

Blockchain Projects BV

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Roadmap for worker 2017-12-infrastructure

Milestones Deliverables:

- 1. Integrate and deploy faucet
 - a. The account onboarding.bitshares.foundation is set to be co-owned by the committee-account
 - Use the reference faucet service operated by bitshare.eu. The provided faucet will be available at faucet.bitshares.eu/onboarding. Registrar is onboarding.bitshares.foundation, Referral percentage for affiliates is set to 70%
- 2. Develop docker containers
 - a. Create a parameterized BitShares docker container

Transparent packaging of the container, publicly available for everyone. Following modes are supported:

- i. Block producer
- ii. Seed
- iii. History [low | full | ES] [account ids], parameter:

low: minimum history coverage for low ram

full: complete history available via in-ram database

ES: history available as provided by the elastic search plugin

account ids: Restrict history collection to given ids

Example: A full node would be Block producer + Seed + History full

3. Develop orchestration tooling

- a. Fully automated deployment of nodes on arbitrary servers, including cloud hosting services, for easy scaling
- 4. Develop loadbalancer
 - a. Create a loadbalancer to put in front the nodes. Traffic is redirect as resources allow via round-robin/latency selection algorithms.
- 5. Test deployment and loadbalanced nodes
 - a. Inhouse deployment of full nodes with loadbalancer put in front
- 6. Public nodes with load balancer in the U.S. on separate servers for redundancy
 - a. Deploy two BitShares nodes on a cloud hosting service located in the U.S.
 - b. Deploy a loadbalancer controlling the traffic to the two new nodes on a cloud hosting service located in the U.S.
- 7. Support SSL encryption on the load balancers
 - a. Free letsencrypt certificate is used
 - b. Upgrade to a premium SSL certificate, if necessary
- 8. Public nodes with load balancer in Asia on separate servers for redundancy
 - a. Deploy two BitShares nodes on a cloud hosting service located in Asian-Pacific area
 - b. Deploy a loadbalancer controlling the traffic to the two new nodes on a cloud hosting service located in Asian-Pacific area
- 9. Include testnet nodes on those machines
 - a. Deploy testnet nodes on all new nodes, including loadbalancer

Timeline

2017-12-infrastructure			2017				2018								
		DEC				JAN				FEB	FEB				
Deliverables	Duratio n	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W5	
Milestone 1	1 w														
Account management	1 w														
Integrate and deploy faucet	1 w														
Milestone 2 and 3	1 w														
Develop BitShares Container	1 w														
Orchestration	2 w														
Milestone 4 and 5	2 w														
Develop Loadbalancer	2 w														
Inhouse test	1 w														
Milestone 6 and 7	3 w														
Deploy BitShares Nodes	2 w														
Deploy Loadbalancer	1 w														
Letsencrypt Certificate	1 w														
Premium Certificate	1 w														
Milestone 8	1 w														
Deploy BitShares Nodes	1 w	Г													
Deploy Loadbalancer	1 w														
Milestone 9	1 w														
Deploy Testnet Nodes	1 w														
Annotations															

Please note that the durations are merely giving indicating the time period in which the underlying deliverable. It is not indicating the required workload.