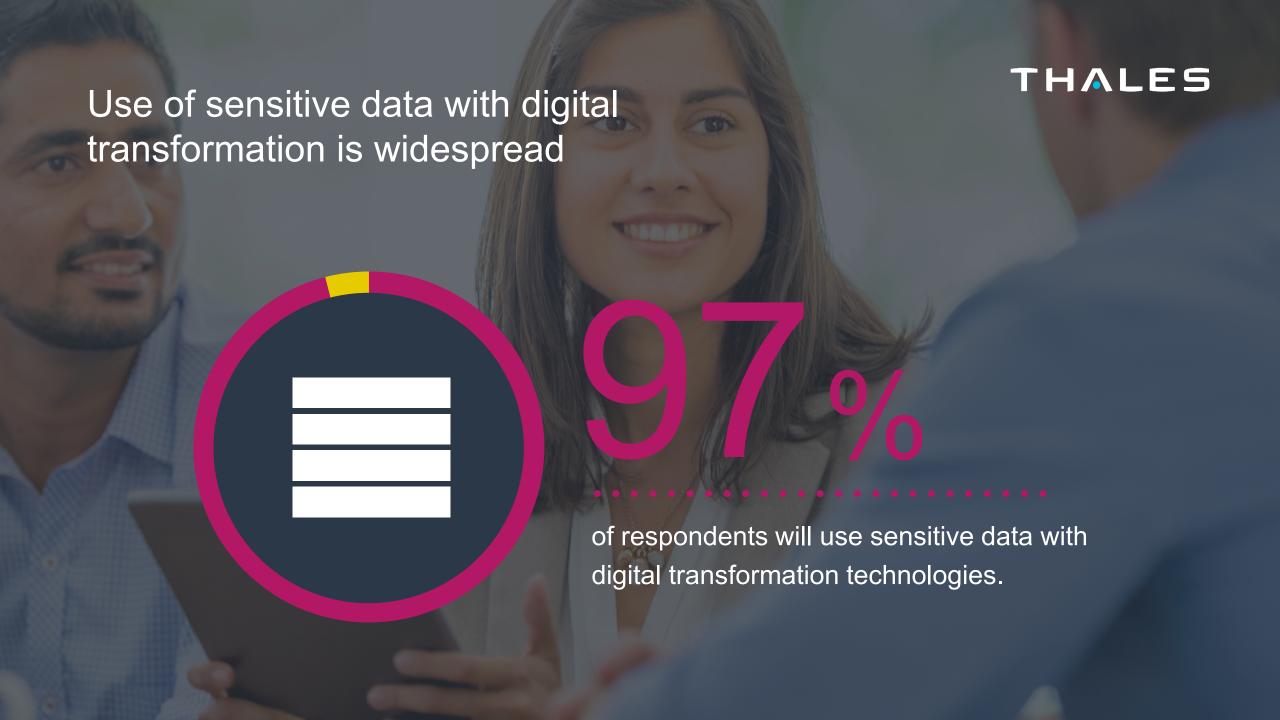
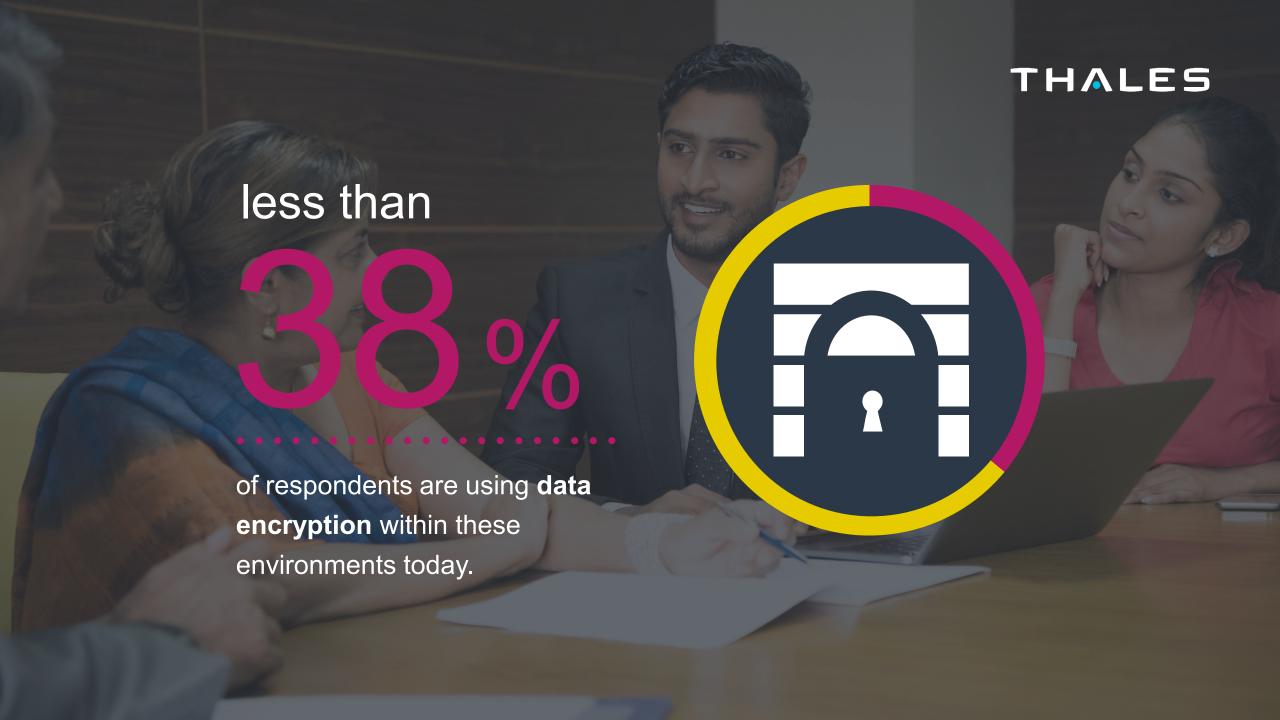
# THALES







