

2017 THALES DATA THREAT REPORT

Trends in Encryption and Data Security

MEXICO AND BRAZIL EDITION

FOCUS ON BRAZIL

2017 THALES DATA THREAT REPORT

TRENDS IN ENCRYPTION AND DATA PROTECTION



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1,100+ SENIOR IT SECURITY EXECUTIVES SURVEYED GLOBALLY | 100 BRAZIL | 500 U.S. | 100 MEXICO, GERMANY, JAPAN, AUSTRALIA, U.K.



THE BIG DISCONNECT

“OUR 2017 REPORT FINDS A SITUATION WHERE SPENDING ON IT SECURITY IS SHARPLY INCREASED IN BRAZIL, IN FACT – YET DATA BREACHES ARE ALSO UP SIGNIFICANTLY.”

“FUNDAMENTAL IT SECURITY STRATEGIES ARE ALSO NOT KEEPING UP WITH THE PACE OF TECHNICAL CHANGE. 80% OF BRAZILIAN RESPONDENTS INDICATED THAT NEW TECHNOLOGIES ARE DEPLOYED BEFORE DATA SECURITY IS IN PLACE”

“ CLEARLY, THERE’S STILL A BIG DISCONNECT. ”

77%

OF BRAZILIAN RESPONDENTS FELT THEIR ORGANIZATIONS WERE VULNERABLE TO DATA THREATS

19%

WERE VERY OR EXTREMELY VULNERABLE
– UP FROM 15% IN 2016

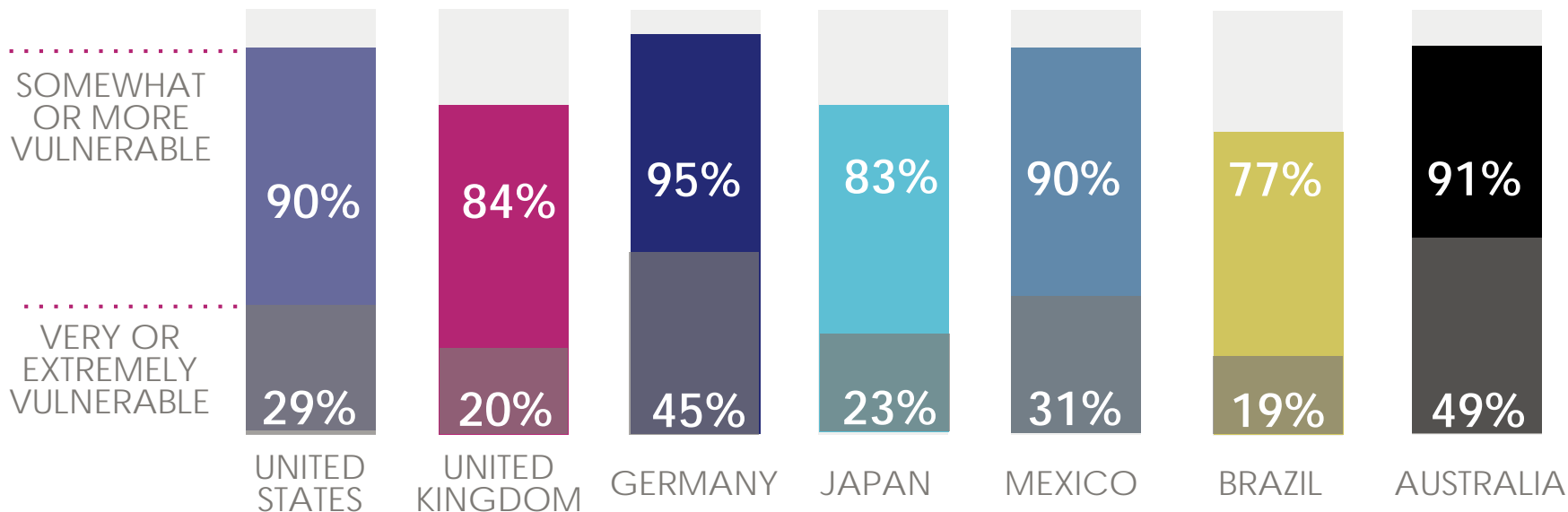
VULNERABILITY

TO DATA THREATS IN BRAZIL – THE LOWEST RATE MEASURED

GLOBAL



REGIONAL



YET ...

