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 were affected too.

1. Where did the attack come from?

The ransomwares’ location is not certain as where it came from or where the malware was installed or where it came from.

1. Why was the attack started?

The attack happened so the ransom could get money in bitcoin and other crypto currencies. They held many files hostage until they were payed and if the person did not listen then all files will be deleted.

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.

After googling ransomware attacks in 2019 I found a recent when were the people affected by this ransomware attack were the Nunavut government. All of Nunavut services were affected such as hospitals and government workplaces. This happened in a province in Canada around 4 a.m. on November 2nd, 2019. It took IT employees 2 and a half hours to comprehend and justify what happened and what type of malware it was and other important information.