

Key findings from the 2014 Cost of Data Breach Study: Global Analysis May 2014

Melbourne X Force Roadshow 29 July Glen Gooding

Benchmark research sponsored by IBM Independently conducted by Ponemon Institute





IBM's investment in Security Research – Technical, IBM Enterprise, External





Influencers

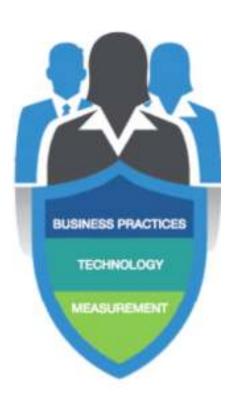
Confident and prepared, influence the business strategically

Protectors

Less confident, prioritize security strategically but lack necessary structural elements

Responders

Least confident, focus largely on protection and compliance











We are in an era of continuous breaches

Attackers are relentless, victims are targeted, and the damage toll is rising

2011 2012 2013 **Near Daily Leaks Operational** Relentless Use Sophistication of Sensitive Data of Multiple Methods IBM X-Force® declared 40% increase 500,000,000+ records Year of the in reported data were leaked, while the future breaches and incidents **Security Breach** shows no sign of change Attack types Spear phishing DDoS





The 2014 Cost of Data Breach Study: Global Analysis—definitions and key facts

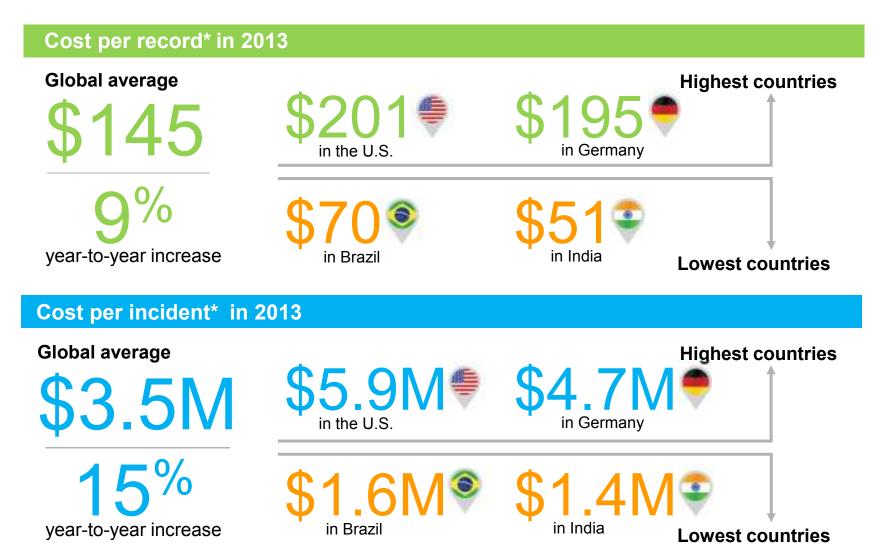
- Data breach: An event in which an individual's name plus a medical record or financial record or debit card is potentially at risk
- Data record: Information that identifies the natural person (individual) whose information has been lost or stolen in a data breach
- Incident: For this study, an incident is a data breach involving between 2,415 to slightly more than 102,000 compromized records
- Benchmark research: For this benchmark study, the unit of analysis is the organization; in survey research, the unit of analysis is the individual



A mega-breach of more than 100,000 records is not considered typical. The cost data in this study cannot be used to calculate the financial impact of a mega-breach.



Global and country-level averages show that the cost of a data breach is on the rise.





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Cost per record* in 2013

Global average

year-to-year increase

\$135 In Australia

Cost per incident* in 2013

Global average

year-to-year increase









Lowest countries

Highest countries



Global and country-level averages show that the cost of a data breach is on the rise.

Cost per record* in 2013

Global average

\$145

9%

year-to-year increase



Cost per incident* in 2013

Global average

\$3.5M

15% year-to-year increase





Highly regulated industries have the highest per-record data breach costs.











