## Key-Value Stores

Sometimes rpBs are tool cumbercome in the when sieighed against the services they offer how they amone a tabular serve on data viz not regg. escriptione on these cases, we use non-robs for more featility and lase

Key-Value store >i) A popular non-rDb (i-o-nose)

ii) Data stored as k-v rairs

iii) Allows mapping of keys (stores weally

strings) to arbitrary values.

Value
- 48.8
Apple Pie
[n, y, z] whut

eg 2: hash Tables

- flexible - not regardes as no imposed struc. k-V store > simple > nothin simples to store data compared to a k-v map.

: Values -> Responses to network regs Keys -> Hash, IP address, userhame

Page.

MTWTFST. 2) Dynamic config: Basically just storing a parameter that Act parts of your sys.

Trely on in a separate place so at these parts can access it enemt. you're in > (development, pros', ledurg) Nero this param is stored in a k-V store (usually an oly in i j50 ne or yaml file) are as workin with diff. values of this same param (key) is a lateral easily NOTE: parantage of usin a k-vstore - : values are accessed directly, thru keys, no search thru de or any other furry looking regul.

'- Latery I, Ihraughput I of our sys. egi- Dynamo DR, Rodis, Etcd, Zookeper NOTE: Storage 2 type of k-V stores based on where they write their data to: i) Write data to disc - a) flow to get back data from disc b) Pata persets even abor k-v store server itself crashes ii) Write data tor mem -> b) faiter to retrieve data from mem Use: - Cachin -> As honestly, it doesn't affect the sys

Date:
M.T.W.T.F.S.S

down we pretty much don't lose anythin except some cache hits viz not that imp.

eg' of k-V stores:

) Etcd > strong consistency > high availability

Se: Implement leader election

writes data to disc

2) Redis - surites data to mem. a.k.a. in mem. k-v store

V. lil pervistent storage

> Uses: Best-leffort, fast caching Implemental of rate limiting

2 200kcepts -> writes data to disc > strong consistency > high availability

> Use: Store imp config"
Implement leader elec"

Page.

