

Healthcare organizations universally use digital transformation technologies with sensitive data









less than

30%

of respondents are using data encryption within these environments

The reality of the multi-cloud enterprise

Multi-cloud environments make the job of protecting data more complex.



Healthcare providers are broadly adopt

douds 100 likes

Not only one healthcare provides deploying a large number of cloud environments.

Not only one healthcare provides deploying a large number of cloud environments, but clouds have energied as a leading repository for sensitive data. U.S. health exponedents say they are using a lof the three Revenue of cloud — SacS. RadS and isos? so some sensitive or regulated data at rates for higher from their global toos? To so tore sensitive or regulated data at rates for higher from their global coursesponts or the global sample as a whole (see Rigure 9).



Flaure 9 - Environments used to store sensitive/regulated di

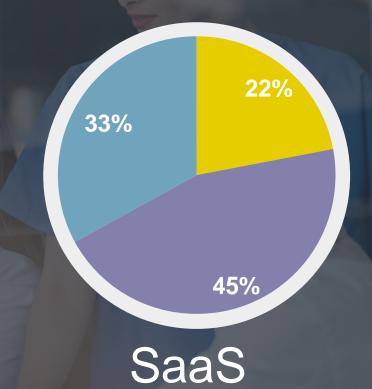
The HIPAA Omnibus Rule has were into affect in 2013 mode HIPAA Privary and Security rules more stringers and strengthers the oblity of the Office for Civil Security rules more stringers and strengthers the oblity of the Office for Civil service provides to the use has been been standard definition of business associates (RA) to include sectionic data strangers and about a writer provides in associate agreements between leachings on groups and about a writer provides are now required. Furthermore, beathers on groups and the strength of the same privacy, security and broach notifications rules as covered entits and are business to Collaboration and the control of the same privacy, security and broach notifications rules as covered entits and are business to Collaboration. Healthcare organizations need to pursue a shared security model between the privacy of the strength of the strength in the ProSt. IsoS, or Sold in the strength of the beditherer companies to a responsibility for using data protection method is the encryption, tolerations and making within their own environment to ensure protection when data moves between Sold applications or migrates to other applications.

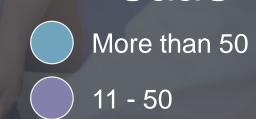
Organizations are taking a multi-layered approach to securi

Number of cloud environments

THALES











Driven by the need to protect digital transformation's complex data environments,

rated complexity as the top barrier to implementing data security.

Data breach resistance: no one is immune



Healthcare has the highest breach rates

U.S. Healthcare reported the highest rates of data breaches of any industry segment surveyed.

70%

of U.S. healthcare enterprises say that they have been breached at any time in their history, with...

33%

... experiencing a breach within the past year alone.

Encryption rates are low

Despite recognizing the importance of protecting sensitive data, encryption rates throughout the enterprise are surprisingly low.

- The Passen Protection and Affordable Care Act at 2010 (PPACA) resetted rese core debers and embrusement models, such as accountable core organisations (ACO₂) and value-based purchasing plans, facused on reimbursing for care coordinates are provided by the proving provides may be act to the proving provides are the facus and the proving provides are a fee facus receive or volume basis. As a result of the PPACA, more affecting the basis indomation (aPHI) has been received and shored with other entities, increasing the risk of a privacy/secusly breach.
- Under ARRA's HITECH Act, the HIPAA Omnibus Rule published in January.
 2013 implements for new privacy and security provisions proposed. As a result, privacy has one of social privacy in a conference of the privacy in the privacy has been seen as stringent. The rules and liabilities associated with privacy breaches increase and provision and provision and provision and provision.
 2014 provision and prov
- The Drug Enforcement Agency's Electronic Prescription of Controlled Substances (EPCS) passed in 2010 requires two-factor authentication for each electronic prescription authorized physicians write for controlled substances.
- The SUPPORT for Potients and Communities Act signed into federal law in 2018 Includes an electronic prescribing requirement for all controlled a buttonic prescriptions for a covered Medicore Far D plan. The compliance deadline is Jenuary 1, 2021, in an effort to combar the opinid crisis many states are implementing similar leaves to modeline EFCS.

These compliance requirements are clearly driving a significant portion of the originalization of driving as security efforts. When oaked which statement have mached their data princing ("sweetingsh) states, exception was the similarity origin and she to have been described as the self-time industry that used exception or at the highlest rate for sensitive date in 50% ser figure 13).

