CRYPTYK

Decentralized Cloud Apps
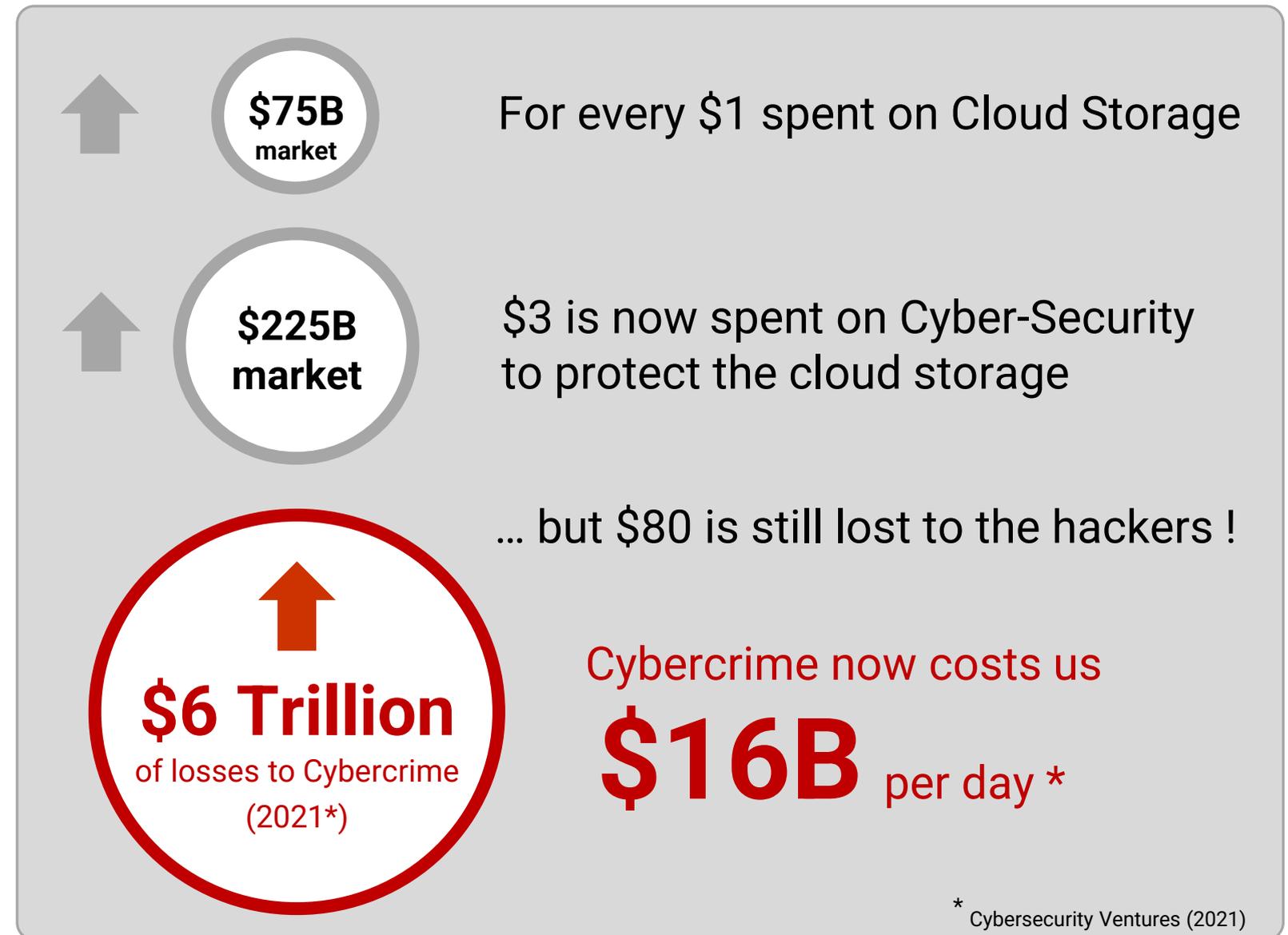
Business White Paper

cryptyk.com
cryptyk.io

Cloud STORAGE is booming – but so is cybercrime !

