Cyber Security Body of Knowledge

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Codify foundational and generally recognised knowledge in cyber security following broad community engagement nationally and internationally.

A guide to the body of knowledge.

Focus is on established foundation of the subject (not on everything that has ever been written or on still-emerging, nascent, topics).
International effort

For the community by the community

Open and freely accessible

Transparency
110  Experts: Authors, Reviewers, Advisors
828  Pages
1839 Authoritative sources
1597 Comments from wider community
>20  Invited talks, panels and keynotes
A Living Resource

Two new Knowledge Areas
  - Formal Methods for Security
  - Applied Cryptography

Revised Knowledge Area
  - Network Security

Minor updates to some other KAs

Open call for comments/updates
CyBOK Use Cases

1. Categories of Vulnerabilities

As discussed in the Introduction, we use the term implementation vulnerability (sometimes also called a security bug) both for bugs that make it possible for an attacker to violate a security objective, as well as for classes of bugs that enable specific attack techniques. Implementation vulnerabilities play an important role in cybersecurity and come in many forms. The Common Vulnerabilities and Exposures (CVE) is a publicly available list of entries in a standardised form describing vulnerabilities in widely-used software components, and it lists close to a hundred thousand such vulnerabilities at the time of writing. Implementation vulnerabilities are often caused by insecure programming practices and influenced by the programming language or APIs used by the developer. This first topic covers important categories of implementation vulnerabilities that can be attributed to such insecure programming practices.
CyBOK Use Cases

- Traceably meeting certification requirements
- Contrasting different programmes
- Knowledge requirements for job roles
- Benchmarking capacity

CyBOK Mapping Framework

- Key Words or Phrases (KWoPs)
- Additional Lookup Mechanisms
- CyBOK Mapping Reference
- Tabular Representation
- Knowledge Tree
- Knowledge Area (Detailed Text)
cybok.org in 2020

~3.84M Total 2020 website hits
Monthly average: 349.5K
Daily average: 11.5K

>377K Total downloads

>291K Downloads of CyBOK 1.0