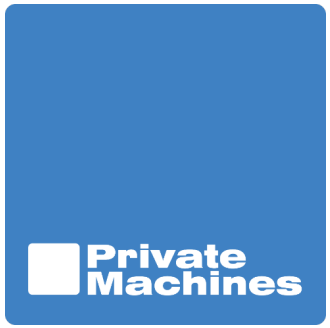
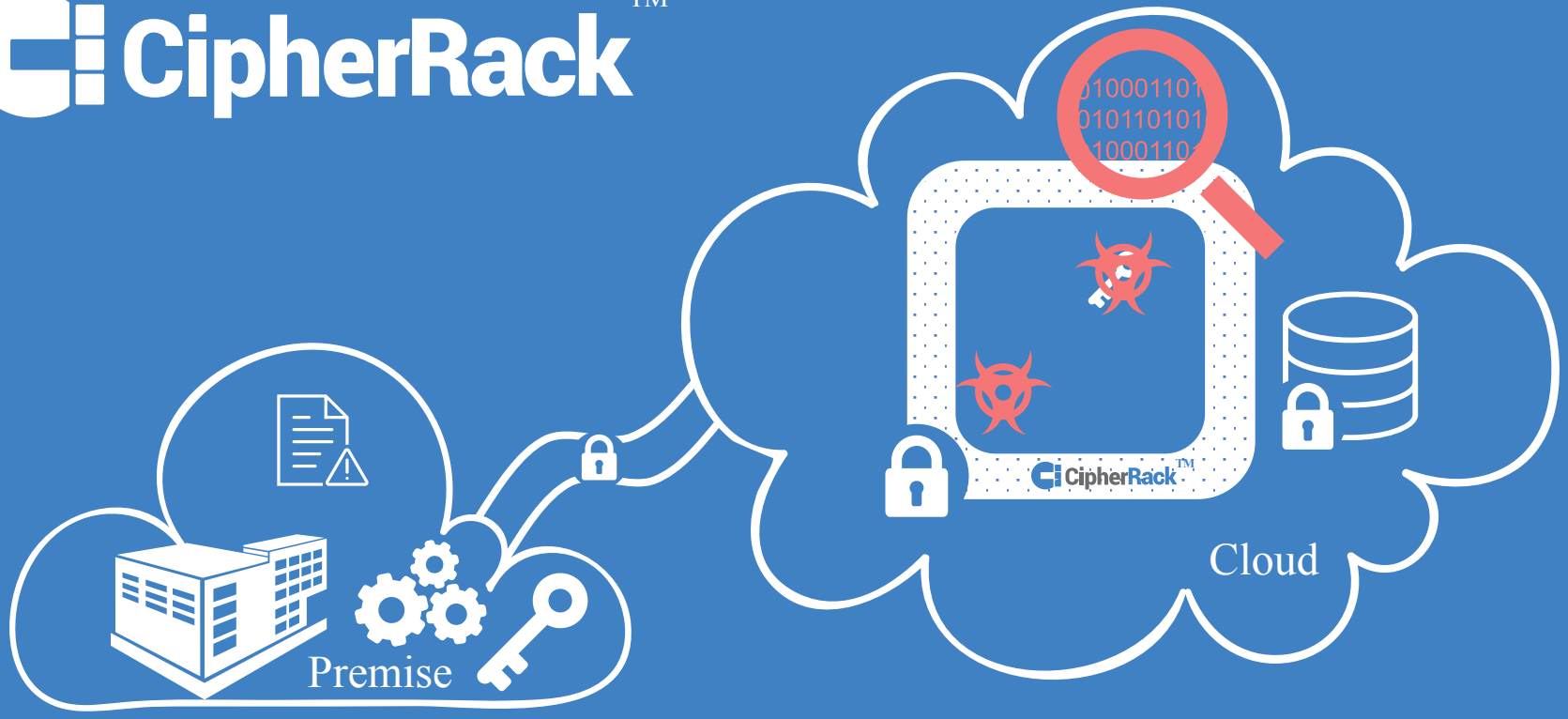