75%

HAVE EXPERIENCED
A DATA BREACH

- **SECOND HIGHEST RATE MEASURED, JUST BEHIND MEXICO AT 78% - GLOBAL AVERAGE 56%**
- **28% IN THE LAST YEAR**
- **9% MORE THAN ONCE**



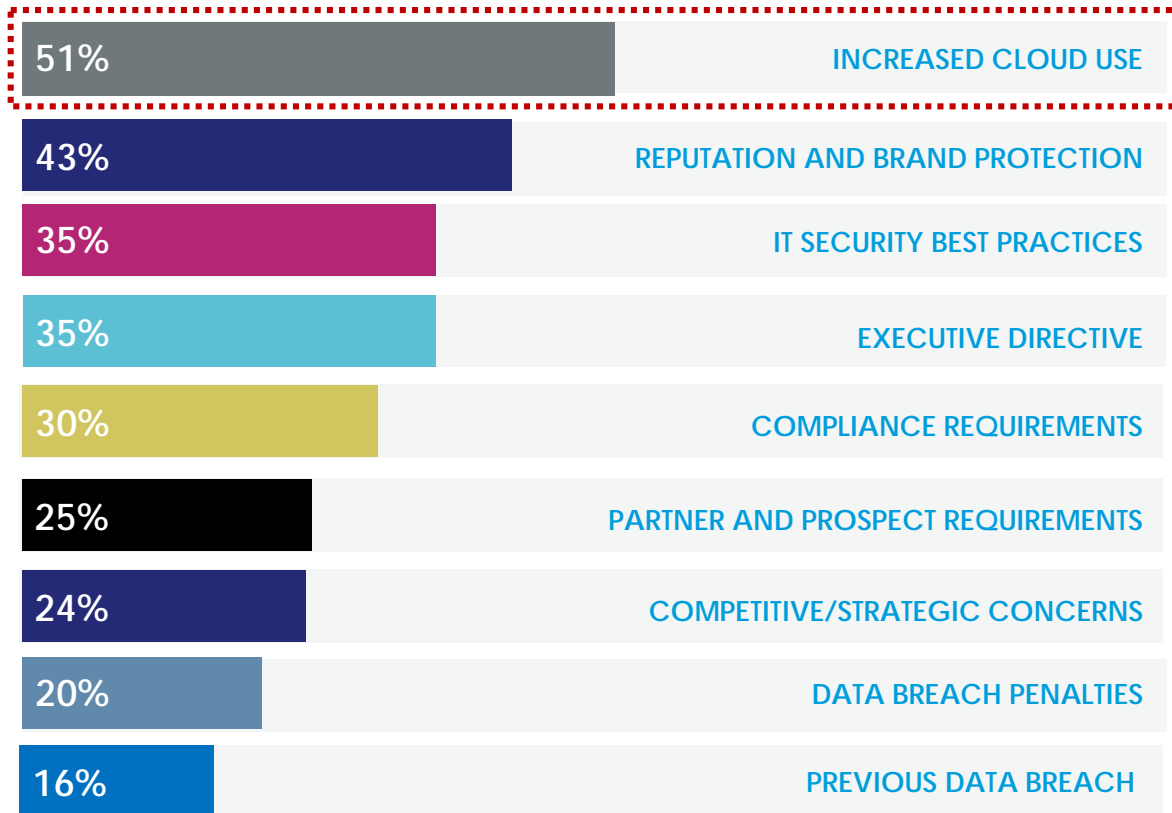
85%

EXPECT THEIR
SPENDING ON DATA
SECURITY TO
INCREASE

- **UP FROM 73% IN 2016**
- **HIGHEST LEVEL MEASURED**

TOP DRIVERS FOR IT SECURITY SPENDING

IT SECURITY SPENDING PRIORITIES (RATES OF TOP 3 SELECTION)



TOP DRIVER:

