



Chamber of Commerce: 697 131 38

[info@blockchainprojectsbv.com](mailto:info@blockchainprojectsbv.com)

24.01.2018

## Distributed Network of BitShares nodes

	GB traffic per hour	Sessions per hour
<a href="https://eu.nodes.bitshares.ws/stats">https://eu.nodes.bitshares.ws/stats</a>	~2.55	~1510
<a href="https://sg.nodes.bitshares.ws/stats">https://sg.nodes.bitshares.ws/stats</a>	~0.2	~340
<a href="https://us.nodes.bitshares.ws/stats">https://us.nodes.bitshares.ws/stats</a>	~0.2	~1330



An Elastic Search cluster has been deployed with direct read-only access and python wrapper

## Login BitShares:Infrastructure for direct access

<https://elasticsearch.bitshares.ws>

## Python Wrapper

<https://wrapper.elasticsearch.bitshares.ws/apidocs/>

The cluster contains of three separate instances that are each fed blocks by a local node to increase the redundancy. The above domain is a loadbalancer between all 3 instances of the cluster. This Elastic Search endpoint is e.g. used in the Reference UI to export account history and one of the BitShares explorers (<http://open-explorer.io/>).

Traffic statistics are below

	GB traffic per hour	Sessions per hour
<a href="https://elasticsearch.bitshares.ws">https://elasticsearch.bitshares.ws</a>	<0.1	~140

## BitShares Funded Faucet

As of today the faucet account held 137,455 BTS (holdings and claimable, before burn) that have been accumulated through fees

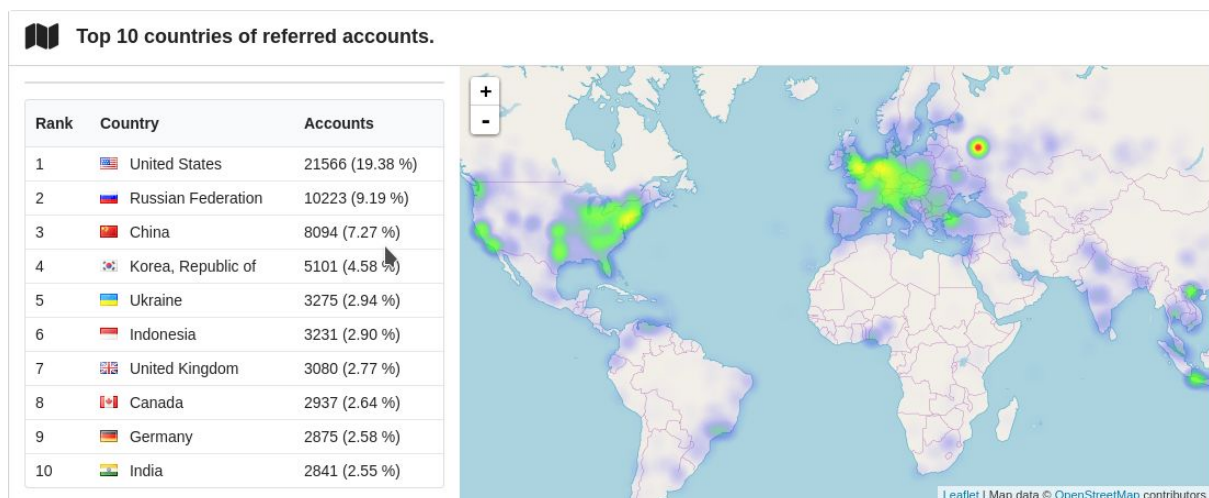
<https://wallet.bitshares.org/#/account/onboarding.bitshares.foundation/vesting>

<https://wallet.bitshares.org/#/account/onboarding.bitshares.foundation>

The faucet is running smoothly with no report of malfunctioning. Since its deployment it is more than self-sustaining. It has created 111261 accounts with 475 life time upgrades

<https://bitshares.eu/referral/onboarding/onboarding.bitshares.foundation>

Worldwide distribution as indicated below



The development of the stress test software has been an ongoing process and has consumed almost 60 hours so far. The architecture allows for one overseer (control server) that remote controls the beacons (stress inducing instances). We were able to conduct preliminary stress tests using 273 beacons and could support ongoing theories where the bottleneck of the network is, namely the P2P module.

#20,504,840	4:57:21 PM	init1	18,690
-------------	------------	-------	--------

#20,504,934	9:04:42 PM	<a href="#">delegate.ihashfury</a>	11,508
-------------	------------	------------------------------------	--------

The setup of the stress test is completed and can be easily executed. The main organization effort is to setup a realistic distribution of nodes, and the bottleneck is given by the scalability of the P2P layer and the bandwidth of the testnet witnesses (many run a low-cost setup compared to the mainnet, very much understandable).

1. We do not expect a vastly different outcome even with more preparation, and a stress test on an academic distribution of nodes (for example, witnesses all in-house in the same datacenter) is not of additional value in our opinion
2. The bear market is cutting the funding short and we will not be able to properly invoice the hours already spent so far

The worker collected a total of 436627 BTS up until now. A total of 25631 bitUSD have been bought in the open market and paid out (see [here](#)). Roughly 97,000 BTS remain at the moment, which are roughly 4,800 bitUSD at the current market price and covers the server and maintenance costs until the end of the worker.