

Install from deb package

<https://github.com/metahashorg/Node-InfrastructureTorrent/wiki/Install-from-deb-package>

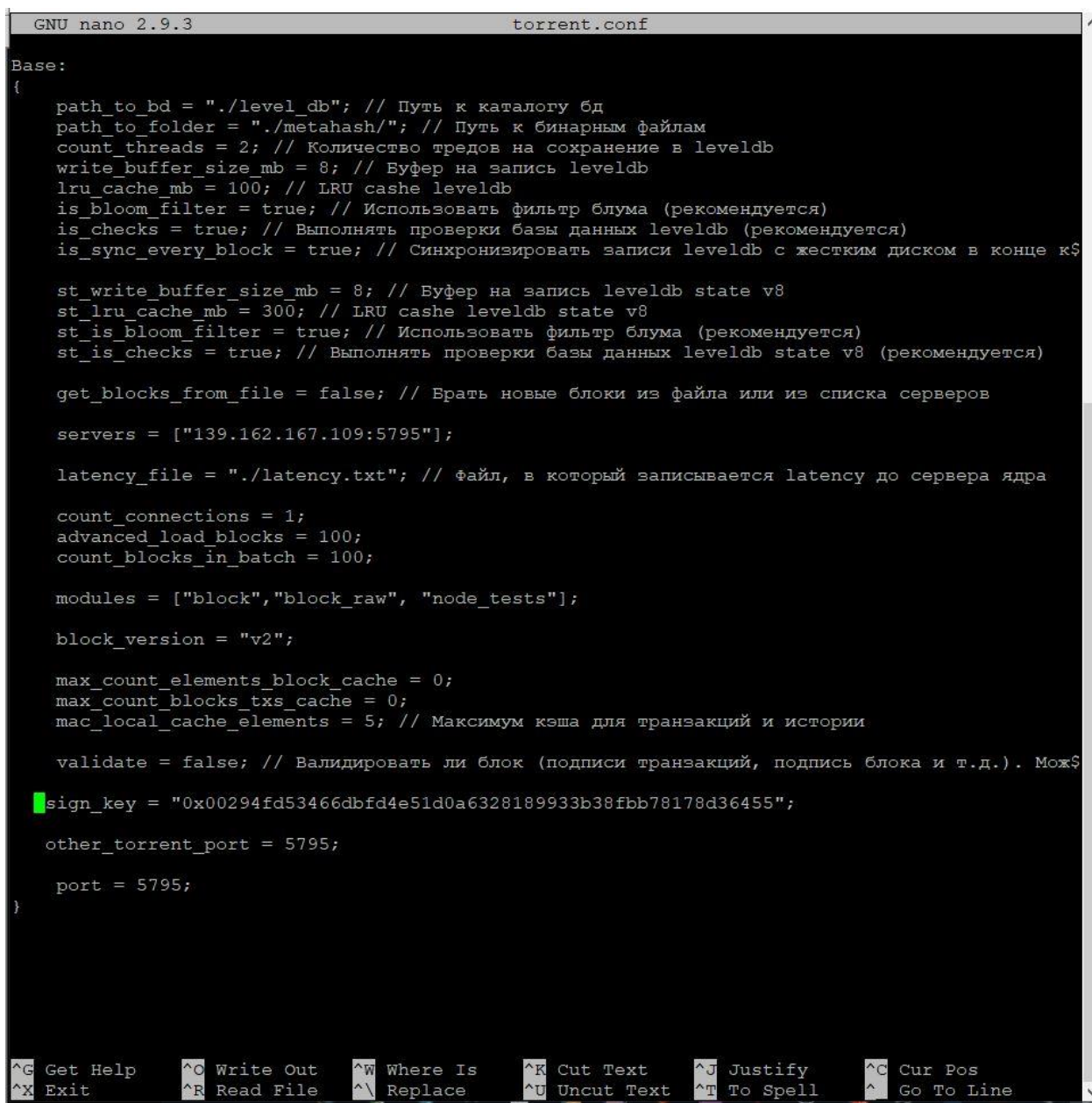
Please pay attention that this package can ONLY be installed on devices running UBUNTU 18.  
In order to run Infrastructure torrent node you have to do the following:

```
apt install libgoogle-perftools4
wget https://github.com/metahashorg/Node-InfrastructureTorrent/releases/download/v1.1/metahash-torrent_1.1.deb
dpkg -i metahash-torrent_1.1.deb
cd /opt/torrent
nano torrent.conf
```

To do it, add the row with the name of your file containing address wallet torrent node.

