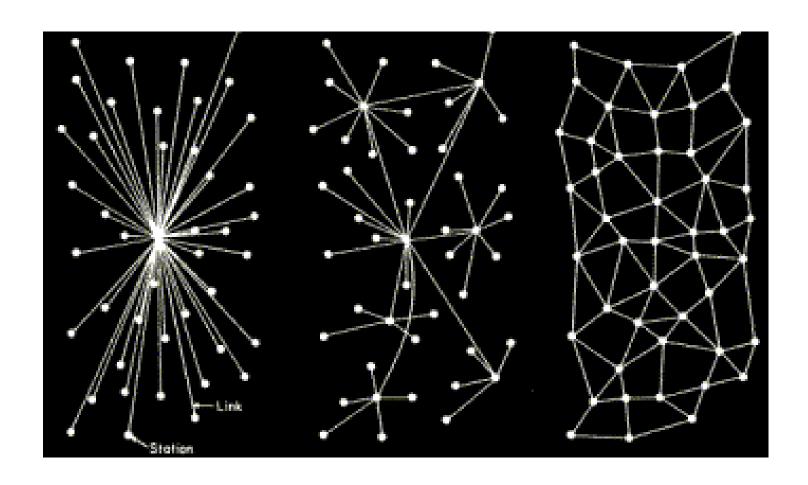






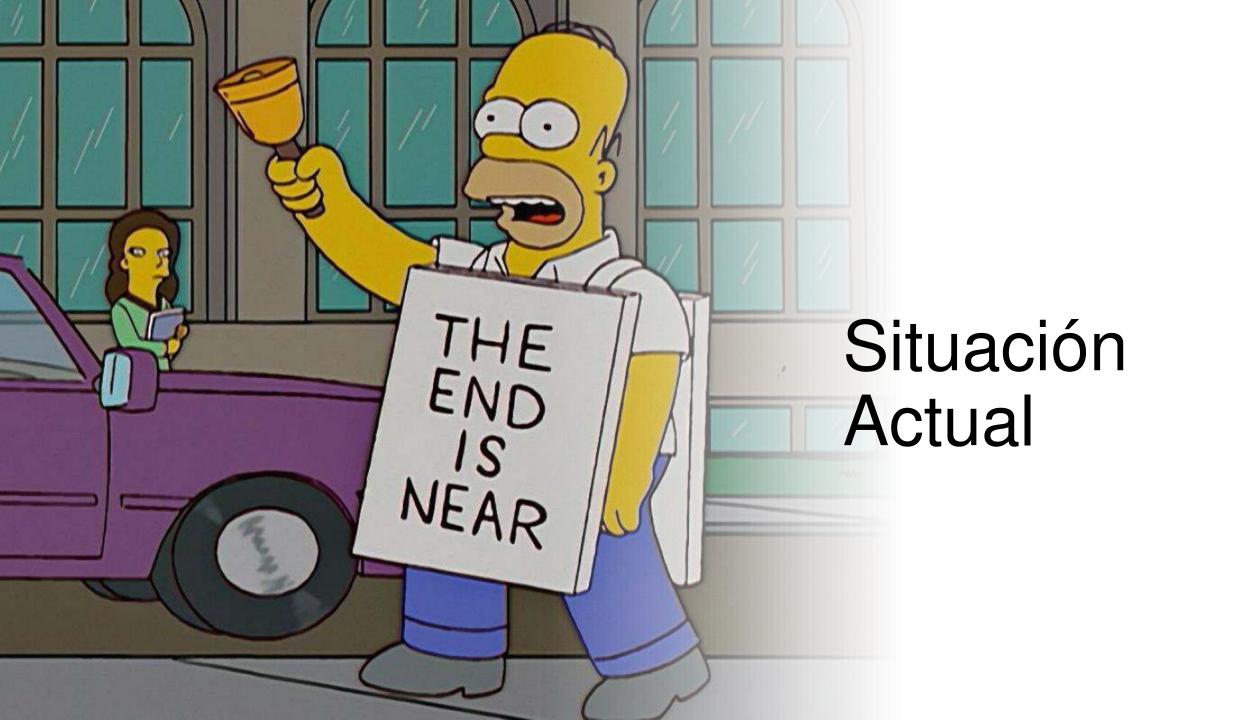
Historia Internet

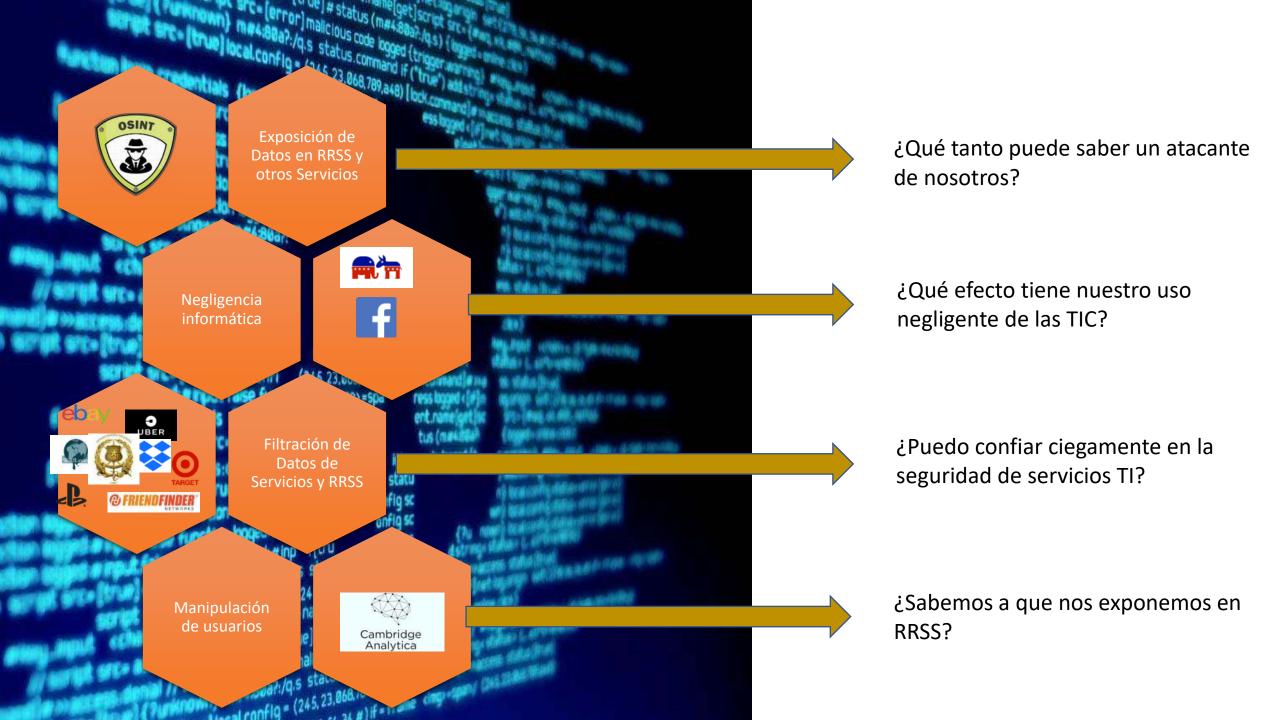
• Memorando RM-3420-PR Agosto 1964, Paul Baran a Fuerza Aérea de EEUU.



Contexto Actual









CIBERSEGURIDAD

 La ciberseguridad es la práctica de defender las computadoras, los servidores, los dispositivos móviles, los sistemas electrónicos, las redes y los datos de ataques maliciosos.
 También se conoce como seguridad de tecnología de la información o seguridad de la información electrónica.



- La Seguridad de la Información es preservación de la confidencialidad, integridad y disponibilidad de la información.
 - NCh2777, NCh-ISO27002:2013

Definición de data breach

- Incidentes desde donde se roba información de organización afectada
- Datos:
 - Sensibles
 - Propietarios
 - Confidenciales
 - Datos de clientes
 - Secretos comerciales
 - Seguridad Nacional.

USD 4.45M

Average total cost of a breach

The average cost of a data breach reached an all-time high in 2023 of USD 4.45 million. This represents a 2.3% increase from the 2022 cost of USD 4.35 million. Taking a long-term view, the average cost has increased 15.3% from USD 3.86 million in the 2020 report.

51%

Percentage of organizations planning to increase security investments as a result of a breach

While data breach costs continued to rise, report participants were almost equally split on whether they plan to increase security investments because of a data breach. The top areas identified for additional investments included incident response (IR) planning and testing, employee training, and threat detection and response technologies.

