

Cybersecurity

Threats and mitigation during Covid-19

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Agenda

Cybersecurity during Covid-19

- Cyber threats and definitions
- Predominant Covid-19 threats
- Network, Device & Employee prevention
- Q&A

**Google blocked +18 million
malware and phishing emails last
week.**

**How many still ended up in your
inbox?**

Threats

Cyber threats include computer viruses, data breaches, and Denial of Service (DoS) attacks.

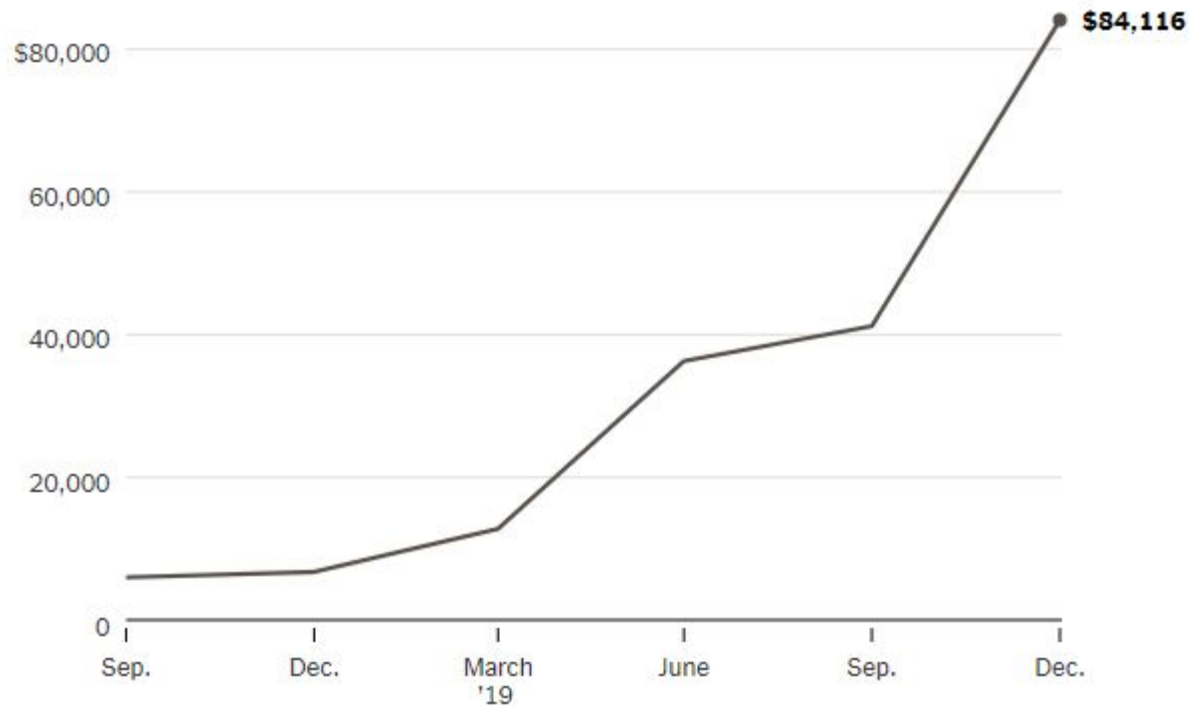
Malware

- Malicious software
- Infiltrate and damage computers
- Virus
- Spyware
- Trojans

Ransomware

- Data breach
- Encrypts data
- Threat to publish data if not paid
- Threat to delete data
- Threat to block access

Average payment made by ransomware victims



By The New York Times | Source: Coveware

Threats

Cyber threats include computer viruses, data breaches, and Denial of Service (DoS) attacks.

Phishing

- Fraud
- Identity Theft
- Deception
- Website spoofing

Botware

- Denial of Service (DoS)
- Automated
- Connects multiple devices
- Hijack devices

From: Amazon <management@amazoncanada.ca> on behalf of **not an Amazon email address (note the missing A in Amazon)** Sent: 05/01/2014 7:55 PM
To: @sheridanc.on.ca
Cc:
Subject: Suspension

amazon.com[®]

Dear Client, ← **Generic non-personalized greeting**


We have sent you this e-mail, because we have strong reason to believe, your account has been used by someone else. In order to prevent any fraudulent activity from occurring we are required to open an investigation into this matter. We've locked your Amazon account, and you have 36 hours to verify it, or we have the right to terminate it.

To confirm your identity with us click the link below:

<https://www.amazon.com/exec/obidos/sign-in.html>

← **Hovering over the link reveals it points to a non-Amazon site - "http://redirect.kereskedj.com"**

Sincerely,
The Amazon Associates Team



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Predominant Covid-19 Threats

Times of crisis increase vulnerabilities.

Prevention and aware is key to minimizing risks.

- Fraudulent internet domains
- Fraudulent C-19 charities
- Fraudulent loans
- PPE donations
- Spoofed websites



CYBER SAFETY CHECKLIST


Back up online and offline files regularly and securely



Strengthen your home network


Use strong passwords


Keep your software updated


Manage social media profiles


Check privacy and security settings


Avoid opening and delete suspicious emails or attachments



BE VIGILANT . BE SKEPTICAL . BE SAFE

Network, Device & Employee

Network

Protect transport methods

- Network filtering
- Firewall
- Private network
- Control access
- Monitor network
- Segregate networks
- Reporting

Device

Protect computers & devices

- Antivirus software
- Regular scans
- Regular backups
- Multi-factor authentication
- Software updates
- Encryption

Employee

Users are the most important security measure.

- Phishing awareness
- Strong passwords
- Clear policies
- Enforce policies
- Website filtering

5 RECOVER

Make full backups of important business data and information

Continue to schedule incremental backups

Consider cyber insurance

Make improvements to processes/ procedures/ technologies

4 RESPOND

Develop a plan for disasters and information security incidents

1 IDENTIFY

Identify and control who has access to your business information

Conduct background checks

Require individual user accounts for each employee

Create policies and procedures for cybersecurity



2 PROTECT

Limit employee access to data and information

Install Surge Protectors and Uninterruptible Power Supplies (UPS)

Patch your operating systems and applications routinely

Install and activate software and hardware firewalls on all your business networks

Secure your wireless access point and networks

Set up web and email filters

Use encryption for sensitive business information

Dispose of old computers and media safely

Train your employees

3 DETECT

Install and update anti-virus, anti-spyware, and other anti-malware programs

Maintain and monitor logs

Q&A

Thank You

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