





*www.lkm.org*









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# What is Cybersecurity?

The body of information technologies, processes, and practices designed to protect networks, computers, programs, and data from attack, damage, or unauthorized access.

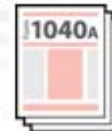
# Who May Be Doing the Hacking?

	HACKTIVISM	CRIME	INSIDER	ESPIONAGE	TERRORISM	WARFARE
THREATS						
ACTIONS	Hackers might use computer network exploitation to advance their political or social causes.	Individuals and sophisticated criminal enterprises steal personal information and extort victims for financial gain.	Insider threat actors typically steal proprietary information for personal, financial, or ideological reasons.	Nation-state actors might conduct computer intrusions to steal sensitive state secrets and proprietary information from private companies.	Terrorist groups might seek to sabotage the computer systems that operate our critical infrastructure.	Nation-state actors might attempt to sabotage military and critical infrastructure systems to gain an advantage in the event of conflict.

# Types of Attack



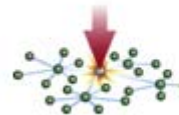
DDoS



False Tax Return Filings



Doxing



Network Destruction Attacks



Theft of IP



Ransomware and Extortion



Theft of PII, PHI



Business E-mail Compromise



Point of Sale Breaches



Website Defacements

# Forms of Malware & Phishing

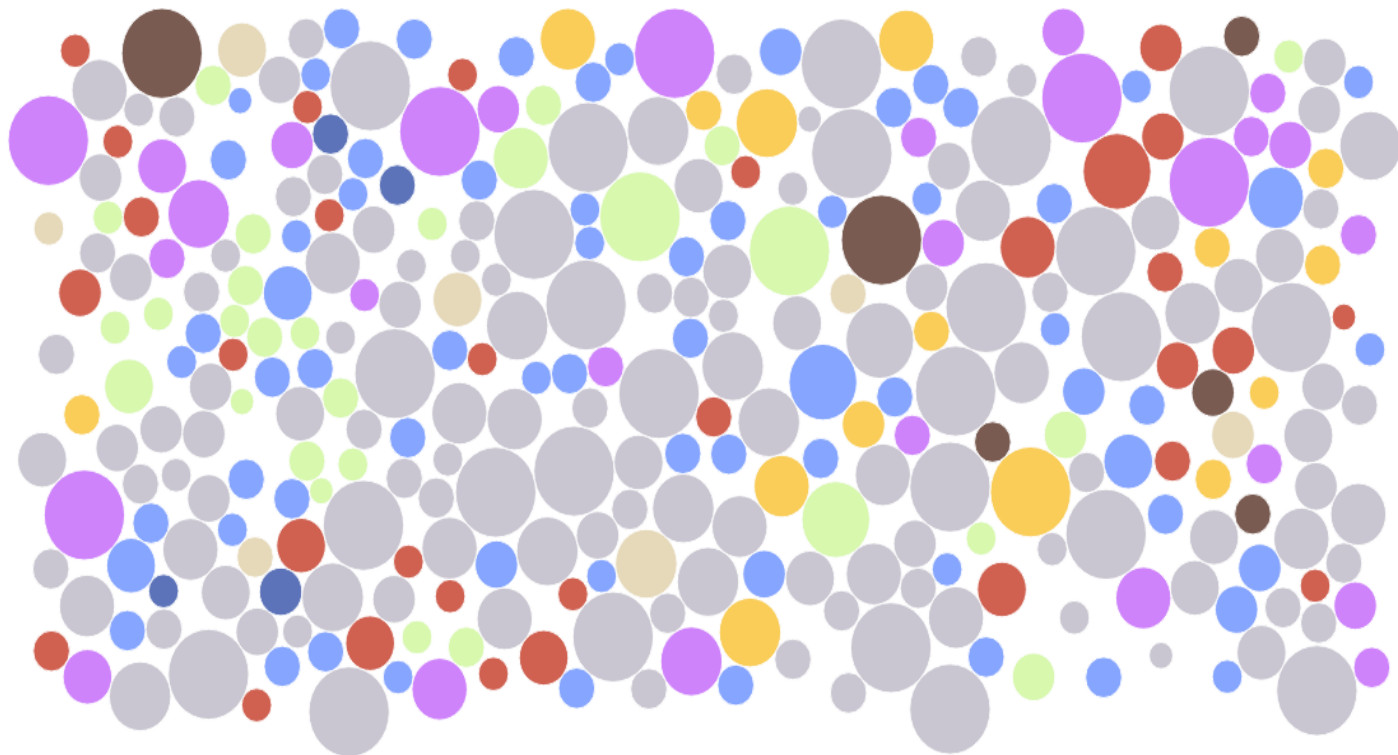
Malware

Ransomware

Adware

Spyware

Phishing



**Security Incidents** < 2016 >

Displaying 324 incidents  
Jan 4, 2016 to Dec 31, 2016.