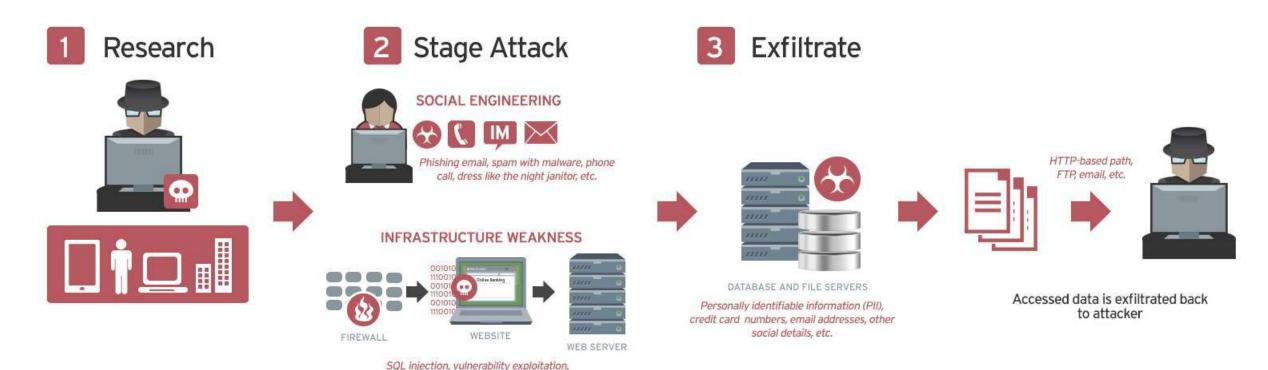
USD 1.76M

The effect of extensive security AI and automation on the financial impact of a breach

Security AI and automation were shown to be important investments for reducing costs and minimizing time to identify and contain breaches. Organizations that used these capabilities extensively within their approach experienced, on average, a 108-day shorter time to identify and contain the breach. They also reported USD 1.76 million lower data breach costs compared to organizations that didn't use security AI and automation capabilities.

¿Cómo ocurre un brecha de datos?

How Data Breaches Occur



Attacker looks for weaknesses he can exploit Attacker may need to keep staging attacks until the desired information is obtained or the desired access to the network is achieved

session hijacking, etc.

Once the attacker maintains acess to the system, exfiltration can indefinitely proceed

1 in 3

internal detection.

Number of breaches identified by an organization's own security teams or tools Only one-third of companies discovered the data breach through their own security teams, highlighting a need for better threat detection. 67% of breaches were reported by a benign third party or by the attackers themselves. When attackers

disclosed a breach, it cost organizations

nearly USD 1 million more compared to

USD 1.49M

Cost savings achieved by organizations with high levels of IR planning and testing In addition to being a priority investment for organizations, IR planning and testing emerged as a highly effective tactic for containing the cost of a data breach.

Organizations with high levels of IR planning and testing saved USD 1.49 million compared to those with low levels.

USD 1.68M

Cost savings from high levels of DevSecOps adoption

Integrated security testing in the software development process (DevSecOps) showed sizable ROI in 2023. Organizations with high DevSecOps adoption saved USD 1.68 million compared to those with low or no adoption. Compared to other cost-mitigating factors, DevSecOps demonstrated the largest cost savings.

82%

The percentage of breaches that involved data stored in the cloud—public, private or multiple environments

Cloud environments were frequent targets for cyberattackers in 2023. Attackers often gained access to multiple environments, with 39% of breaches spanning multiple environments and incurring a higher-than-average cost of USD 4.75 million.

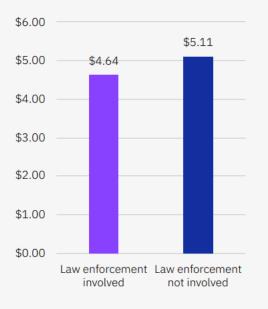
\$4.62m

Average total cost of a ransomware breach

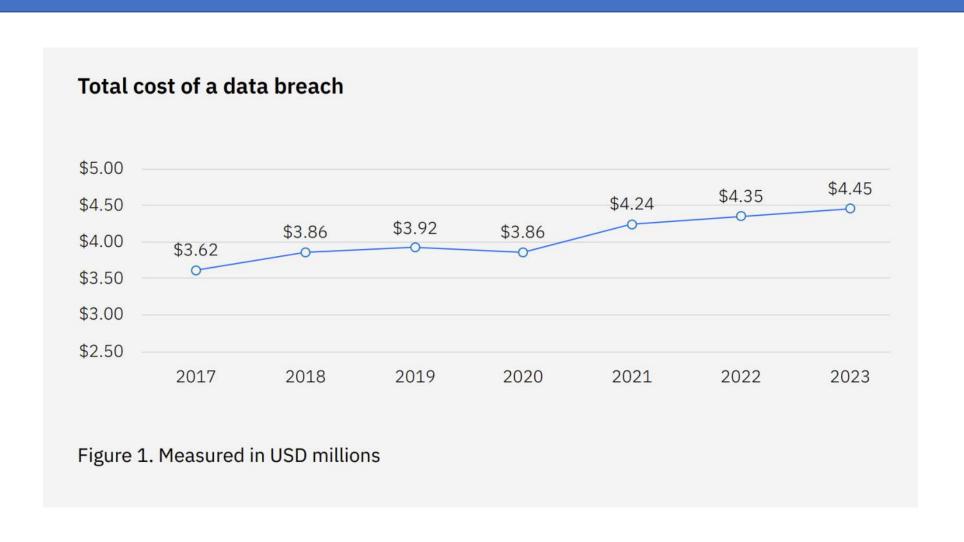


Ransomware and destructive attacks were costlier than other types of breaches.

