

Research on web application security testing using the OWASP ZAP tool

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Abstract: This topic focuses on analyzing and evaluating the security testing capabilities of web applications using the OWASP ZAP tool. The origin of the topic stems from the practical need to ensure information security for rapidly developing online applications. The main objective is to identify and mitigate security risks through automated testing processes. The research methodology includes experimentation with OWASP ZAP to build an effective testing procedure, while also comparing results with other methods. The expected outcome is to provide developers and IT managers with a powerful tool to protect web systems from cyber attacks.

Keywords: OWASP ZAP, Security testing, Web application, Security tool, Testing process