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 a malware, in a rogue software code when a hacker holds hostage your information until you pay the ransom a specific amount money through Bitcoin.

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

A ransomware attack works when the ransom encrypts a victim’s file, which is a form of malware. Then these hackers have instructions to crack the viruses code. It affects the victim’s all of the victim’s files, if the ransom is not paid.

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

You can be affected by a ransomware attack in many ways such as spam emails, applications with viruses in them, and unknown links leading to viruses. After you open one of these applications, websites, and emails hackers know have the access to hold your information until they are paid.

1. How can you protect yourself against a ransomware attack?

You can protect yourself from these hackers and ransomware attack by doing a backup every day, get a recovery plan, get an anti-virus, check constantly for viruses, get a firewall, and use Microsoft Defender. These are just some ways you can protect yourself form ransomware attack.

**Canadian Attacks (In The Past)**

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

Many people are affected by ransomware attacks but some recent ransomware attacks that happened in Canada includes the Oshawa Hospital.

1. How badly was Canada affected?

Canada would have been affected by this ransomware attack. The Oshawa hospital backs up their information every night, but that day that they were ransom attacked they lost all that information due to the backup happens every night. So this hospital in Oshawa wasn’t affected that bad.

1. What other countries were affected?

Some other countries were affected such as Ukraine, Germany, America, Poland, Italy, many other countries.

1. Where did the attack come from?

The malware’s origin is unclear. It is not certain where the malware attack came from.

1. Why was the attack started?

The hackers did it for money and profit. They encrypted many files and demanded money to decrypt them, otherwise they’d be lost forever.

1. How was the attacked stopped?

The emails that were being spread rapidly, were shut down by the email host (i.e. Google). Due to this, the rapid spread stopped, since the email could not be sent further.

**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.

The people who were affected by this attack were the Government of Nunavut. The things that were affected dramatically were all of the Nunavut Government’s services, hospital services, and workstations. The location where it occurred was Nunavut, Canada. The cyberattack took place Around 4 AM on a Saturday morning, on November 2nd, 2019. By 6:30 AM, the IT staff had confirmed the attack had occurred.