

Admins - Keycloak an Shibboleth IdP anbinden

Hier ist beschrieben, wie Keycloak zu konfigurieren ist, damit eine SAML-Authentifizierung über den Shibboleth Identity Provider möglich ist. In den folgenden Screenshots wird der Development-Server von schnaq mit dem Development-IdP der HHU verbunden.

Eine detailliertere und weiterreichende Dokumentation findet sich unter: <https://www.blog.albert-stark.de/p/shibboleth-and-keycloak/>

Development

Configure

- Realm Settings
- Clients
- Client Scopes
- Roles

Identity Providers

- User Federation
- Authentication

Manage

- Groups
- Users
- Sessions
- Events
- Import
- Export

Identity Providers > HHU Development Shibboleth

HHU Development Shibboleth

Settings

Mappers

Redirect URI	https://auth.schnaq.com/realms/development/broker/hhudev/endpoint
* Alias	hhudev
Display Name	HHU Development Shibboleth
Enabled	☒
Store Tokens	☐
Stored Tokens Readable	☐
Trust Email	☐
Account Linking Only	☐
Hide on Login Page	☐
GUI order	
First Login Flow	first broker login
Post Login Flow	
Sync Mode	import
Endpoints	SAML 2.0 Service Provider Metadata

SAML Config

* Service Provider Entity ID	https://auth.schnaq.com/realms/development
* Single Sign-On Service URL	https://idp-dev.uni-duesseldorf.de/idp/profile/SAML2/POST/SSO
Single Logout Service URL	https://idp-dev.uni-duesseldorf.de/idp/profile/SAML2/POST/SLO
Backchannel Logout	☐
NameID Policy Format	Persistent
Principal Type	Subject NameID
Allow create	☒
HTTP-POST Binding Response	☒
HTTP-POST Binding for AuthnRequest	☒
HTTP-POST Binding Logout	☒
Want AuthnRequests Signed	☒
Want Assertions Signed	☐
Want Assertions Encrypted	☒
Signature Algorithm	RSA_SHA256
SAML Signature Key Name	KEY_ID
Force Authentication	☐
Validate Signature	☐
Sign Service Provider Metadata	☐
Pass subject	☐
Allowed clock skew	
Attribute Consuming Service Index	
Attribute Consuming Service Name	

> Requested AuthnContext Constraints

Die resultierenden Metadaten müssen dem IdP zur Verfügung gestellt werden (diese sind sehr minimalistisch, falls jemand weiß, wie Zusatzinformationen wie Organization, ContactPerson, AttributeConsumingService etc angegeben werden können, bitte melden). In unserem Fall wird die generierte xml-Datei per Ansible auf dem IdP abgelegt und per FilesystemMetadataProvider in der metadata-providers.xml integriert.

Attributfreigabe im IdP:

IdP - attribute-resolver.xml

```
<AttributeFilterPolicy id="schnaq">
  <PolicyRequirementRule xsi:type="Requester" value="https://auth.schnaq.com/realms/schnaq" />
  <AttributeRule attributeID="mail" permitAny="true" />
  <AttributeRule attributeID="givenName" permitAny="true" />
  <AttributeRule attributeID="sn" permitAny="true" />
  <AttributeRule attributeID="displayName" permitAny="true" />
  <AttributeRule attributeID="eduPersonAffiliation">
    <PermitValueRule xsi:type="Value" value="employee" caseSensitive="false" />
  </AttributeRule>
</AttributeFilterPolicy>
```

displayName wird vermutlich in Zukunft genutzt. eduPersonAffiliation wird genutzt um Angestellten ("employee") zusätzliche Dienste zur Verfügung zu stellen (s. letzter Screenshot). Über Keycloak-Mapper werden die Werte der SAML-Attribute dem Dienst verfügbar gemacht (die Zuordnung der User passiert vermutlich implizit über die persistentId):

The screenshot shows the Keycloak Admin Console interface. The left sidebar contains navigation menus for 'Development', 'Configure', and 'Manage'. The 'Configure' menu is expanded, showing 'Identity Providers' as the selected option. The main content area displays the configuration for the 'HHU Development Shibboleth' identity provider, specifically the 'Mappers' tab. A table lists the configured mappers, all of which are 'Attribute Importer' type.