51%

INCREASED CLOUD USE

Uniquely, Brazil was the only country that had “Increased Cloud Use” as the top reason for increasing IT Security spending. Globally “Increased Cloud Use” was 5th at 35% along with “Data Breach Penalties”

80%

OF BRAZILIAN IT SECURITY PROS SURVEYED ARE CONCERNED THAT THEY ARE **DEPLOYING NEW TECHNOLOGIES IN ADVANCE OF HAVING APPROPRIATE LEVELS OF DATA SECURITY IN PLACE**

ALL

WILL USE SENSITIVE DATA IN AT LEAST ONE OF THESE ADVANCED TECHNOLOGY ENVIRONMENTS

RATES OF SENSITIVE DATA USE BY ENVIRONMENT TYPE



INCREASING SPENDING THE MOST WHERE DEFENSES OFTEN FAIL TO PROTECT DATA

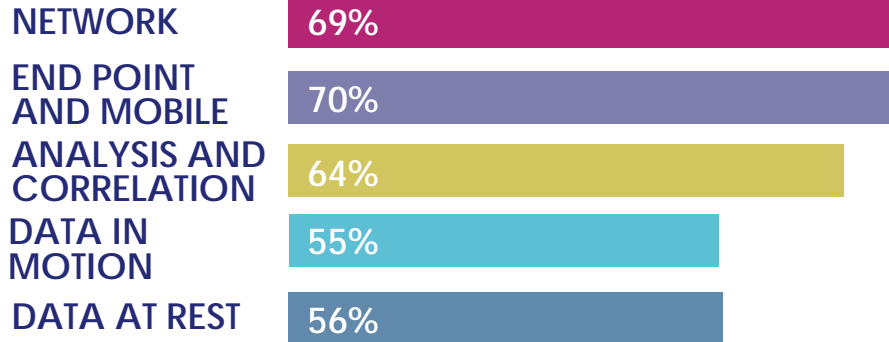
88%
+5% FROM 2016

BELIEVE NETWORK
SECURITY VERY/
EXTREMELY EFFECTIVE
AT PROTECTING DATA

89%
+13% FROM 2016

BELIEVE ENDPOINT
PROTECTION
VERY/EXTREMELY
EFFECTIVE AT
PROTECTING DATA

IT SECURITY DEFENSE SPENDING INCREASES



*Garrett Bekker,
451 Research*

“ ... 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”

DATA PRIVACY AND SOVEREIGNTY

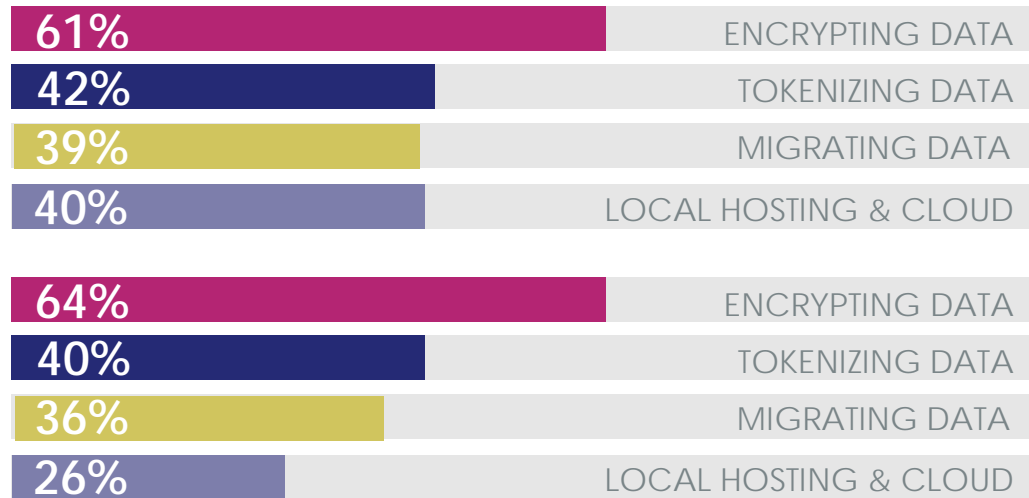
IMPACTING ENTERPRISES WORLDWIDE



72% - BRAZIL
72% - GLOBAL

Impacted by Data Privacy and
Data Sovereignty

ADDRESSING REQUIREMENTS BY:



BRAZIL

GLOBAL

Data privacy has become a hot topic in light of concerns about government snooping, and not surprisingly a host of new privacy laws and regulations are in the process of being revised or enacted around the world, such as GDPR in Europe, LFPDPPP in Mexico and proposed data protection laws in Brazil.