# The reality of the multi-cloud enterprise

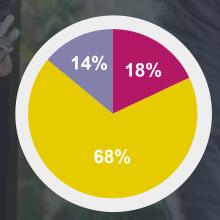
Multi-cloud environments make the task of protecting sensitive data more complex.

### The rate of growth of security spend in U.S. retail is slowing This year's study showed a decline in the rate of growth in security spending oc this year's study decord a decise in the rate of growth in security synarting access the board, and the result hardney was no exception. The present of global rate is responsive to the security of the result of t ore increasing, down than 84% oil year (see Fig. 19.2). In the U.S., those who so spanding suil decrease were to all girlly (12% compared on 9%) and the number surging that spend self say from the production (25% compared to 7%), the treat is spending all bondowns in rad as severe as other induces, those who say spanding is increasing (53%) is inglifer than the global total (50%). in-me-cloud retailets investing more unit absorbing greater tools to areas countries. Smaller, brick-and-monar-based retailers can struggle to match their spend levels in Smaller, binck-aro-erconar-based retraters can struggler to march treet specia evens in comparison. As security needs continue to cross multiple environments — on-premise. comparison. As security needs continue to cross multiple environments – on-premise as well as emerging cloud environments – provides will need to implement security os weii os energing acusa environmenti – provideis wili need to implement sec tools and platforms designed for modern, hybrid and nutliclaud architectures. tooks and platforms designed for modern, hybrid and multicava acceptations, not jerny stagged from legacy admologies. Cloud-based solds from delivered fast a senteral and a platform that coals environments are examples of such solutions. service and as a powerous: that cross environments are examples or such so, that can reduce out and completely and make the job more manageable. Threat vectors for retailers are broadening One of the big messages coming from this year's data threat report is that no one ls safe, bron the most sophisticated companies are galling broaded, and in fact, is sure, that has represented companies are gaining preached, and in rec-cer study stress that across all industries, the greater the level of sophistication, the nore Mely respondents are to say that trey have been breached. Say four percent move Eastly respondenss one to say more trey move over the correction, steep out particle of comparies occuss all industries that spend more than 10% of their IT budget on or compares across as incustines that spenial more than 10.4 of mer 11 broader on security say they have experienced at least one breach and, of those, 3.4% say that

security say they have experienced at least one areach and, or house, salls say that they have experienced a breach in the past year. Compare this to organizations that spend 10% or less of that if I budget on socially.

