Abstract

Absence of architecture to describe how to implement authorization as a centralized service, in a way similar to authentication, has been causing redundant deployment of computing resources, lack of standard practices, and never-ending learning curve in maintaining proprietary or ad hoc authorization solutions. The paper develops an architecture, which focuses on centralization of authorization, to be called Centralized Authorization Service (CAuthS) or Authorization as a Service (AuthaaS), when deployed as a service, and is targeted to substitute platform-based ad hoc authorization solutions.

References

- Paul Moritz Cohn, Universal algebra. : Springer, 1981.
- Patricia P Griffiths and Bradford W Wade, "An authorization mechanism for a relational database system," ACM Transactions on Database Systems (TODS), vol. 1,
- Timothy S Dare, Eric B Ek, and Gary L Luckenbaugh, "Method and system for authenticating users to multiple computer servers via a single sign-on," 5,684,950, Nov. 4, 1997.
- Ted Kremenek, Paul Twohey, Godmar Back, Andrew Ng, and Dawson Engler, "From uncertainty to belief: Inferring the specification within," in Proceedings of the 7th symposium on Operating systems design and implementation, 2006, pp. 161--176.
Centralized Authorization Service (CAuthS) or Authorization as a Service (AuthaaS)—A Conceptual Architecture

- Andrew Kennedy and Don Syme, &quot;Design and implementation of generics for the .net common language runtime,&quot; in ACM SigPlan Notices, 2001, pp. 1--12.
- Steven Roman, Steven M Roman, and Steven M Roman, Advanced linear algebra. : Springer, 2005.
- Tim Berners-Lee, Dan Connolly, and Ralph R Swick, &quot;Web architecture: Describing and exchanging data,&quot; WWW-address: http://www. w3. org/1999/04/WebData, 1999.

Index Terms

Computer Science
Information Sciences

Keywords

Computer security  access control  authorization  context type mapping  strategy