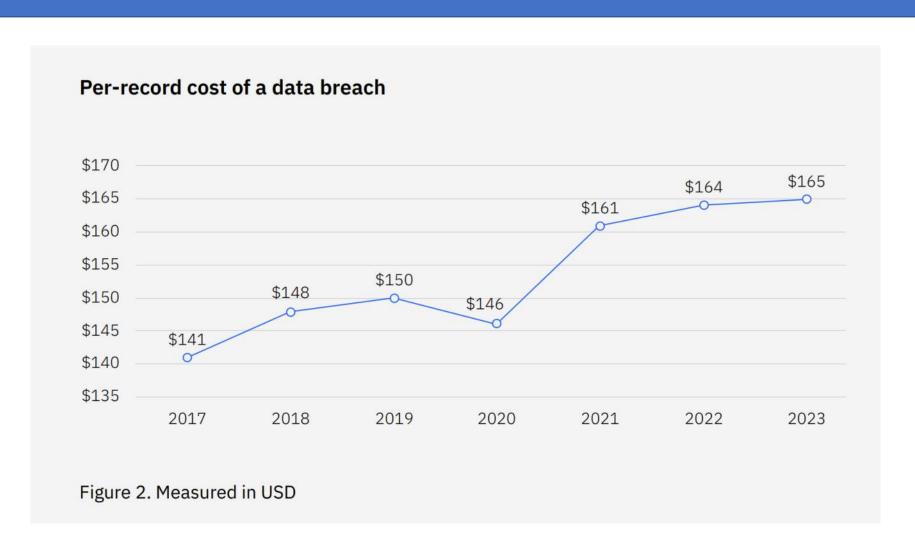
Cost of a ransomware attack by law enforcement involvement