Each circle represents a target of a security incident such as a data leak or denial of service attack.

Click or hover over circles to see more information. Change the year view by clicking the arrows next to the year above.

Data is a sampling of notable incidents for each year and not a full representation of all incidents.

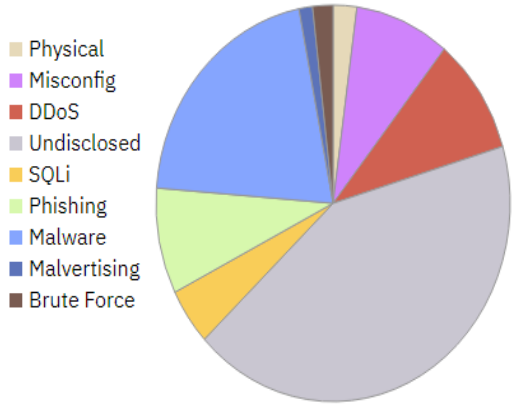
**Learn More:**  
Read the 2016 Cost of a Data Breach Study from Ponemon Institute

Size of circle estimates relative impact of incident in terms of cost to business.

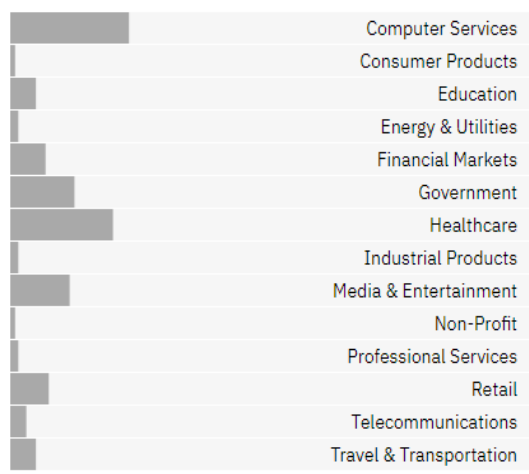
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Jan 16 Feb 16 Mar 16 Apr 16 May 16 Jun 16 Jul 16 Aug 16 Sep 16 Oct 16 Nov 16 Dec 16 Jan 17

**Attack Types** (reset)  
Click to view incidents for a specific attack type.



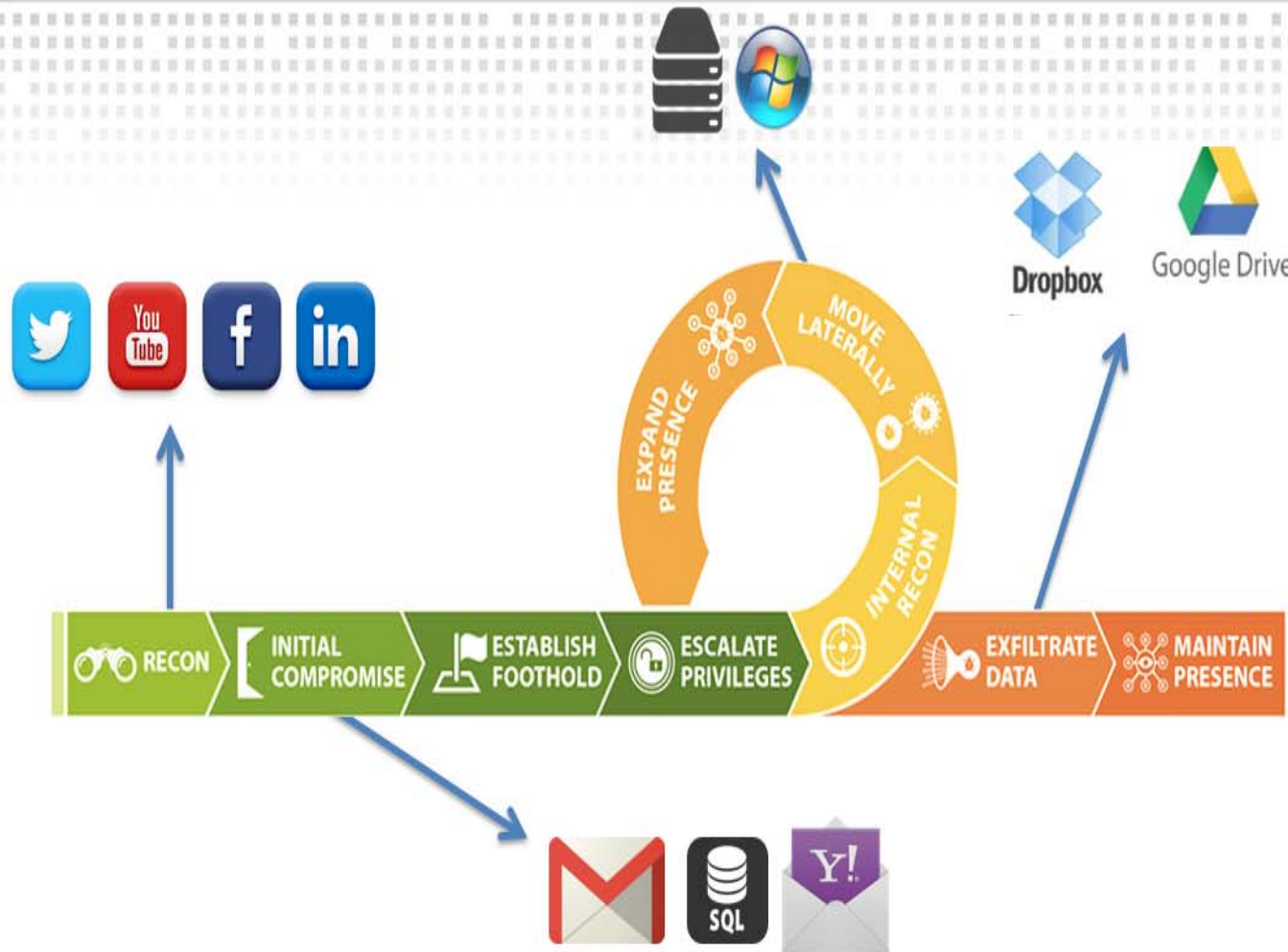
**Industries** (reset)  
Click below to view incidents from a specific industry.



