum/go-ethereum/common/fdlimit
github.com/pchain/vendor/github.com/athreeum/go-ethereum/common/fdlimit
github.com/pchain/vendor/github.com/athreeum/go-ethereum/common/hexutil
github.com/pchain/vendor/github.com/ethereum/go-ethereum/common/hexutil
github.com/pchain/vendor/github.com/ethereum/go-ethereum/common/hexutil
github.com/pchain/vendor/github.com/ethereum/go-ethereum/common/math
github.com/pchain/vendor/github.com/ethereum/go-ethereum/common/math
github.com/pchain/vendor/github.com/ethereum/go-ethereum/rlp
github.com/pchain/vendor/github.com/athreeum/go-ethereum/crypto/secp256kl
github.com/pchain/vendor/github.com/mattn/go-isatty
github.com/pchain/vendor/github.com/sathereum/go-ethereum/crypto/secp256kl
github.com/pchain/vendor/github.com/syndtr/goleveldb/leveldb/util
github.com/pchain/vendor/github.com/syndtr/goleveldb/leveldb/comparer
github.com/pchain/vendor/github.com/syndtr/goleveldb/leveldb/comparer
github.com/pchain/vendor/github.com/syndtr/goleveldb/leveldb/storage
github.com/pchain/vendor/github.com/syndtr/goleveldb/leveldb/storage
github.com/pchain/vendor/github.com/golang/snappy
github.com/pchain/vendor/github.com/syndtr/goleveldb/leveldb/cache
github.com/pchain/vendor/github.com/syndtr/goleveldb/leveldb/eache
github.com/pchain/vendor/github.com/syndtr/goleveldb/leveldb/eache
github.com/pchain/vendor/github.com/syndtr/goleveldb/leveldb/eache
github.com/pchain/vendor/github.com/syndtr/goleveldb/leveldb/errors
github.com/pchain/vendor/github.com/syndtr/goleveldb/leveldb/errors
github.com/pchain/vendor/github.com/syndtr/goleveldb/leveldb/errors
github.com/pchain/vendor/github.com/syndtr/goleveldb/leveldb/ereoldb/ereoldb/ereoldb/ereoldb/ereoldb/ereoldb/ereoldb/ereoldb/ereoldb/ereoldb/ereoldb/ereoldb/ereoldb/ereoldb/ereoldb/ereoldb/ereoldb/ereoldb/ereoldb
```

After compile, you will find the binary executable file pchain.exe under pchain/bin/

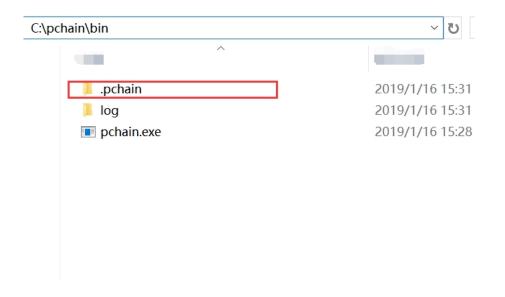
Run Pchain

Enter the current directory

C:\pchain\bin

1) Init the local account:

Check

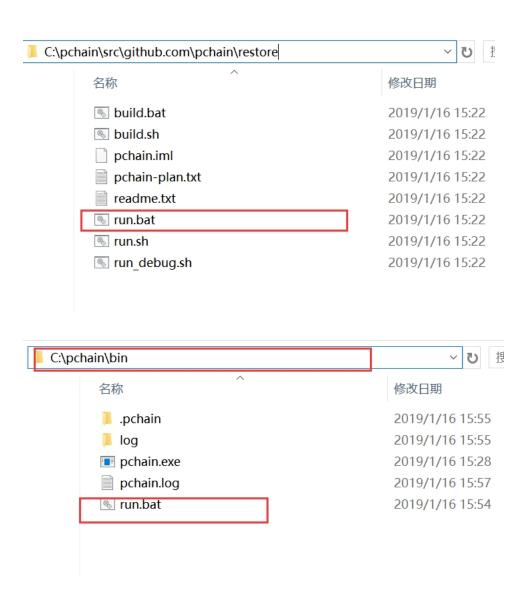


2) Init the local pchain

pchain.exe --datadir .pchain init .pchain/pchain/eth_genesis.json

3) Run pchain

Copy run.bat to directory C:\pchain\bin:



1) Edit run.bat

```
@echo off
set PWD=%-dp0
set PWD=%-dp0
#PWD%-phain.exe --datadir .pchain --networkid=10000 --port=30201 --syncmode "full" --mine --rpc --rpcport 6969 --rpcaddr=0.0.0.0
--rpccorsdomain=* --mine --rpcapi "eth,web3,personal,net,admin,tdm,miner,personal,chain,txpool" --verbosity=4 > pchain.log 2>61
```

```
C:\pchain\bin>more pchain.log

C:\pchain\bin>more pchain.log

C:\pchain\bin>more pchain.log

C:\pchain\bin>more pchain.log

C:\pchain\bin>
C:
```

2) run pchain.exe

```
C:\pchain\bin>pchain.exe --datadir .pchain --networkid=10000 --port=30201 --syncmode "full" --mine --rpc --rpcport 6
969 --rpcaddr=0.0.0.0 --rpccorsdomain=* --mine --rpcapi "eth, web3, personal, net, admin, tdm, miner, personal, chain, txpoo
1" --verbosity=4 > pchain.log 2>&1
```

login to another console and run this command to check the log

more pchain.log

Run mining mode:

```
pchain.exe --datadir .pchain --networkid=10000 --port=30201 --syncmode "full" --mine --rpc --rpcport 6969 --rpcaddr=0.0.0.0 --rpccorsdomain=* --rpcapi "eth,web3,personal,net,admin,tdm,miner,personal,chain,txpool" --verbosity=4 >
```

Non-mining mode:

pchain.exe --datadir .pchain --networkid=10000 --port=30201 --syncmode "full" --rpc --rpcport 6969 --rpcaddr=0.0.0.0 --rpccorsdomain=* --rpcapi "eth,web3,personal,net,admin,tdm,miner,personal,chain,txpool" --verbosity=4 > pchain.log 2>&1