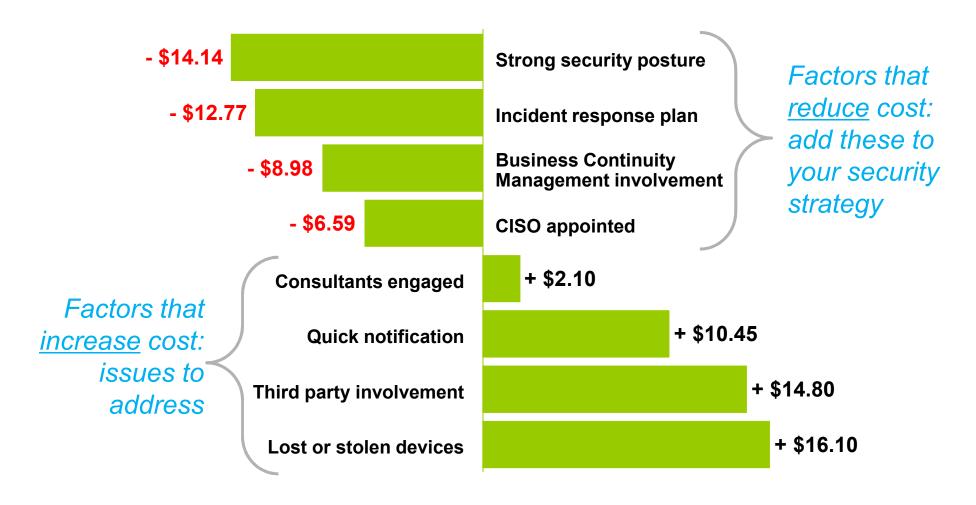








You can raise or lower your per-record cost of a data breach by addressing these eight influencing factors.





Finding a Strategic Voice (2012) – IBM's findings in alignment with Ponemon Institute









More than one-half say mobile Security is their greatest near-term technology concern.

And their roles are evolving with growing authority, accountability and impact across the enterprise.

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How they differ



have a security/risk committee

have information security as a board topic

use a standard set of security metrics to track their progress

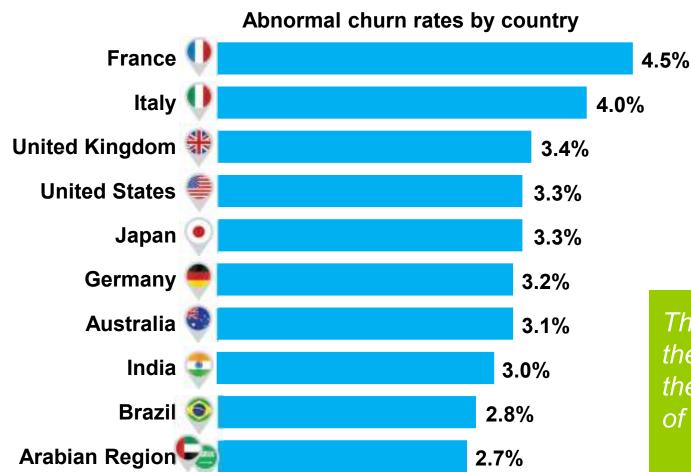
focused on improving enterprise communication/ collaboration