Example:

```
sign_key = "0x00294fd53466dbfd4e51d0a6328189933b38fbb78178d36455";
```



```
GNU nano 2.9.3 torrent.conf
Base:
{
  path_to_bd = "./level_db"; // Путь к каталогу бд
  path_to_folder = "./metahash/"; // Путь к бинарным файлам
  count_threads = 2; // Количество тредов на сохранение в leveldb
  write_buffer_size_mb = 8; // Буфер на запись leveldb
  lru_cache_mb = 100; // LRU cashe leveldb
  is_bloom_filter = true; // Использовать фильтр блума (рекомендуется)
  is_checks = true; // Выполнять проверки базы данных leveldb (рекомендуется)
  is_sync_every_block = true; // Синхронизировать записи leveldb с жестким диском в конце к$

  st_write_buffer_size_mb = 8; // Буфер на запись leveldb state v8
  st_lru_cache_mb = 300; // LRU cashe leveldb state v8
  st_is_bloom_filter = true; // Использовать фильтр блума (рекомендуется)
  st_is_checks = true; // Выполнять проверки базы данных leveldb state v8 (рекомендуется)

  get_blocks_from_file = false; // Брать новые блоки из файла или из списка серверов

  servers = ["139.162.167.109:5795"];

  latency_file = "./latency.txt"; // файл, в который записывается latency до сервера ядра

  count_connections = 1;
  advanced_load_blocks = 100;
  count_blocks_in_batch = 100;

  modules = ["block", "block_raw", "node_tests"];

  block_version = "v2";

  max_count_elements_block_cache = 0;
  max_count_blocks_txs_cache = 0;
  max_local_cache_elements = 5; // Максимум кэша для транзакций и истории

  validate = false; // Валидировать ли блок (подписи транзакций, подпись блока и т.д.). Мож$
sign_key = "0x00294fd53466dbfd4e51d0a6328189933b38fbb78178d36455";

  other_torrent_port = 5795;

  port = 5795;
}
```

### Important!!!

To start a torrent node, you need create a new wallet, this is necessary because the torrent node cannot work with keys of the old type - secp256r1. (A note from @xboston- <https://github.com/metahashorg/MetaHash/issues/16>)

Next you need to create the decrypted private key in the HEX format.

The beginning of the key in the HEX format should be like this - 30740201010420 .....

Example:

```
30740201010420f9a9054ca699c38de747e9f6626fb3d4d87b4d02ef111e8e284d7f8e018afd6da00a06082a8648ce3d030107a
14403420004886d9fe32423473984eb0c6782c69e64d08e33c1c89c74d3925dab93c73aff72b670f482e2f753f9f7811198f37abe
8fa873d8afc665a5801a183246cc999dcc
```

And put its contents in the file with the address in the name and with the extension - raw.prv

```
nano 0x00294fd53466dbfd4e51d0a6328189933b38fbb78178d36455.raw.prv
```

Left	File	Command	Options	Right
<	/opt/torrent			. [^]>
.n		Name	Size	Modify time
./	..		UP--DIR	Jul 17 07:30
/level_db			4096	Jul 17 07:34
/metahash			12288	Jul 17 08:04
0x00294fd53466dbfd4e51d0a632~33b38fbb78178d36455.raw.prv			237	Jul 17 07:33
logger.txt			2194160	Jul 17 20:00

```
cd /opt/torrent
./torrent.sh start
./torrent.sh status
tail -f torrent.log
```

```
root@vbox /opt/torrent # ./torrent.sh start
Starting torrent
root@vbox /opt/torrent # ./torrent.sh status
Torrent is running. Pid 9775
root@vbox /opt/torrent # tail -f torrent.log
INFO 140343082215168: Block 1166707 saved to node test. Time: 1
INFO 140343896379584: Block 1166708 getted. Count txs 735. Time ms 47 current block 8bd1f8d817a99a24e70db8fe7d8dbea0959162c94779bcc3283fa6f8b04a06c3. Parent has
n 618bd81d0e16622e3e956a241f55650519ef7943a1c2357c20080820f4e02cd9
INFO 140343099000576: Block 1166708 saved to cache. Time: 0 0 0
INFO 140343090607872: Block 1166708 saved. Count txs 735. Time ms 0
INFO 140343082215168: Block 1166708 saved to node test. Time: 3
INFO 140343896379584: Block 1166709 getted. Count txs 8. Time ms 12 current block 43297163f92f4bec81348ddcc207d6bd996d4494eaf8d6c525ed668d0d920e2. Parent hash
8bd1f8d817a99a24e70db8fe7d8dbea0959162c94779bcc3283fa6f8b04a06c3
INFO 140343099000576: Block 1166709 saved to cache. Time: 0 0 0
INFO 140343090607872: Block 1166709 saved. Count txs 8. Time ms 0
INFO 140343082215168: Block 1166709 saved to node test. Time: 1
```

Next:

You need to check the availability of your node. Specify IP address of your server and port number 5795

[http://testpage.metahash.org/server\\_check.php](http://testpage.metahash.org/server_check.php)

## Server check

To check whether your server works correctly, paste its ip address into the input field below and click the "Check" button

is available - OK

type - InfrastrucureTorrent

version - 0.81

address - 0x00294fd53466dbfd4e51d0a6328189933b38fbb78178d36455

block height - 1166709

block diff - 0

Ip address

136.5795

Check