Secure Inter-Cloud Federated Identity Management using IID

Abstract

The proposed system support single sign on in inter-cloud environment where user can manage in different cloud environments and provide single set of credential to access different Saas cloud application provided by different cloud service provider without re-authentication. Single sign on defines the ability to authenticate only once in a distributed network and to access several protected services and resources without re-authentication. To achieve this feature the system support federated identity management system. The federated identity management system crosses organizational boundaries. To manage identities of user in this case, a cooperative contract need to be set up between multiple identity providers, using a centralized approach. The proposed system uses third party auditor or third cloud to synchronize the identities of user among different clouds. As the user data are transferred or exchanged between different clouds environment the chances of stealing the data is increased. To avoid this the system is secure from some attacks like identity theft, denial of service etc. and also secure channel is maintained to transfer/exchange information between different clouds.
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References

2. “Secure Inter-cloud SSO (SSO) using IIDs” by Bernd wattendorfer, Arne Tauber E-Government Innovation Center (EGIZ) Graz University of Technology Graz, Austria.

Index Terms

Computer Science Security

Keywords

SSO, Authorization, Authentication, Re-authentication, Cloud environment, IID, Electronic
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identification, federated identity management, identity federation.