



Identity orchestration

- Rita Fernández-Catuxo Ortiz
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Concepts

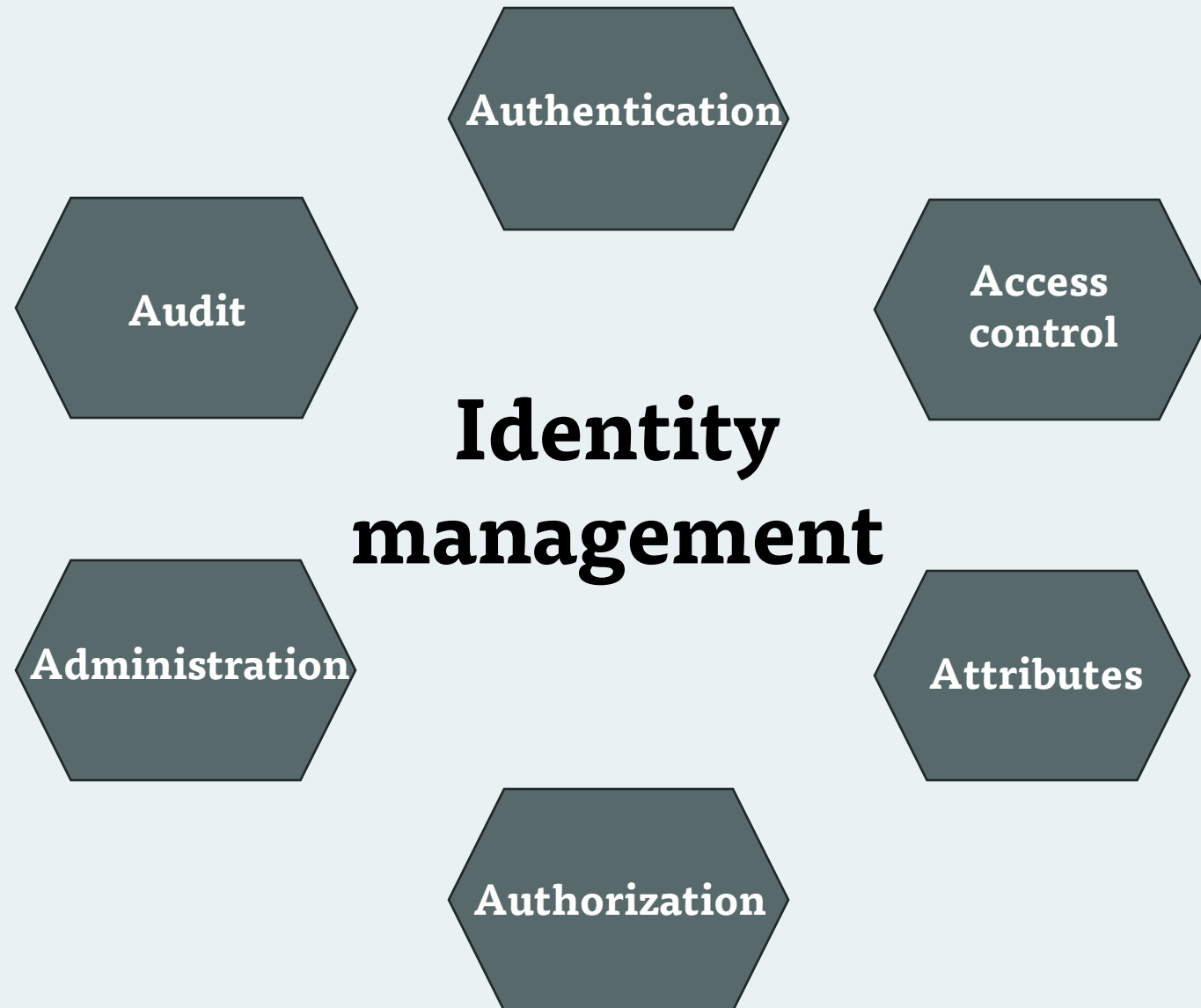
- Introduction
- Characteristics
- Audition and Emerging Tools

Introduction

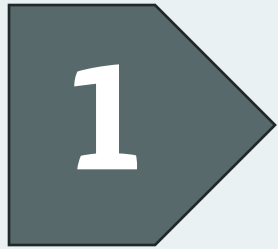
- What is identity orchestration?
 - It is a new software approach for managing distributed identity and access management
- What is identity management?
 - Manage what users can access and what they can do inside of an application



The six **A**'s model



Use cases



Modernization



Legacy Authentication

Modernization

- Problem ❓ Move your applications to the cloud
- Solution ❓ **Abstraction layer**



Modernizing Legacy Authentication

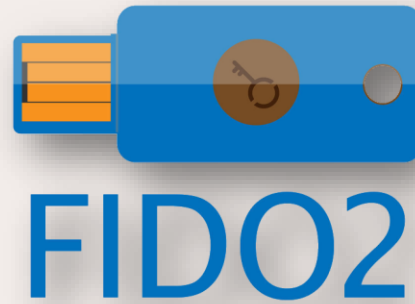
Problem: password dependency in legacy applications

- Alternative solutions:
 - Pass keys
 - Multi-factor authentication
 - Tokens
- Final solution ☐ **Abstraction layer:**
 - Enhances security
 - Ensures compliance
 - Mitigates the risk of credential compromise associated with passwords



Part 2: Characteristics

Standards



API's availability and Modern Identity



Architectures

SOAP – the old way

Restful – lighter, easier, escalable and faster



Identity management standards

SCIM – How to create, read, update and delete identities



Authentication methods

OAuth2.0

OpenID Connect

Automation Aspects of identity orchestration

- Runtime Identity Orchestration
- Administrative Automation
- Sequence administration tasks
- Integration with identity providers
- Data Encryption and Sovereignty



Security Concerns and Segregation of User Information

- Segregation of User Information – Regional separation
- Data Privacy and Security – connective layer
- Automation for Security – sequence and coordination
- Compliance with regulations - facilitator



Simplicity vs Complexity

Simplicity

- User experience
- Integration
- Efficiency
- Consistency

Complexity

- Diverse Systems
- Customization
- Scalability
- Security Challenges

Part 3: Audition and Emerging Tools

Enhancing your presentation

Auditing capabilities with orchestration.



- Old auditing mechanisms still remain
- New layer gives centralization of the data of providers
- Deeper knowledge on user activity

Implementing and Deployment

Is it good for a small project?

Record is less than 10 mins

What if it is a big Project?

Live in five



Example a Project with 5 id providers and 200 services

Emerging Trends

- Biometrics



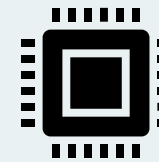
- Mobile pass



- Hardware token



- Blockchain



Emerging Trends

Artificial Intelligence



- Deployment of the Identity Orchestration Services
- Security and watching the system
- Prevention of threats

Thank you

...any question?

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