Lanka Education and Research Network

Federated Identity Management

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Kandy, Sri Lanka

Senevi Herath
(LEARN)

Overview

- Basics

- Why participate?

- Traditional vs federated identity management

- Fundamental components

- Road map

Identity Management

- Definitions

  ‣ Identity Management

    - *The lifecycle of an identity*

  ‣ Identity

    - *Name or label of a noun*

    - *May have associated attributes*

    - *Identity of somebody*

  ‣ Authentication

    - *Verification of identity owner*

  ‣ Authorization

    - *Capability assigned to identity*

Federated Identity Management
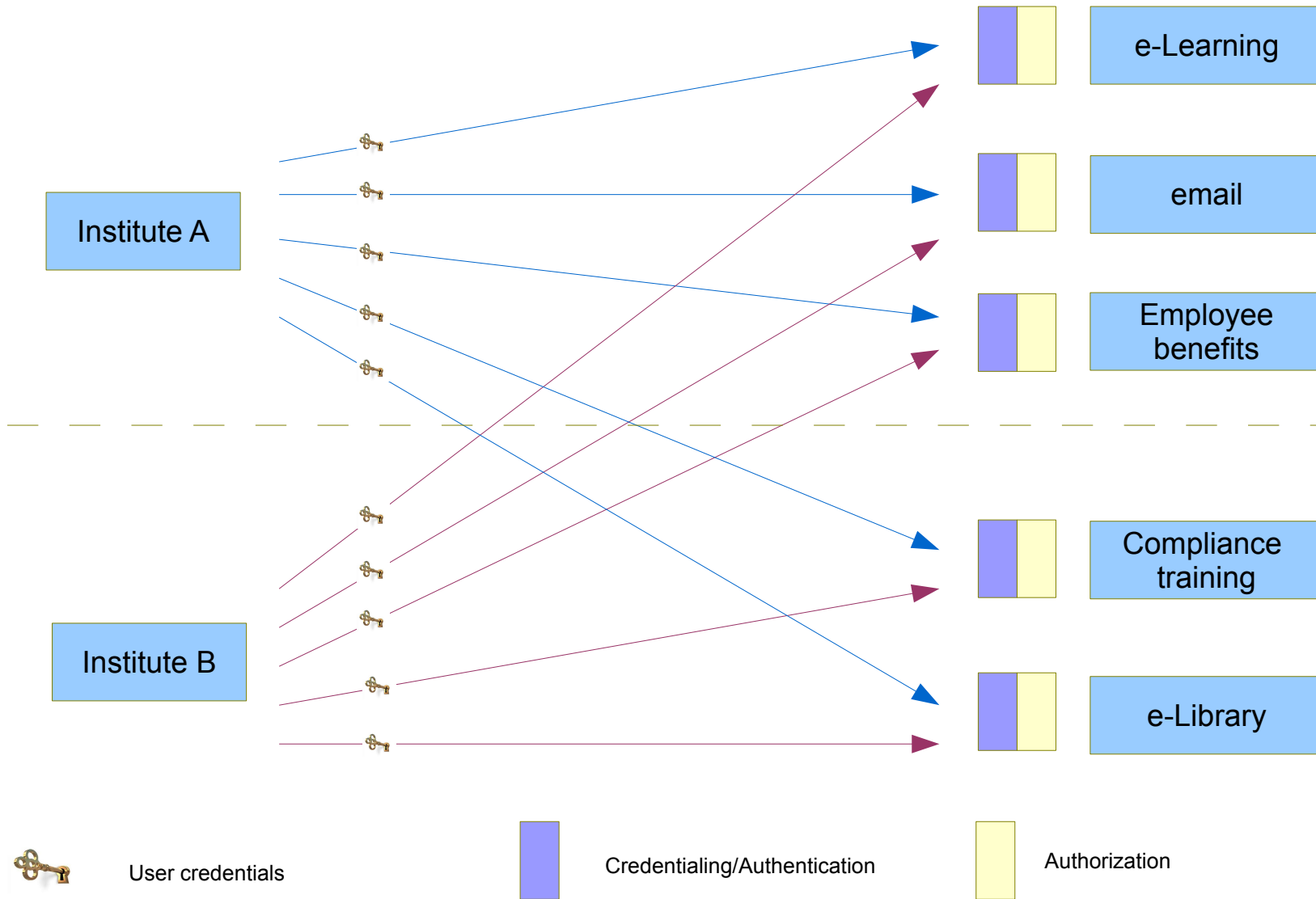
- Federated Identity Management

Federation Operator

Service Provider
(SP)