Control Your Cloud Deployments

Secure SQL / Storage / Encrypted File Sharing

Secure Computation Environments

CipherRack™



Private Machines

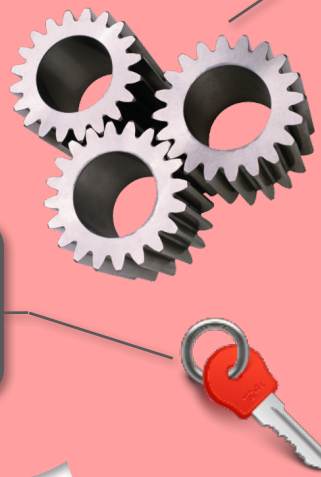
Everything moves to the cloud

Once you move you lose control

Your workload is **managed by somebody else** and **run in a foreign environment**

At-rest or in-transit encryption is not enough

To **process** your data, your **encryption keys are exposed**



Time to **regain control**

All processing is private

Nobody else can access your data

Do not have to trust cloud provider

Protect software integrity

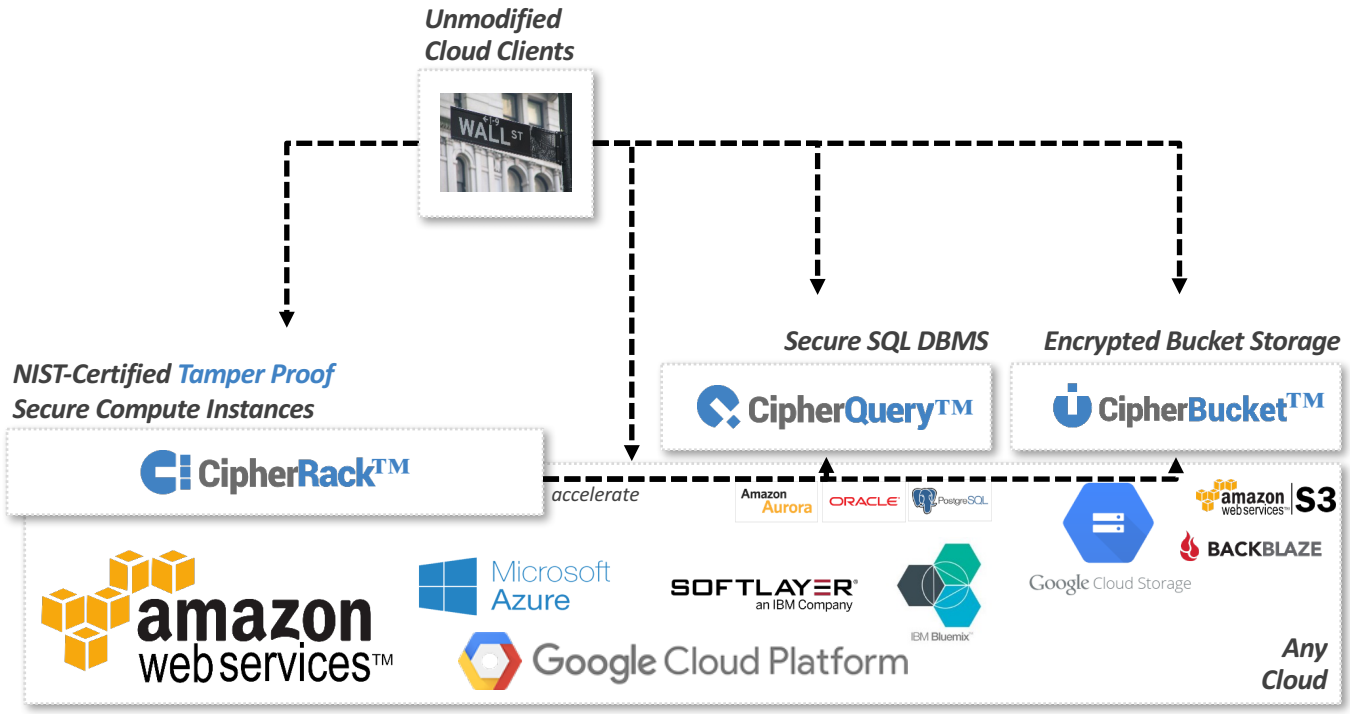
Protect data integrity

Overview Video

https://privatemachines.com

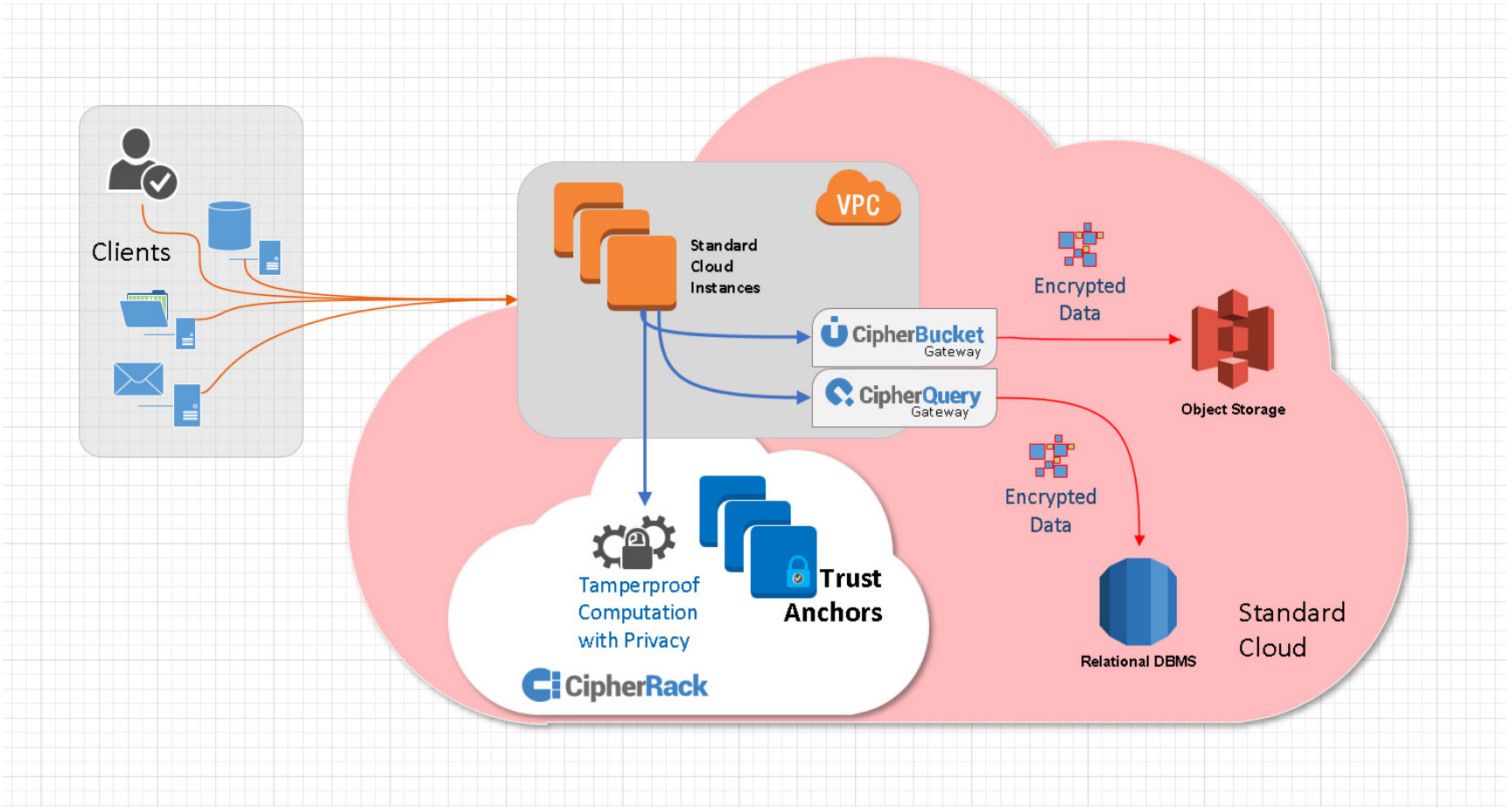
Overview

