

# Data Security Amid the Pandemic:

## Getting It Done vs. Doing It Right

2020 proved to be a landmark year in digital transformation for enterprises—even for those averse to change. COVID 19 forced enterprises to converge their focus on:



This is when cloud-tech emerged as IT's saving grace, enabling an on-demand economy of apps, services, tools, and infrastructure—for businesses and consumers alike.

While 94% of enterprise were relying on at least one cloud-service in the pre-pandemic times—pandemic made CLOUD the most sought-after tech.

94%



55%

Accelerated Adoption of Cloud Computing



52%

Accelerated 5G Adoption

5G



51%

Accelerated AI and Machine Learning Adoption



## Businesses moved fast and we mean FAST!

Expected

Actual

Acceleration factor, multiple

Increase in remote working and/or collaboration

450

10.5

43x

Increase in Customer demand for online purchasing/services

585

21.9

27x

Increase use of advanced technologies in operations

672

26.5

25x

40X Faster

Enterprises rolled out new solutions much faster during the pandemic than they would have under normal circumstances.

Five Years

of digital adoption timeline was expedited into around 8 weeks—industry experts claim.

## But at what cost?

Uncertainty underscored the need to focus on critical priorities.

51%

feel cyber and data regulation is the top challenge in adjusting to digital disruption.



Nearly two-thirds greenlit data transfer projects that would have taken multiple rounds of considerations and revisions under the pre-pandemic conditions.

More than half of such organizations found themselves firefighting that can be accredited to introducing short-term fixes to tech-centric requirements.

## Let's Look at the Top Three Activities That You Might Want to Revisit and See If You Got It Right.

### 01 Rushed Cloud Adoption



40%

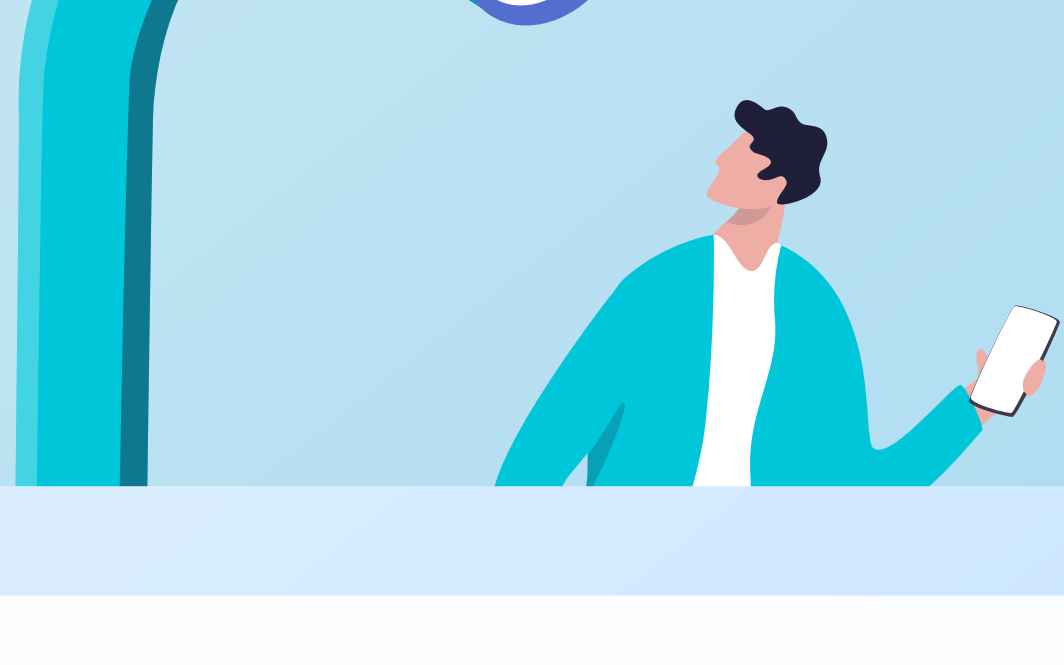
organizations observed a rise in cyber-attacks amid the pandemic

32%

relied on CSP's security services for their assets in public clouds.

### 02 Poor Data Security

High profile companies such as Zoom getting fined a hefty \$85 million for falsifying their sub-par encryption. Most businesses are now waking up to the importance of it.



### 03 Key Management Got Lost in Translation

Did you abide by the key management best practices?