focused on providing education and awareness





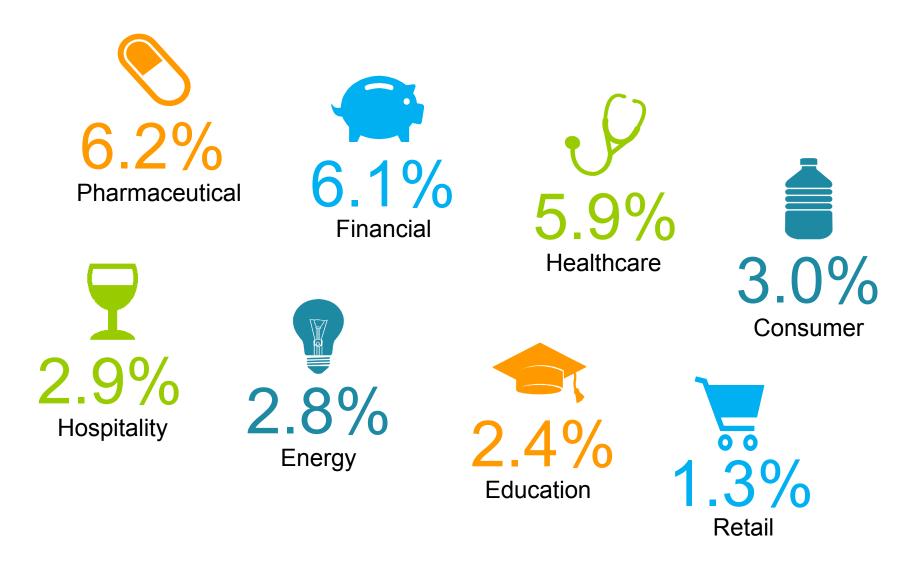
Customer churn following a data breach—and the related impact on the organization's reputation—is a key contributor to increased cost.



The more churn there is, the higher the per-record cost of a data breach



Abnormal churn rate also varies widely by industry.





Other components of the cost of a data breach include detection, notification, post-event costs and lost business.

Cost category	Highest country (average cost per incident)	Typical components
Detection and escalation	\$1.3M Germany	Forensics, assessment, audit services, crisis team management, internal communications
Notification	\$509K United States	Contact databases, regulatory requirement research, outside experts, postal expenditures, inbound communications setup
Post-data breach costs	\$1.6M United States	Help desk, inbound communications, investigations, remediation, legal costs, product discounts and other special offers
Lost business	\$3.3M United States	Abnormal turnover, increased customer acquisition costs, reputation losses, diminished goodwill

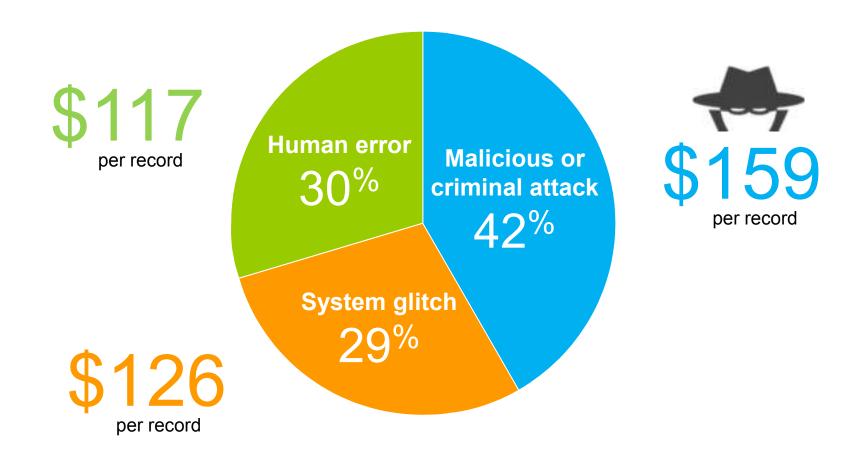


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Post-data breach costs	\$1.6M United States	\$.76M 7 th Highest	Help desk, inbound communications, investigations, remediation, legal costs, product discounts and other special offers
Lost	\$3.3M United States	\$.78M 7 th HIghest	Abnormal turnover, increased customer acquisition costs, reputation losses, diminished goodwill

