

**A Prologue to**  
Enumerated Authorization Policy ABAC Model.

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# Recap

- Attribute

*noun*

*/ˈatrɪb.jʊt/*

1. a quality or feature regarded as a characteristic or inherent part of someone or something.

- Example of attributes

- What is not an attribute?

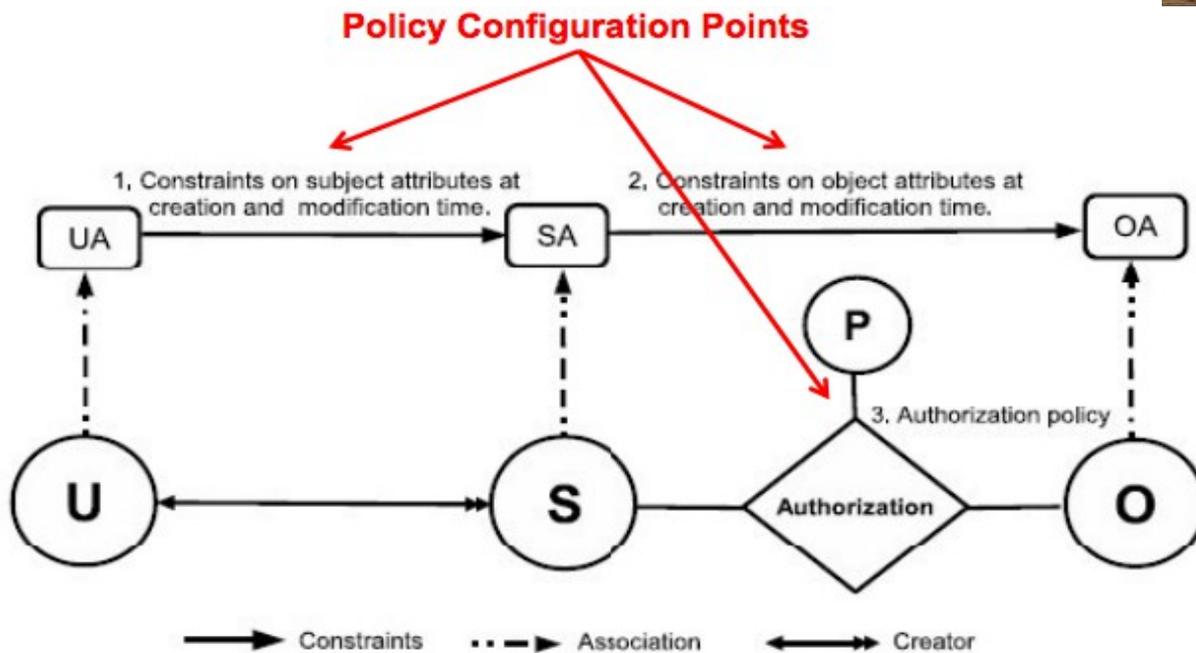
# Recap

- Attribute based policy



# Recap

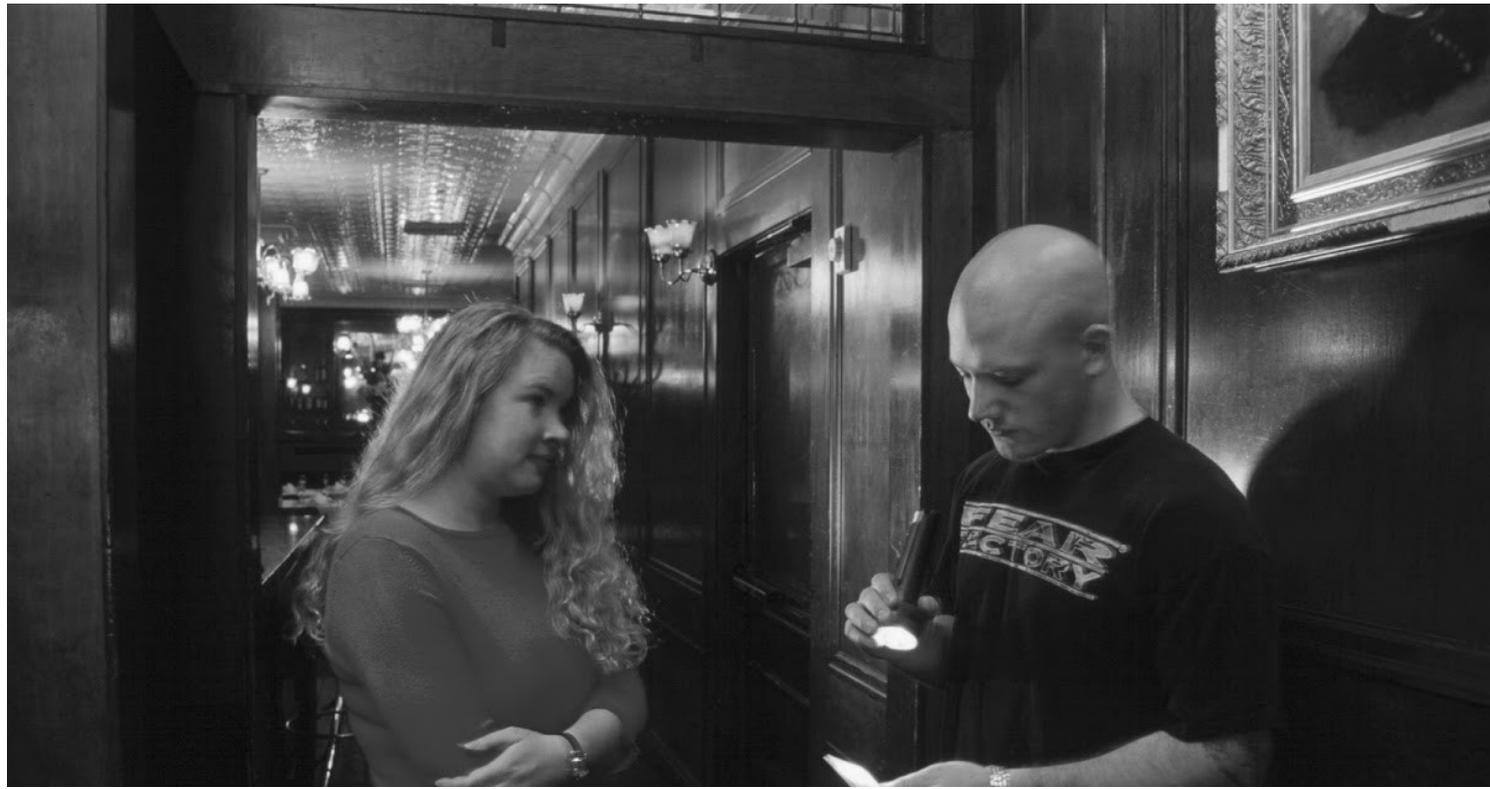
- Attribute Based Access Control (ABAC)



