

The Inside Job:

Cyber Threats from Inside Your Own Organization



Speaker Introductions



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Agenda

- Why It Matters
- How It Happens
- Prevent and Detect
- Respond
- Resources





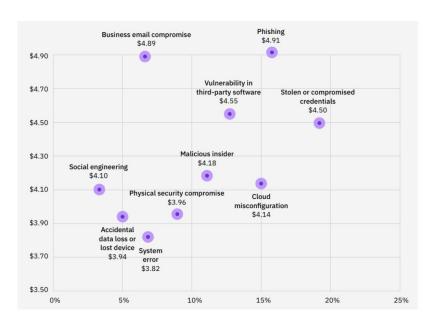
Why This Matters





Costs and Frequency

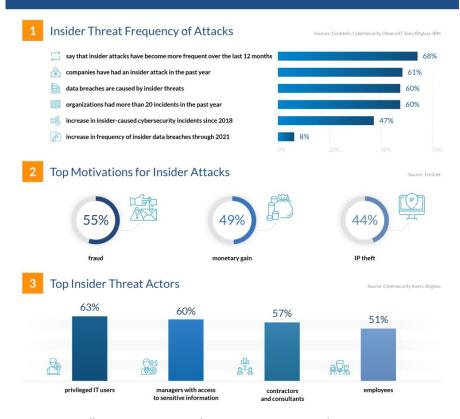
Average cost and frequency of data breaches by initial attack vector



Source: Cost of a Data Breach Report 2022, IBM Security

Insider Threat Statistics You Should See





Source: https://financesonline.com/insider-threat-statistics/







Types of insider threats



Unintentional

- Negligence
- Accidental action or inaction



Intentional

- Malicious Insider
- Harm for personal benefit or grievance



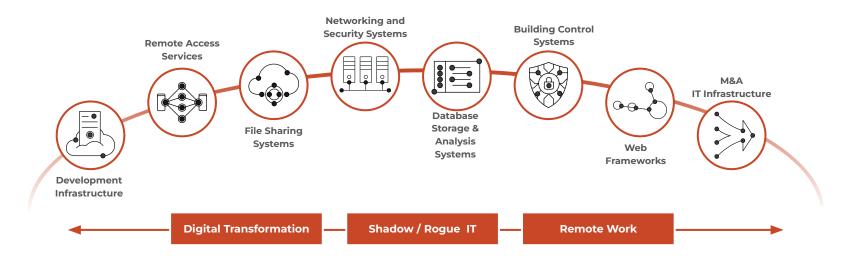
Other

- Collusive Threats
- Third-party Threats
 - Direct
 - Indirect



IT infrastructure has changed to support remote work, simplify access, and migrate to the cloud.

More flexibility also creates more risk for companies that aren't prepared.







Data Breach Exposure



SEC and FINRA Guidance



HHS Guidance



Customer Expectations / FedRAMP



Privacy

How It Happens





Progression of an intentional insider

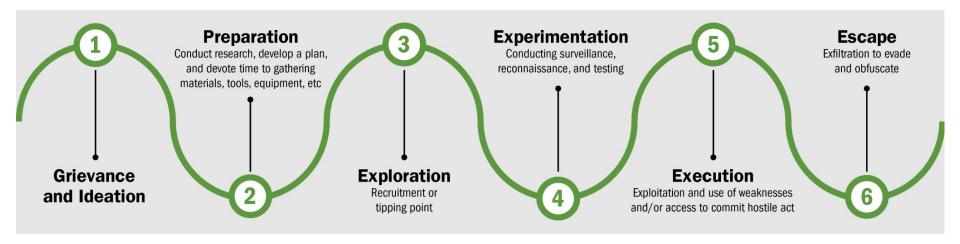


Image source CISA.gov



Exfiltration Methods - How Data Gets Out



Digital

- Email
- File transfer
- File sharing sites
 - Google Drive
 - Sharepoint
 - Box



Physical

- Devices
- Photocopies
- USB drives
- Hard drives



Other

- Pictures
- Video
- Verbal



Prevent





Prevention



Governance & Training

- Know what data you have
- Know where your data is stored
- Train employees



Risk Assessment

- Find and mitigate your risks
- Repeat as your environment is never really static



Technologies

- IAM / Applications
- Endpoints
- Network Layer

Detect





Detection



Early Detection & Reporting

 If you see something, say something



Monitoring & Alerting

- EDR/MDR
- DLP
- UAM

Respond





Prepare to Respond



Incident Response Planning

- Involve the right groups of people
- How will teams respond?



Playbooks

 Develop plans and document how to operationalize a response into playbooks



Tabletops

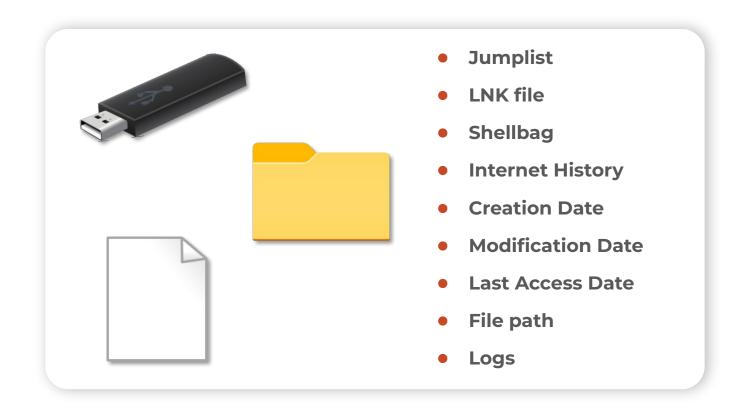
Practice
 response
 scenarios with all
 involved groups



Digital forensic analysis can uncover user actions



Examples of some digital forensic artifacts



Even technical insiders may look for help



Get into the thought process:

- What might they take?
- How might they take it?
- How might they cover their tracks?





Resources





Helpful Resources

- https://www.cisa.gov/topics/physical-security/insider-threat-mitigation/defining-insider-threats
- https://www.cisa.gov/resources-tools/resources/insider-threat-mitigation-guide
- https://www.cisa.gov/topics/physical-security/insider-threat-mitigation/resources-and-tools
- https://www.finra.org/compliance-tools/Industry_Risks_and_Threats/Effective_Controls_and_Practices





Thank you



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