COMPLEXITY AND SKILL SHORTAGES

TOP BARRIERS TO DATA SECURITY DEPLOYMENT

PERCEPTION OF
COMPLEXITY
UNIVERSALLY THE TOP
BARRIER

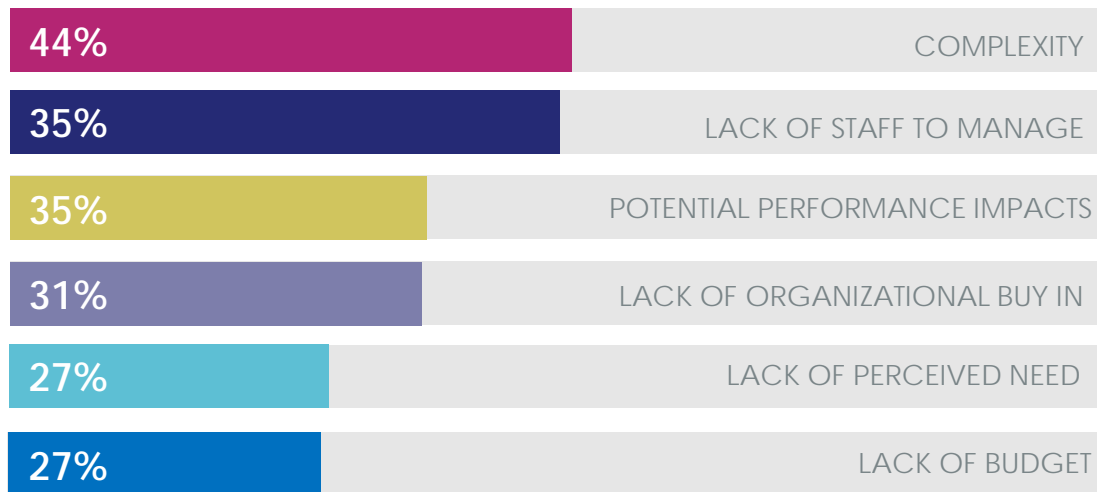
44%

GLOBAL – 50%

PERCEIVE
COMPLEXITY AS THE
TOP BARRIER TO
ADOPTION DATA
SECURITY

"...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"

