PROPOSAL: Kusama Snapshots For Validators

This treasury proposal is between the Kusama Council and Kunique Inc, a company registered in Canada under Business number 838744860, commonly known as 1KVNode from Kusama Community.

Proposal Owner: 1KVNode
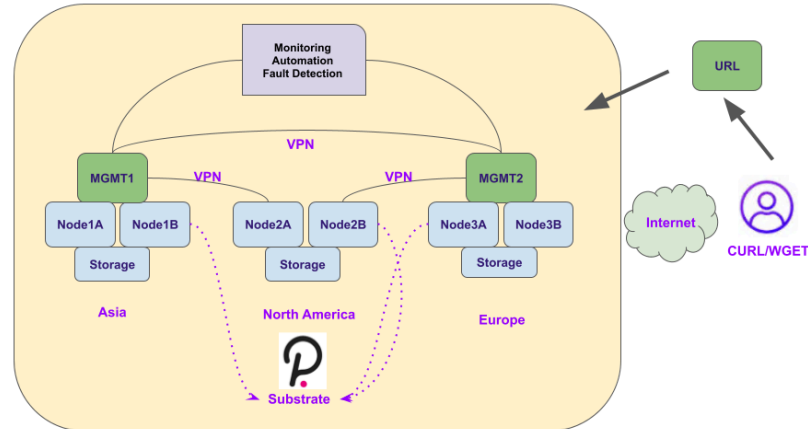**Address**: Ffq8DeccCMoZaFLkpeAcfgDNbtD3HFd4LJPn6z2e9ZHDLCn
Date: May 9th, 2022.

Background:

1KVNode is a group of three enthusiasts with over 15 years of experience in system admin and network infrastructure, who want to participate further in the community of decentralization. We are currently participating in the Polkadot and Kusama networks to learn and also to help our community and program grow. In addition to being experience-oriented, we would also like to further assist in decentralizing the network in a web3 manner.

Service Description:

1. A functional infrastructure to provide a usable snapshot of the blockchain for decentralization in three zones across Asia, North America, and Europe.
2. A snapshot is a frozen copy of the blockchain in a given state, the data is compressed (aka zipped) into a smaller format to allow any node to synchronize faster to the actual blocks
3. Polkadots environment provides 3 chains in scope: Polkadot, Kusama, and Westend. A snapshot will be available for each of the 3 chains for pruning mode operators.
4. A snapshot is taken approximately every 23-25 hours (daily) due to compression.
5. A front-end web framework to provide multi-copies of snapshots. We will also provide the alternative simplified framework on medium.com.
6. A detailed presentation of how to use the snapshots with a short Q&A for new and experienced operators. The presentation will start with 2 different languages and then be totalized at 4. (English, French, Chinese, and Spanish).
7. Location redundancy will facilitate faster access to all locations.
8. Security measures have been taken and there is 24/7 support. The support and maintenance of all infrastructure will be based on 3 resource engineers working through approximately 20 hours for maintenance, patching, and security scanning including on-call.
9. Solution will provide a SLA of 3 hours for incident management.

Context:

The Polkadot environment is full of node operators and validators who have their pieces of contingency and network emergency. Our team is focused on providing a contingency plan for any node operator on the network who has lost their nodes and wishes to recover from the occurred damage, this includes all the independent operators within the community While we believe that Westend is a test-net only, we also acknowledge its importance as the alpha test net for many application developments and node operators. We will include all three chains in our snapshot and provide a presentation layer. The fundamental framework will be coming from our website.

While RocksDB is considered the "default" DB type, we will also offer Parity-DB to the operators shortly in a future stage. The goal is to provide a copy of the snapshot images in every region, it helps to decentralize the risk of losing the copy of the snapshot.

Alternatives

The node operators can use an existing snapshot provider or synchronize all the blocks. We hope that our proposal will assist in providing additional options for node operators which will result in a reduction of centralized risk. Our goal is to raise awareness for our community and also provide more functional knowledge articles to help educate any newcomers to the Polkadot network.

Operational Expenses:

One Time Cost			
Cost Type	**Quantity (Hrs)**	**Cost**	**Total (USD)**
Network Installation	40	125$/Hour	5000$
Web Development	12	50$/Hour	600$
Presentation Development	12	40$/Hour	480$

Monthly Recurring Fee - 2022			
Cost Type	**Quantity**	**Cost**	**Total (USD)**
Infrastructure Nodes	8	35$/Month *	280$
Maintenance Fee	20 Hours	125$ / Hour	2500$

* variance approx 5% based on the cost and exchange rate.

TOTAL Proposal Cost

Total Cost	
MileStone 0 (First time installation)	6,080$ USD
MileStone 0 Quarterly Cost (May-June 2022)	5,560$ USD
Ongoing Quarterly Cost - 2022	8,340$ USD
Initialization Cost for MileStone 0	6,080$ + 5,560$ USD = 11,640$ USD

Kusama - Initial PayOut	**97.218 KSM**

119.73$ - 7 days avg on - https://kusama.subscan.io/tools/charts?type=price

Beneficial Address: Ffq8DeccCMoZaFLkpeAcfgDNbtD3HFd4LJPn6z2e9ZHDLCn