

SaTC: CORE: Small: An Attribute-based Insider Threat Mitigation Framework

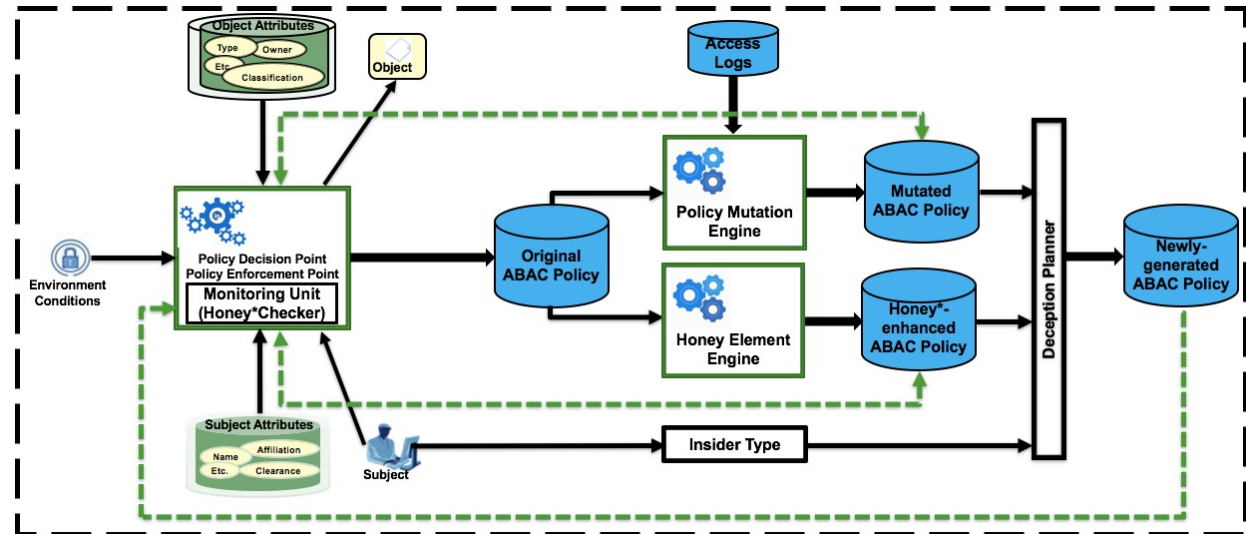


Challenge:

- The “insider threat” has long been a prime security concern
- considered the most difficult problem to deal with
- The threat of insider activities continues to be of paramount concern

Solution:

- leverage moving target defense (MTD) techniques based on attribute-based access control (ABAC) model
- foundation for defensive deception
- integrate active deception and moving target defense into ABAC model



Scientific Impact:

- novel analysis, design techniques, and toolkits to better protect our critical assets from insider threat and unauthorized access
- provide enterprises with proactive countermeasures for insider threats
- laying a scientific foundation for defensive deception

Broader Impact and Broader Participation:

- improve organizations' preparedness to thwart insider threats
- involve both graduate and undergraduate students, contributing to a strengthened relationship between education and research

Award #: 2006329

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