The main objective of security testing is to check the weaknesses of the implemented security mechanism. It is done for finding the vulnerabilities of a system and to determine whether the system is protected from intruders or not. Security testing can be done prior to production or after the production of the system. But, if the security testing is done after the production, then cost will be more and the huge amount of rework will be required to remove the problems. Also the time between the vulnerability is get known and the malicious attack against it, is becoming less. Therefore it is required to include the security testing in the early phases of software development life cycle. The present paper deals with the review of software security testing approaches and techniques proposed so far. The review is presented in a categorized way and tabulated for the last one and half decade (2000-2015).

References


Index Terms

Computer Science

Software Engineering

Keywords

Security testing, software development life cycle, SDLC phase