Private Machines



Sample Deployment

Private Machines

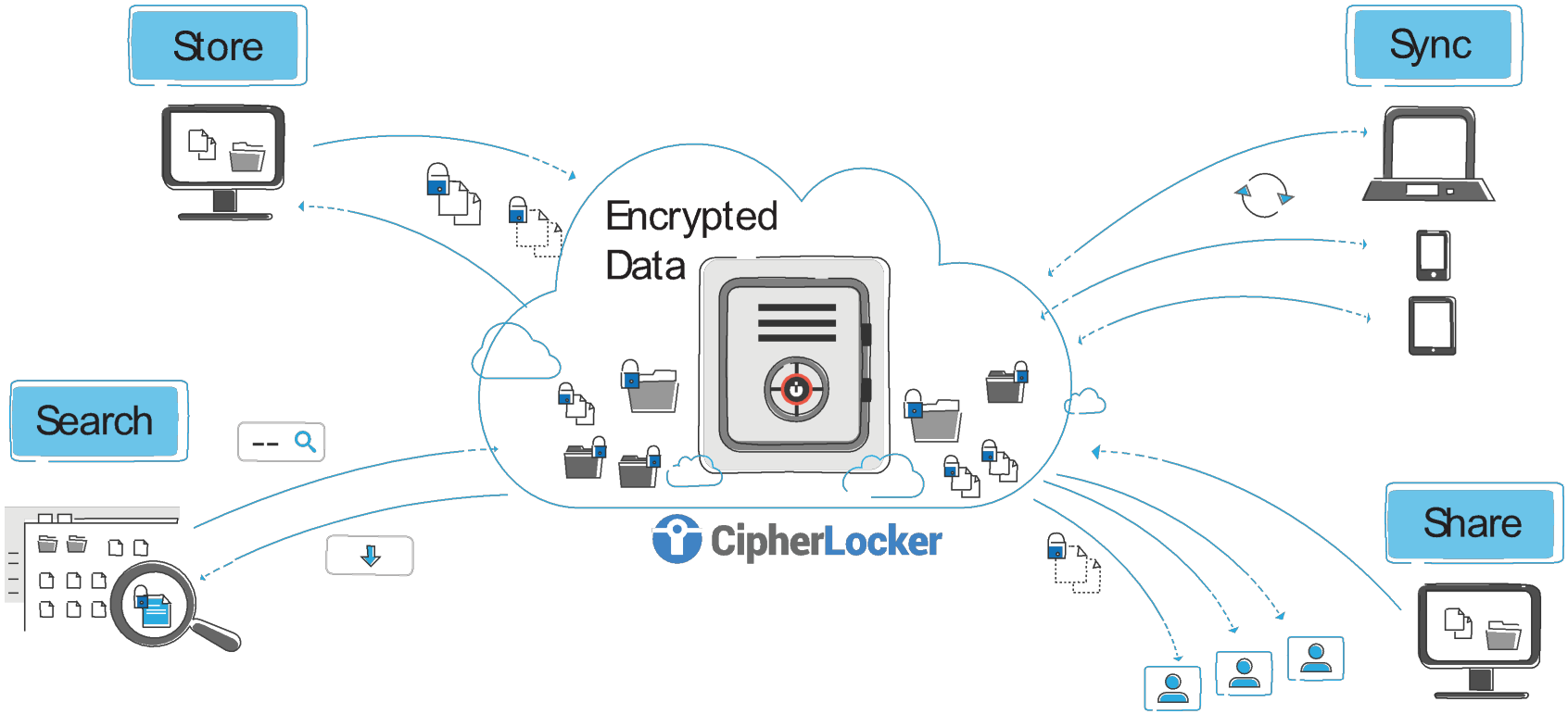


CipherLocker

Encrypted File Sharing

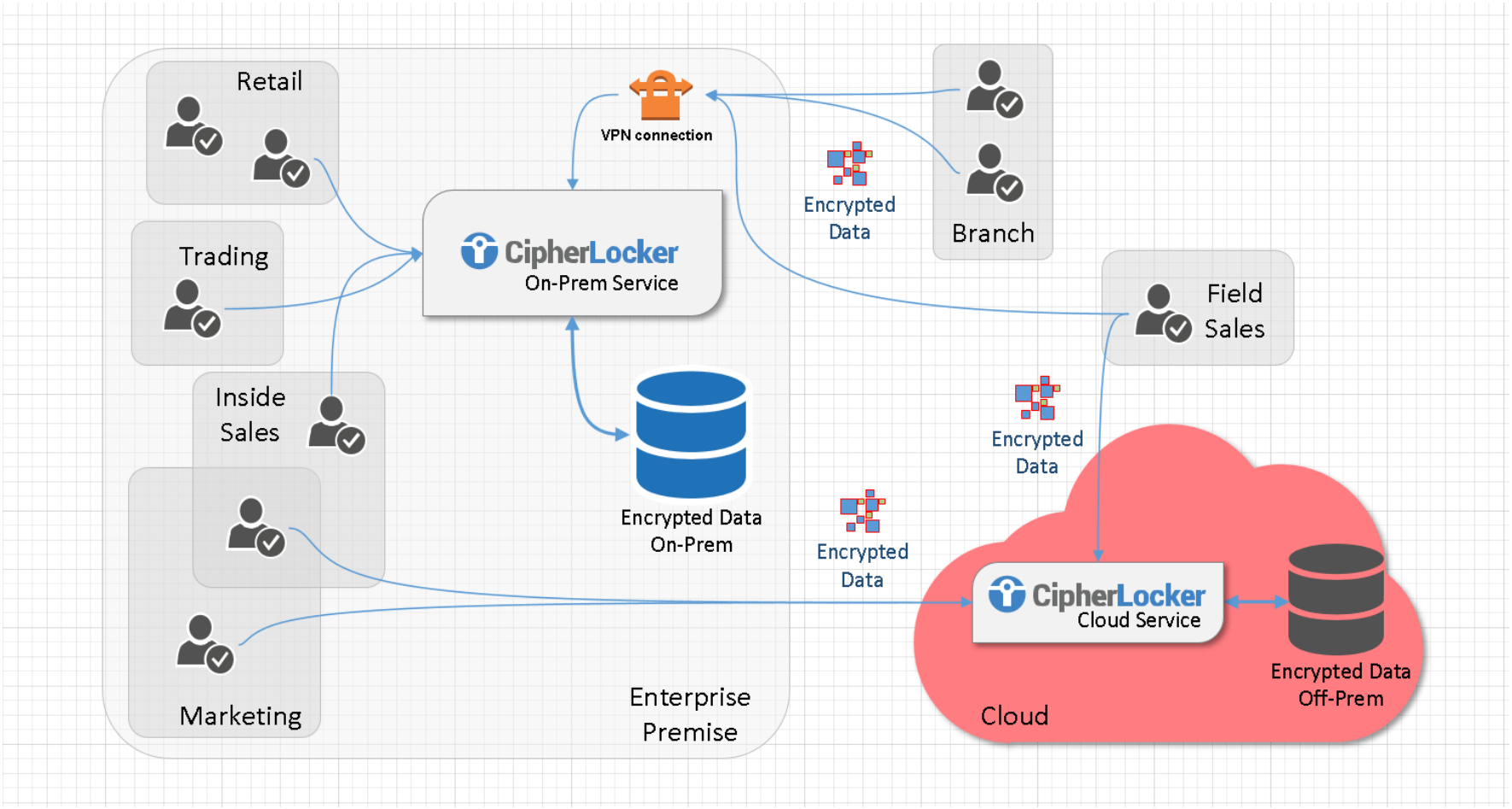
Free. Supported by the National Science Foundation Transition to Practice Program