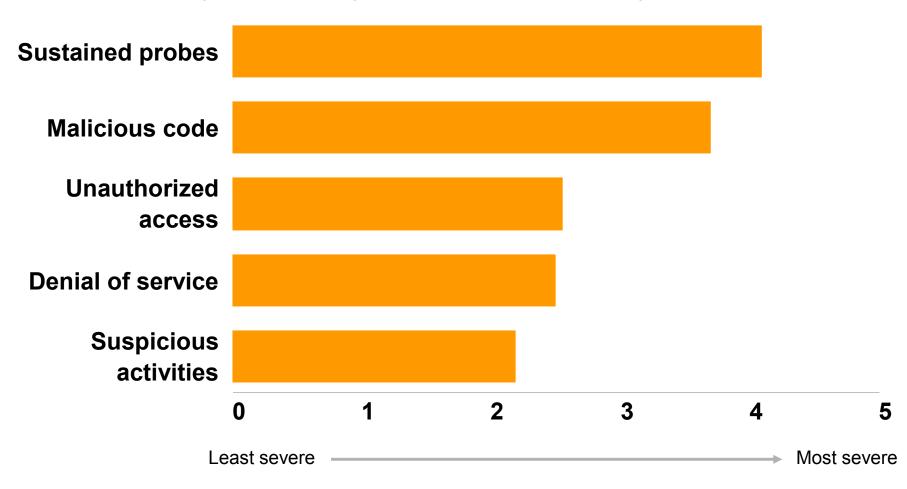


Malicious or criminal attacks are the leading root cause of a data breach...and result in the highest cost per record.



Five types of malicious attack are most likely to keep IT security executives and managers awake at night.

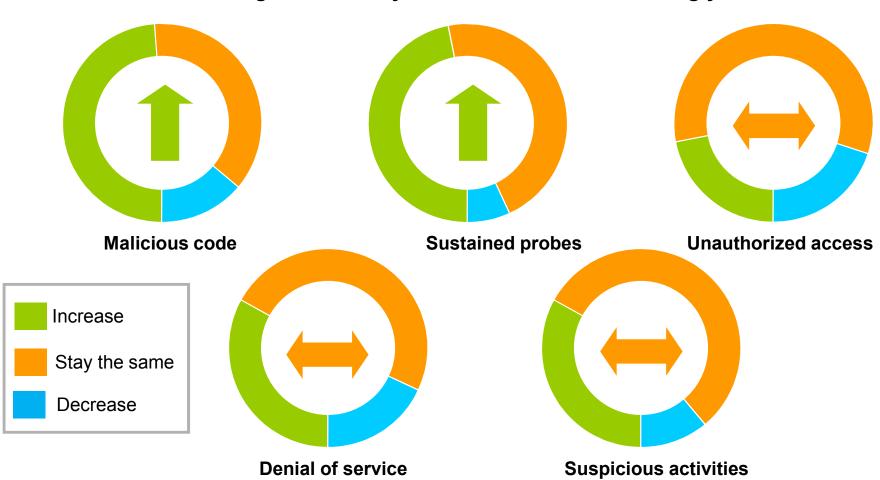
Types of security incidents based on severity of threat





Malicious code and sustained probes are projected to increase significantly over the course of 2014.

Changes in security threats over the forthcoming year





Organizations studied believe there is much room for improvement in their current security postures.

Do you have a security strategy to protect your:

Information assets?

55% Said NO

Online presence?

58% Said NO

IT infrastructure?

62% Said NO

What is the ideal amount to invest in security strategies over the next 12 months?

What do you anticipate your budget for security will be over the next 12 months?

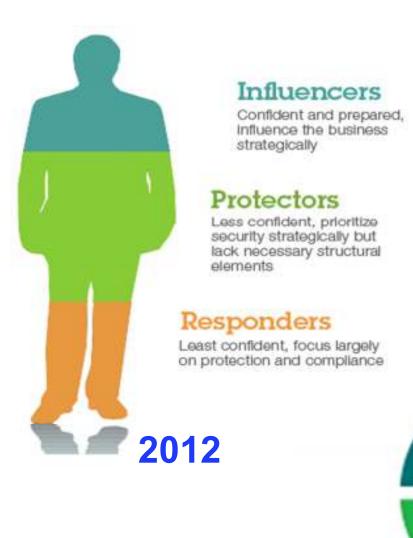
\$14M

50% funding gap

\$7M



2014 CISO Assessment - Participation







Next steps



Visit ibm.com/services/costofbreach

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