Cross Site Request Forgery: Preventive Measures

Abstract

Cross Site Request Forgery is considered as one of top vulnerability in today’s web, where an untrusted website can force the user browser to send the unauthorized valid request to the trusted site. Cross Site Request Forgery will let the integrity of the legitimate user. So far many solutions have been proposed for the CSRF attacks such as the referrer HTTP Header, Custom HTTP header, Origin Header, client site proxy, Browser plug-in and Random Token Validation. But existing solutions is not so immune as to avoid this attack. All the solutions are partially protected only. This paper focuses on describing the implementation of various possible cross site request forgery methods and describing the pitfalls in the various preventive techniques of cross site request forgery and so we suggested some defense mechanism to prevent this vulnerability.

References

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Index Terms

Computer Science

Security
Keywords

Security threats  Security breaches  Browser security  Forgery prevention
Defense mechanisms

Open web application security