

Module 5. Cloud Security

Module Learning Objectives

At a global scale, enterprises are shifting their computing model more to the cloud. This module introduces students to the security concerns related to this phenomenon.

Module Student Learning Outcomes

Upon completion of this module, students will be able to:

- Clearly define cloud computing.
- Accurately distinguish between public, private, and hybrid cloud.
- Identify security issues with cloud computing in enterprise setting.
- Describe mechanism to mitigate security threats in cloud computing.

Module design:

Submodule 1: Cloud Computing Fundamentals
• Virtualization
• Cloud services <i>SaaS, PaaS, DaaS, IaaS</i>
• Cloud deployment models <i>Private, public, community, hybrid</i>
• Cloud architecture
Submodule 2: Cloud Security
• Cloud security threats
• Cloud security measures
• IoT and security