

For 30M users, it will be 60.7G/month, 0.7TB/year.
= 3.6 TB/year.

- Generating short URLs :-

Can be generated using Base 62 or MD5 hash.

~~MD5~~ Take first 7 chars or MD5. This can lead to Contention.

Base 62 give A-Z (26 chars), a-z (26 chars), {0-9 (10)}
= 62 characters

= 62 characters

$\sim 62^7 \rightarrow 3.5$ Trillion unique ids.

Database selection :

There are lot of Read & Writes.