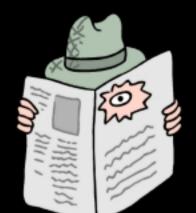
COMBAT INSIDER THREAT



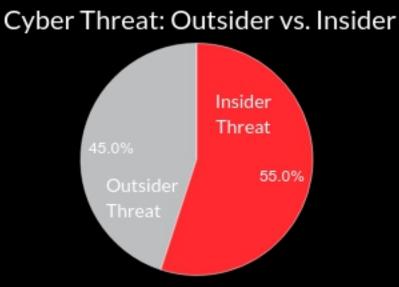
The Government's Most Under Estimated Risk: Espionage



Avatar: The Last Bit



Abdoul Barry, Melissa Chan, Harrison Fernandez, Kristy Li, Mutasem Sayeedi, Randy Rosario, Faisal Khan



55% of attacks are insider threat

32% of which were caused by malicious insiders

23% were inadvertent actors

85% of cases of espionage were discovered by an outside third party.





"Source: 2014 Verizon Data Breach Report

In 62% of espionage cases, the breach went for months before being detected, and in 5% it went on for years.



*Source: 2014 Verizon Data Breach Report

Espionage on a Global Level



Who is Recruited?

- Students
- Employees

How are they Recruited?









Red Flags of an Insider

Behavioral

- Disgruntlement in company
- Greed
- Personality Problems - Record of Violating Rules
- Difficulty engaging in social interactions and making decision.
- Vulnerability







Technical

- Encryption software
- Foreign IP traffic
- Foreign Contact Foreign preference /
- loyalty - Mishandling
- Repeated Violations

classified information





Detecting Malicious Insiders

Use secured tools to decrease detection time of incidents

- Implement a behavioral monitoring program



- Run tests on network by sending "false" requests for information. See if employees will respond.

analyze systems.





- Use computer forensic tools to look for signatures or

- Take away ex employee privileges immediately
- Assign right on a need-to-know basis
- Provide employees with online security training to prevent insider threat. - Urge employees to report something if they see something say something.
- Protect data to prevent data leakage.
- Block all social media use in the company. - Prevent use of personal devices.

- Monitor networks and software.



