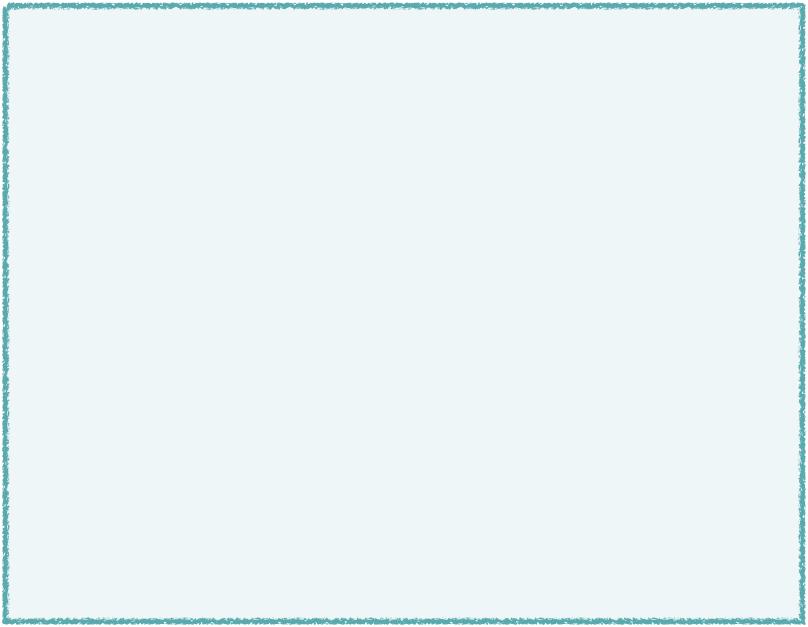




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USER LOGIN: MIGRATE PASSWORDS

SLEEP BETTER WITH CONTENT ENCRYPTION

Problem: Migrate password hashes to new algorithms **Solution**: Chain hashing functions







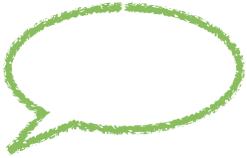












User Algorithm Hash MD5(PWD) SCOTT 3959dc9...

ValidatePassword

hash password w. MD5

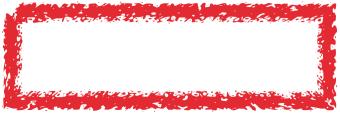
check vs. database





hEND AM 1





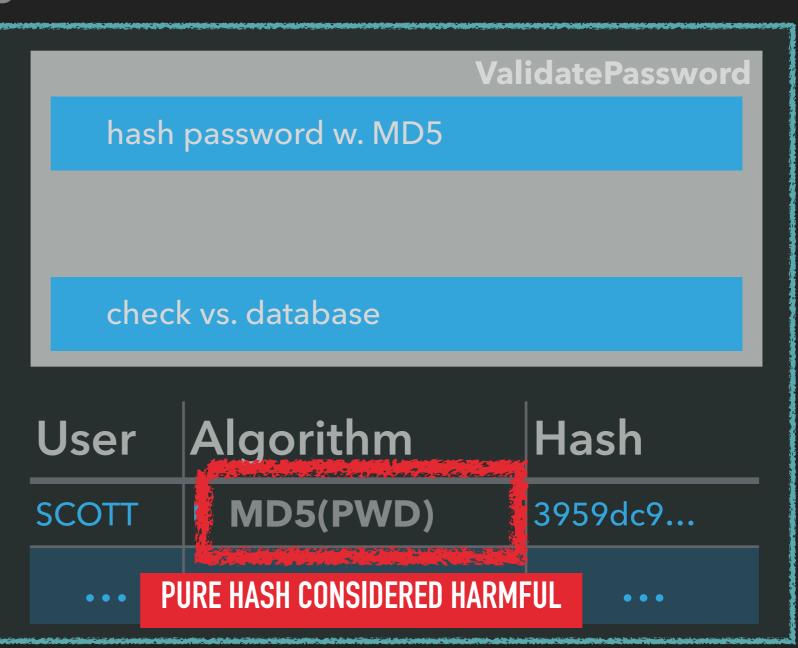
PURE HASH CONSIDERED HARMFUL

USER LOGIN: MIGRATE PASSWORDS

Problem: Migrate password hashes to new algorithms

Solution: Chain hashing functions







Even consumer grade graphic cards calculates gigahashes (2^30) per second.

- https://www.troyhunt.com/our-password-hashing-has-no-clothes/
- https://gist.github.com/epixoip/a83d38f412b4737e99bbef804a270c40
- http://cynosureprime.blogspot.de/2017/08/320-million-hashes-exposed.html
- https://www.owasp.org/index.php/Password_Storage_Cheat_Sheet
- https://en.wikipedia.org/wiki/Pepper_(cryptography)