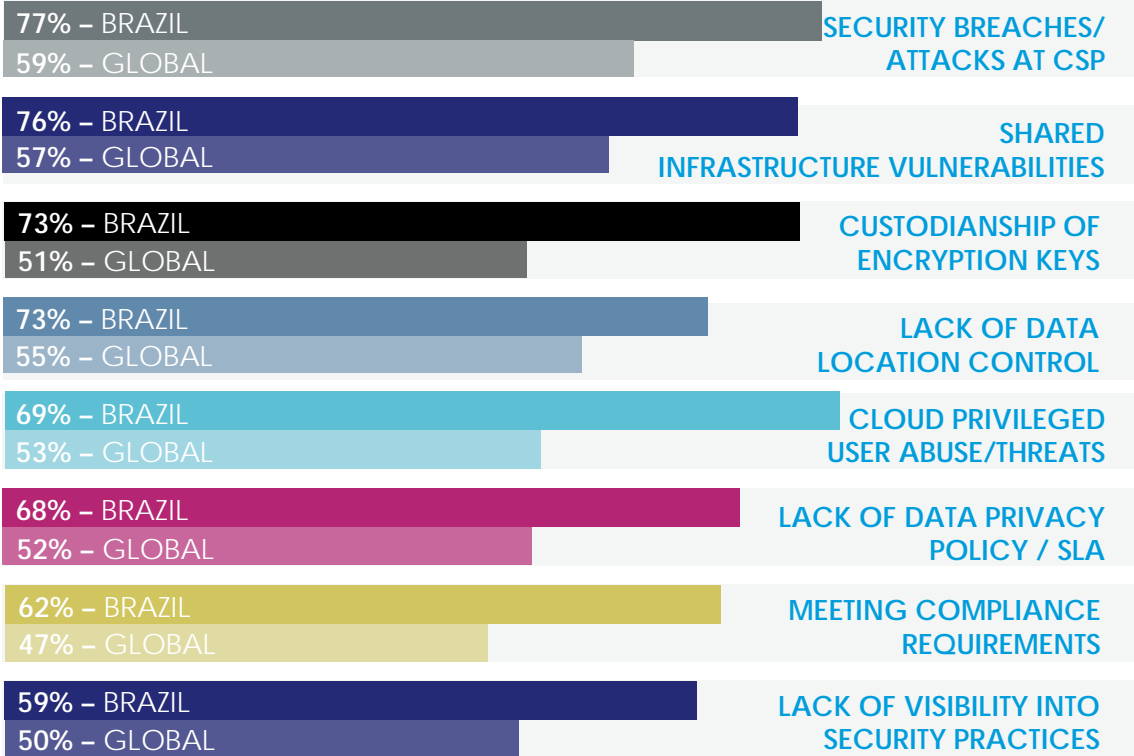
*Garrett Bekker
451 Research*



PERCEIVED BARRIERS TO ADOPTING DATA SECURITY

ENTERPRISE CONCERNS WITH CLOUD/SAAS ENVIRONMENTS

THREATS - RATES OF VERY OR EXTREMELY CONCERNED



CONCERNS WITH SENSITIVE DATA IN CLOUD ENVIRONMENTS

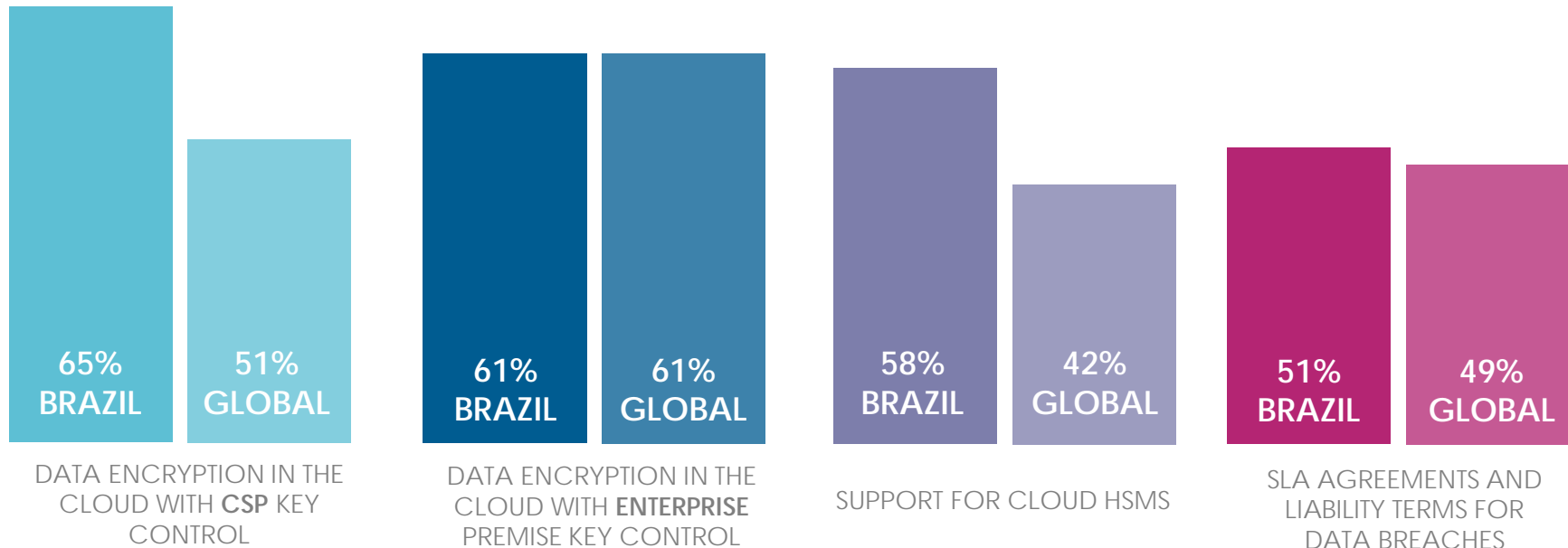
ARE HIGH, WITH NEARLY HALF OF RESPONDENTS LISTING THEM AS ENVIRONMENTS WHERE THEY ARE CONCERNED ABOUT USING SENSITIVE DATA

