



Zulqer Khan, CPA, CGA, MBA Regulatory Analyst, Registrant Oversight



# Cyber security comprises technologies, processes and controls that are designed to protect systems, networks and data from cyber attacks.

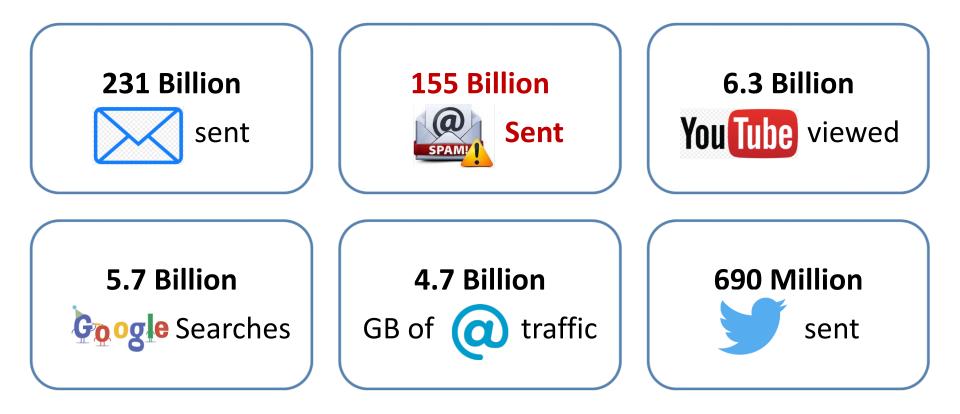


# Warren Buffett:

"I don't know that much about cyber, but I do think that's the number one problem with mankind."

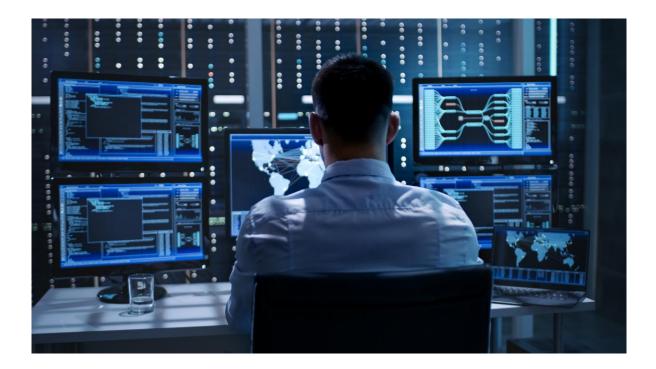
## A day on the internet - 2018







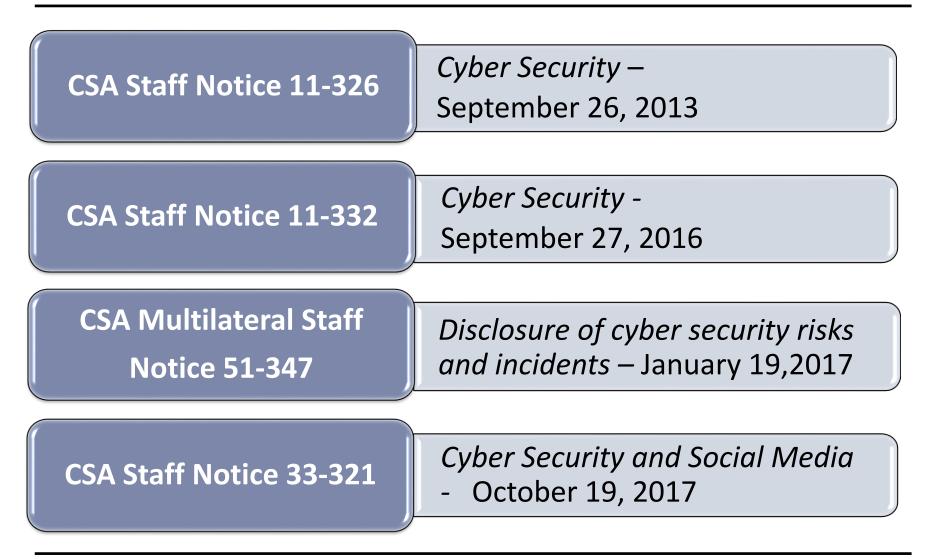
#### Alberta registrants - victimized by cyber attacks



# Cyber security has been identified as a priority area in the CSA 2016-2019 Business Plan.

#### Guidance





## CSA Staff Notice 33-321 - Cyber Security and Social Media

Recent survey results

# Guidance

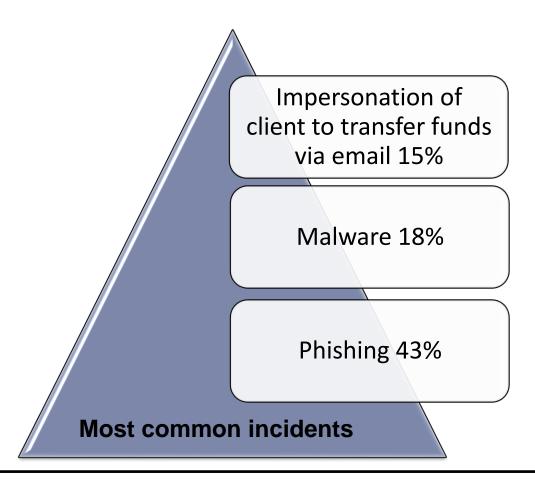
- Policies and procedures
- Training
- Risk assessment
- Incident response plan
- Due diligence service providers
- Data protection
- Insurance

Alberta Securities Commise

**Cyber security survey** 



Approximately **51%** of firms experienced a cyber security incident in the year surveyed.



## **Policies and procedures**



- Electronic communications
- Firm-issued electronic devices
- Loss/disposal of electronic devices
- Public electronic devices/public internet connections
- Detection of unauthorized activity
- Software updates
- Third-party vendors/service providers
- Reporting of incidents

#### Training



- **Employees** often the first line of defense
- Training critical
- Evolving landscape frequent training required





- Risk management required by law
- Cyber security risk assessment
  - At least annually
  - Inventory critical assets and data
  - Identify and assess cyber threats, vulnerabilities and consequences
  - Assess adequacy of controls and response plan



#### 92% of firms engaged third party service providers

- Third party's security practices evaluate and assess
- System access limit third party access
- Third party service contracts include cyber security clauses
- Cloud services understand security practices and have back-up plan in case not accessible

#### **Other matters**



- Incident Response Plan
- Data Protection
- Insurance



# CSA staff will continue to review the cyber security practices of firms through compliance reviews

