

TECHNICAL IMPLEMENTATION

SWITCH AAI / SHAREPOINT /ADFS





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INTRODUCTION

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INTRODUCTION

ABOUT IOZ

Organizational and Consulting

Technical (Development, Hosting, Installation)

Certifications:













HOW TO AUTHENTICATE AGAINST SWITCH AAI?







HOW TO AUTHENTICATE AGAINST SWITCH AAI?







1. REGISTER SERVICE PROVIDER IN AAI

ADFS Side

- Correct Certificate (Link: <u>Certificate Requirements (AAI)</u>)
 - STS \rightarrow Public Certificate (ex. Quovadis)
 - Service Communication \rightarrow Self Signed



- Federation Service Identifier (https not http)
- Disable Artifact Resolution Profile

No

No

/adfs/services/trust/artifactresolution





1. REGISTER SERVICE PROVIDER AN AAI

AAI Side

- Wizard mode do not work for ADFS registration
- Need to copy/paste ADFS Metadata XML Content
- Take care about Service Location
 - Only register HTTP-POST Binding urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST

→ Problem with Back Channel Request and Artifact Profile





2. ADD IDP'S ON ADFS

Problem:

- The Metadata File from AAI include all IDP's in one XML File
- ADFS can only import one IDP per File

Solution

- SILA → CodePlex Solution
- Extract each IDP and import it into ADFS





3. CREATE RELAYING PARTY ON ADFS

Important Steps

- Each WebApp URL need a Relaying Party
 → FHNW has 4 WebApps
- Relaying party identifier .../_trust/







4. CONFIGURE SHAREPOINT FOR ADFS

Required information from Step 3

- Token Certificate (.cer \rightarrow without Private Key)
- STS URL
- Realm
- Attributes

New SPTrustedIdentityTokenIssuer

- Only with PowerShell
- One for all WebApps







CLAIM RULES LANGUAGE

Condition / Issuance

c:[Type == "http://contoso.com/department"]

=>issue(Type = "http://adatum.com/department", Value = c.Value);

http://social.technet.microsoft.com/wiki/contents/ articles/4792.understanding-claim-rule-language-in-ad-fs-2-0.aspx

Example

- How is Attribute HomeOrg passed from Shibboleth to SharePoint



ACCESS RIGHTS IN SHAREPOINT

There are no AD Groups \rightarrow But we have Claim with Attributes ;-) Attribute Affiliation

- Mapped in SharePoint as http://schemas.microsoft.com/ws/2008/06/identity/claims/role
- Set Permission based on Attribute Values
- Example:
 - All Users which have "staff" as Value in the Claim Attribute Affiliation have write Access to Site XY



ACCESS RIGHTS IN SHAREPOINT

Requirements

- Other faculties should also have access to SharePoint

Problem

- Affiliation has to be unique

Idea:

- Combination of Affiliation Value with Home Organization
- Ex.: staff@fhnw.ch



ACCESS RIGHTS IN SHAREPOINT

Implementation

- Claim Rule Language can modify Claim Values
 - Can use alternative Attribute Stores (LDAP and SQL)
 - SQL Attribute Store to add extra intelligents over a Stored Procedure

Claim Input ex.

- Affiliation: staff
- HomeOrg: fhnw.ch
- max.muster@fhnw.ch

Link: Claims Encoding



Outputs ex.

- staff@fhnw.ch
- students@fhnw.ch
- member@fhnw.ch
- affiliate@fhnw.ch
- unauthorized

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EXTERNAL USERS -ALTERNATIVE LOGIN





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USER PROFILE MANAGEMENT

OVERVIEW (STAFF AND STUDENT)





USER PROFILE MANAGEMENT

PROBLEMS

BCS

- Require Full AD User → AD Import
- Double user Profiles \rightarrow Merge over Claim Identifier

Account name	Preferred name
IOZ\joel.hasler	Hasler Joel
Account name	Preferred name
i:05.t adfsv2 joel.hasler@fhnw.ch	joel.hasler@fhnw.ch

UPS

- Not possible to run a sync per connection \rightarrow run in parallel
- AD sync has complete first \rightarrow BCS Import failed
- Run UPS Sync twice over PowerShell





Windows Authentication

- Problem: Need for SharePoint internal User \rightarrow ex. Search
- Solution: extend WebApp and Crawl default URLs

Self Service Portal

- Req.: Ability for external Users to change Password and edit Profile
- Solution: Custom SharePoint Solution only for external users

Claim Authentication

- Problem: People Picker cannot validate if user exist or not
- Solution: Custom Claim Provider check against UPS