All consumers and small businesses are now 3x more likely to be hacked than this time last year.*

You are **most vulnerable** if you regularly

- Use a smart phone, tablet or computer.
- Browse the internet and read emails.
- Download or share files and documents.
- Use internet banking or pay bills online.
- Post personal info on social media.
- Store files in iCloud, OneDrive or Google.

Since the pandemic **Data Security & User Privacy** have become primary purchasing concerns for the mainstream consumer and small business markets.

$75B market — For every $1 spent on Cloud Storage

$225B market — $3 is now spent on Cyber-Security to protect the cloud storage

… but $80 is still lost to the hackers !

$6 Trillion of losses to Cybercrime (2021*)

Cybercrime now costs us **$16B** per day *

* Cybersecurity Ventures (2021)

CRYPTYK

2

# Solution is DECENTRALIZATION – but blockchain is TOO SLOW !

Decentralized cloud storage limits exposure to any security threat to only a small portion of any single file;

- Files are stored in small pieces across many nodes

- 100x better security than centralized storage vendors such as Google, Apple and AWS.

- Immune to External, Internal & Viral threats

- 100% Zero Knowledge Privacy

Decentralized blockchain storage products exist, BUT SLOW

- Blockchain tech is far too slow (20 second latency) for todays real time cloud applications (eg: live editing <0.2s)

- Blockchain is not scalable for storage of large file types (eg: documents, images, videos)

- Blockchain is only useful for batch file back-up applications (small $300M consumer market ?)

Successful breaches can only steal a useless piece of any single file
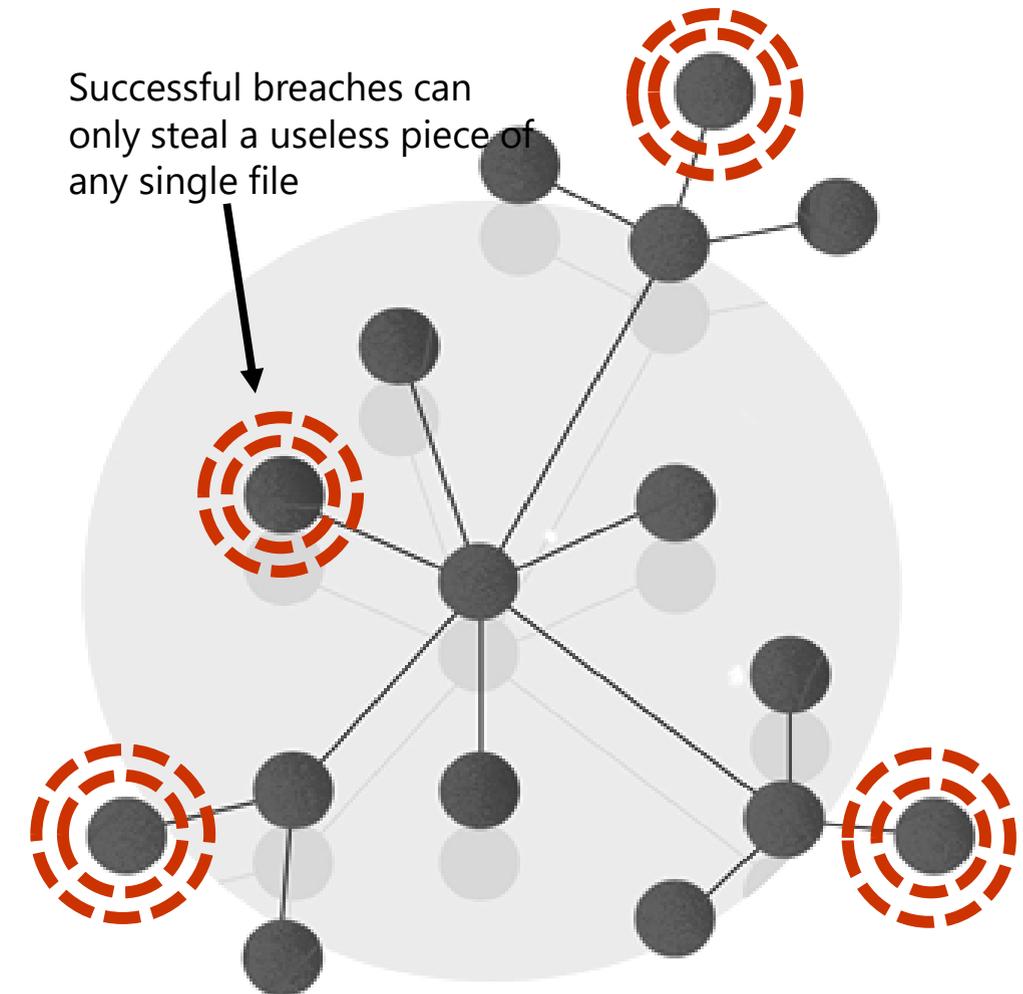
CRYPTYK