Costo Promedio de Data Breach



Costo por registro de Data Breach



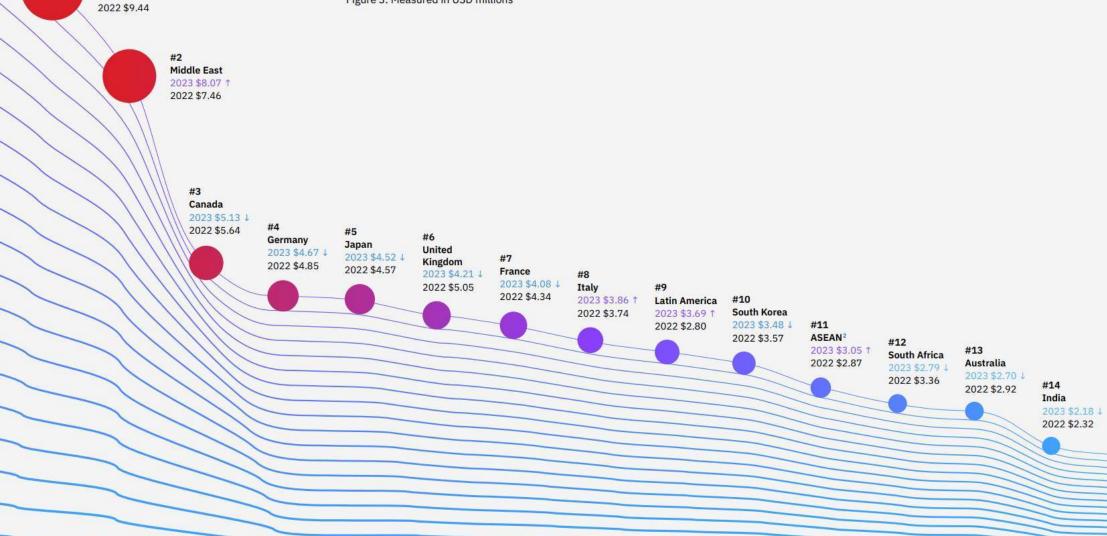


United States 2023 \$9.48 ↑

Complete findings

Cost of a data breach by country or region

Figure 3. Measured in USD millions



#15

Scandinavia

2023 \$1.91 4 2022 \$2.08

#16 Brazil 2023 \$1,22 \$ 2022 \$1.38

K

Costo promedio de data breach por industria

Cost of a data breach by industry

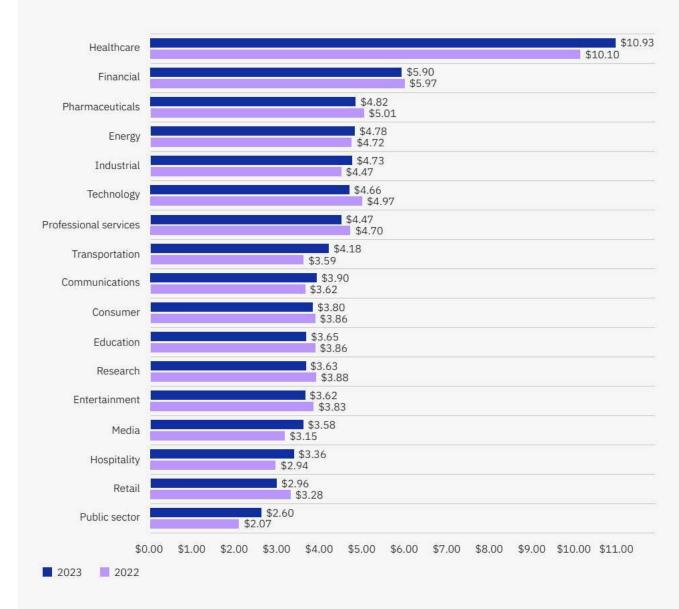
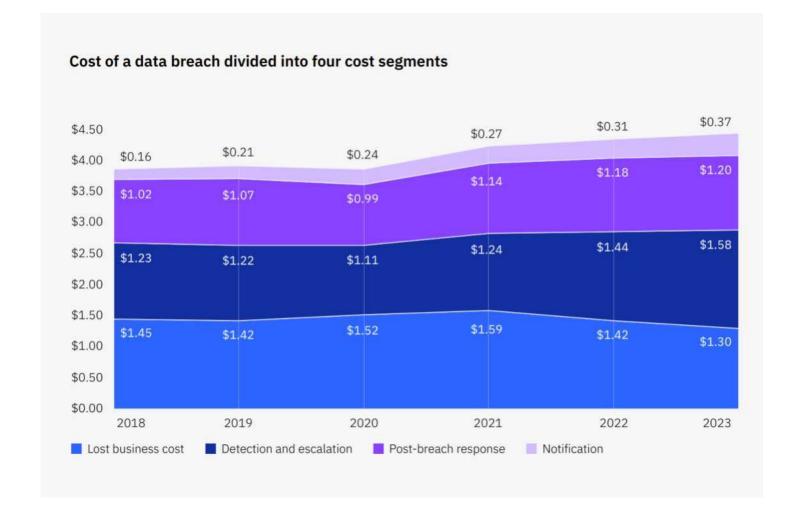


Figure 4. Measured in USD millions

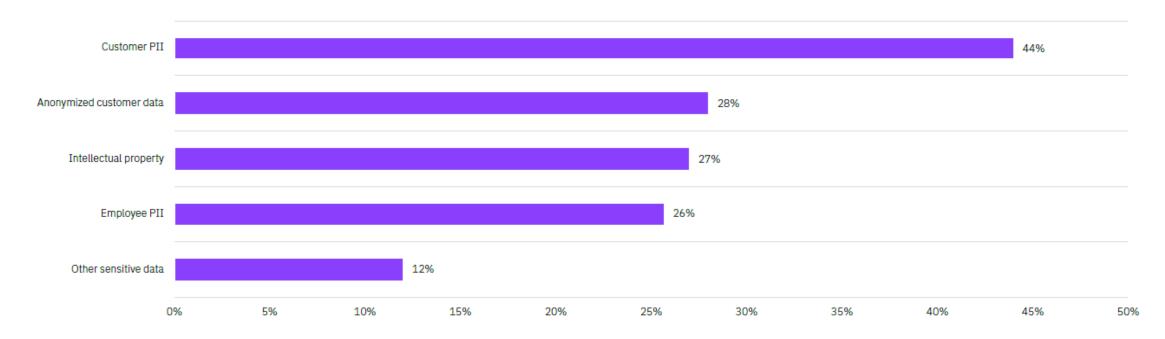
Costo total de data breach dividido en cuatro categorías