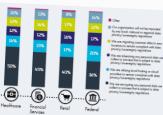
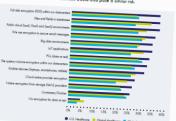


Figure 13 – Data privacy/sovereignty storice Source: 2019 Trains Data Trace Record Source: 100 https://doi.org/10.1011/j.j.com/storice/source/ Healthcare encryption rates are still too low

As they look to safeguard sensitive data, the good nex

As they look to sofeguerd sensitive data, the good news for U.S. healthcore organizations is the rate or which they use exception is higher than their global counterpose, and higher than their global sample as a whole. The bod news is that at rates of between 25% and 38% depending on the type of data, these rates of an encryption on set ill the low, sepecially given the encryption requirements set footh in HIFAX [see Figure 14]. This office proper values they fit Tystems or inflinite because it implies that or discharative, financial AND clarical data is variable to bad across in clear rest. Lear mobile devices would also poss a similar risk.



rce: 2010 Tholes Data Threat Report Survey, IDC, November, 2018

The top use cases for U.S. healthcare organizations to use encryption are full-disk encryption within their own doscenters, files and fields in deathbase, and within public cloud entiments. Both of these is proacticed by 38 for die U.S. healthcare sample, roses such higher from the global sample. And while it is obvoicily a positive to use FU.B. it should do be need that the presention FD. provides as lained to last, risk, or improper disposal of drives. While this is good for large are told in computer, and y'checks the box for compliance purposes and provides links to no protection for other types of discounter from such as system compromises, resider from configurations.

Greater use of encryption of files and fields in dorobases can help grand against infiliation and shaft of data, much like in the Target attack several years aga. Optercriminal gained access to the removed via the Name, she no accessed the automer credit card database and enfiltered shat data which was in deer sea and not encrypted.



Sor less O/O

of healthcare organizations polled say they use encryption for the vast majority of use cases studied.



Data privacy and sovereignty regulations impact nearly all

Enterprises in healthcare face a daunting array of privacy and compliance regulations including HIPAA/HITECH, PPACA, the Patients and Communities Act, and EPCS.





90%

will be affected by data privacy and sovereignty regulations.





IDC guidance/key takeaways

Data security is not easy, particularly for healthcare organizations, many of which are working diligently to achieve the benefits of digital transformation. And as healthcare organizations continue along their DIX journey, they need to reexamine their data security stances. In particular, IDC recommends healthcare security professionals consider the following:

- tors. Today's threats come from all over, and healthcare organizations need to remain vigilant. As bad actors continue to evolve their methods, security professionals need to keep their guard up and continually evolve to protect against them. As guardians of sensitive patient data, and with stringent penalties for noncompliance, healthcare organizations and must take this
- are no longer sufficient to protect against the myriad of data threats facing the organization. With more devices at the edge, the expanding threat surface is increasingly borderless, so the legacy perimeter approach doesn't work. Healthcare providers must recognize the increased complexity of today's security environment and implement solutions that span legacy concerns as well as modern, cloud-based digital transformation technologies. "As a service" and "as a platform" solutions that cross environments can help eliminate much of this complexity and cost - making the job much more manageable.
- organizations have significant penalties for non-compliance. And in today's unpredictable political environment, it's hard to know what may be ground the corner. Healthcare providers need to ensure they are not only diligently following current regulatory compliance mandates, but that they also have sufficient flexibility built into their technologies to handle new requirements when they occur.
- nt part of the mix. As healthcare providers continue to place greater amounts of their data in the cloud, they must adopt new data security strategies. Even selecting a top-tier cloud provider doesn't remove the burden of an organization doing its part to provide data security, and this starts with encryption

Principal analyst profiles



frank Dickson is a Program Vice President within IDC's Security Products research practice. In this role, he provides thought leadership and guidance for clients on a wide range of security products including endpoint security, identity and access inagement, authentication, threat analytics, and emerging products designed to ect transforming architectures and business models.



ne Dunbrack is Research Vice President for IDC Health Insights responsible for research operations for IDC Health Insights. She manages a group of analysts o provide research-based advisory and consulting services for payers, providers, ountable care organizations, IT service providers, and the IT suppliers that ove those markets. Lynne also leads the IDC Health Insights' Connected Health

IT Strategies program. Specific areas of Lynne's in-depth coverage include mobile. gagement, interoperability, health information exchange, privacy, and security. Technolog coverage areas include clinical mobility (physician facing) and mobile health (consumer facing), health information exchange, end-to-end remote patient health monitoring for health, wellness and chronic incontration executings, even view exercise patient reason incontrating for neutro, we linear una contration conditions, internet of Things (IoT), personal health records and member, patient, provider partials, kiosla, videoconferencing and online care, unified communications, aging in place, and social.

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About Thales

The people you rely on to protect your privacy rely on Thales to protect their data. When it comes to data security, organizations are faced with an increasing number of decisive moments. Whether the moment is building an encryption strategy, moving to the cloud, or meeting compliance mandates, you can rely on

Decisive technology for decisive moments.

Data Security doesn't have to be hard

It's vitally important. Organizations need to take a fresh look at how they provide data security.

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