eduGAIN Access Check

Guillaume Rousse

GIP RENATER

12 april 2022

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Plan

1. Overview
2. Implementation
3. Demonstration

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Objectives

Purpose

federated application testing

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federated application testing

Features

- no additional trust relationship needed : ready to use
- usable in production federation : no account with public credentials

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Fonctionning

create service-specific test accounts with different profiles

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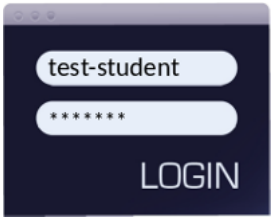

use them for login on own service only

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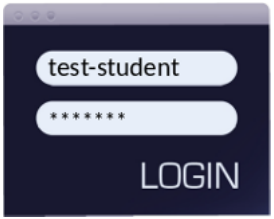

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Check if access works and attributes are available

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Account details

Diversity

- multiple profiles with different attribute sets
  student, teacher, other, etc.
- realistic attribute values
  cn="Åsold Wahlstrøm"

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Security

- strong random passwords
- restricted to a single service provider
  IdP-enforced restriction
- lifetime limitation
  7 days by default

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Components

Identity Provider

- SimpleSAMLphp
- restrictLogin plugin (internal development)

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Identity Provider

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Account management interface

- Perl web application (internal development)

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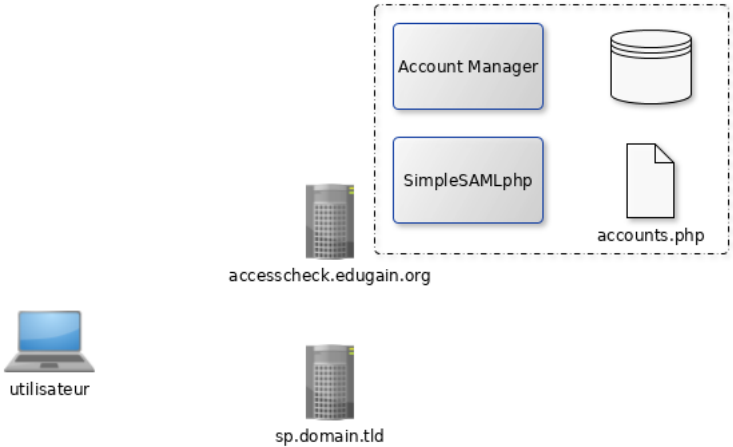
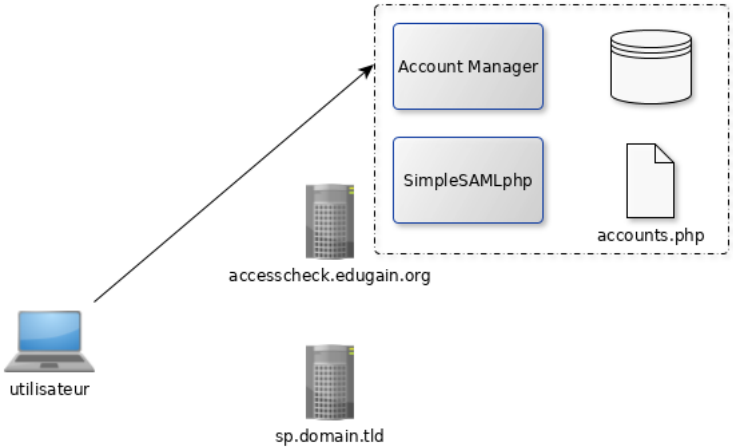
Architecture



Account creation



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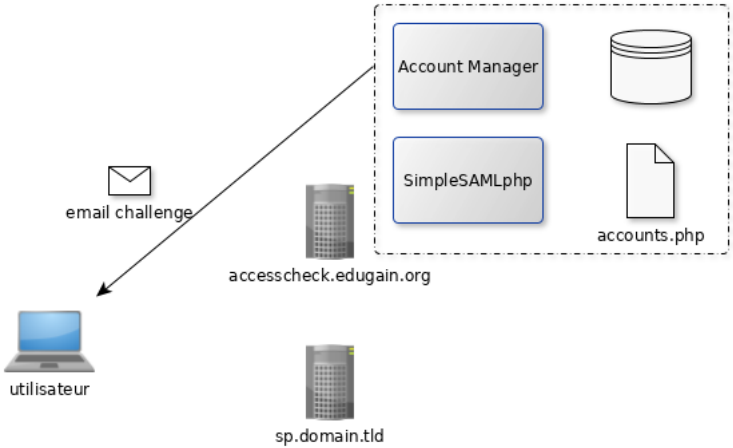