ronly seven percent or more say with may serve experimental at some one analysis. In the company's history, while 17% say that they experied as discount in the last year. It may be that against it is say and more are larger and more technology our. Il may be mus organizations that spend more and organ and more extraologi, icesed, and therefore have a greater allack surface contributing to an increased. recursor, and investore have a greater strate, screen communing to an increased risk of heing preached. Convessely, those had spend less are less marvie and may nax of being produced. Conveniently, make that seamed the area that the area that be unaware of past breaches or have yet to discover angoing ones. At the very on unaware on pust unexcures or naver yet as usuaware surguring screek as a marker y least, the finding demonstrates that no matter the spend, no company can rest easy. looking at retailers in particular, a significant number report having experienced a broach 62% of U.S. retal respondents say hay have been threaded all any point. their history, similar to U.S. financial services and federal government vertices and federal government vertices. Trey are also relatively concerned about their vulnerability, 39% of U.S. retailers wider themselves "very" or "extremely" vulnerable, a higher parcer lage than

## Number of cloud environments

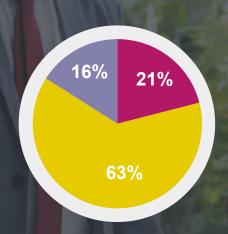


## laaS









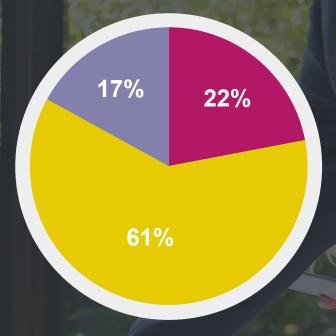
PaaS





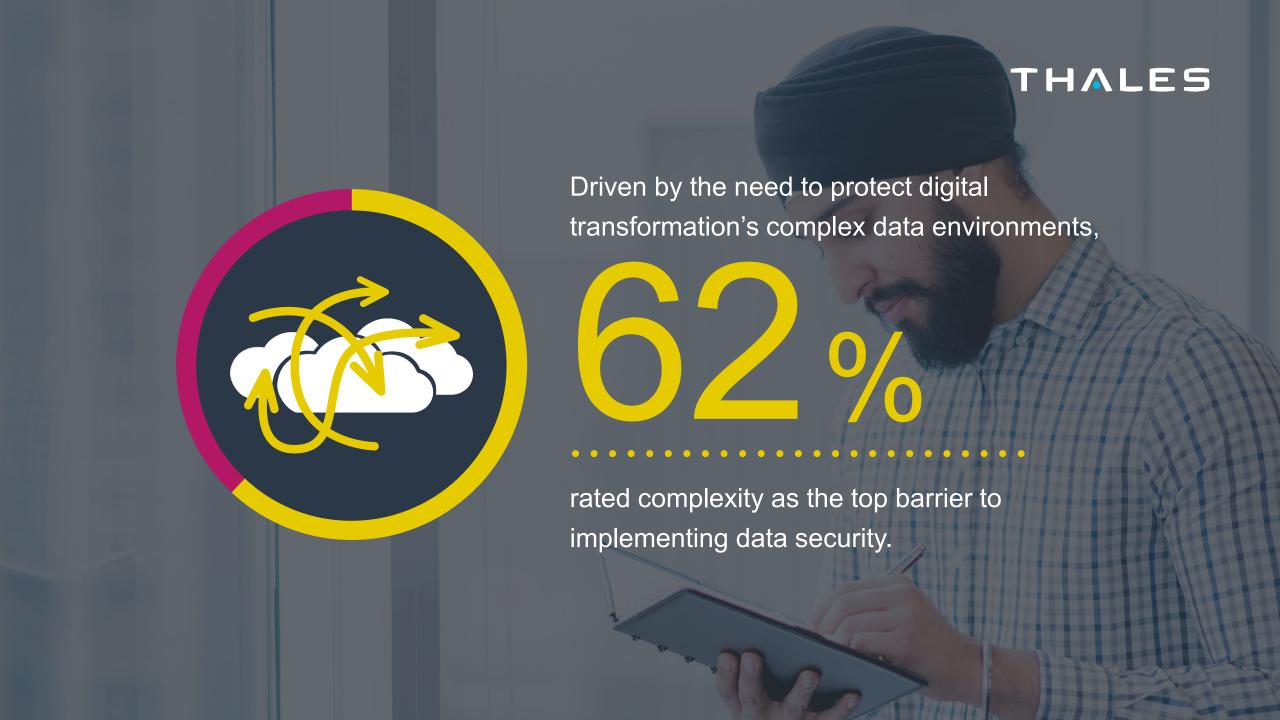


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## SaaS

- More than 50
  - 11 50
  - 10 or less



## Data breach resistance: No one is immune

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49%

of IT security professionals of Indian firms surveyed say that they have been breached at any time in their history, with...

60% (ever) 30% (in the last year)



20%

... breached in the last year.



Global Data Breach Rates

## Encryption rates are low

Despite recognising the importance of protecting sensitive data, encryption rates throughout enterprises are surprisingly low.

Complicating life for retailiers, the finear vectors hay incer are enterinely broad. U.S. retail improvedures a processor requiring data security from this are to concern the processor of the p



Figure 5 Occupy data scor by freety Source 2019 Indicators above the con-

That and, cycleterorum became a real feed when the result of a security brace drive a syniform and would be of security of the security reaches a syniform and would be of the real of the security of the security reaches from one to the optionarm and not opion around to account the design of the selection of the security real positionary will also served to remark the security reaches an execution of the security of the convention of the security of the securit

