

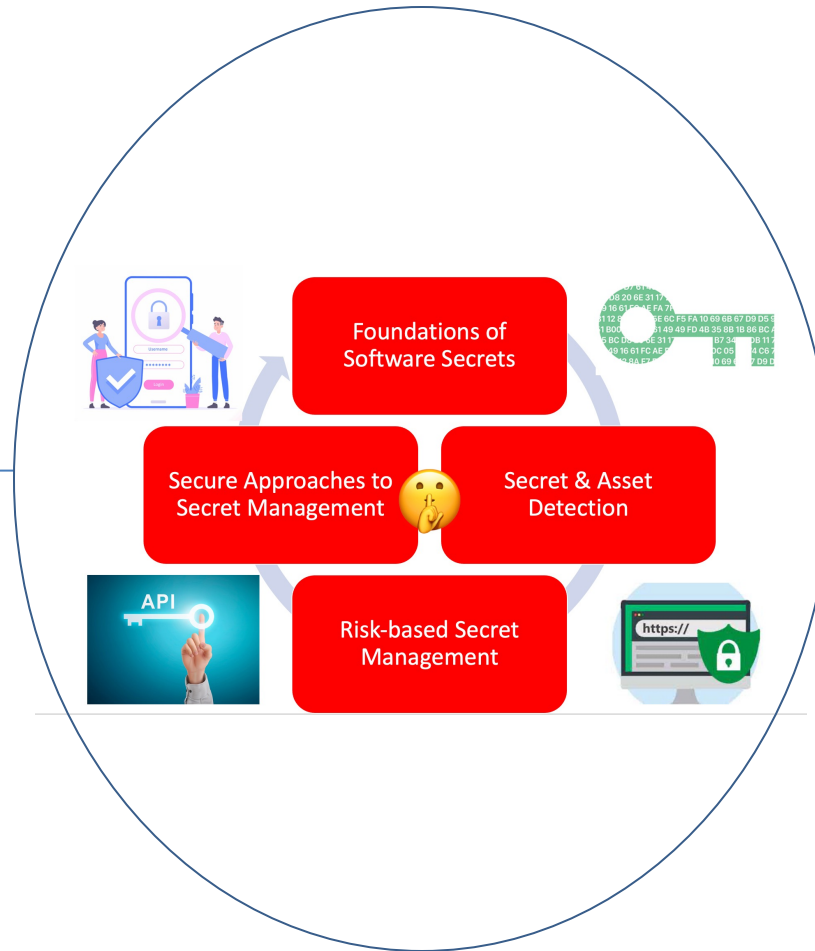
SaTC: CORE: Small: Risk-based Secure Checked-in Credential Reduction for Software Development

Challenge:

- Improper storage of secrets creates the very real hazard that they will be leaked to the public or to insider threats

Solution:

- Static analysis for secret and asset protection
- Risk-based prioritization of eradication of already check-in secrets
- Design approaches for securely handling secret use and sharing



Scientific Impact:

- Scientific understanding of secret management and developer decisions
- Automated secret and asset detection tools

Broader Impact and Broader Participation:

- More secure systems to perform critical functions and to process, store, and communicate sensitive information securely
- Educational resources
- Participation of underrepresented students