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SLEEP BETTER WITH CONTENT ENCRYPTION

YOUR FATHERS CRYPTO (*)

- CLIENT sends requestAPPLICATION applies logic
- DATABASE stores result

Data encrypted via TLS



















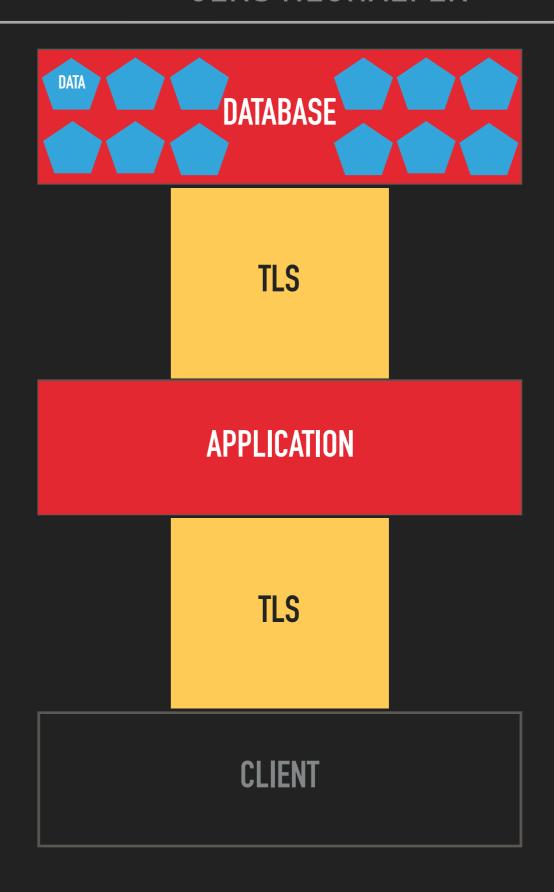
(*) I'm going to gloss over the whole cryptography nomenclature in these first slides. Bear with me.

SO, EVERYTHING IS SAFE?



YOUR FATHERS CRYPTO (*)

- CLIENT sends request
- APPLICATION applies logic
- DATABASE stores result
- Data encrypted via TLS SO, EVERYTHING IS SAFE?



WHAT ABOUT TLS?

- Data is at rest for ~99.99998%of the time (*)
- Also: Heartbleed, POODLE, DROWN, Lucky13, Logjam, FREAK, ...
- Also: Backups!

WHAT IS CONTENT ENCRYPTION?

- Encrypt** data 'itself'
- E.g. encrypted** data at rest
- Even: Protected** data while working with it