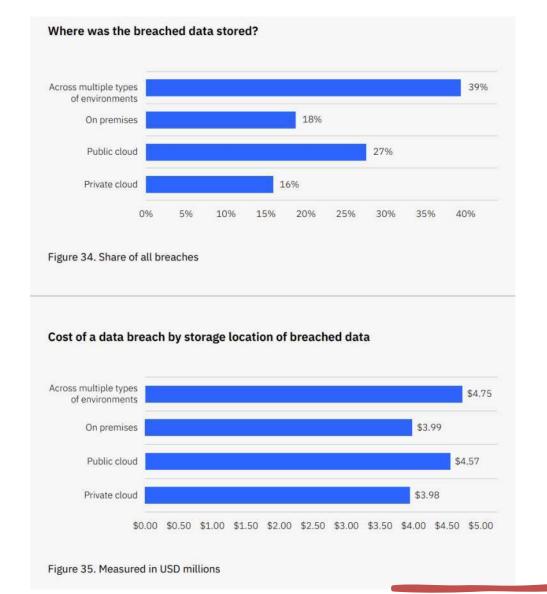


Tipos de registros comprometidos

Types of records compromised

Percentage of breaches involving data in each category





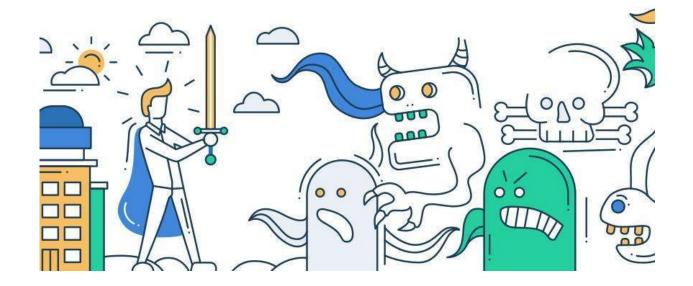


Adiós a la nube: por qué las empresas están volviendo a ser dueñas de su infraestructura (xataka.com)

Cloud no e garantía de seguridad

Definición de Vector de Ataque

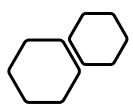
Ruta o camino que utiliza un atacante para tener acceso a su objetivo



Key finding

\$5.01m

Average total cost of a breach caused by business email compromise

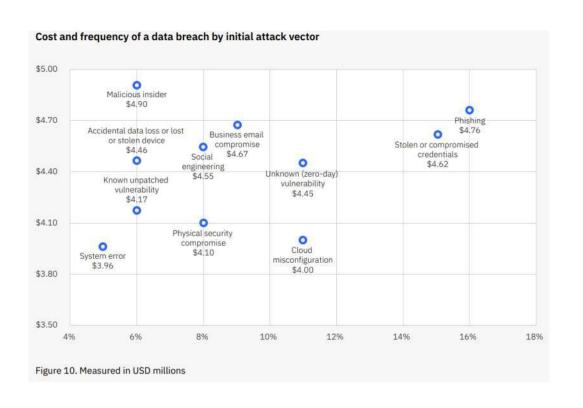


Vectores de Ataque comunes

- Credenciales comprometidas
- Compromiso de correos corporativos
- Insiders
- Phishing
- Compromiso de Seguridad Física
- Ingeniería Social
- Vulnerabilidad de software de terceros
- Pérdida accidental de datos o dispositivos
- Configuración deficiente de Cloud
- Otras configuraciones deficientes



