

Tutorial 2 – Threats and Attacks.

1. Define the below given attack types.
 - I. Active Attack –
 - II. Passive Attack –
 - III. Inside Attack –
 - IV. Outside Attack –
2. List four kinds of threats and their types of attacks and how those attacks badly causes to data and person.
3. Define the given malware terminology.
 - I. Virus –
 - II. Worm –
 - III. Logic Bomb –
 - IV. Trojan horse -
 - V. Covert channel -
4. Explain the given attacks in your own words.
 - I. Eavesdropping –
 - II. Denial of Service Attacks –
 - III. Distributed Denial of Service Attack -
 - IV. Man-in-the-Middle Attack –
5. What is a Dictionary Attack?
6. Explain how to carry out a Brute Force Attack.
7. List 4 password best practices.

Task 1 – Attack Analysis

Identify 3 Cyberattacks that have taken place within the last year. Do reading on the internet regarding them and then complete the following information about each attack. (hint : you have to select one attack happen in Sri Lanka)

- Name of attack
- Company that was attacked
- Asset
- Vulnerability that was exploited
- Suspected /confirmed threat agent
- Details on how attack as carried out.
- What was the impact of attack?
- The steps carried out by company after the attack

Task 2 – Malware Analysis

For 5 of the malware types you learned about do research and find 2 examples. For each example find the below information

1. Name
2. How it worked (including propagation and the payload)
3. What vulnerability it exploited
4. Who is responsible for the malware
5. Impact it had
6. How it was managed or removed as a threat.

Task 3 – Internet Security

Identify three popular internet security suites. Do a review of those with the focus on the features/defenses it provides and how they are implemented. Use that information to create a comparison table which compares the three suites against each other. At least 5 key features must be identified for the suites. Example table is given below

	Feature 1 (firewall)	Feature 2 (antivirus)	Feature 2 (...)
Suite 1			
Suite 2			
Suite 3			