

# 2017 THALES DATA THREAT REPORT TRENDS IN ENCRYPTION AND DATA PROTECTION





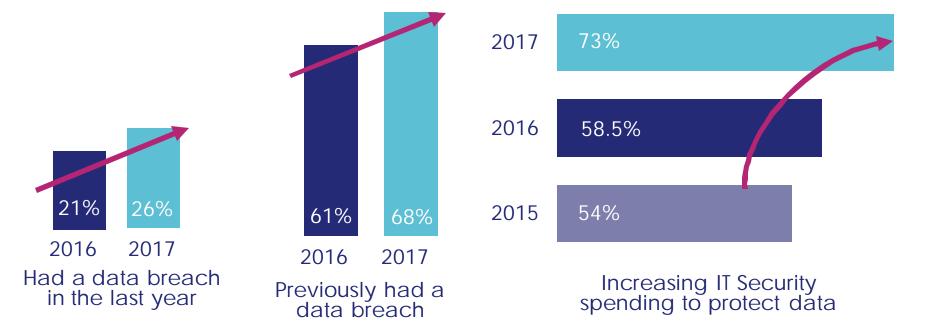
### THE BIG DISCONNECT

"OUR 2017 REPORT FINDS A GLOBAL SITUATION WHERE SPENDING ON SECURITY IS UP - SHARPLY IN SOME SECTORS – YET SUCCESSFUL DATA BREACHES ARE ALSO UP SIGNIFICANTLY."

"CLEARLY, THERE'S STILL A BIG DISCONNECT BETWEEN WHAT WE ARE SPENDING THE MOST OF OUR SECURITY BUDGET ON AND WHAT'S NEEDED TO ENSURE THAT OUR SENSITIVE DATA REMAINS SECURE."

## BREACH RATES ARE ACCELERATING DESPITE INCREASED IT SECURITY SPENDING TO PROTECT DATA

# NO WONDER ENTERPRISES FEEL VULNERABLE TO DATA THREATS

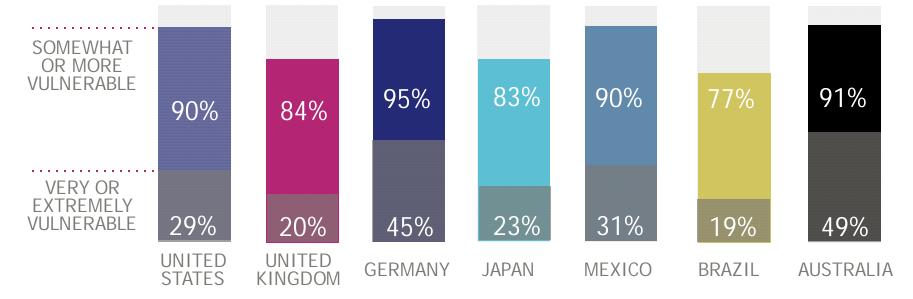


## GLOBAL VULNERABILITY TO DATA THREATS





### **REGIONAL**



## COMPLIANCE THE TOP DRIVER FOR IT SECURITY SPENDING AND RATED AS HIGHLY EFFECTIVE AT PROTECTING DATA

IN SPITE OF PRIORITIZING COMPLIANCE FIRST FOR THE LAST TWO YEARS, AND INVESTING TO MEET COMPLIANCE REQUIREMENTS, THE RATE OF BREACHES KEEPS RISING

59%

BELIEVE
COMPLIANCE IS
VERY OR
EXTREMELY
EFFECTIVE AT
PREVENTING
DATA BREACHES

IT SECURITY SPENDING PRIORITIES

44% COMPLIANCE

38% BEST PRACTICES

36% PROTECT REP & BRAND

35% PREVENT DATA BREACHES

35% INCREASED CLOUD USE

"Compliance is a minimum table stake for regulated enterprises ... But being compliant does not mean you won't be breached"

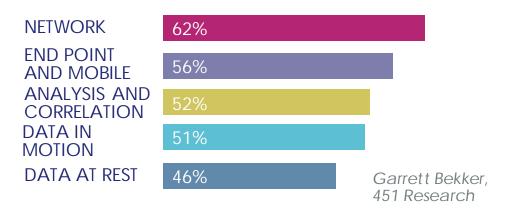
Garrett Bekker Sr. Analyst Information Security, 451 Research

