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.
Secure Inter-Cloud Federated Identity Management using IID

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
identification, Federated identity management, Identity federation.