CipherLocker™: Encrypted File Sharing



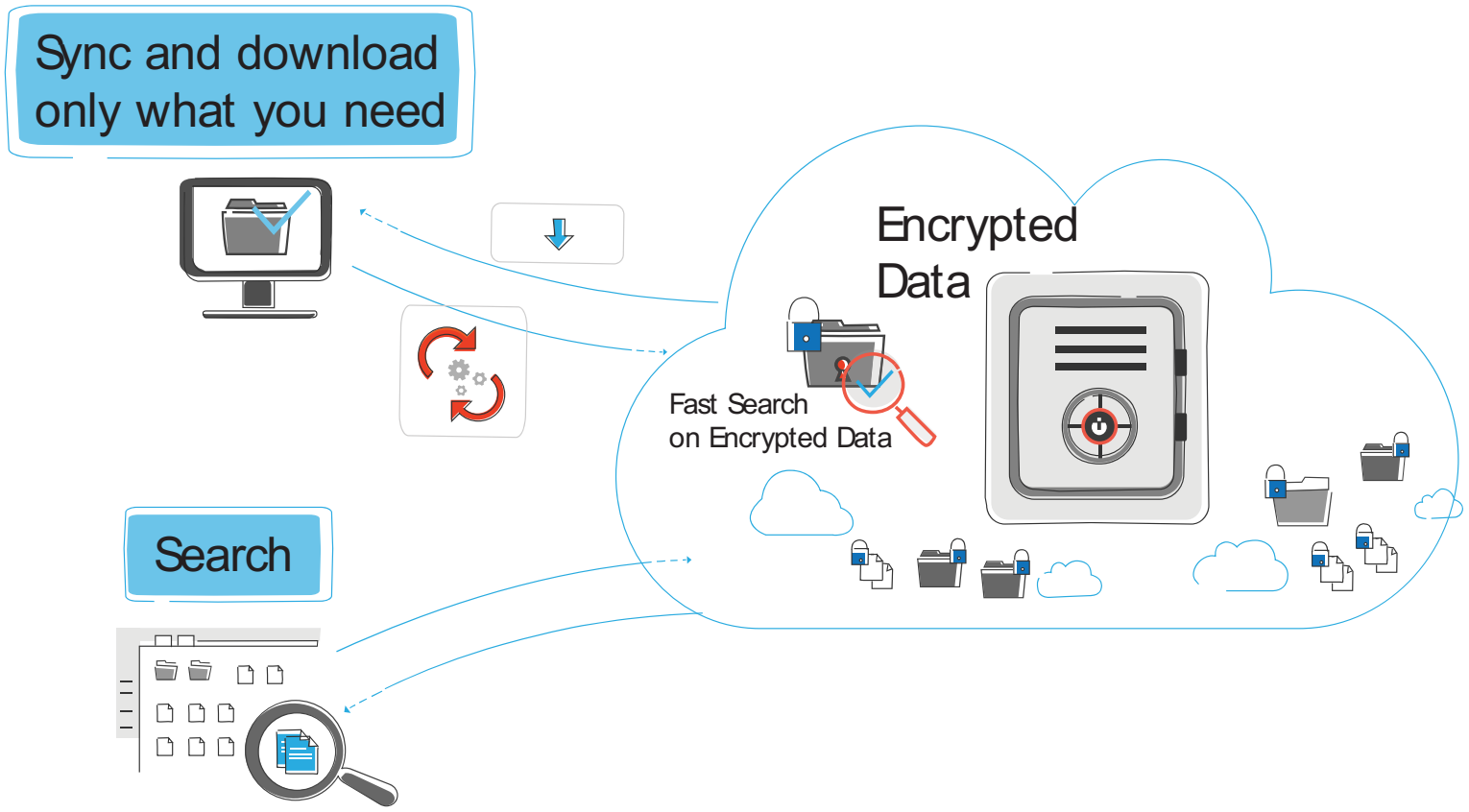
Deployment

CipherLocker



Encrypted Data Search Portal

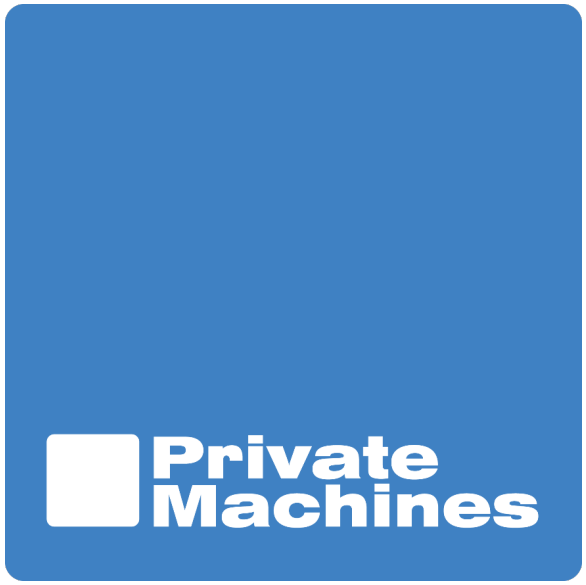
CipherLocker



Feature Comparison

CipherLocker

	CipherLocker™	Dropbox	Box	Tresorit	Boxcryptor	SpiderOak
Search In Encrypted Files Without Downloading	●	✖	✖	✖	✖	✖
Cloud Absolutely Never Sees Your Data	●	✖	✖	◎	◎	◎
Cloud Never Sees Encryption Keys	●	✖	✖	◎	◎	◎
Secure Public Key Exchange	●	✖	✖	✖	✖	✖
Share-Wide Integrity Protection	●	✖	✖	✖	✖	✖
Sharing Secure Against Cloud Insiders	●	✖	✖	✖	✖	✖
Grouping/Teaming Secure Against Cloud Insiders	●	✖	✖	✖	✖	✖
Source-Code Available for Evaluation	●	✖	✖	✖	✖	✖
Cryptographic Protocols Publicly Documented	●	✖	✖	◎	◎	◎
Ranked Search	●	●	●	✖	✖	✖
Semantic Security	●	✖	✖	◎	◎	◎
Zero-Leak™	●	✖	✖	◎	◎	◎
Redundancy Across Multiple Clouds	●	✖	✖	✖	✖	◎


Private
Machines