

# Unit 1 Critical Thinking Questions

---

- 1. What kinds of external and internal cyber threats have you experienced while being online? Give at least two examples of each type of threat, the conditions you were in when the threat occurred, and how you responded to the threat.**

In all honesty, I do not believe I have faced any of these kinds of threats before. I don't fully remember.

- 2. Briefly describe WikiLeaks. What is its relevance to cybersecurity? Do you think WikiLeaks actions are criminal? Are they ethical? Evaluate and explain your perspective (and if it has changed over time).**

WikiLeaks is a website where leaks and classified information is published. If you remember the Hillary Clinton emails, those were leaked on this website. It can be dangerous to cybersecurity as possibly sensitive information can be leaked onto this website. I believe that some actions on this site are criminal, and others are not. This is because some things leaked are wrong, but some are needed to be done.

- 3. What are APT Hackers? Evaluate why these hackers are some of the most dangerous. Name a real-world example from current events that represents APT hacking.**

An APT attack is a hack that occurs for an extended period of time. These kinds of hackers are the most dangerous because they make themselves hidden. They secretly attack a system, and it may take a while for the person to realize that they are a victim of this attack. Your computer may even have already been attacked, but you don't know that.

- 4. What is a botnet? Why might a malicious hacker use a botnet? Evaluate the advantage that a malicious hacker may have when using a botnet.**

A botnet is a network that consist of infected devices, which are controlled by malware. This gives a hacker an advantage because they can send larger volumes of their desired attack. For example, they could steal more credentials or spy on more people.

- 5. Based on the advances that artificial intelligence has made in recent years, how do you anticipate that AI will continue to evolve and advance in the next decade or two? Are these incredible advances in AI a positive or negative change in terms of our society as a whole? Explain.**

I believe that AI will grow to the point in which almost everything we do will involve it. Most human jobs will most likely be replaced with AI. I do not believe that this is the most positive thing for our society, especially in terms of cybersecurity. Think about it, all of your information will be stored online. With this information being stored online, it will be prone to possible hacking/stealing. In-person actions are better, as you won't face hacking when you do it online.