# LM 9. Intrusion Detection System

### Overview

The module gives an overview of different intrusion detection system. There are a lot of terms and concepts.  The learning material is mainly based on the following survey paper which included in this module as a PDF file.

Khraisat, A., Gondal, I., Vamplew, P. et al. Survey of intrusion detection systems: techniques, datasets and challenges. Cybersecur **2,** 20 (2019). <https://doi.org/10.1186/s42400-019-0038-7>

Intrusion Detection System is in Detect phase in the NITS security framework.

### To Do List

* 1. Study the learning material of this module - security frameworks. Use the learning material document and PowerPoint slides as a guide.
	2. Assignment 3 - Evaluate open source IDS systems. Must be submitted to assignment 3 dropbox by **xx.**

### Learning Outcomes

After this module, student will be able to:

* Define Intrusion Detection System and its main benefits
* Compare and contrast SIDS and AIDS
* Compare and contrast HIDS and NIDS
* Describe the techniques for the implementation AIDS
* Explain the performance metrics of IDS