CRYPTYK CLOUD : Decentralized Multi-Cloud + Blockchain Auditing

Instead of storing file pieces on many blockchain nodes Cryptyk Cloud stores files on a *Decentralized Multi-Cloud*

- Uses the 5 largest centralized cloud providers as file storage nodes (ie: AWS, Google, Oracle, IBM, MS)

- Leverages the speed and scalability of global centralized storage vendors (fast 0.1 sec latency)

- Suitable for all real-time cloud apps (< 0.2 sec latency)

- Multi-cloud storage network (Vault) combined with an immutable blockchain network (Sentry) used for storing all user access and file sharing events.

- Hybrid design uses blockchain technology only for user privacy & file auditing – not for file storage.

- 100x more secure than AWS, Google, IBM

- Performance as fast as AWS, Google, IBM

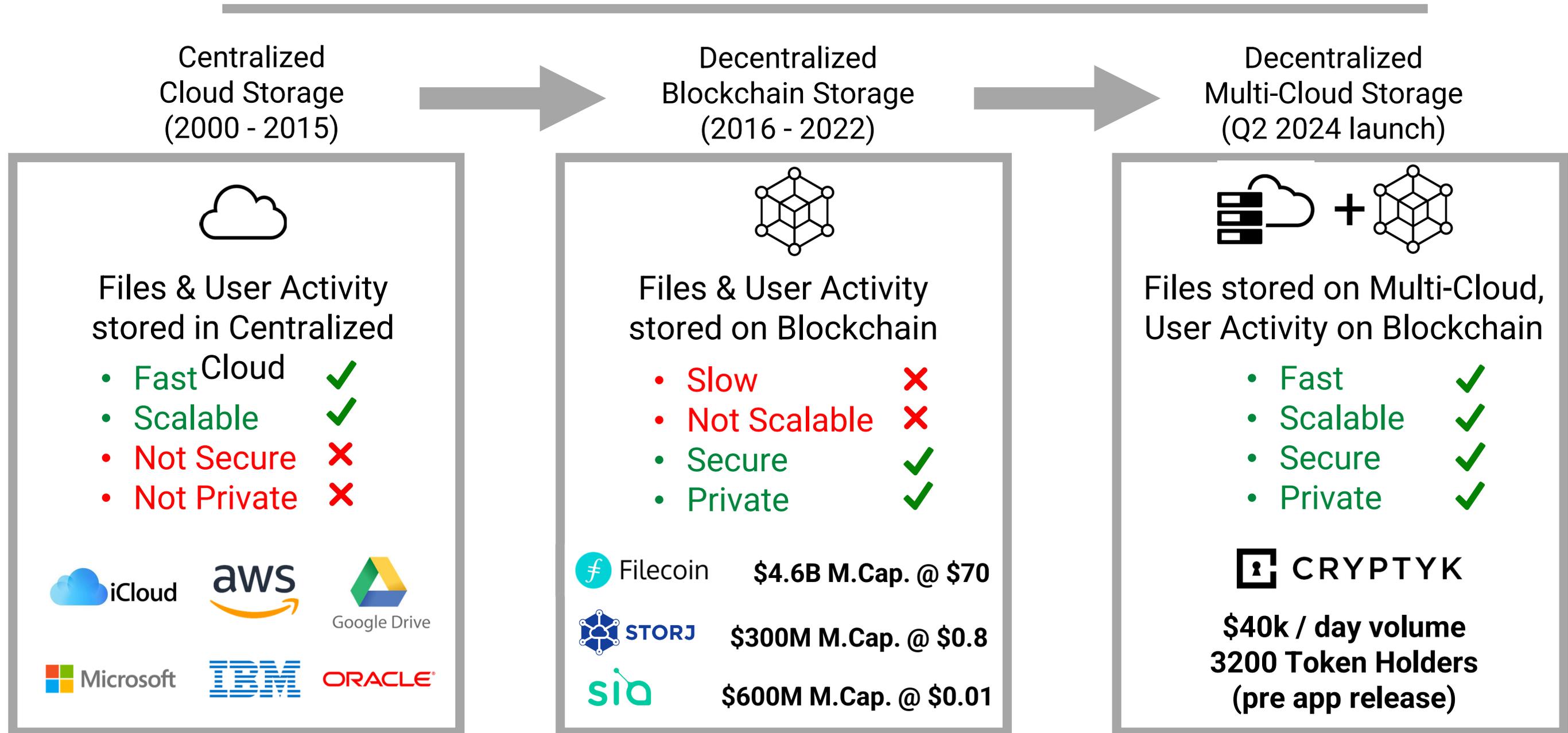- 100% Zero Knowledge Privacy

- Quantum Computer Resistant
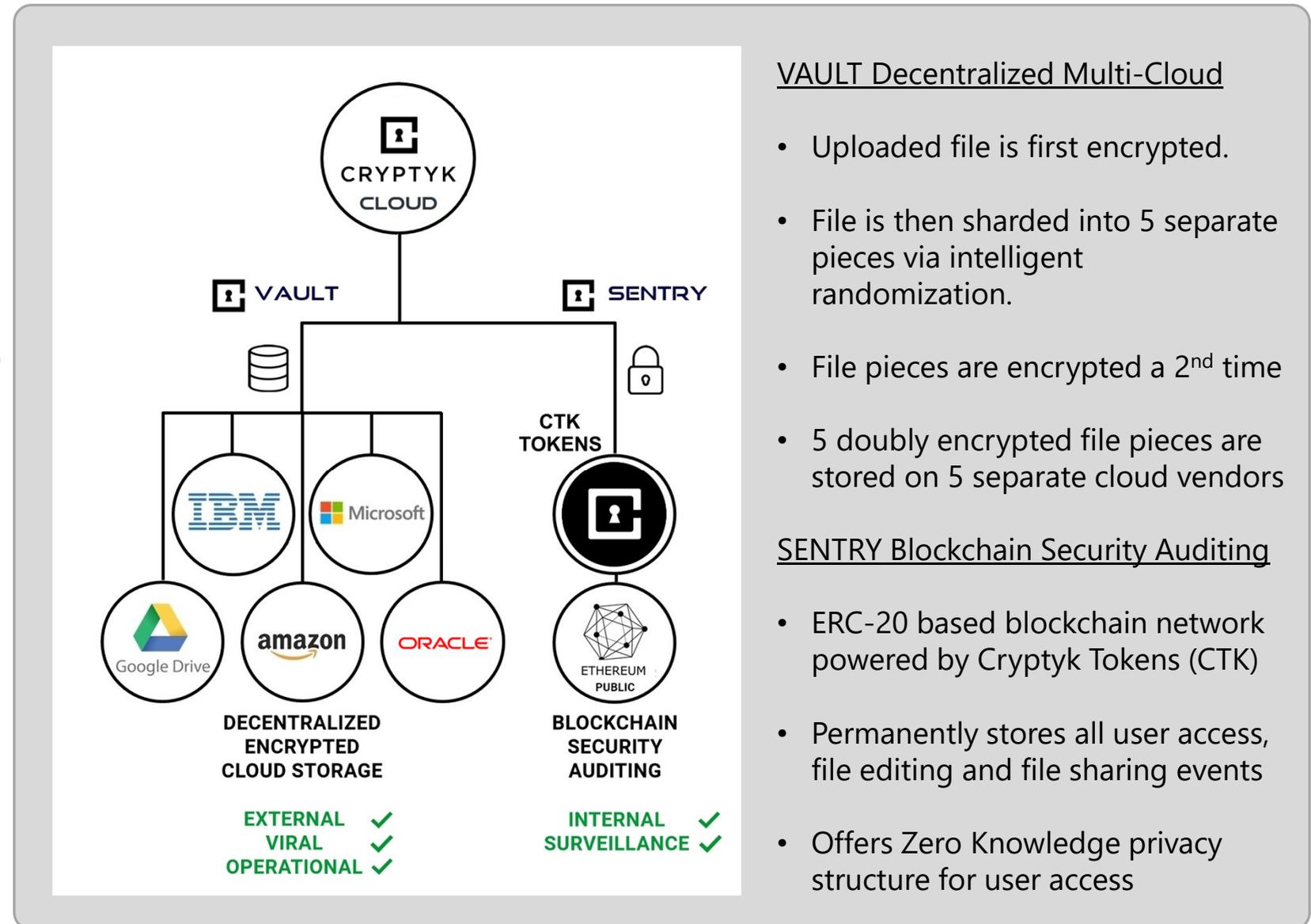
VAULT Decentralized Multi-Cloud

