Homework 5

1. What is the importance of cyber security in the present era?

Cyber security is no longer optional—it defends against data breaches that can lead to identity theft and corporate espionage. Governments and businesses invest heavily in security to maintain operational integrity.

2. How does AI help in improving cyber security?

AI-powered tools like intrusion detection systems (IDS) and security orchestration platforms enhance defense mechanisms by learning from past attacks and adapting to new threats dynamically.

3. Why do enterprises rely on Linux-based systems to make a secure infrastructure?

The stability, scalability, and security features of Linux, such as firewalls and encryption tools, make it the top choice for enterprises building resilient IT environments.