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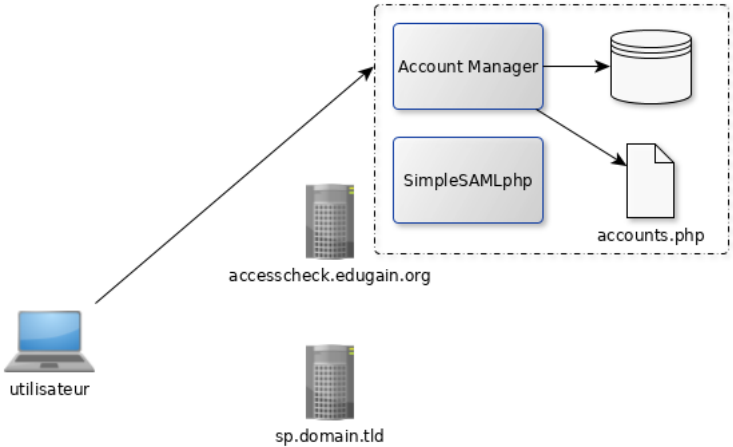
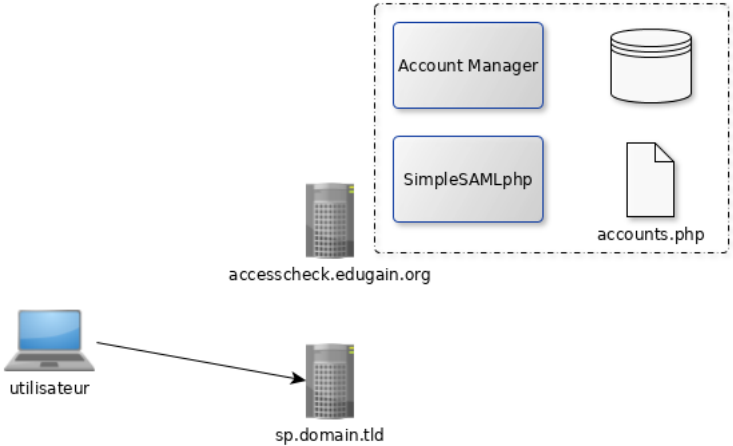


Service provider access



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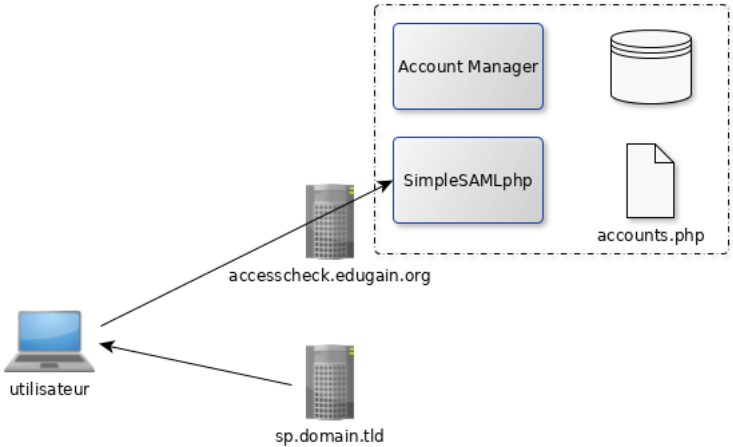

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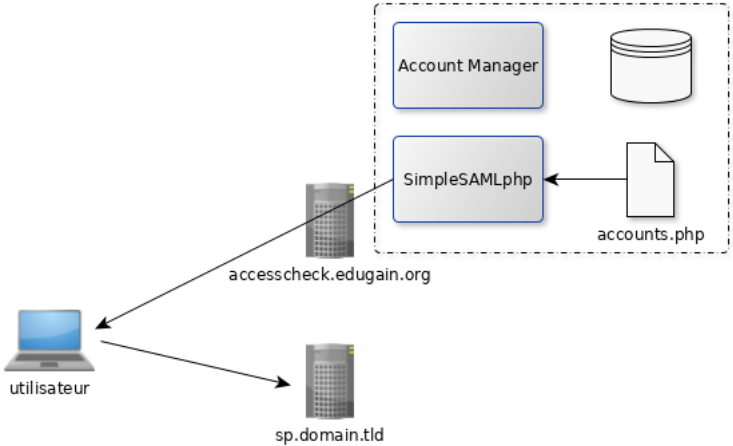

Security

Proof of ownership

- EAC is an IdP trusted by all federation members
- accounts creation is restricted to legitimate SP admins
- achieved through an email challenge, based on SP metadata

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Password storage

- non-reversible format : hashed for SimpleSAML PHP usage
- reversible format : encrypted with transient key for CVS export

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Multi-tenant support

Purpose

Same tool usage, in different contexts :

- eduGAIN instance (access-check.edugain.org) for international context
- RENATER instance (access-check.renater.fr) for national contex

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Customization support

- multiple look'n'feel : eduGAIN and RENATER themes provided
- optional authentication : delegated to web server
- multiple entities sets : federations, custome aggregates

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Multiple deployment scenarios

Do it yourself

Download source code, install and run your own instance yourself

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Mutualized hosting

eduGAIN instance already supports eduGAIN and ACOnet federations

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Dedicated hosting

No service offer available currently

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Roadmap

Version 2.0

- user-controlled accounts lifetime
- user-controlled profiles selection
- profiles defined as templates, easier to customize
- switch from plain CGI to Mojolicious framework

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Desirable features

- user-controlled attribute sets
- user-controlled attribute values

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Demonstration