- Uploaded file is first encrypted.

- File is then sharded into 5 separate pieces via intelligent randomization.

- File pieces are encrypted a 2nd time

- 5 doubly encrypted file pieces are stored on 5 separate cloud vendors

SENTRY Blockchain Security Auditing

- ERC-20 based blockchain network powered by Cryptyk Tokens (CTK)

- Permanently stores all user access, file editing and file sharing events

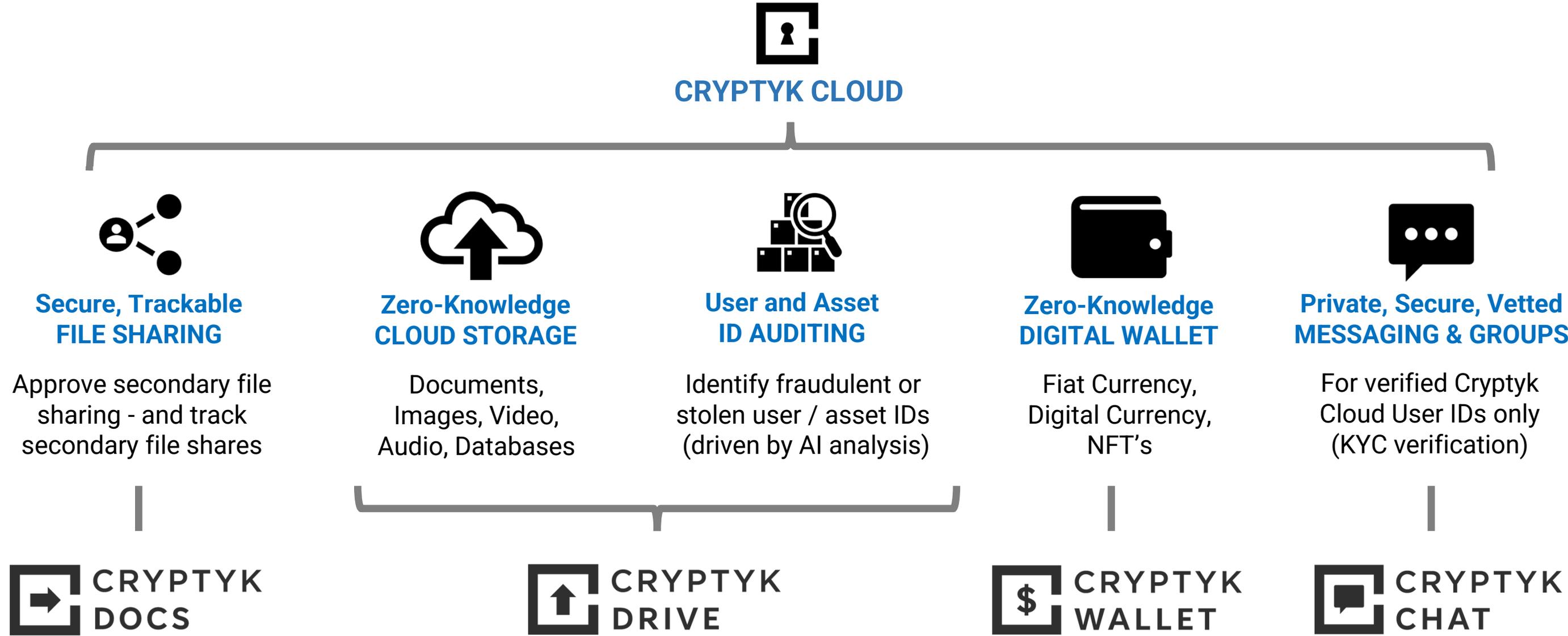- Offers Zero Knowledge privacy structure for user access