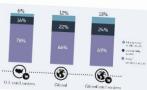
For cybertero's attack how entered the public sprine, but steel respondents to see one flex or left, on some or wised by recombed to a includion and of geographics. While the cyberteroid and the or additionable for an additionable for an additionable for an additionable for an additionable for additionable for a distance, and for more many the probably of observations and the red distance, and for more many the probably of observations and the red of a distance of the additionable for the additionable for a distance of the additionable for the addit



The level of concern from the U.S. retail respondents for "cybercriminals" was surprisingly low, especially given the concern expressed by global retail respondent and responsents overal. IDC feels that the changing nature of retail is reflected in percentage of retail. The website is the foundation of the ecommerce outliness. In an increasingly in ornel contric market, hell becomes a la availability, hence, distribution denial of service (DDoS) attacks became the weapon of choice, for example, in 2015, in smolthsstrig provider CVH was hit with a Dos attack with peaks reaching 1 Traps. OVI was not the target a provider of Minocroft hosting services was fone provider of an orline game is unavailable. crippled by a DDoS attack, players of the game will go elsewhere, toking the esulting revenue with them. Ukewise, the "cycerterror at" can have a devastating business impact if the website of an internet-based retailer is unavailable at critical Fines such as Black Friday or Cyber Monday. Fan acommerce sile is unavailable on Cylair Monday, the widniles of the composition will kely point from substitute. the lower concern expressed by the U.S. retail responsents regarding sybercriminals is likely due to the manner in which respondents in expressed the question and the changing rature of retail.

### Respondents believe they have adequate security, indicating a false sense of complacency

Rate ion generally believe they make adequate security, posteriolarly in the U.S. Ninery line process of U.S. and incompration believe may have adequate security accounts in the control of U.S. and incomprating the control of U.S. Security eight process of them, and into incomprating or companied prevent U.S. and into the Control of U.S. security and interpretation for the Control of U.S. security and interpretation for the Control of U.S. security in the Control of U.S. se



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# Data privacy and sovereignty regulations impact nearly all

Indian firms face a daunting array of privacy and compliance regulations such as UIDAI/AADHAAR, and the upcoming Data Protection Bill. Multinationals must also comply with international privacy laws such as the European GDPR.





