2016 Data Breach Investigations Report

Understand what you're up against.





2016 DBIR News Conference

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- Marc Spitler, senior manager of Verizon security research and lead author
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 - Anastasia Atanasoff
 - Gabriel Bassett
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 - Suzanne Widup



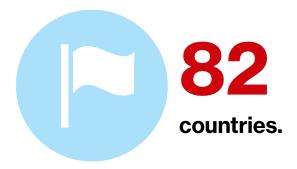
2016 Data Breach Investigations Report

Ninth edition.





2,260 analyzed breaches.





Data from

67

contributors.



2016 Data Contributors





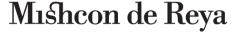
























2016 DBIR Key Findings

- Cybercriminals are exploiting humans as weakest link, organized in approach
- Phishing tops list of increasing concerns
- 89 percent of all attacks involve financial or espionage motivations.
- Three-pronged attacks highly familiar, repeatable, used frequently
- Risk management is key to safeguarding assets



The who, where and why.



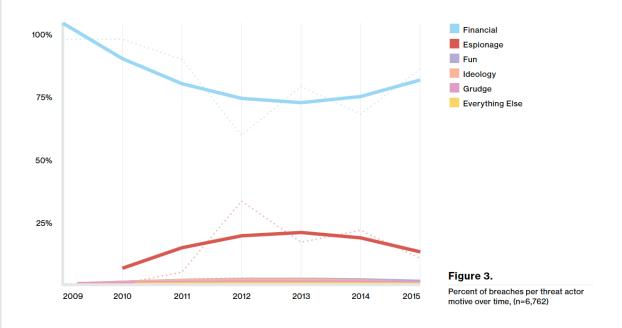
Attackers are usually external to the victim's organization.

But you still need to be aware of the internal threat.





89% of all breaches had a financial or espionage motive





How do they get in?



They've got the right credentials.



of confirmed data breaches involved leveraging a weak, default or stolen password.





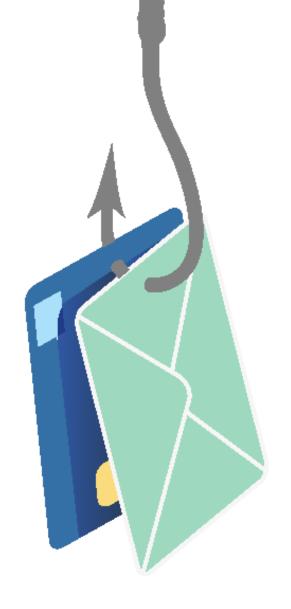
Phishing still works.



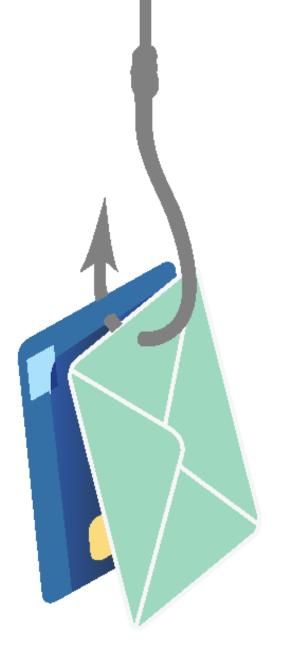
of phishing messages were opened.

13

of targets went on to click the attachment or link.







225 seconds

On average, it takes less than 4 minutes for a phishing campaign to get its first click.



The same old vulnerabilities exist.

Most attacks exploit known vulnerabilities where a patch has been available for months, if not years.



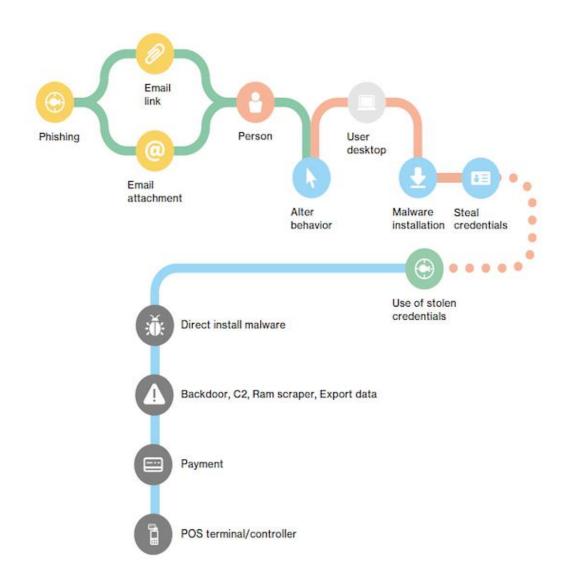
of successful exploit traffic is from the top 10 vulnerabilities.





Many incidents share the same threat actions in the early stages of the attack.

What happens next is determined by the attacker's end game.



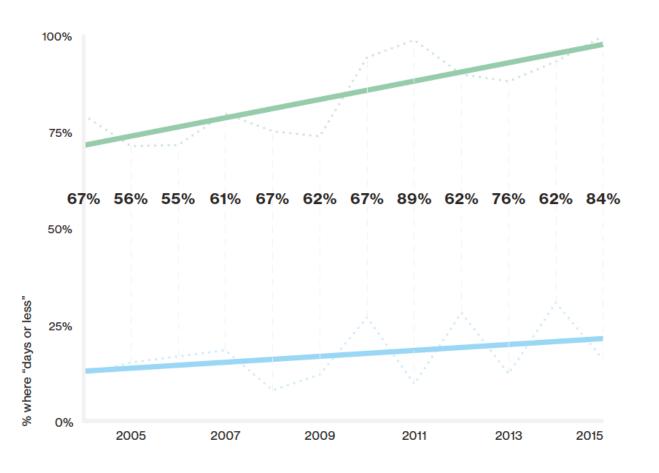




How quickly do they get in?



The detection deficit is growing.



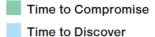


Figure 8.

Percent of breaches where time to compromise (green)/time to discovery (blue) was days or less



What can you do?



Over 80% of security incidents fit into just nine incident classification patterns.





Over 95% of breaches fit into just nine incident classification patterns.



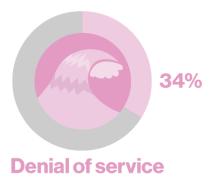


Financial services

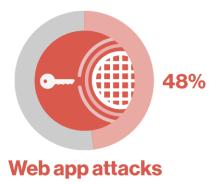




















Public sector



Miscellaneous errors



Privilege misuse



Physical theft and loss



16% Crimeware











Quick tips

- ✓ Be vigilant
- ✓ Make people your first line of defense.
- ✓ Only keep data on a "need to know" basis.
- ✓ Patch promptly.
- **✓** Encrypt sensitive data.
- **✓** Use two-factor authentication.
- **✓** Don't forget physical security.



Use the lessons learned from analyzing more than 2,200 confirmed data breaches. Read the 2016 DBIR:

Verizonenterprise.com/DBIR2016









Thank you.

