

# RETAIL DATA AT RISK

DATA BREACHES REACH NEW HEIGHTS AS DIGITAL TRANSFORMATION INCREASES RISKS AND RETAILERS PUT THEIR IT SECURITY PRIORITIES ELSEWHERE

“WHAT WILL IT TAKE TO STOP THE BREACHES?”

“THE OBVIOUS – OR WHAT SHOULD BE OBVIOUS – QUESTION IS WHETHER THE CYBER DEFENSES THAT ARE BEING DEPLOYED TODAY NEED TO BE RE-EXAMINED FOR OVERALL EFFECTIVENESS AND RECALIBRATED.”

—Garrett Bekker, 451 Research Principal Analyst, Information Security

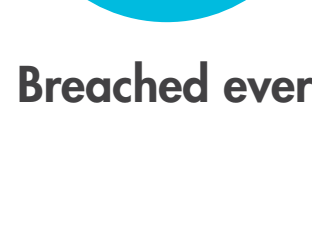
1200+ IT senior security executives surveyed in 8 countries, including 100 each in U.S. healthcare, retail, financial services and federal government

## DATA BREACHES ARE THE NEW REALITY

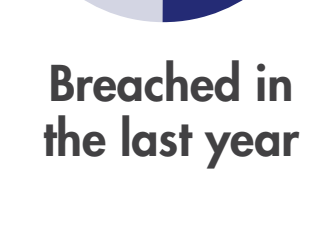
“WITH ULTRA-HIGH VOLUMES OF PERSONALLY IDENTIFIABLE INFORMATION (PII) AND PAYMENT CARD INFORMATION CHANGING HANDS WITH EVERY TRANSACTION, THE RETAIL INDUSTRY IS ONE OF THE MOST, IF NOT THE MOST, VULNERABLE TARGETS TO CYBER-ATTACKS”

—Garrett Bekker, 451 Research Principal Analyst, Information Security

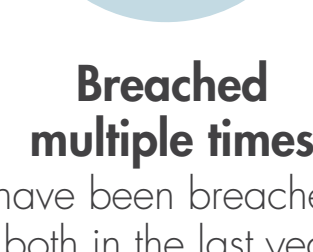
### Breach rates reach new highs



Breached ever

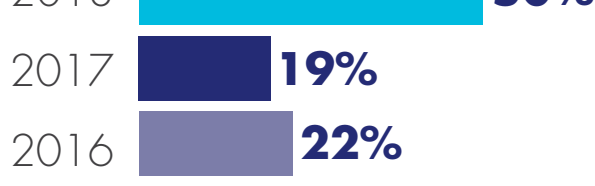


Breached in the last year



Breached multiple times have been breached both in the last year and previously

### Breach rates accelerate



Breach rates in the last year are up **2.5X** from the results in 2017

Lack of perceived need is the top reason for not implementing data security in U.S. Retail



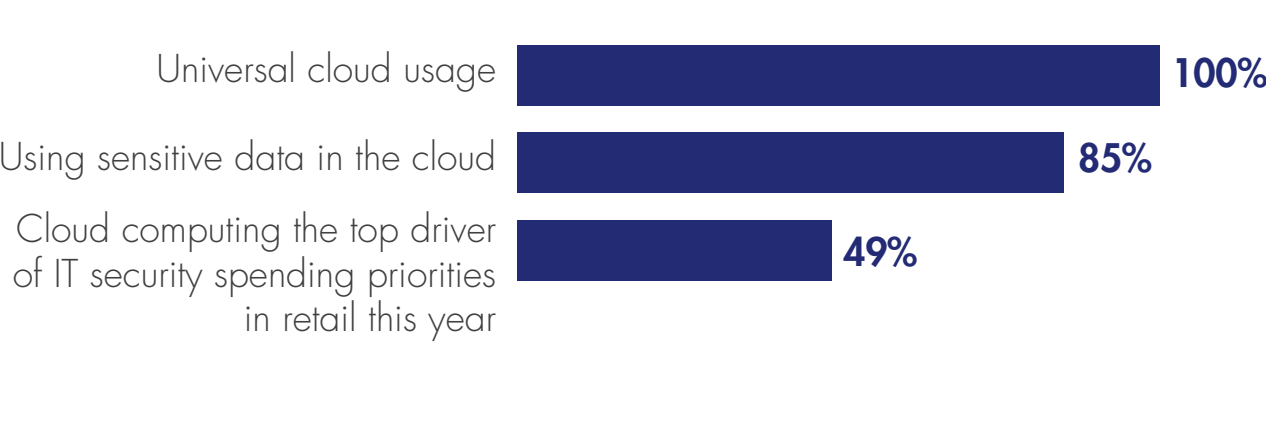
## DIGITAL TRANSFORMATION EXPANDS DATA THREAT LANDSCAPES



99% use digital transformation technologies with sensitive data

(cloud, big data, IoT, containers, blockchain or mobile payments)

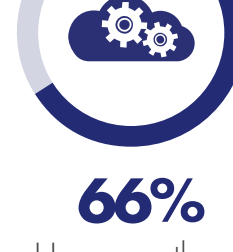
### Cloud usage the top problem



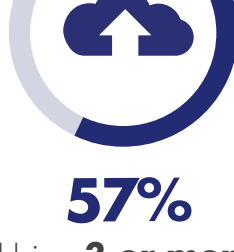
### Multi-cloud usage is high, bringing additional risks



Use 3 or more IaaS vendors



Use more than 25 SaaS applications



Using 3 or more PaaS environments

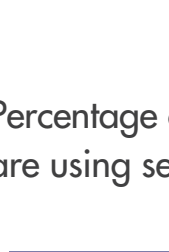
“AS ORGANIZATIONS INCREASINGLY ENGAGE WITH MULTIPLE CLOUD PROVIDERS, WHO MAINTAINS CONTROL OVER ENCRYPTION KEYS HAS BECOME A HUGE POTENTIAL ISSUE, PARTICULARLY FOR THOSE WHO TAKE ADVANTAGE OF NATIVE ENCRYPTION SERVICES.”

