Abstract

Social Networking System (SNS) like Facebook and Twitter have gained more popularity in this new era. It allows millions of individuals to create online profiles and share their personal information with vast networks of friends. SNS allows third-party extensions to access the user's information through Application Programming Interface (API). Since millions of users are using these sites it will lead to privacy problems and leakage of private information. This leakage happens without the knowledge of the user, which leads to security problems like identity theft and phishing attack. Unknown user taking the information without our knowledge is called inference attack. This paper uses a permission-based protection mechanism which limits the direct access of user data. Once an extension is certified by the user to access data from user's profile, then there is no more control on how it uses the data. Third-party application can be built on trusted or untrusted server. If it is an untrusted server it will lead to inference attack and malicious user may use the information for unintended purposes and our data will be at risk. The main objective of this project is to enable the security access control scheme against inference attack.
References

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Index Terms

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