NODE **RESOURCE** ESTIMATION

Repository Segment	Count	Commit type:	Import existing	Production	Documentation	Merge	Submodule	Average per Project	Average Total
			Monthly average normal flow						
Code Snippet	350	Commits	0.1	0.5	0.4	0	0	1.0	350
		Files/Deltas	0.1	0.5	0.4	0	0	1.0	350
		Bytes processed	512	512	410	0	0	1,434	**501,760**
Library / Dependency	525	Commits	0.1	9	2	0.7	0.2	12.0	6,300
		Files/Deltas	0.7	18.0	4	1.1	0.2	24.0	12,600
		Bytes processed	20,480	36,864	2,048	282	205	59,878	**31,436,160**
Simple Final Product	100	Commits	0.1	19.9	2	4	2	28.0	2,800
		Files/Deltas	5	50	4	7	4	70.0	7,000
		Bytes processed	2,097,152	153,600	8,192	1,792	4,096	2,264,832	**226,483,200**
System / Framework	20	Commits	0.1	89.9	8	9	3	110.0	2,200
		Files/Deltas	200	500	20	15	6	741.0	14,820
		Bytes processed	5,242,880	1,536,000	40,960	3,840	6,144	6,829,824	**136,596,480**
Complex Final Product	5	Commits	0.1	52.9	8	6	3	70.0	350
		Files/Deltas	5,000	1,000	30	10	6	6,046.0	30,230
		Bytes processed	20,971,520	4,096,000	122,880	2,560	6,144	25,199,104	**125,995,520**
Total Projects	**1,000**							Commits	**12,000**
								Files/Deltas	**65,000**
								Bytes processed	**521,013,120**

	per file/delta	EOS Stake/day		
Actions	1	per action	Total	Total Safe*
CPU time, ms	2	0.0054	**14.0400**	**140.4000**
Traffic, KiB	4	0.0020	**5.2000**	**52.0000**
		Files/Deltas	**2,600.0**	**daily***

* we assumen up to 25 full time productive days a month, reducing on inproductive / partially used weekend / festive days

Commit hashes and checksums will be indexed, as well as file sizes.

Knife Nodes will monitor EOS network for incoming hashes and will have to compare them to all known hashes.
This task will get more difficult with ever growing DB, but nothing well indexed database (PgSQL) table could not handle.

A match found will need to be reported back to EOS blockchain smart contract. Once finding is reported, it has to be verified by all other Knife nodes in as short as possible time. Most of that would be in the form of redundant reporting which counts.

Bytes to store is irrelevant before storage nodes would be required to be run

Technical requirements of running a node:

* EOS mainnet node (nodeos) with specific plugin configuration like history and watcher enabled
* Local access only PgSQL database
* NodeJS backend, npm
* nGinx, open TCP port
* 2 CPU cores
* Enough RAM to run EOS node (dedicated EOS node not required), plus 2 GB