

Titre : Access control policies modeling, representation and analysis.  
Politiques de contrôle d'accès : modèles, représentation et analyse.

Abstract :

Access control is a fundamental aspect of computer security; it aims at protecting resources from non-authorized users. The generalized use of access control in modern computing environments has increased the need for high-level declarative languages that enable security administrators to specify a wide range of policy models.

In this talk we introduce the main notions of access control and define a declarative meta-model, called CBAC, able to subsume many of the most well-known access control models (e.g., MAC, DAC, RBAC).

We also design a graphical representation of CBAC policies that aims at easing the specification and verification tasks for security policy administrators. Using such representation of policies, answers to usual administrator queries can be automatically computed, and several properties of access control policies checked.

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