## INCREASING SPENDING THE MOST WHERE DEFENSES OFTEN FAIL TO PROTECT DATA





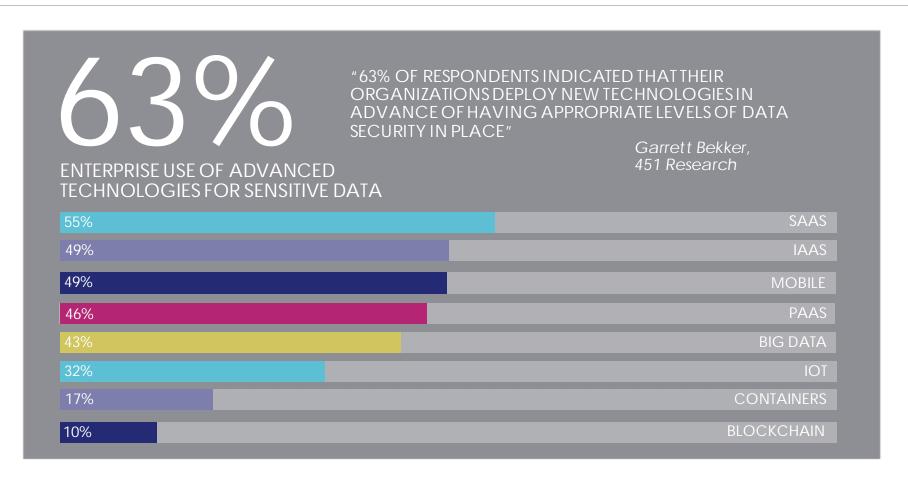
### IT SECURITY DEFENSE SPENDING INCREASES



- ... spending on securing internal networks from external threats is less and less effective and relevant as both the data and the people accessing it are increasingly external."
- "...organizations keep spending on the same solutions that worked for them in the past but aren't necessarily the most effective at stopping modern breaches"

## USING SENSITIVE DATA WITH ADVANCED TECHNOLOGIES

### WITHOUT DATA SECURITY TO PROTECT INFORMATION



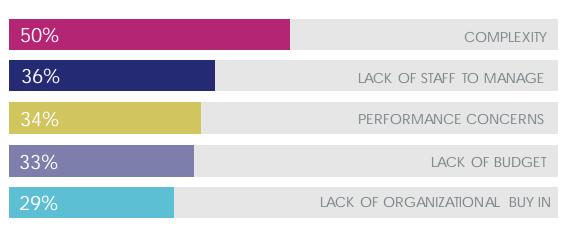
## COMPLEXITY AND SKILL SHORTAGES TOP BARRIERS TO DATA SECURITY DEPLOYMENT

PERCEPTION OF COMPLEXITY UNIVERSALLY THE TOP BARRIER

"...The lack of skilled security staff has been a consistent theme in 451's research efforts the past few years, and in conjunction with complexity, makes a strong case for data security functionality delivered as a service"

Garrett Bekker 451 Research





PERCEIVED BARRIERS TO ADOPTING DATA SECURITY

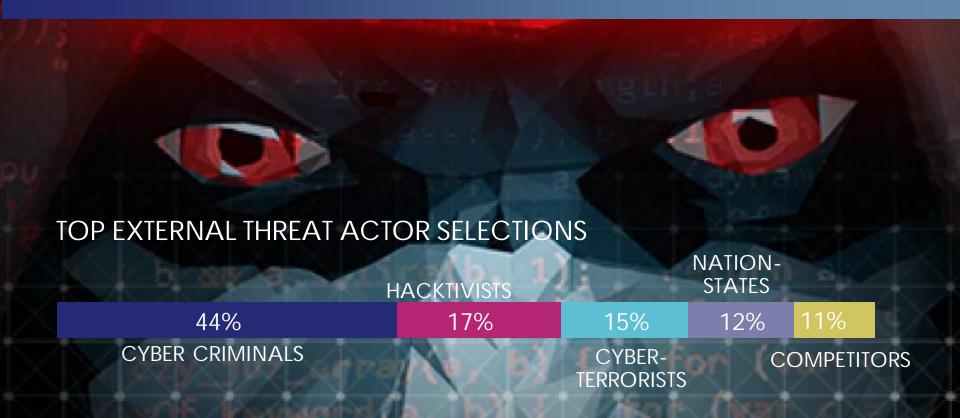
".. external attackers frequently masquerade as insiders by using stolen or compromised credentials to access all types of valuable data, including PII, PHI, financial data and intellectual property"



### THE MOST DANGEROUS INSIDERS

58%	PRIVILEGED USERS
44%	EXECUTIVE MANAGEMENT
36%	ORDINARY EMPLOYEES
33%	CONTRACTORS

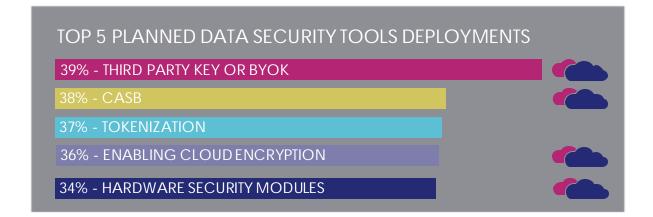
# IN SPITE OF ALL THE FUROR AROUND NATION STATE HACKING, CYBER CRIMINALS TOP THE LIST OF CONCERNS BY A WIDE MARGIN



