CYBER SECURITY

With gas prices soaring, round of layoffs, geopolitical unrest, and the pandemic, cybersecurity vulnerabilities and digital attacks have proved to be thoroughly enmeshed in all aspects of life.

In the 2022 Gartner Board of Directors Survey

88% of board members classified cybersecurity as a **business risk**.

The Department of Homeland Security and its components play a lead role in reinforcing cybersecurity resilience across the country and sectors, investigating malicious cyber activity, and advancing cybersecurity.

As of 2022

the average cost of a data breach in the United States
$9.44 million

the global average cost per data breach
$4.35 million

In the first half of 2022 in the U.S.

817 cases of data compromises including

- Data breaches
- Data leakage
- Data exposure

with **over 53 million individuals** affected

MOST NOTABLE CYBERSECURITY ATTACKS

1. Malware
2. Phishing and social-engineering
3. Internet-facing service risks
4. Password
5. Man-in-the-middle (MITM)
6. SQL Injection
7. DDoS (Distributed Denial-of-Service)
8. Watering Hole
9. Cryptojacking
10. Insider Threat

WHAT BUSINESSES SHOULD HAVE/DO

ASIDE FROM EDUCATING EMPLOYEES
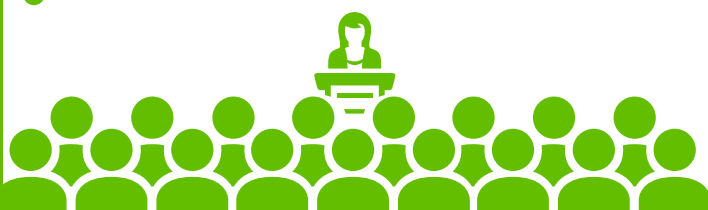
CLOUD EMAIL SECURITY
Multiple detection technologies that together, offers an optimum threat protection

INTRUSION PREVENTION SYSTEM
Establishes timely security measures against known zero-day attacks

ANTI-MALWARE
Scans files at the gateway for viruses and other threats as well as runs cloud query simultaneously

SECURE WIFI
Same network controls which can be applied to headquarters and other remote workplaces

ANTI-SPAM
Reduces unsolicited e-mail and unburdening your e-mail servers

VIRTUAL PRIVATE NETWORK
Enables secure connections from home back to an office

APPLICATION PATROL
Filtering/classifying data and blocking unapproved applications

WEB FILTERING
Blocking access to malicious, risky, and inappropriate websites

Sources:
https://www.wired.com/story/worst-hacks-breaches-2022/
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https://www.dhs.gov/topics/cybersecurity
https://www.gartner.com/en/topics/cybersecurity
https://www.simplilearn.com/tutorials/cyber-security-tutorial/types-of-cyber-attacks#types_of_cyber_attacks