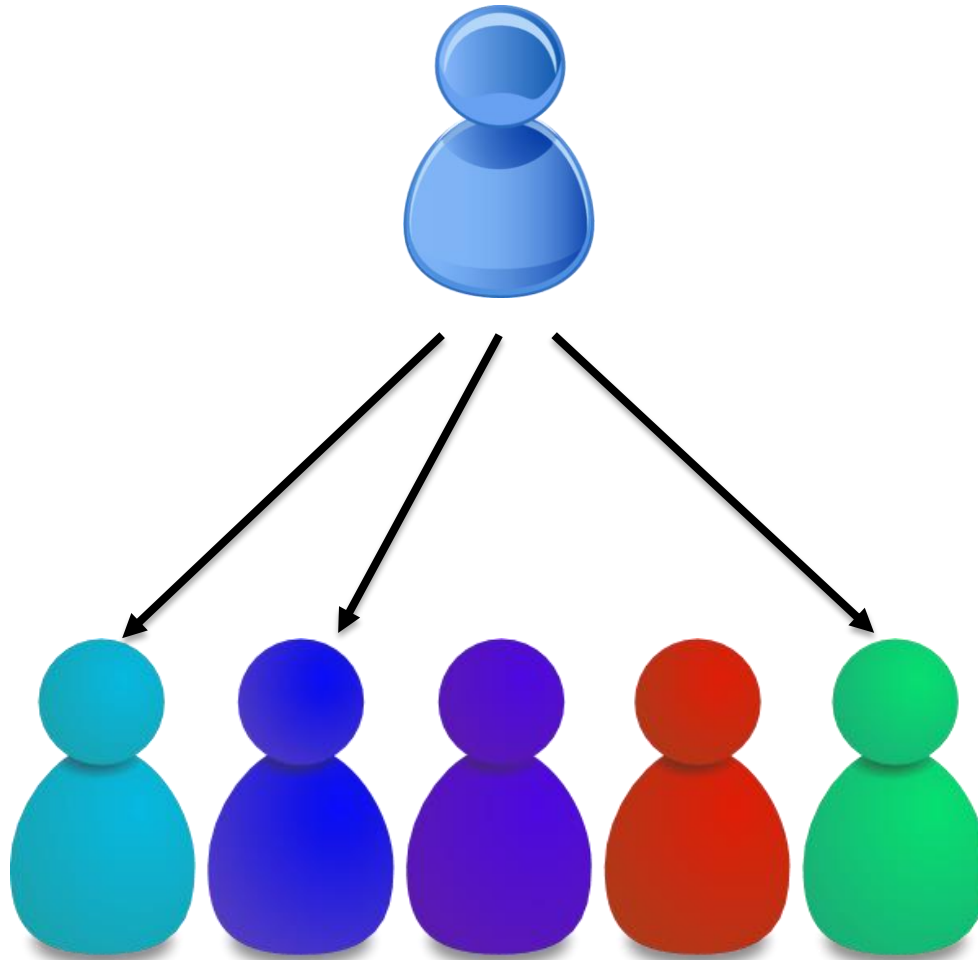


# Content Decryption Module

Mehdi Louati, Seifeddine Fathalli, Franck Russel, Iwailo Denisow, Daniel Kraus

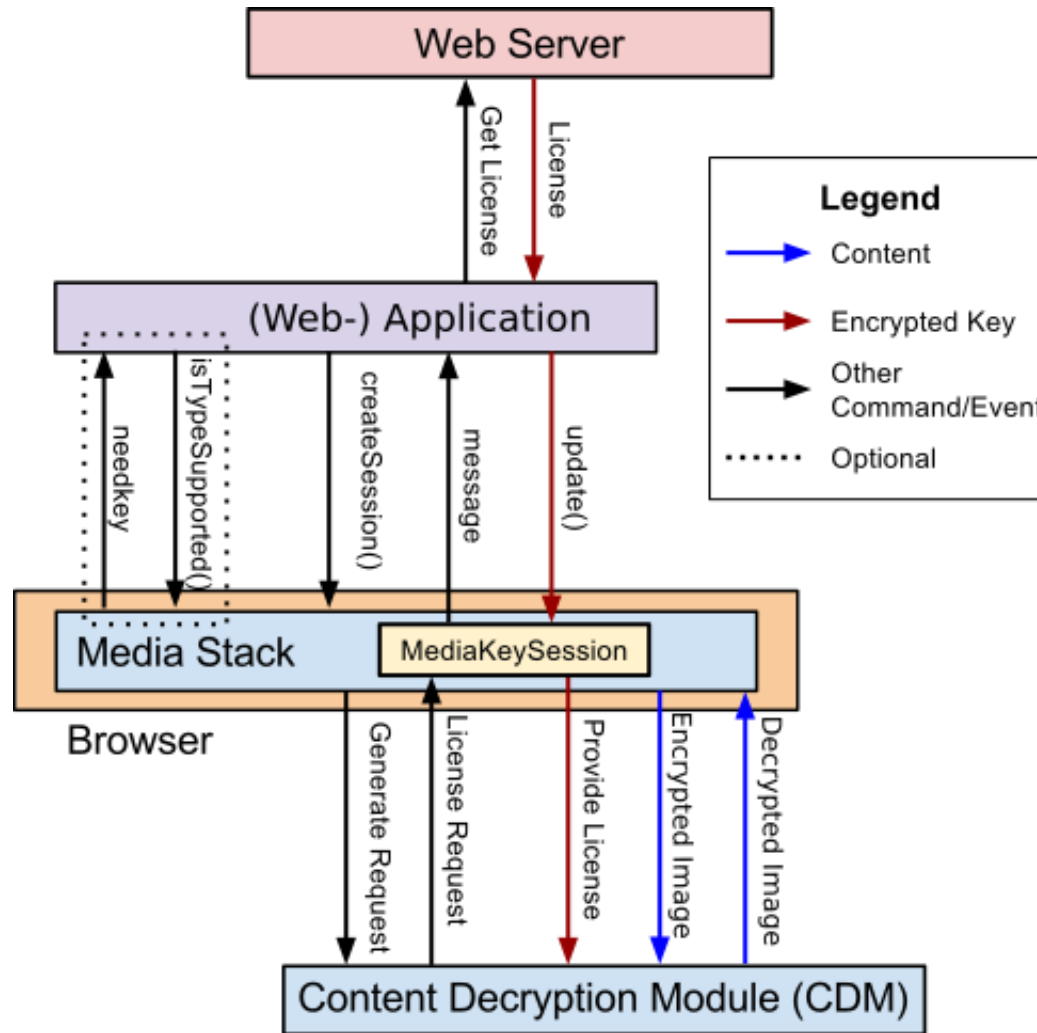
# Scenario



# Motivation and Goals

- Share image galleries encrypted
- Users themselves can assign access
- No easy access to decryption keys/decrypted data

# EME Architecture



# Tasks

- Review existing code
- Build Chromium/OCDM
- Modify OCDM to support images encrypted with AES
- Build web application to display decrypted images
- Integrate Attribute-based encryption (ABE)
- (Optional) Integrate DHT-ABE

# Attribute-based Encryption

Encryption policy: ((employee and berlin) or boss)

Private Key A	Private Key B	Private Key C
employee	employee	boss
berlin	hamburg	munich

# Progress and Difficulties

- Build Chromium
  - Uses custom tools
- Build OCDM
  - Tests fail
- Possible problem: Image support in EME API

# Project Plan

Task	Begin Date	End Date
Review Existing Code	04.05.	01.06.
Build Chromium	04.05.	25.05.
Build and test OCDM/EME for suitability	04.05.	01.06.
Investigate alternatives of EME	04.05.	01.06.
Create custom module/adapt OCDM	02.06.	06.07.
Build web application	23.06.	06.07.
Integrate ABE	23.06.	06.07.
Finish prototype		10.07.
Documentation	04.05.	...