48% IAAS

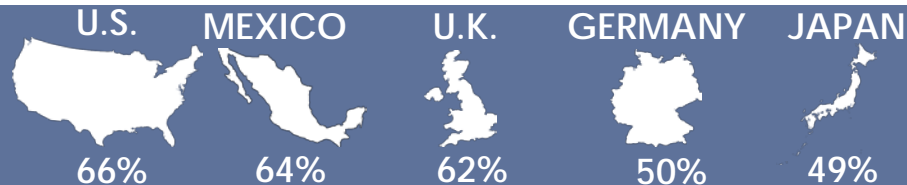
47% PAAS

44% SAAS

WHAT CAN CSPs AND SAAS PROVIDERS DO TO INCREASE ENTERPRISE CLOUD ADOPTION IN BRAZIL?



CONSISTENTLY THE FIRST OR SECOND CHOICE THAT WOULD INCREASE ENTERPRISE USE OF CLOUD WORLDWIDE IS ENCRYPTION WITH ENTERPRISE PREMISE KEY CONTROL



BIG DATA – TOP DATA SECURITY CONCERNS AND STATS

TOP 5 CONCERNS

58% BRAZIL

44% GLOBAL

SECURITY OF REPORTS
THAT MAY INCLUDE
SENSITIVE DATA

40% BRAZIL

36% GLOBAL

PRIVILEGED USER
ACCESS TO
PROTECTED DATA

39% BRAZIL

45% GLOBAL

SENSITIVE DATA MAY
RESIDE ANYWHERE

39% BRAZIL

35% GLOBAL

PRIVACY VIOLATIONS -
DATA ORIGINATES IN MANY
COUNTRIES

30% BRAZIL

22% GLOBAL

DISCOVERING WHERE
SENSITIVE DATA IS LOCATED

49% BRAZIL

36% GLOBAL

USING ENCRYPTION
TO PROTECT DATA
IN BIG DATA
ENVIRONMENTS TODAY

51% BRAZIL

47% GLOBAL

USING SENSITIVE
INFORMATION IN BIG
DATA ENVIRONMENTS

33% BRAZIL

44% GLOBAL

VERY CONCERNED
ABOUT SENSITIVE
INFORMATION IN BIG
DATA WITHOUT DATA
SECURITY CONTROLS

ENTERPRISES IN BRAZIL HAVE HIGH IOT ADOPTION