Costo promedio y frecuencia de data breach por vector de ataque inicial

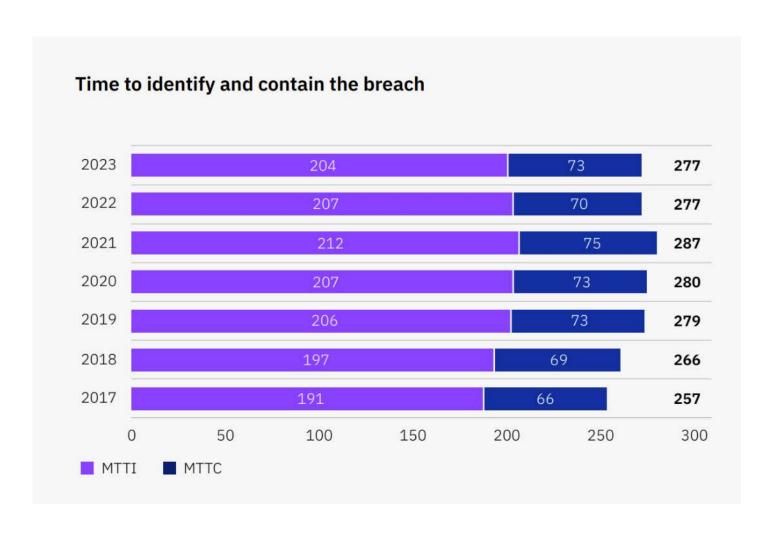


Average total cost and frequency of data breaches by initial attack vector



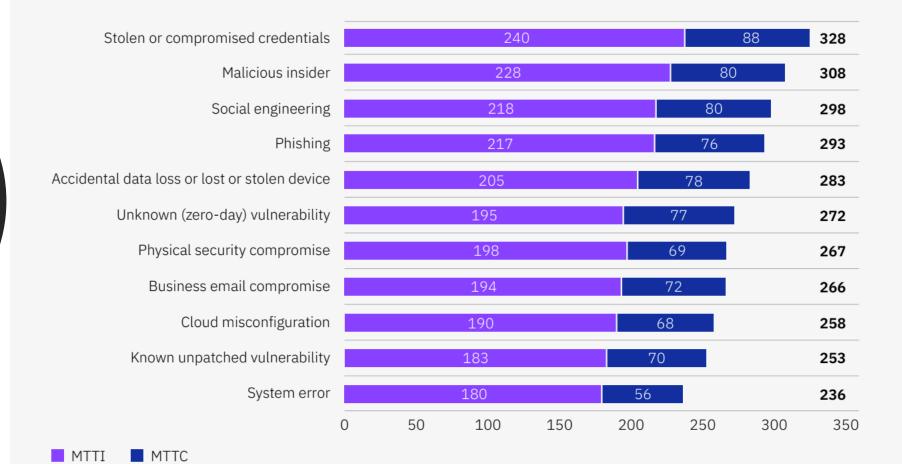


Tiempo promedio para identificar y contener un data breach



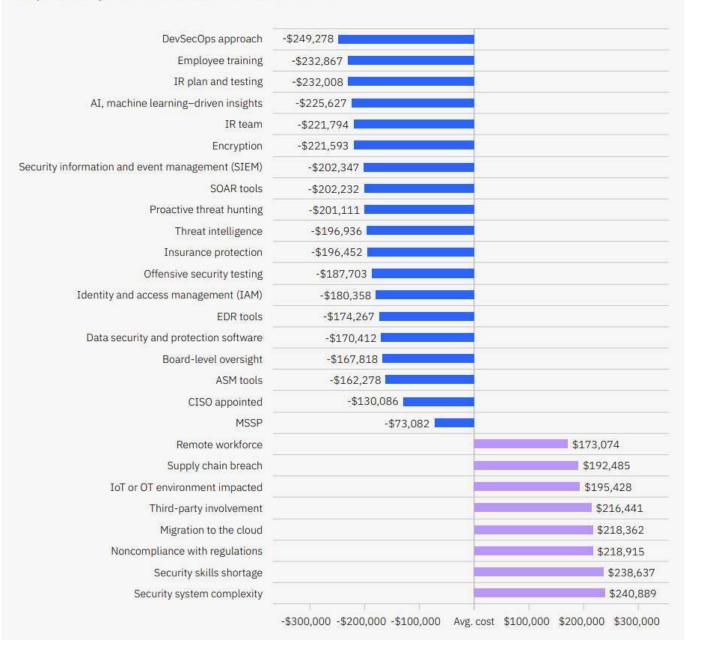
Tiempo promedio para identificar y contener un data breach por vector de ataque inicial

Time to identify and contain a data breach by initial attack vector



 Impacto de fatores claves en costo total de un brecha de datos

Impact of key factors on total cost of a data breach



COVID-19 consideraciones

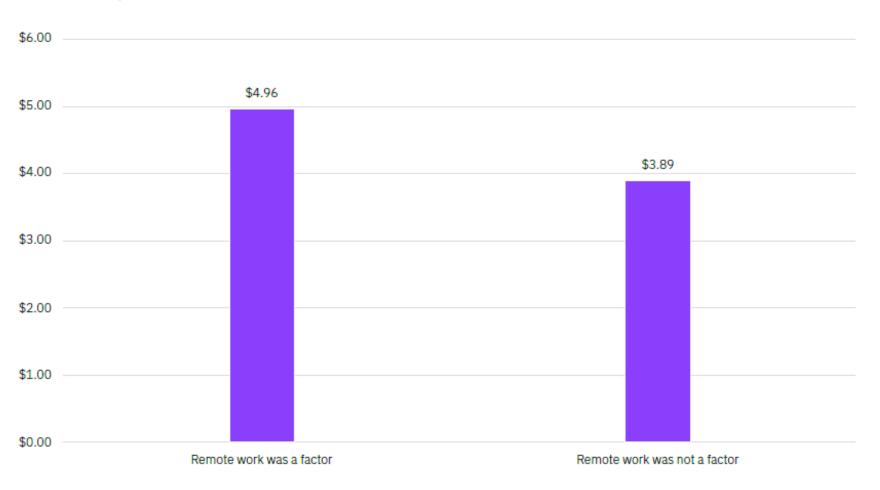
Empresas forzadas a operar remotamente

Inexperiencia en Teletrabajo seguro

Especialización de delincuencia en vulnerabilidades asociadas

Average cost of a data breach where remote work was a factor

Measured in US\$ millions





NATURALEZA DE LAS AMENAZAS

16% were breaches of Public sector entities



15% were breaches involving Healthcare organizations



10% were breaches of the Financial industry



43% of breaches involved small business victims



Breaches

Figure 2. Who are the victims?

