

Infrastructure Security Concepts and Terms

Using the web, research and briefly explain the following terms:

- layered infrastructure system
- defense in depth
- (cybersecurity) best practices
- security architecture
- threat modeling
- security maturity model (a.k.a. cybersecurity or information security maturity models)

Read two or more sources for each term and write a brief explanation of the term in your own words. For each term cite your sources using APA style.

EXAMPLE

Term: “software bill of materials”

Explanation: The software bill of materials (SBOM) is a formal written record of all the software components and dependencies that are used to create a specific piece of software. The goals for SBOM are to increase software security by clearly documenting what libraries and other dependencies were used to create a particular piece of software and will assist organizations in managing their supply chain risks. The SBOM is machine readable so that it can be processed automatically.

Software security in supply chains: Software Bill of Materials (SBOM) — NIST. (2022, May 5). NIST. <https://www.nist.gov/itl/executive-order-14028-improving-nations-cybersecurity/software-security-supply-chains-software-1>

SBOM at a Glance. (2021, April 27). NTIA - United States Department of Commerce. Retrieved January 22, 2024, from https://www.ntia.gov/files/ntia/publications/sbom_at_a_glance_apr2021.pdf

Due date: Wednesday at the start of class

How to submit: Submit your assignment printed (preferred) or neatly written.