USE OF SENSITIVE DATA A CONCERN

95%

ADOPTING IOT
TECHNOLOGIES

47%

USING SENSITIVE
DATA IN IOT

38%

VERY CONCERNED ABOUT
SENSITIVE DATA IN IOT

TOP 5 DATA SECURITY CONCERNS FOR IOT

44% - PROTECTING SENSITIVE
DATA GENERATED BY IOT

44% - IDENTIFYING WHICH
DATA IS SENSITIVE

35% - IOT ATTACK
OPERATIONS IMPACT

32% - PRIVACY VIOLATIONS
FROM IOT DATA

29% - LOSS OF THEFT OF
IOT DEVICES

TOP 5 CONTROLS NEEDED TO INCREASE IOT ADOPTION

64% - ENCRYPTION OF DATA

61% SECURE ID AND
AUTHENTICATION

58% - ANTI-MALWARE
FOR DEVICES

53% - IOT NETWORK
ISOLATION

46% - ROLE BASED
ACCESS CONTROLS

TOP SECURITY CONTROLS NEEDED TO INCREASE CONTAINER ADOPTION AND USE IN BRAZIL

97%

PLAN TO DEPLOY
CONTAINER
TECHNOLOGY BY
END OF 2017

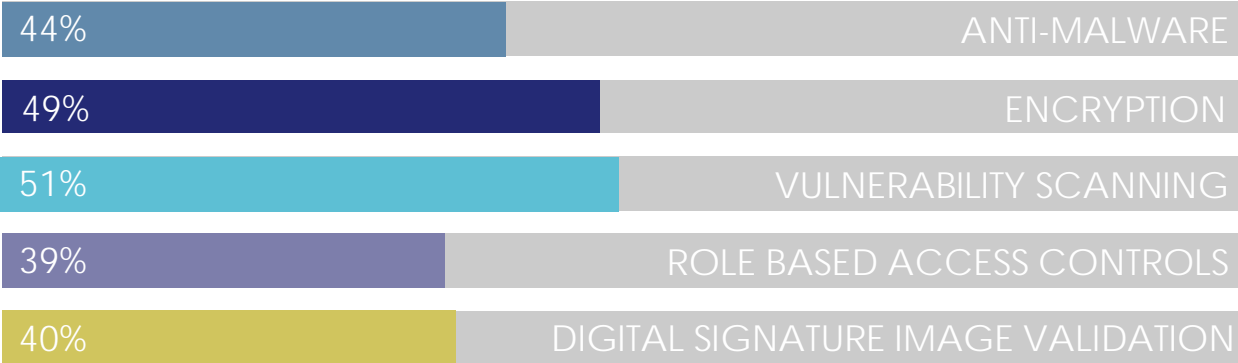
52%

ALREADY IN
PRODUCTION

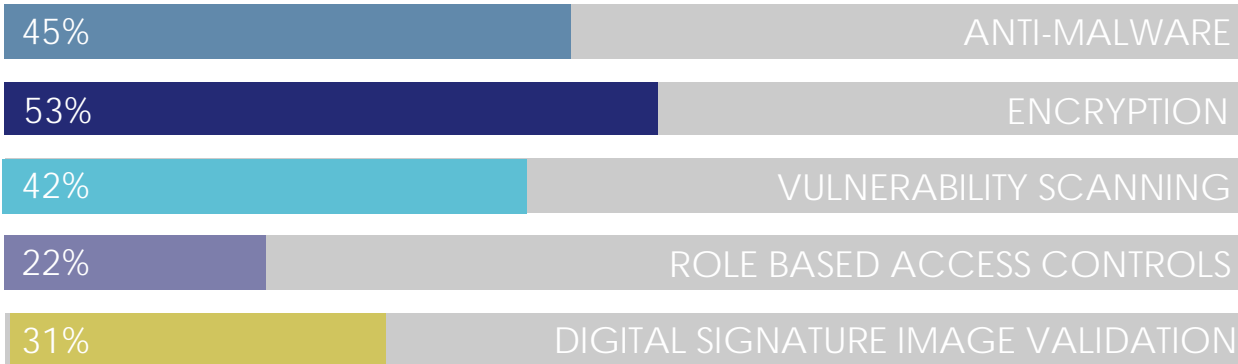
48%

SECURITY THE TOP BARRIER
TO FURTHER CONTAINER
DEPLOYMENT

BRAZIL

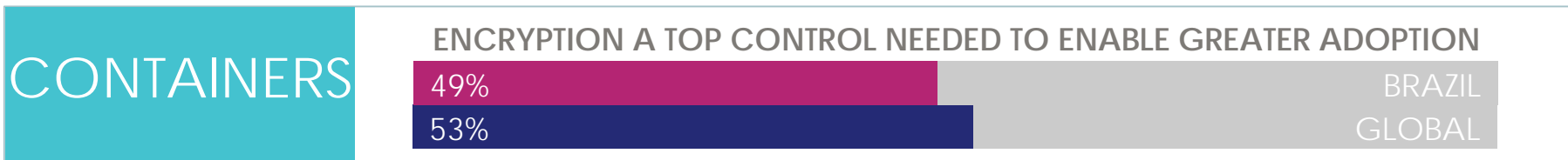
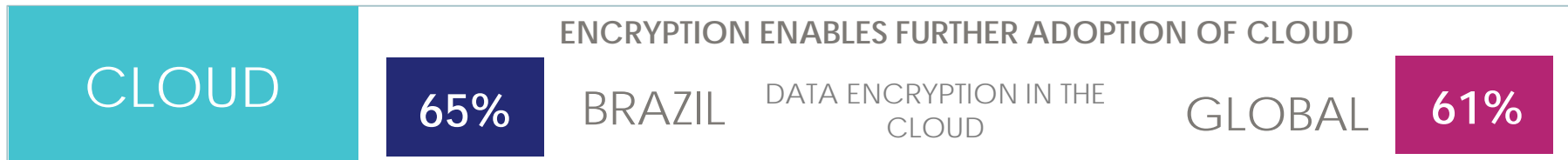


GLOBAL