# Why ABAC?

- Pseudo Identity
- Privacy

“Beautiful lady at the bar” problem



# Why ABAC?

- Establishment of the missing link
- Eliminating human from the loop

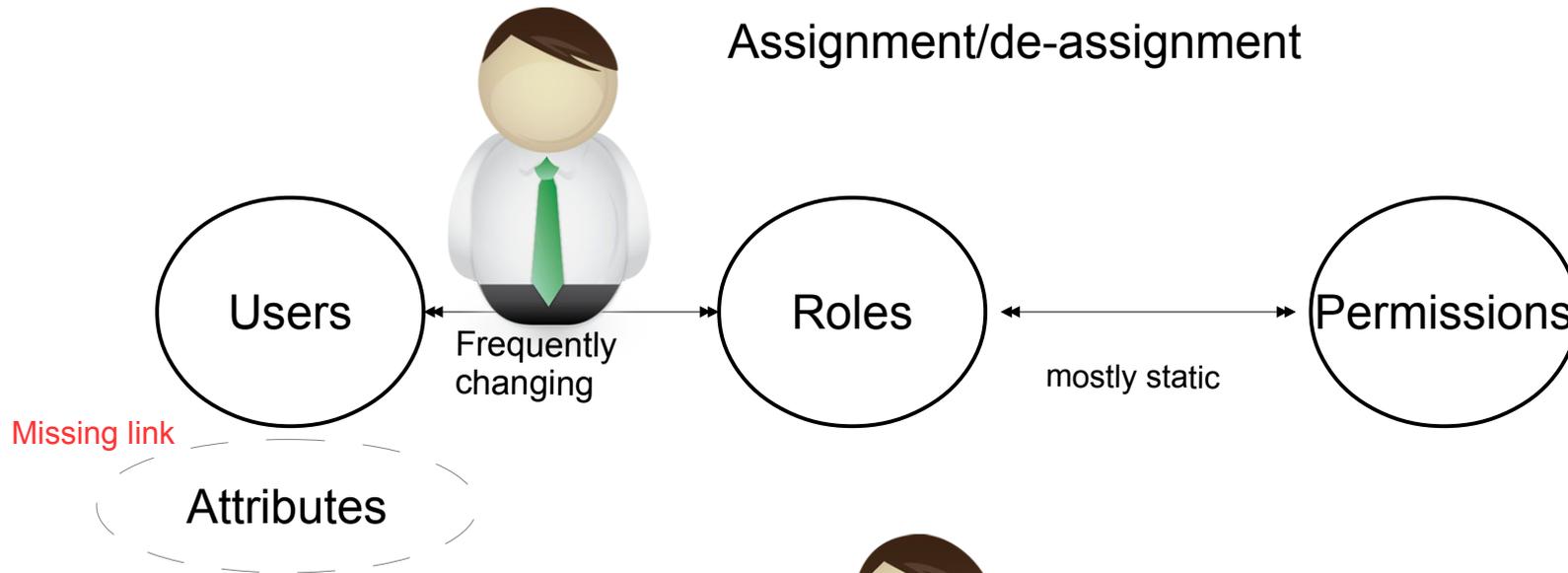


Figure 1:  
RBAC

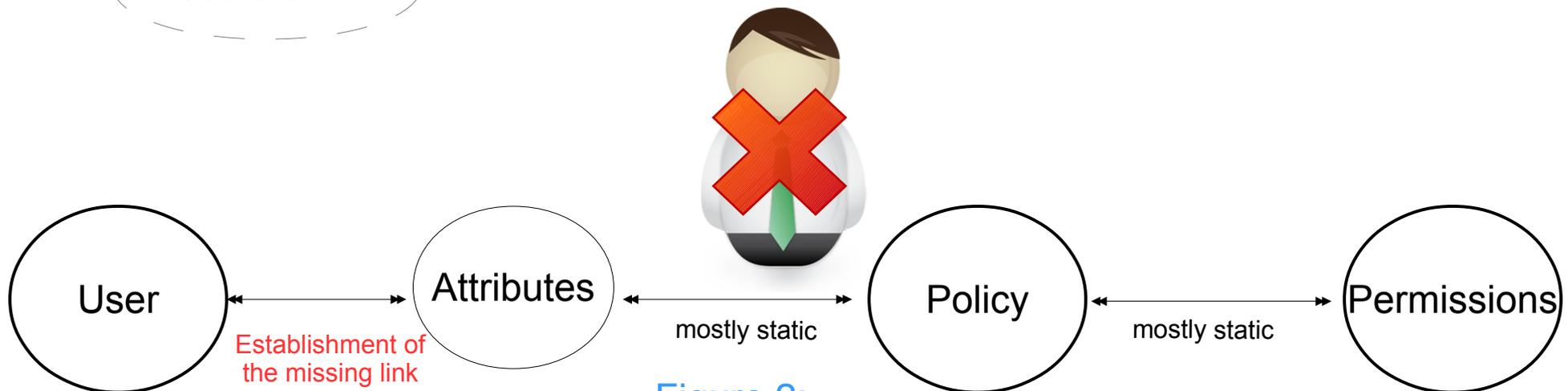


Figure 2:  
ABAC

# Problem in the adaption of ABAC

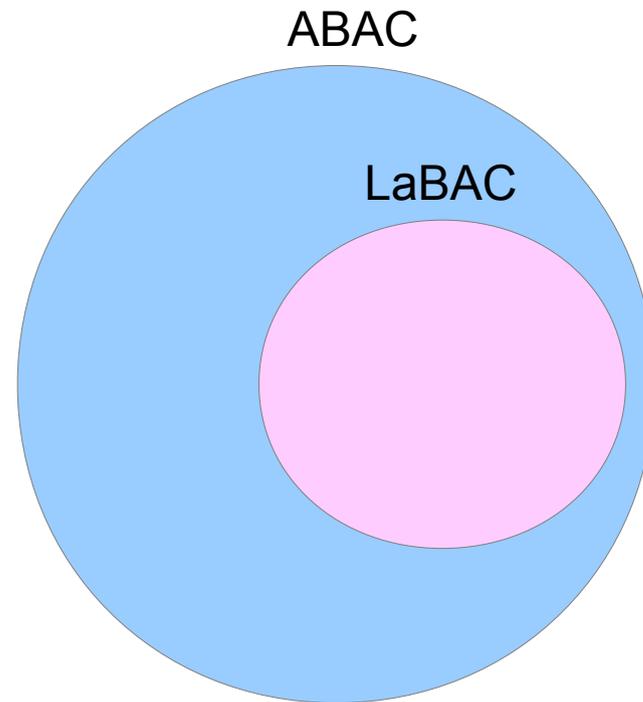
- Performance
  - Large set of attributes
  - Different attribute sources
  - Unstructured policy

References:

[1] <http://security.stackexchange.com/questions/37276/what-are-the-advantages-disadvantages-of-attribute-based-access-control>

# LaBAC restricts ABAC

- Restrict number of attributes
- Restrict policy structure



Label-Based Access Control:

An ABAC Model with Enumerated Authorization Policy.

# Terminologies

- Label
- Enumeration

enumeration  

Also found in: [Thesaurus](#), [Legal](#), [Acronyms](#), [Encyclopedia](#), [Wikipedia](#).

e·nu·mer·ate  (ĩ-nōō'mə-rāt', -nyōō'-)

*tr.v.* e·nu·mer·at·ed, e·nu·mer·at·ing, e·nu·mer·ates

1. To count off or name one by one; list: *A spokesperson enumerated the strikers' demands.*
2. To determine the number of; count.