Identity Provider
(IP)
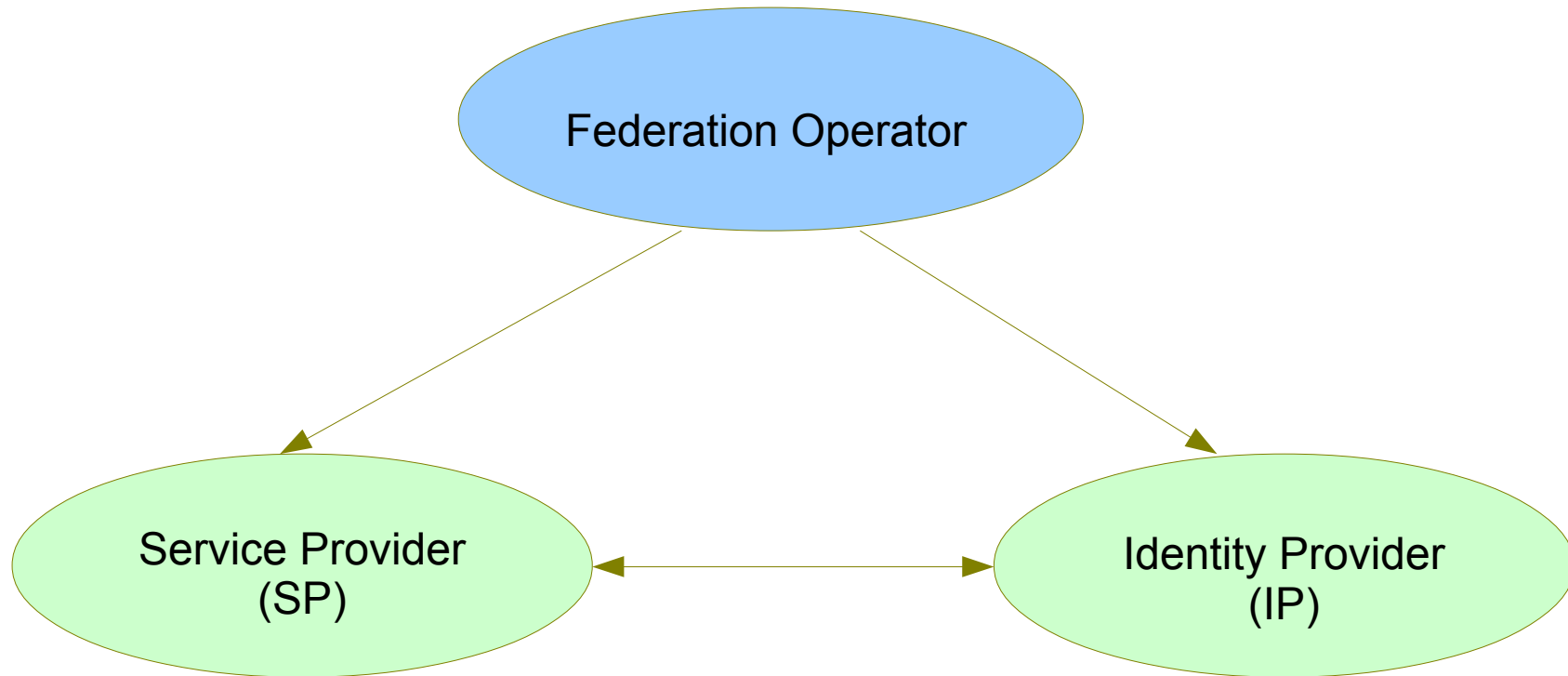
Automation of Trust

