

NEW!

Essential information on the current state of identity management

MECHANICS OF USER IDENTIFICATION AND AUTHENTICATION

Fundamentals of Identity Management

IDENTITY MATCH

Dobromir Todorov

Security Consultant, United Kingdom



Investigates user identification and authentication issues and challenges

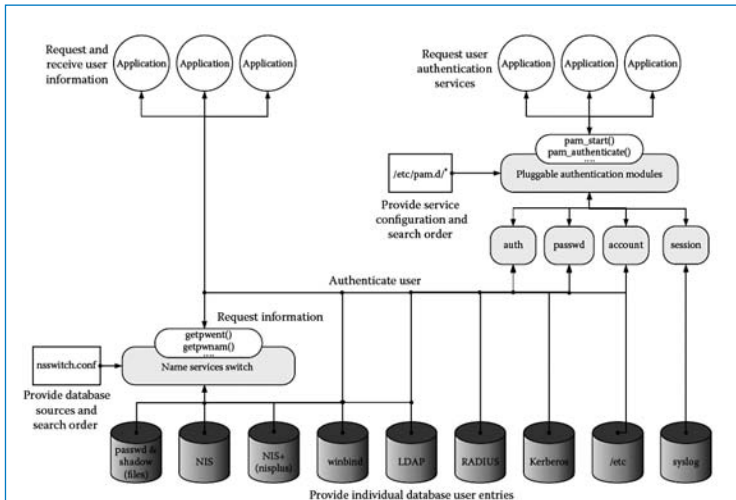
User identification and authentication are essential parts of information security. Users must authenticate as they access their computer systems at work or at home every day. Yet do users understand how and why they are actually being authenticated, the security level of the authentication mechanism that they are using, and the potential impacts of selecting one authentication mechanism or another?

Introducing key concepts, **Mechanics of User Identification and Authentication: Fundamentals of Identity Management** outlines the process of controlled access to resources through authentication, authorization, and accounting in an in-depth, yet accessible manner. It examines today's security landscape and the specific threats to user authentication. The book then outlines the process of controlled access to resources and discusses the types of user credentials that can be presented as proof of identity prior to accessing a computer system. It also contains an overview on cryptography that includes the approaches and terms required for understanding how user authentication works.

This book provides specific information on the user authentication process for both UNIX and Windows. Addressing more advanced applications and services, the author presents common security models such as GSSAPI and discusses authentication architecture. Each method is illustrated with a specific authentication scenario.

Features

- Addresses the advantages and disadvantages of different user authentication strategies
- Demonstrates how to match user authentication and access needs with the needs of the organization
- Presents specific information on the implementation of user authentication protocols with different systems
- Includes case studies that illustrate practical applications



UNIX user authentication overview.

Contents

USER IDENTIFICATION AND AUTHENTICATION CONCEPTS

Security Landscape
 Authentication, Authorization, and Accounting
 Threats to User Identification and Authentication
 Authentication Credentials
 Enterprise User Identification and Authentication Challenges
 Authenticating Access to Services and the Infrastructure
 Delegation and Impersonation
 Cryptology, Cryptography, and Cryptanalysis

UNIX USER AUTHENTICATION ARCHITECTURE

Users and Groups
 Simple User Credential Stores
 Name Services Switch (NSS)
 Pluggable Authentication Modules (PAM)

See reverse side for continued contents

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ISBN: 978-1-4200-5219-0, \$79.95 / £44.99



Auerbach Publications
 Taylor & Francis Group

The UNIX Authentication Process
 User Impersonation
 Case Study: User Authentication
 Against LDAP
 Case Study: Using Hesiod for User
 Authentication in Linux

WINDOWS USER AUTHENTICATION ARCHITECTURE

Security Principals
 Stand-Alone Authentication
 Windows Domain Authentication
 Federated Trusts
 Impersonation

AUTHENTICATING ACCESS TO SERVICES AND APPLICATIONS

Security Programming Interfaces
 Authentication Protocols

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 FTP Authentication
 HTTP Authentication
 POP3/IMAP Authentication
 SMTP Authentication
 LDAP Authentication
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AUTHENTICATING ACCESS TO THE INFRASTRUCTURE

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 Centralized User Authentication

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