Evolution of Fast, Scalable, Secure, Private Cloud Storage

Centralized
Cloud Storage
(2000 - 2015)

Decentralized
Blockchain Storage
(2016 - 2022)

Decentralized
Multi-Cloud Storage
(Q2 2024 launch)

Files & User Activity stored in Centralized Cloud

- Fast ✔
- Scalable ✔
- Not Secure ✘
- Not Private ✘

iCloud · aws · Google Drive
Microsoft · IBM · ORACLE

Files & User Activity stored on Blockchain

- Slow ✘
- Not Scalable ✘
- Secure ✔
- Private ✔

Filecoin   **$4.6B M.Cap. @ $70**

STORJ   **$300M M.Cap. @ $0.8**

sia   **$600M M.Cap. @ $0.01**

Files stored on Multi-Cloud, User Activity on Blockchain

- Fast ✔
- Scalable ✔
- Secure ✔
- Private ✔

CRYPTYK

**$40k / day volume
3200 Token Holders
(pre app release)**

CRYPTYK

Competitive Analysis of Secure Cloud Storage Solutions

PRODUCT FEATURE	CRYPTYK	Google Drive / skyhigh / Symantec	Filecoin
Storage Architecture	Decentralized Cloud	Centralized Cloud	Blockchain
No. of Vendors	1	3	1
No. Threats Protected	5 (Ext, Int, Vir, Sur, Op)	4 (Ext, Int, Vir, Sur)	1 (Ext)
Relative Attack Surface	< 0.001%	100%	1%
Access Latency	50-200 msec	50-200 msec	20+ seconds
Real-time Applications	Yes	Yes	-
Threat Analysis, DLP	Yes	Yes	-
User Audit / Quarantine	Yes	Yes	-
File Track / Quarantine	Yes	-	-
GDPR Compliance Option	Yes	-	-
Data Sovereignty Option	Yes	-	-
24/7/365 Guaranteed	Yes	-	-
Suitable for Enterprise	Yes	Yes	-
Suitable for Consumers	Yes	-	Yes
Business Model	B - B - C	B - B	B - C
USD Price / User / Month	$19 - $99	$10 - $50	$5 - $20

CRYPTYK

Decentralized Web3 Apps for Consumer / SMB Markets

CRYPTYK CLOUD

**Secure, Trackable
FILE SHARING**

Approve secondary file
sharing - and track
secondary file shares

**Zero-Knowledge
CLOUD STORAGE**

Documents,
Images, Video,
Audio, Databases

**User and Asset
ID AUDITING**

Identify fraudulent or
stolen user / asset IDs
(driven by AI analysis)

**Zero-Knowledge
DIGITAL WALLET**

Fiat Currency,
Digital Currency,
NFT's

**Private, Secure, Vetted
MESSAGING & GROUPS**

For verified Cryptyk
Cloud User IDs only
(KYC verification)

