

ABSTRACT

In today's digital era, users are increasingly accessing countless number of applications every day. In order to use those applications the authentication is a main challenge. For accessing these services, the users first have to authenticate themselves and need to maintain a separate set of username and password for each application. This led to the development of Single Sign-On (SSO) is a session and user authentication service that permits a user to use one set of login credentials (e.g., username and password) to access multiple applications and also implement a data tracking feature in which user can view what kind of data to be taken by client from SSO database. As proposed by methodology communication between oauth server and client were enhanced by the use of RSA algorithm which helps to generate the token by the server which is signed by the provider's private key and it will be verified using their public key then only client request will be processed. It has proper solution for enterprises and organizations of all sizes, as it streamlines the management of various usernames and passwords, increases productivity, and minimizes administrative overhead. This methodology shows a way to keep tracking the data which is taken by oauth client, thus the process get secured and authorized.