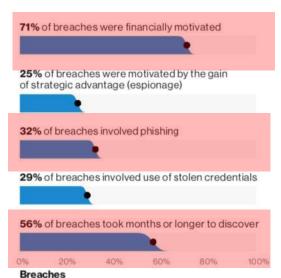
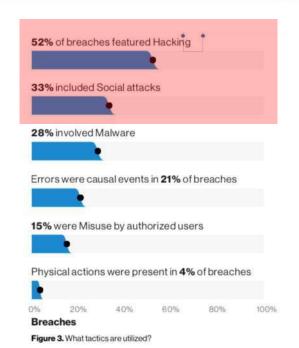
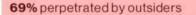


Figure 5. What are other commonalities?







34% involved Internal actors



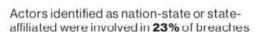
2% involved Partners



5% featured Multiple parties



Organized criminal groups were behind **39%** of breaches





Breaches

Figure 4. Who's behind the breaches?



NATURALEZA DE LAS AMENAZAS



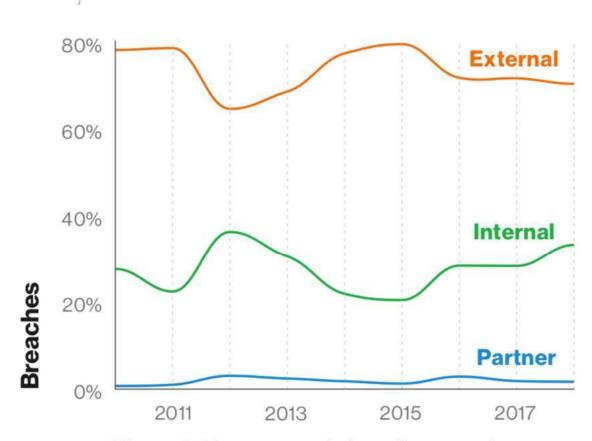


Figure 6. Threat actors in breaches over time

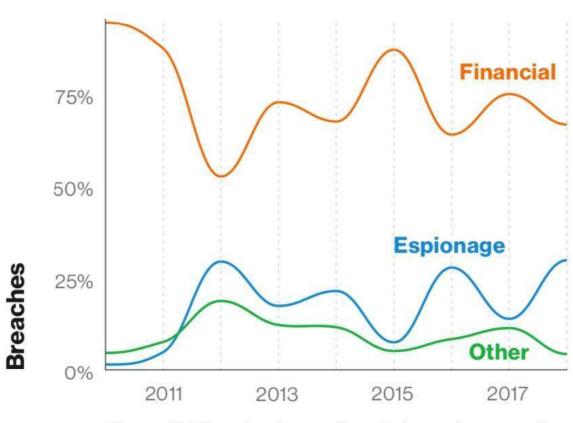


Figure 7. Threat actor motives in breaches over time



NATURALEZA DE LAS AMENAZAS

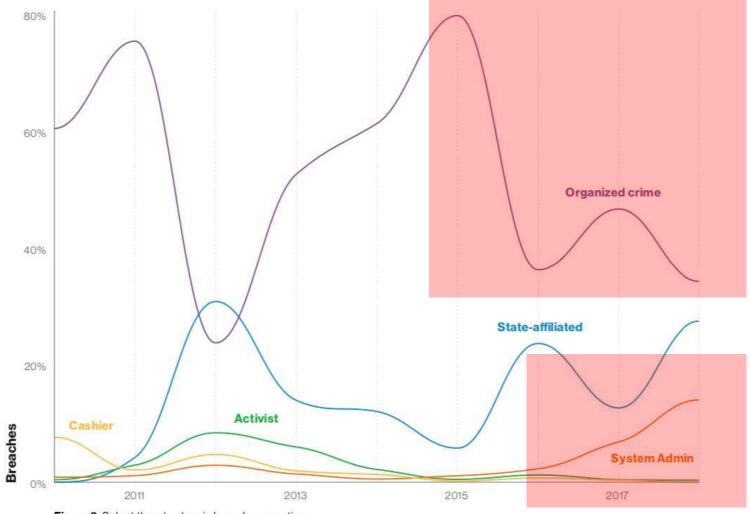


Figure 8. Select threat actors in breaches over time





¿Cómo han sido los últimos años?

- Los mayores costos se asociaron a pérdidas de negocios.
- 2. Las brechas de datos causarán daños por años en los afectados.
- 3. Ciclos de vida de robos de datos y contención más largos.
- 4. Ataques maliciosos, principal causa de pérdida/robo de datos.
- 5. Pérdidas por fallas de sistemas y errores humanos siguen costando millones.
- 6. Medidas tecnológicas mitigan los costos.
- 7. Tener personal especializado de respuesta reduce los costos.
- 8. Medidas de **seguridad automáticas** reducen costos.
- 9. Los Servicios Cloud no son garantía de seguridad