

News

1. Colorado lawmakers filed a bill exploring how blockchain technology could be applied to water rights management. Jena Griswald Sec of State CO. California is using blockchain with IoT to track water levels in rivers.
2. Crypto Exchange Bittrex International to Host Its First Public 'Initial Exchange Offering' Maltese crypto regulatory framework. "XRD" tokens, gaming data blockchain project Raid. Capped at 17 billion XRD (~\$6 million US).

Personal Security - Why

Tell a story - AWS.

Why is this happening?

Systems that survive pay out to all the responsible parties in proportion to the level of responsibility.

"The Tragedy of the Commons"

Friction vs Access

Friction to get to the information you want is security to prevent unauthorized people from getting to the information that you don't want them to get to.

People will choose convenience over security every time.

Data ownership. Equifax and what data you have as public.

Passwords

Top 10 List

123456
123456789
qwerty
12345678
111111
1234567890
1234567
password

123123
987654321

Represent 76% of passwords in use.

Top 10000 passwords are 92% of passwords in use.

Hash passwords: MD5, SHA1

Rainbow Tables

Salt and then Hash

use a hash that is appropriate: bcrypt, scrypt, or PBKDF2.

1. Generated Passwords (1password or other similar tools). `#!/bin/bash openssl rand -base64 20`
2. Never change passwords
3. Write it down.
4. Use a system that verifies that your password is not pwned.

Other security systems good/bad.

1. Auth0 - JWT
2. Password-less login systems
3. Biometrics
4. Biometrics that works
5. NFC
6. Wireless WiFi and security
7. IOT
8. Back doors into systems
9. Chipping dogs - why not people?
10. Software is never 100% fixed.

Security == Friction

"Making Password Cracking Harder: Slow Hash Functions" Proof of Work: PBKDF2.

Risk of pandemic is really an airline - high speed transpiration system.

Speed Limits: highways - approaches to airports. Drugs - require prescriptions.

Digital information moves limitlessly. The same design philosophy that accelerated the flow of correspondence, news, and commerce also accelerate the flow of phishing, ransomware, and disinformation.

Free isn't free.

Sherman Antitrust Act: 1989 Supreme Court Decision - that evaluation of an illegitimate merger be based on price of goods produced.

We are now in a world where 0 price is common.

So if you give away your product (e.g. Facebook) then you purchase some other entity (Instagram) and give it away for free then the SAA will not apply to you.

Who Pays.

During the height of the recession, in 2009, we wasted 6.3 billion hours on the road.

Capitalism is suffering from its own success.