**Target Geography** (reset)  
Size of flag indicates higher volume. Click to view incidents for that geography.



# Anatomy of a Hack



*Legitimate business services can be used for illicit cyber acts*



# National Institute of Standards & Technology



**NIST**

 **THE LEAGUE**  
OF KANSAS MUNICIPALITIES



# Best Practices

- Virus / Malware Protection
  - Local client daily scans
  - Cloud based scans



# Best Practices



- Encryption
  - Client
  - Server
  - Mobile

# Best Practices

- User Access
  - Normal User Accounts for Administrators
  - Restricted Normal User Accounts



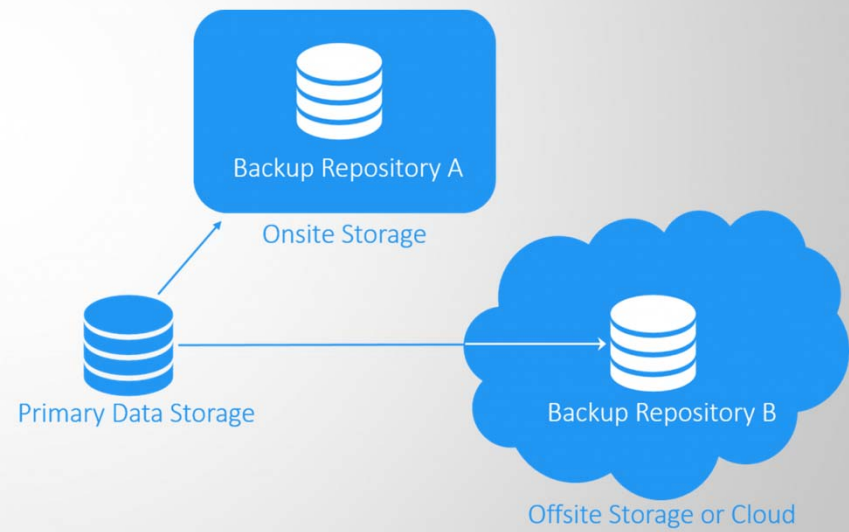
# Best Practices



- Network
  - Guest/Private WiFi
  - Connected device monitoring

# Best Practices

- Backup Solutions
  - Onsite
  - Offsite



# Best Practices

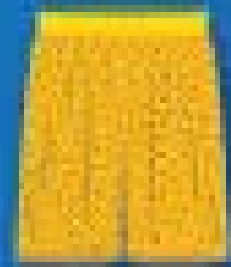
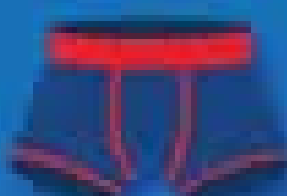


- End user training
  - Annual training
  - Self-paced courses



# Best Practices

PASSWORDS ARE LIKE  
UNDERPANTS



Change them often, keep them private and never share them with anyone.

# SECURITY INCIDENT

