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| Autore | Hu Vincent |
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| Descrizione fisica | 1 online resource (285 pages) |
| Collana | Artech House information security and privacy series |
| Disciplina | 005.8 |
| Soggetti | Computer security Computers - Access control Computer networks - Access control |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Attribute-Based Access Control; Contents; Preface; Acknowledgements; Intended Audience; 1 Introduction; 1.1 Overview; 1.2 Evolution and Brief History of Access Control; 1.2.1 Academic Contributions; 1.2.2 Military Concerns; 1.2.3 Bell and LaPadula Security Model; 1.2.5 Discontent; 1.2.6 Role-based Access Control; 1.2.7 Emergence of ABAC; References; 2 Access Control Models and Approaches; 2.1 Introduction; 2.2 Terminology; 2.3 Access Control Models and Policies; 2.4 Policy Enforcement; 2.5 Discretionary Access Control; 2.6 Mandatory Access Control Models; 2.6.1 Multilevel Security 2.6.2 Chinese Wall Policy and Model2.6.3 Role-Based Access Control; References; 3 Attribute Based Access Control; 3.1 Introduction; 3.2 ABAC Architectures and Functional Components; 3.3 Logical-Formula and Enumerated ABAC Policy Models; 3.4 ABAC Model-Applications Primitives; 3.5 Hierarchical Group and Attribute-Based Access Control; 3.6 Label-Based ABAC Model with Enumerated Authorization Policy; 3.7 Hybrid Designs Combining Attributes with Roles; 3.8 ABAC and RBAC Hybrid Models; 3.9 Complexities of RBAC Role Structures; 3.10 Complexities of ABAC Rule Sets; 3.11 Dynamic Roles 3.12 Role Centric Structure3.13 Attribute Centric Structure; 3.14 Conclusion; References; 4 ABAC Deployment Using XACML; 4.1 Introduction; 4.2 Business and Technical Drivers for XACML; 4.3 XACML |

Standard-Components and Their Interactions; 4.3.1 XACML Policy Language Model; 4.3.2 XACML Context (Request and Response); 4.3.3 XACML Framework (Data Flow Model); 4.4 ABAC Deployment Using XACML; 4.4.1 Access Policy Formulation and Encoding; 4.4.2 Request/Response Formulation; 4.4.3 Policy Evaluation and Access Decision; 4.5 Implementation of XACML Framework; 4.5.1 Attribute Support and Management
4.5.2 Delegation
4.6 Review and Analysis; References; Appendix A; 5 Next Generation Access Control; 5.1 Introduction; 5.2 Policy and Attribute Elements; 5.3 Relations; 5.3.1 Assignments and Associations; 5.3.2 Prohibitions Denials; 5.3.3 Obligations; 5.4 NGAC Decision Function; 5.5 Delegation of Access Rights; 5.6 NGAC Administrative Commands and Routines; 5.7 Arbitrary Data Service Operations; 5.8 NGAC Functional Architecture; 5.8.1 Resource Access; 5.8.2 Administrative Access; 5.9 Conclusion; References; 6 ABAC Policy Verifications and Testing; 6.1 Introduction; 6.2 ABAC Policy Classes 6.2.1 Static Policy Class 6.2.2 Dynamic Policy Class; 6.2.3 Historical Policy Class; 6.3 Access Control Safety and Faults; 6.4 Verification Approaches; 6.4.1 Model Verification; 6.4.2 Coverage and Confinements Semantic Faults; 6.4.3 Property Confinement Checking; 6.4.4 Implementation Test; 6.5 Implementation Considerations*; 6.6 Verification Tools; 6.6.1 Multiterminal Binary Decision Diagrams; 6.6.2 ACPT; 6.6.3 Formal Methods; 6.7 Conclusion; References; 7 Attribute Consideration; 7.1 Introduction; 7.2 ABAC Attributes; 7.3 Consideration Elements; 7.4 Preparation Consideration

Sommario/riassunto

This comprehensive new resource provides an introduction to fundamental Attribute Based Access Control (ABAC) models. This book provides valuable information for developing ABAC to improve information sharing within organizations while taking into consideration the planning, design, implementation, and operation. It explains the history and model of ABAC, related standards, verification and assurance, applications, as well as deployment challenges. Readers find authoritative insight into specialized topics including formal ABAC history, ABAC's relationship with other access control models, ABAC model validation and analysis, verification and testing, and deployment frameworks such as XACML. Next Generation Access Model (NGAC) is explained, along with attribute considerations in implementation. The book explores ABAC applications in SOA/workflow domains, ABAC architectures, and includes details on feature sets in commercial and open source products. This insightful resource presents a combination of technical and administrative information for models, standards, and products that will benefit researchers as well as implementers of ABAC systems in the field.

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| 2. Record Nr. | UNINA9910557203803321 |
| Autore | Dammak Lasaad |
| Titolo | In-Depth on the Fouling and Antifouling of Ion-Exchange Membranes |
| Pubbl/distr/stampa | Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021 |
| Descrizione fisica | 1 online resource (218 p.) |
| Soggetti | Technology: general issues |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Sommario/riassunto | <p>The use of ion-exchange membranes (IEMs) has accelerated over the past two decades in a wide variety of industrial processes (electrodialysis, electro-electrodialysis, electrolysis, dialysis, etc.) for applications related to chemical, pharmaceutical and food industries, energy production, water treatments, etc. Organic and mineral fouling (or scaling) phenomena are two major factors limiting the efficiencies of IEMs processes and performances (reduction of the IEMs selectivity and stability, increase of their electrical resistance, deduction of the energy efficiency of the process, etc.) leading to significant economic losses. The current washing, cleaning and sterilization processes (anti-fouling treatments) make it possible to recover some of the IEMs performances, but frequently induce degradation on the membrane material. Another essential point in the fouling studies is the choice of the best and appropriate analysis and diagnostic technique to evaluate this or that magnitude, or observe this or that object on the surface or in the mass of the membrane. This book is focused on recent advancements in techniques for diagnosing and characterizing the fouling effects on membranes, in mechanisms governing this complex phenomenon, and in the various innovative and economically viable solutions for reducing fouling.</p> |