

The cornerstone of data security

Keep your encryption keys

BACKGROUND

The ability to keep data safe as it is transmitted to remote or on-premises servers and protecting it from intrusion at rest are critical cloud security considerations. The question of where encryption keys should be stored is the other half of the cloud security equation.

When encryption keys are held by a third-party cloud vendor, there is an inherent risk of unauthorized disclosure: stored data may be viewed by the cloud vendor, subpoenaed by a government or legislative entity or fail to meet compliance mandates requiring control of data and mechanisms preventing unauthorized access or disclosure.

OUR STRATEGY

The Code42 platform and its data protection and management solutions enable on-premises encryption key retention in every cloud deployment scenario.

Code42 offers data management and protection solutions deployed in fully public cloud, private cloud or hybrid cloud models. With an on-prem master server as part of any cloud deployment model, enterprise IT may retain full control of encryption keys.

When encryption keys are managed on-premises, enterprises own the mechanism that “unlocks” encrypted data—so that in any given circumstance, the only way to decipher stored data is to have possession of the keys that “scrambled” it. This level of data privacy is critically important for the enterprise to prevent disclosure of sensitive or protected data and to meet regulatory compliance requirements.

AVAILABLE TODAY

No matter where data is stored, Code42 solutions can be deployed with keys on-premises—a unique feature that gives enterprises ultimate authority of their protected data. Moreover, at Code42 encryption keys are generated for each user—not each organization.

With an onsite master server, administrators can utilize existing Active Directory and LDAP tools—to configure users and discrete business areas—and Single Sign On. When more than one destination is utilized, the IT admin may select data destinations according to region, data-security classification or other criteria. Holding keys onsite prevents unauthorized access by any party and enables customers to meet compliance requirements that hold them responsible and accountable for data privacy and security.

“Key management is the hardest part of cryptography and often the Achilles’ heel of an otherwise secure system.”

Bruce Schneier,
American cryptographer, computer
security and privacy specialist

Code42 gives you choices to help you defend your data.



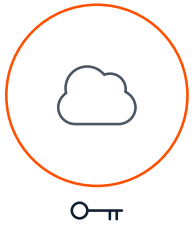
PRIVATE CLOUD

Code42 enables enterprises to keep encryption keys and data on premises. Data storage can be deployed on your physical or virtual infrastructure or on Code42 purpose-built appliances. Our appliances are tuned for performance and monitored remotely by Code42's Customer Champion team. A managed private cloud is ideal for organizations that prefer or are required to maintain onsite data storage—but don't want to build or manage infrastructure or oversight of multiple vendors. This deployment minimizes total cost of ownership and enables effortless expansion of I/O and storage capacity over time.



HYBRID CLOUD

Code42 hybrid cloud deployments with on-premises encryption key management are ideal for organizations that require high accessibility and elasticity, the ability to choose data destinations and absolute security and control of data as required by regulatory bodies.



PUBLIC CLOUD

Unlike other cloud providers, Code42 provides the option to hold encryption keys on site in a master server while data is stored in Code42's public cloud. This type of data storage gives enterprises the option to utilize the myriad benefits and accessibility of global data centers while retaining exclusive ability to decrypt data.

CONCLUSION

Data is at risk. The enterprise is perpetually on the defense. Compliance and regulatory rules are in flux. And government and law enforcement are taking new liberties in accessing proprietary data. Deciding where to store your data and who should control the encryption keys are critical decisions and a key pillar in your overall data security strategy. Code42 gives you choices that help you defend your data in every cloud model.

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