## IDC guidance/key takeaways

Data security is not easy. As they work to continue digitary transforming their personal activity and make the provided community of a surface may be an operation, re-bollar must take core to ensure fley are not inhead using new security loopholes. This is particularly true of retailers that rave been targets of a number of the surface of high-profile attacks in recent years. In particular, DC recommends retail security professionals consider the following:

- \* Focus on all threat vectors. Today's threats come from all over, and retailers are a particular larger in laday's environment. As bad across continue to evolve their methods, relations need to continually evolve to guard against them. As guardians of samplifive automore data, ratalions must take this responsibility sampusly
- Invest in modern, hybrid and multi-cloud-based data security solution that scale to modern architectures. You are day's period or accoming color-son are no longer sufficient to protect against the myriad of data threats focing your agartzation. With more devices at the edge, the expanding financiarface is increasingly borderless, so the legacy permeter approach doesn't work. Retail provides must recognize the increased complexity of today's security environment and implement solutions that span legacy concerns as well as modern, cloudbased digital transformation technologies.
- \* Look for solutions that let you do more with less, Even at C-level executives understand the mandate for enterprise security, the free-scending days marked by astronomically increasing budgets and companies "throwing money at the problem are on the decline. CFOs are questioning the ROI of security sponding and security professionals are going to need to identify solutions that let them educes multiple layers of security concerns in a cost of colive manner. "As a sensice" and "dielform" solutions that cross andronnents can hab eliminate much of this complexity and cost, making the jets much more manageable.
- Prioritize compliance issues. Radios musicion with a multipub of regulations. around the world governing the need to protecticustomer data. They must ensure dischaine sonne gestam. If her heavy is entered to guidely compliance mandates, but that they also have sufficient flexibility built into their technologies to bondle new
- \* Don't confuse compliance and security. Proactively addressing compliance is important, but addressing compliance in a "pass the annual audit" fashion is not a recipe for security success. Proactive data security is a 365-days-a-year jap.
- important part of the mix. As data in grates away from the enterprise premites and to the cloud, network security is no longer sufficient to protect data, total are nood now data security melhods to protect precious data everywhere is laday's

2029 Triales Data Threat Report Result Estate

## Principal analyst profiles



Front: Dickson is a Program Vice President within IDC's Security Products research than contain a region was remained within A.S. among manner manners arounce to this sole, the provides frequent excitables and guidares for these on a wide range of security products including and point security, identify and access anagement, authentication, threat analytics, and emerging products designed to act transforming architectures and business models.



#Sinc Purru s Vice Resident for DC Recall Exploit, Testie I land is responsible for the research traction for IDC Retail Insights, and leads research related to the digital transformation Firstall princhannel operations. Hand works with retailers and technology providers developing best practices and strong installighted with where they are, and where hey want to go, leveraging IDC quartitative and qualitative data sets.

### About International Data Corporation (IDC)

IDC is the premier global provider of narker Helligence, advisory services, and events for the aformation TOO, is the pre-timer group growing contractor in engineer, ourself years and who even in an animal mechanicing, selection must called a and consumer recordingly markets. With more than 1,100 one yes reconnectify measurement contents and consumer activities of technology and inclusive positive and worldwide. DC offer global, regional, and local expense on technology and inclusive popular riles and

IDC's and yes and insight helps Tiprofessionals, business executives, and the investment community to note fact-based secretagy decisions and to acrieve their key business objectives, founded in 1964. IDC is a wholly-owned subsidiary of International Data Group (IDG), the world's leading medic, data and marketing services company in a devices and engages the most influential technology buyers.

The people you rely on to preservour privacy rely on Trafes to protect their clota. When it comes to date ted people year any order passes year any organization of people people and a second s security organizations and local with an increasing thereon an observe horizone, internal not not make the following an encryption strongly, making to the clause, or meeting compiliance mandates, you can rely on

Decisive recinology for decisive moments.

2019 Trules Data Threat Report Resul Editor

# Data Security doesn't have to be hard

Organisations need to take a fresh look at how they provide data security. Visit the Thales website to download the full report, including IDC recommendations.

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