—Garrett Bekker, 451 Research Principal Analyst, Information Security

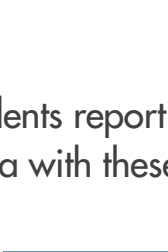
## DIGITAL TRANSFORMATION TECHNOLOGIES ARE INCREASING RISKS

“THE OVERALL ADOPTION OF CLOUD AND SAAS APPLICATIONS, BIG DATA IMPLEMENTATIONS, IOT, CONTAINERS, MOBILE PAYMENTS AND BLOCKCHAIN TECHNOLOGIES ALSO RAISE SECURITY RISKS OWING TO THEIR RELATIVE NEWNESS, THE UNIQUE APPROACHES REQUIRED TO PROTECT DATA WITHIN EACH ENVIRONMENT AND THE SHEER SCALE OF DEPLOYMENTS.”

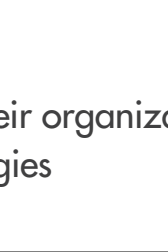
### Sensitive data use in digital transformation technologies is high



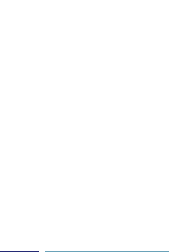
Use Big Data



Use IoT



Use Mobile Payments



Use Blockchain

Percentage of respondents reporting that their organizations are using sensitive data with these technologies



### Machine learning – benefit or threat?

Respondents believe it can be both



48% a threat



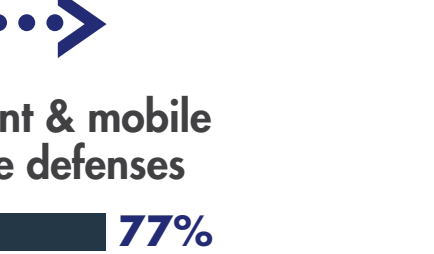
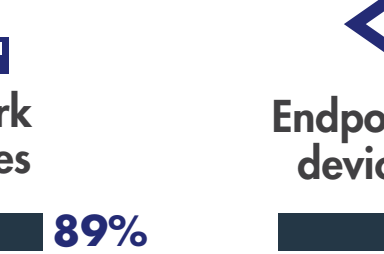
78% a benefit

## NOT PUTTING THEIR MONEY WHERE THEIR DATA IS

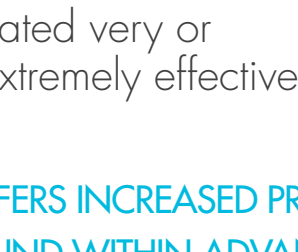
“A COMMON THEME WE HAVE OBSERVED ACROSS VIRTUALLY EVERY VERTICAL AND GEOGRAPHIC MARKET IN THE THALES 2018 GLOBAL DATA THREAT REPORT ALSO HELD TRUE FOR U.S. RETAIL: NAMELY SPENDING THE MOST ON DEFENSES DEEMED LEAST EFFECTIVE.”

—Garrett Bekker, 451 Research Principal Analyst, Information Security

### Respondents report their organizations increasing spending the least on the most effective tools for protecting data



Highly effective, but smallest spending increase



■ Rated very or extremely effective ■ Spending Increase

“DATA SECURITY OFFERS INCREASED PROTECTION TO KNOWN AND UNKNOWN SENSITIVE DATA FOUND WITHIN ADVANCED TECHNOLOGY ENVIRONMENTS LIKE CLOUD, CONTAINERS, BIG DATA AND IOT.”

—Garrett Bekker, 451 Research Principal Analyst, Information Security

## ENCRYPTION IS THE CRITICAL SOLUTION

### Encryption drives digital transformation and traditional data security



IoT: Encryption ties with anti-malware as the top tool need for more IoT adoption



Cloud: Data encryption is a top tool needed to enable more cloud use



Big Data: Encryption the top tool needed to enable more big data usage

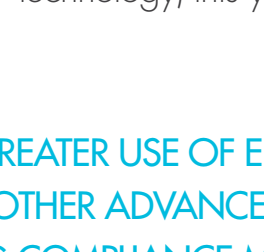


Containers: Availability of encryption increases adoption

### Encryption technologies help to solve new privacy requirements and traditional problems with protecting sensitive data



Encryption is the top tool planned for use to meet global privacy regulations such as GDPR



Deploying data masking (an encryption technology) this year



deploying database and file encryption year

“FIRMS SHOULD CONSIDER GREATER USE OF ENCRYPTION AND BYOK, ESPECIALLY FOR CLOUD AND OTHER ADVANCED TECHNOLOGY ENVIRONMENTS TO BOTH ADDRESS GROWING COMPLIANCE MANDATES AND ALSO TO MOVE CLOSER TO INDUSTRY BEST PRACTICES.”

—Garrett Bekker, 451 Research Principal Analyst, Information Security

## ABOUT THALES eSECURITY

Thales eSecurity is the leader in advanced data security solutions and services that deliver trust wherever information is created, shared or stored. With encryption, access control, data audit logging, PKI and payments technologies, we ensure that the data belonging to companies and government entities is both secure and trusted in any environment – on-premises, in the cloud, in data centers or big data environments – without sacrificing business agility.

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