CRYPTYK DOCS

CRYPTYK DRIVE

CRYPTYK WALLET

CRYPTYK CHAT

CRYPTYK

Cryptyk Token (CTK) Economy

Available via Upcoming Listings = 50,000,000

6.7%

Cryptyk Inc. = 250,000,000

33.3%

CTK Circulating Supply (ie: Investors and Exchanges) = 275,000,000

36.7%

CTK Community Reserves = 150,000,000

20%
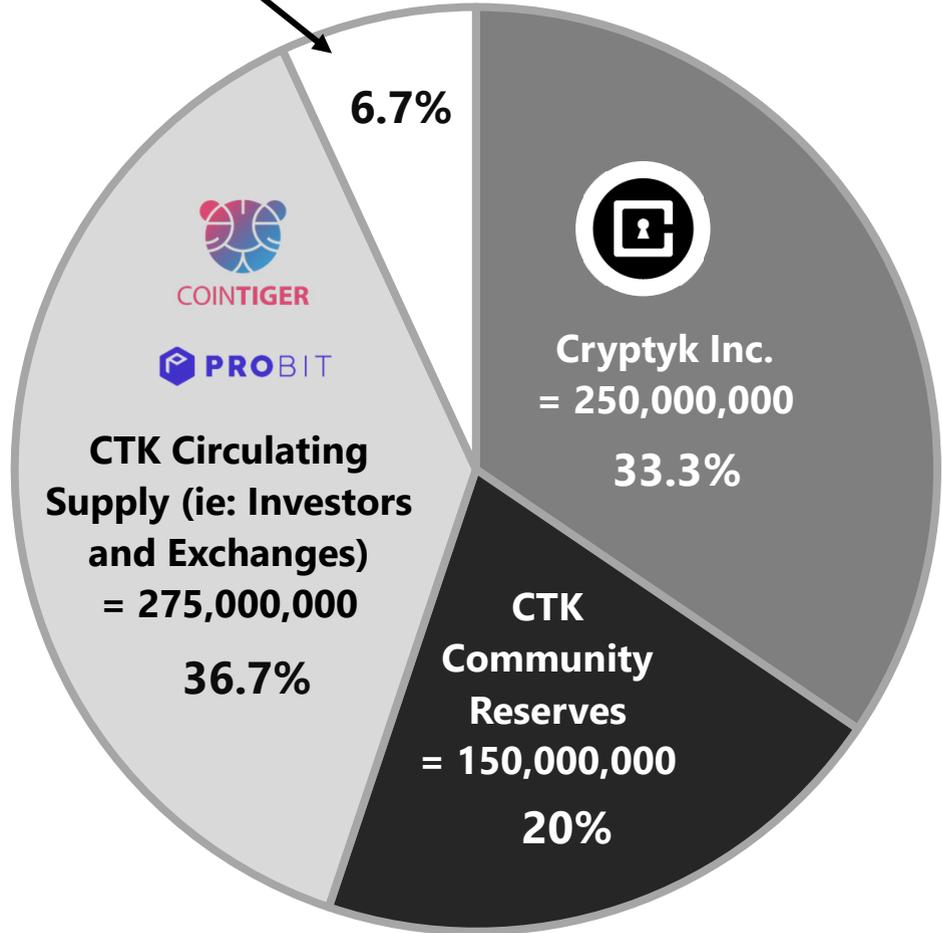
750 Million CTK Tokens (total fixed forever)

- CTK drives the public blockchain that executes security auditing functions for decentralized consumer apps.

- CTK can be used in addition to fiat currency to pay for Cryptyk Apps (except for US customers)

- 750M CTK created in 2018 (fixed forever) with 33.3% owned by Cryptyk and 20% in a reserve pool to assist CTK customer growth

- 275M CTK already issued via 2018 ICO, 2019 Cointiger and Probit Listings + additional OTC Sales

- CTK now trading at ~ 0.25 cents and 20M CTK / day daily volume

- 50M CTK to be released via upcoming listings in 2024 on additional exchanges → we estimate 10x Price and 4x Volume increase

CRYPTYK

8

CRYPTYK

Decentralized Encrypted Web3 Cloud Apps

Cryptyk Cloud Apps	cryptyk.com
Cryptyk Token Economy	cryptyk.io

General Inquiries:	info@cryptyk.com