ENCRYPTION ENABLES DIGITAL TRANSFORMATION

A KEY TOOL REQUIRED FOR ADVANCED TECHNOLOGY ADOPTION



BEST PRACTICE RECOMMENDATIONS

GARRETT BEKKER, 451 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 agencies 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

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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

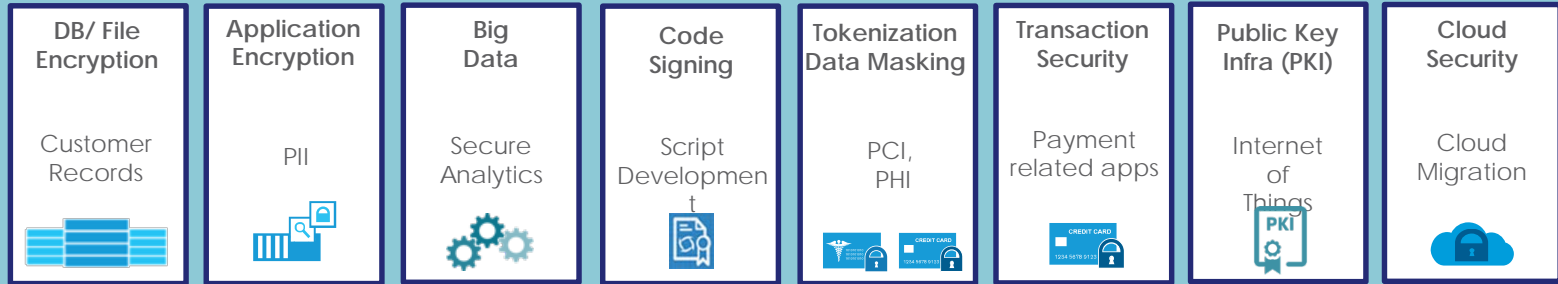
Thales e-Security provides companies everything they need to protect and manage their data and scale easily to new environments and requirements—encryption, advanced key management, tokenization, authorization, privileged user control, and HSMs.

■ Our customers

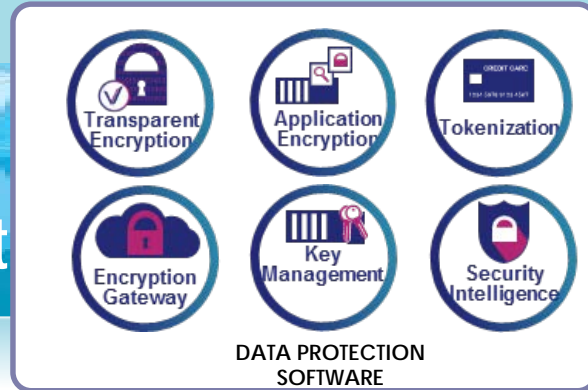
Our customers include 19 of the world's 20 largest banks, four of the world's five largest oil companies, 27 NATO country members and 15 of the Fortune 25.



Our solutions protect data while eliminating complexity, inefficiency and cost



Use Cases



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