Name	Category	Type
Affiliation	Attribute Importer	Attribute Importer
Mail	Attribute Importer	Attribute Importer
Nachname	Attribute Importer	Attribute Importer
Vorname	Attribute Importer	Attribute Importer

Die einzelnen Mapper: "Attribute Name" muss genau der Bezeichnung der SAML-Assertion entsprechen (oder URN), "Attribute User Name" dem Zielbezeichner.

KEYCLOAK

Christian Meter

Development

Configure

Realm Settings

Clients

Client Scopes

Roles

Identity Providers

User Federation

Authentication

Manage

Groups

Users

Sessions

Events

Import

Export

Identity Providers > hhudev > Identity Provider Mappers > Affiliation

Affiliation

ID2cd0fc63-6bd9-408d-9445-7ab5961ebc6f

Name *Affiliation

Sync Mode Override *import

Mapper TypeAttribute Importer

Attribute NameeduPersonAffiliation

Friendly NameeduPersonAffiliation

User Attribute Nameaffiliation

SaveCancel

KEYCLOAK

Christian Meter

Development

Configure

Realm Settings

Clients

Client Scopes

Roles

Identity Providers

User Federation

Authentication

Manage

Groups

Users

Sessions

Events

Import

Export

Identity Providers > hhudev > Identity Provider Mappers > Mail

Mail

ID83451582-5ee0-4313-9d0a-c6a246d3f142

Name *Mail

Sync Mode Override *import

Mapper TypeAttribute Importer

Attribute Namemail

Friendly Nameemail

User Attribute Nameemail

SaveCancel

KEYCLOAK

Christian Meter

Development

Configure

Realm Settings

Clients

Client Scopes

Roles

Identity Providers

User Federation

Authentication

Manage

Groups

Users

Sessions

Events

Import

Export

Identity Providers > hhidev > Identity Provider Mappers > Nachname

Nachname

ID

f99524a2-13a7-4c31-b708-baf52598e719

Name *

Nachname

Sync Mode Override *

import

Mapper Type

Attribute Importer

Attribute Name

sn

Friendly Name

sn

User Attribute Name

lastName

Save

Cancel

KEYCLOAK

Christian Meter

Development

Configure

Realm Settings

Clients

Client Scopes

Roles

Identity Providers

User Federation

Authentication

Manage

Groups

Users

Sessions

Events

Import

Export

Identity Providers > hhidev > Identity Provider Mappers > Vorname

Vorname

ID

01e82ba0-1941-42e3-9ebe-cc0b4dca37ef

Name *

Vorname

Sync Mode Override *

import

Mapper Type

Attribute Importer

Attribute Name

givenName

Friendly Name

givenName

User Attribute Name

firstName

Save

Cancel

Angestellte bekommen Zugang zur Enterprise-Version:

Development

Configure

- Realm Settings
- Clients
- Client Scopes
- Roles
- Identity Providers**
- User Federation
- Authentication

Manage

- Groups
- Users
- Sessions
- Events
- Import
- Export

Identity Providers > hhu dev > Identity Provider Mappers > Employee To Enterprise

Employee To Enterprise

ID: c3170a61-e936-46bc-8010-81a217e616bc

Name: Employee To Enterprise

Sync Mode Override: Import

Mapper Type: Advanced Attribute to Role

Attributes

Key	Value	Actions
eduPersonAffiliation	employee	Delete
		Add

Schlüssel aus der SAML Antwort

Wert, der gefunden werden soll (hier: eine Rolle, die die Person hat, bspw. employee, member, staff, ...)

Regex Attribute Values: OFF

Role: enterprise

Select Role

Save Cancel

Rolle im Keycloak, auf die gemappt werden soll

Bei Fragen:

idm at hhu Punkt de

christian at schnaq Punkt com