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?**

* It is a software that holds and locks up one's files and demands a ransom for its safe return

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

* A ransomware will infect a computer by bypassing the computer’s security and obtaining all of the computer’s files. From here, the virus will encrypt the computer with an unbreakable password and the files will be returned when the correct password is entered. To get the password, one will have to give the hacker goods of their choice as a trade or ransom. This virus can steal all of one’s files from personal pictures to highly confidential files.

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

* One way you can be a victim of a ransomware attack is through emails. This process works by receiving a spam email that is contains a link. When one clicks on this link, they have downloaded a virus without realizing it. This virus will execute its task and hold your files as leverage.

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

* One way to prevent these attacks is by constantly keeping your computer up to date and updating it to the latest version. This will ensure that you will know if something will infect your computer as the software will check everything that enters your laptop to decrease loopholes.

**Canadian Attacks (In The Past)**

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

* A hospital bank in Oshawa, global ransom attack that affected government buildings, and major corporations from the U.K to the US, and Ontario’s health ministry

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

* Canada was not affected

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

* The U.K, the U.S, Russia, places in Europe, Poland, Italy and Germany

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

* This could have been a targeted attack on Ukraine or infrastructure that got away from the programmer.

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

* The motives of the hacker remain unknown

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

* The email provider of the suspected hacker behinds the attacks had pulled the plug on the whole malware before it became well known.

**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.**

A ransomware attack happened in Nunavut Canada. On November 1st 2019 at approximately 4:00 a.m. the attack took place on the government networks. This resulted in many files and documents being encrypted. The attack was triggered when an employee clicked the link of a malicious email or web advertisement. The ransomware was in the form of a Dopplepaymer and the Nunavut’s security team was not trained to detect it. Users attempting to access files would be confronted with a ransomware note. The government informed the public that their personal information is not at threat and also in about a week the files will be restored.