Building Data Centric Protection on Zero Trust Architectures in Hybrid Cloud



Keeping Encryption Keys Outside the Hybrid Cloud With External Key Management

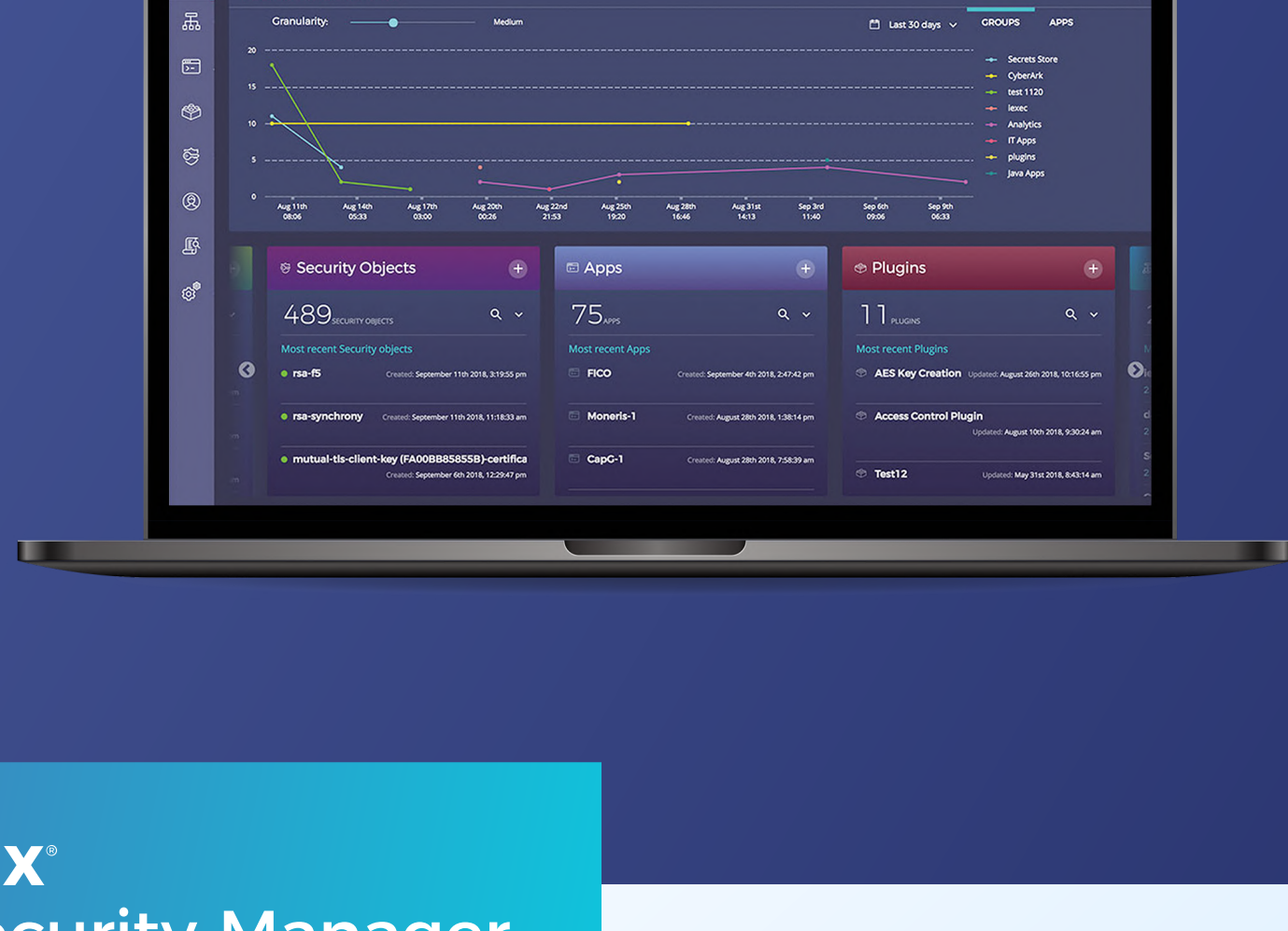


Meeting Data Protection Needs Based on the Hybrid Cloud Provider's Data Storage Locations

## You only migrate once when you do it right.

Do it with Fortanix DSM SaaS

An iterative approach to digitization helps contain any potential compatibility issues with legacy data security solutions. Cloud migrations are more prone to errors and inconsistencies when you jump the gun, and even more when they are backed by legacy systems that were never built for cloud compatibility.



Fortanix Data Security Manager

Fortanix DSM SaaS is a single integrated solution that includes every facet of data security including secure key management, tokenization, cloud key management, secrets management, encryption and HSM services — minus the infrastructural management and logistical hassles.



#### KEYS, SECRETS AND CERTIFICATES MGMT FOR MULTI-CLOUD

Key Management and secrets store for applications across multiple public and private clouds. Interoperable with AWS, Azure, GCP, Oracle Cloud, IBM, SFDG...



#### DATABASE TDE

Management of master keys for encryption of table spaces and columns in databases and on-premise infrastructure. Oracle DB, MS SQL Server, MySQL, MongoDB and others.



#### PUBLIC KEY INFRASTRUCTURE (PKI)

Management of public private key pairs, code signing keys and certificate stores. Seamless integration with MS-PKI and Entrust.



#### TOKENIZATION AND CRYPTO FUNCTIONS

Tokenization of data with Format Preserving Encryption. Reduces compliance scope by storing tokenized data in your DB. Other crypto functions including sign, verify, hash, DUKPT, etc.



#### TLS OFFLOADING

Securing private keys used to establish TLS sessions. Integration with F5 BIG-IP LTM Imperva and Juniper vSRX.

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The first and only multicloud data security service certified to the rigorous FIPS 140-2 Level 3 security standard.



#### SECURE

- Separates your data and keys and provides complete key secrecy.
- Staff augmentation with crypto experts.
- Built using FIPS 140-2 Level 3 certified hardware.



#### SIMPLE

- Instantly available with zero upfront costs.
- Delivered as a Service, no HW/SW maintenance or management required.
- Integrate apps in days with REST APIs.



#### SCALABLE

- Free and unlimited keys, applications and groups (partitions).
- Future-proof with DSM SaaS Plugin feature.
- More use cases = same base subscription cost.