Read the following articles:

* <http://www.cbc.ca/news/technology/ransomware-europe-russia-ukraine-petya-bitcoin-1.4179683>
* <http://www.cbc.ca/news/canada/toronto/oshawa-hospital-cyberattack-1.4114758>
* <https://www.thestar.com/news/canada/2017/05/13/ontario-health-ministry-on-high-alert-amid-global-cyberattack.html>

**Ransomware Basics**

1. **What is a ransomware attack?**

A ransomware attack is when hackers hack into your personal computer and either corrupts all your files or deleting them and holding the data hostage until the person pays a fee

1. **How does ransomware work and what does it affect?**

Ransomware attacks occur by email, hackers try sending you emails that contain a link and make it enticing so that you click on that link. After you click on that link the hackers have access to your computer and data and can begin their attack from there. Ransomware attacks affect your personal data on your computer, your social media, credit card numbers etc.

1. **How could you be affected by a ransomware attack?**

A ransom can affect you because your data will be at risk and to get it back you will have to shell out a large sum of money.

1. **How can you protect yourself against a ransomwhare attack?**

Well you can protect your self from this by not clicking on any unknown emails you get with odd looking links, if you will be clicking on those links make sure you have some sort of antivirus program that will help detect viruses in those links or even viruses that your computer already has.

**Canadian Attacks (In The Past)**

1. **What was affected in Canada in the articles above?**

In the article, a hospital located in Oshawa had all their files corrupted by a hacker and the hackers were offering a program that uncorrupts the data for a fee. Since the hospital had all their data backed up they were able to get all the information from a previous backup, also no hospital records were breeched.

1. **How badly was Canada affected?**

Canada was badly affected by this since this hack went around Many organizations and individuals, most of them did not realize that they were being attacked. As IT experts were working to try and disinfect the systems many people were being forced to pay the $300 in bitcoin to get access to their computer data.

1. **What other countries were affected?**

Countries that was hit the hardest due to the ransomware attacks were Ukraine,

Russia, USA, and majority of Europe. For the United States, the malware affected

1. **Where did the attack come from?**

attack came from the malicious malware known as “WannaCry”. They used a

SMB protocol in order to help various nodes on a network communicate, and

Microsoft implementation can easily be tricked by specially crafted packets into

executing arbitrary code. This is how it managed to infect many computers.

1. **Why was the attack started?**

The attack was started because the hackers behind it wanted to make money. And since they were attacking large businesses’ and medical facilities that had a lot of patient/ customer information they may have been trying to commit identity theft or fraud to make more money/commit crimes

1. **How was the attacked stopped?**

Attacks were stopped after companies updated their systems to protect from attacks like these occurring again. And some installed antivirus programs that protect against the attacks.

**Canadian Attacks (Present Day)**

1. Google “ransomware attack Canada 2019” and research an attack that occurred in the past two months.
   1. Summarize the attack in a paragraph that describes: who, what, where, when.

<https://cfjctoday.com/2019/11/06/nunavut-government-services-affected-by-weekend-ransomware-attack-2/>

A ransomware attack was launched toward the government of Nunavut Then, at about 4 a.m. Saturday, the government’s entire computer system went dark. The ransomware attack encrypted individual files on various servers and workstations, and locked out regular users. This attack occurred because someone on the government computers clicked a link that they shouldn’t have. This attack has really affected the way government of Nunavut works, they will still be remaining open but will be running the government in an old school way by using checkbooks, communicating using telephones. The government is refusing to pay ransom and will be working on restoring there computer network