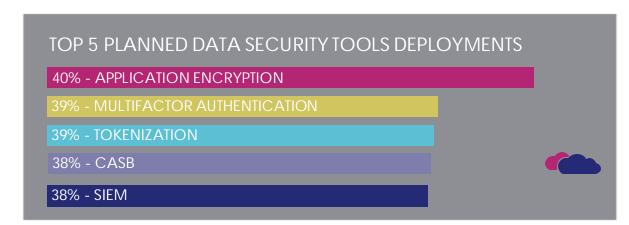
### CLOUD DRIVING DATA SECURITY CONTROL DEPLOYMENT

4 OF 5 PLANNED DATA SECURITY CONTROLS ARE DRIVEN BY CLOUD AND SAAS

2017



2016



## CONTAINERS SURPRISE ONLY 3 YEARS AFTER TECHNOLOGY INTRODUCTION (DOCKER)

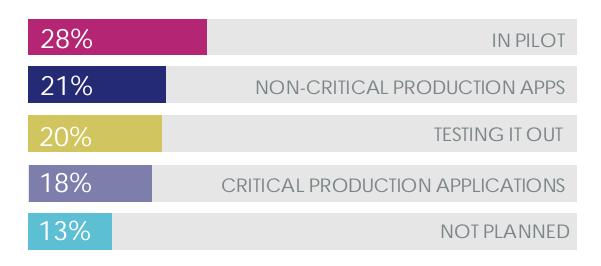
 $_{"...}40\%$  of

respondents are already using containers in production environments

... only 13%

have no plans for containers this year"

Garrett Bekker 451 Research



CONTAINER BASED APPLICATION DEPLOYMENTS

54% SELECTED ENCRYPTION

AS THE #1 SECURITY
CONTROL REQUIRED TO
EXPAND CONTAINER USAGE

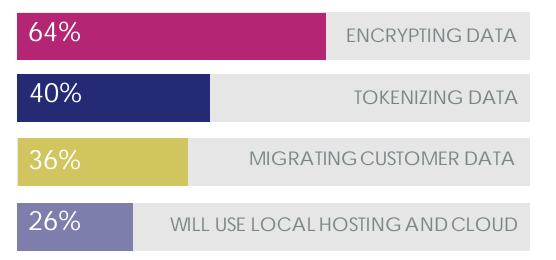
## NEW REGULATIONS ARE DRIVING ENTERPRISE BEHAVIOR DATA PRIVACY AND SOVEREIGNTY IMPACTING ENTERPRISES WORLDWIDE

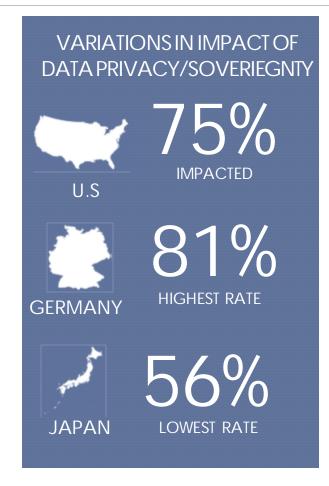


72%

Globally are Impacted by Data Privacy and Data Sovereignty

### ADDRESSING REQUIREMENTS BY:





### BEST PRACTICE RECOMMENDATIONS

GARRETT BEKKER, 451 RESEARCH

CARREIT BERREIK, 431 RESEARCH	
Re-prioritize your IT security tool set	Cloud and SaaS break legacy IT Security models – Data security with encryption and access controls across environments is required. Service-based solutions and platforms that include automation are preferred for reduced costs and simplicity.
Discover and classify	Get a better handle on the location of sensitive data, particularly for Cloud, Big Data, Containers and IoT
Don't just check off the compliance box	Global and industry regulations can be demanding, but firms should consider moving beyond compliance to greater use of encryption and BYOK, especially for cloud and other advanced technology environments.
Encryption and access control	Encryption needs to move beyond laptops and desktops.  Data center: File and application level encryption and access controls Cloud: Encrypt and manage keys locally, BYOK enables safe SaaS, PaaS and IaaS  Big Data: Encryption and access control within the environment Containers: Encrypt and control access to data both within containers and underlying data storage locations

IoT: Use secure device ID and authentication, as well as encryption of data

at rest on devices, back end systems and in transit to limit data threats

## **OUR SPONSORS**



























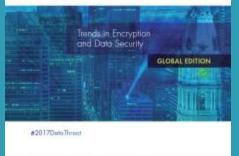












### **ABOUT THALES E-SECURITY**

Instilling trust across the data landscape Our powerful technology platform provides advanced data security for more servers, applications, and environments than any other security alternative

#### What we do

Thales e-Security provides companies everything they need to protect and manage their data and scale easily to new environments and requirements—encryption, advanced key management, tokenization, authorization, privileged user control, and HSMs.

#### Our customers

Our customers include 19 of the world's 20 largest banks, four of the world's five largest oil companies, 27 NATO country members and 15 of the Fortune 25.



# Our solutions protect data while eliminating complexity, inefficiency and cost