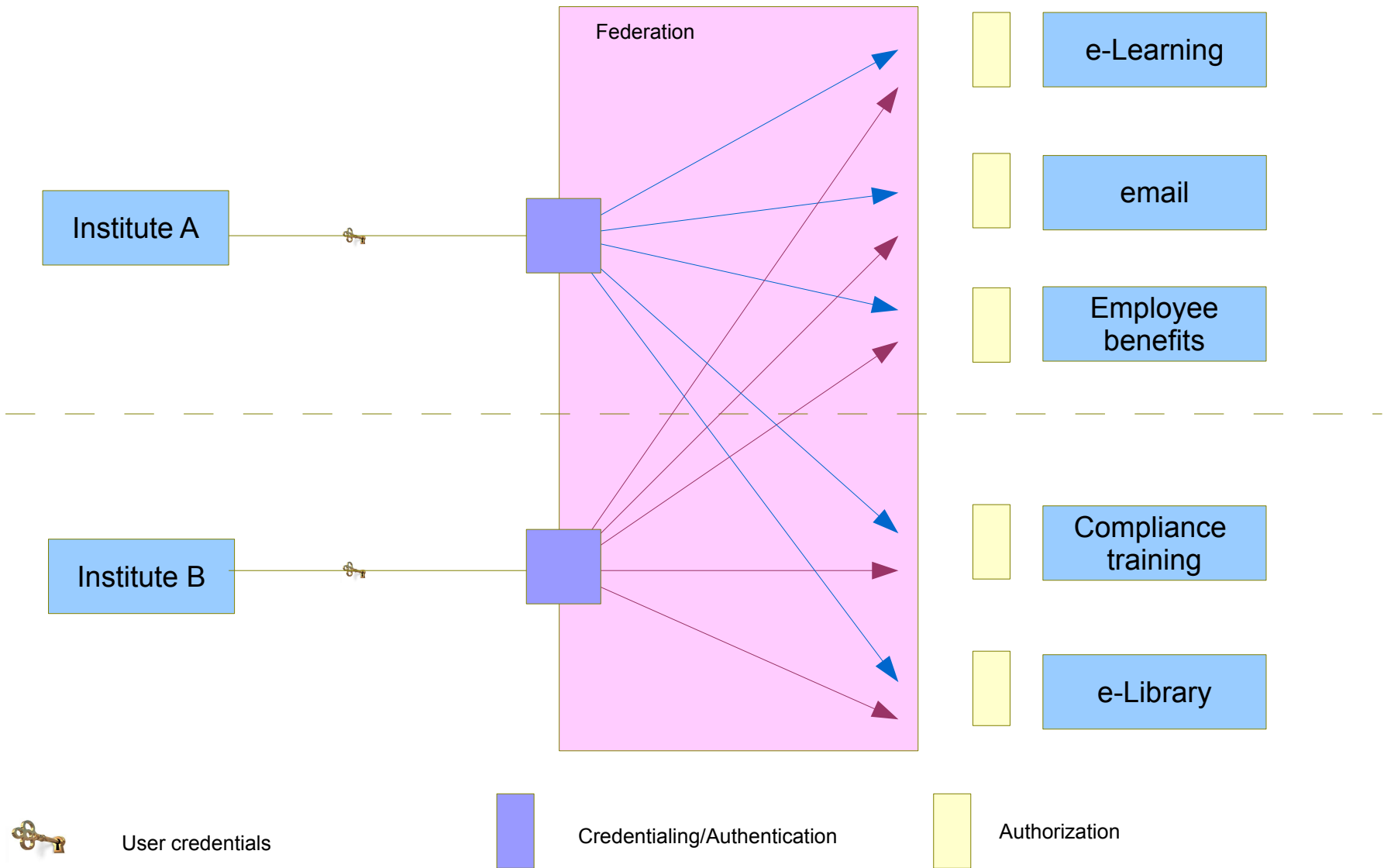# Federated Identity Management

- Why do institutions participate?

  ‣ Scalable

    – *Scalable to millions*

  ‣ Secure

    – *All transaction in-fact encrypted*

    – *Personal information will be well protected*

  ‣ Interoperable

    – *Facility available one institute can be easily make available to many*

Traditional Identity Management

Institute A

Institute B

e-Learning

email

Employee benefits

Compliance training

e-Library

User credentials

Credentialing/Authentication

Authorization

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Federated Concept

Federation	

Institute A — 🔑

Institute B — 🔑

- e-Learning
- email
- Employee benefits
- Compliance training
- e-Library

🔑 User credentials

■ Credentialing/Authentication

▯ Authorization

Federated Identity Management

- Fundamental Components

  ‣ Technology

    - *Known and available*

  ‣ Policy

    - *Complicated and evolving*

- *Examples*

  ‣ *InCommon*

    - *Privacy based*

    - *In Internet-2*

  ‣ *UT Identity Management Federation*

    - *Business based*

Road Map for Getting Started

- What does it take to create a federation?

  ‣ Technology Level – Not much

    - LDAP, eduPerson, SAML, etc

  ‣ Policy Level

    - *Is the most work*

    - *Some uncharted territory*

  ‣ Vision

    - All students, faculty, and staff in the federation and its affiliates are able to access both local and remote resources using their local credentials and attributes, through a seamless technology infrastructure.

  ‣ Governance

    - Membership from institutions/organizations involved and sponsoring organization board (Eg. InCommon)

  ‣ Plan

  ‣ Resources

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Thank You

Senevi Herath/LEARN

Email: senevih@learn.ac.lk

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