

1.1. SimpleSAMLphp IdP

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This guide describes how to configure SimpleSAMLphp as an identity provider (IdP).

Configure SimpleSAMLphp

Enable the IdP

Change to the SimpleSAMLphp home directory
`cd /var/simplesamlphp`
Edit `config/config.php` change `enable.saml20-idp` to `true`.
`'enable.saml20-idp' => true,`

Configure the IdP

Change `metadata/saml20-idp-hosted.php` to the following.
`$metadata['_DYNAMIC:1_'] = array(
'host' => '_DEFAULT_',
'auth' => 'example-userpass',
'privatekey' => 'server.key',
'certificate' => 'server.crt',
'attributes.NameFormat' => 'urn:oasis:names:tc:SAML:2.0:attrname-format:uri',
'authproc' => array(
97 => array(
'class' => 'saml:AuthnContextClassRef',
'AuthnContextClassRef' => 'skolfederation.se-bas',
),
100 => array(
'class' => 'core:AttributeMap',
'name2oid'
),
,
),
);`

Enable the exampleauth module

To be able to test the installation there must exist some users. Enable the SimpleSAMLphp module `exampleauth` by creating the file `enable` in the `exampleauth` module directory.
`sudo touch modules/exampleauth/enable`

Configure exampleauth

Edit the file `config/authsources.php` change `example-userpass` to the following.
`'example-userpass' => array(
'exampleauth:UserPass',
'student:studentpass' => array(
'urn:oid:1.3.6.1.4.1.5923.1.1.1.6' => array('student@example.com'),
'urn:oid:0.9.2342.19200300.100.1.3' => array('student@mymail.loc'),
),
'teacher:teacherpass' => array(
'urn:oid:1.2.752.194.10.2.4' => array('2699'),
'urn:oid:1.3.6.1.4.1.5923.1.1.1.6' => array('teacher@example.com'),
'urn:oid:0.9.2342.19200300.100.1.3' => array('teacher@mymail.com'),
'urn:oid:2.5.4.42' => array('Teacher'),
'urn:oid:2.5.4.4' => array('Tester'),
),
),
);`

Metadata

Get the metadata describing the IdP. Change the `hostname`. `--no-check-certificate` is only needed if the HTTPS certificate is self-signed.

```
wget --no-check-certificate -O metadata-idp.xml 'https://myhost.example.com/simplesaml/saml2/idp/metadata.php'
<?xml version="1.0"?>
<md:EntityDescriptor xmlns:md="urn:oasis:names:tc:SAML:2.0:metadata" xmlns:ds="http://www.w3.org/2000/09/xmldsig#" entityID="http://myhost.
example.com/simplesaml/saml2/idp/metadata.php" ID="pfx8ccd623c-59aa-b036-13a7-ad92c55c0a1b"><ds:Signature>
<ds:SignedInfo><ds:CanonicalizationMethod Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/>
<ds:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-sha1"/>
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/xmldsig#enveloped-signature"/><ds:Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/></ds:Transforms><ds:DigestMethod Algorithm="
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</md:KeyDescriptor>
<md:SingleLogoutService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect" Location="https://myhost.example.com/simplesaml/saml2/idp
/SingleLogoutService.php"/>
<md:NameIDFormat>urn:oasis:names:tc:SAML:2.0:nameid-format:transient</md:NameIDFormat>
<md:SingleSignOnService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect" Location="https://myhost.example.com/simplesaml/saml2/idp
/SSOService.php"/>
</md:IDPSSODescriptor>
</md:EntityDescriptor>
```

In the following metadata **persistent NameID** (row 24), **organisation** and **ContactPerson** (row 27-58) have been added. **NOTE:** This is an example and can't be uploaded to the federation. Read more about ow to publish metadata on the federation website.

```
<?xml version="1.0"?>
<md:EntityDescriptor xmlns:md="urn:oasis:names:tc:SAML:2.0:metadata" xmlns:ds="http://www.w3.org/2000/09/xmldsig#" entityID="http://myhost.example.com/simplesaml/saml2/idp/metadata.php" ID="pfx797787f7-e5bd-acc6-89ef-4d120e679a48"><ds:Signature>
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<ds:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-sha1"/>
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</ds:X509Data>
</ds:KeyInfo>
</md:KeyDescriptor>
<md:SingleLogoutService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect" Location="https://myhost.example.com/simplesaml/saml2/idp/SingleLogoutService.php"/>
<md:NameIDFormat urn:oasis:names:tc:SAML:2.0:nameid-format:transient</md:NameIDFormat>
<md:NameIDFormat urn:oasis:names:tc:SAML:2.0:nameid-format:persistent</md:NameIDFormat>
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```

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</md:IDPSSODescriptor>
<md:Organization>
  <md:OrganizationName xml:lang="en">Example organization</md:OrganizationName>
  <md:OrganizationName xml:lang="sv">Exempel organisation</md:OrganizationName>
  <md:OrganizationDisplayName xml:lang="en">Example organization</md:OrganizationDisplayName>
  <md:OrganizationDisplayName xml:lang="sv">Exempel organisation</md:OrganizationDisplayName>
  <md:OrganizationURL xml:lang="en">www.example.com</md:OrganizationURL>
  <md:OrganizationURL xml:lang="sv">www.example.com</md:OrganizationURL>
</md:Organization>
  <md:ContactPerson contactType="technical" xml:lang="sv">
    <md:GivenName>Kalle</md:GivenName>
    <md:SurName>Andersson</md:SurName>
    <md:EmailAddress>kalle.andersson@example.com</md:EmailAddress>
    <md:PhoneNumber>+468123456</md:PhoneNumber>
  </md:ContactPerson>
  <md:ContactPerson contactType="technical" xml:lang="en">
    <md:GivenName>Kalle</md:GivenName>
    <md:SurName>Andersson</md:SurName>
    <md:EmailAddress>kalle.andersson@example.com</md:EmailAddress>
    <md:PhoneNumber>+468123456</md:PhoneNumber>
  </md:ContactPerson>
  <md:ContactPerson contactType="support" xml:lang="sv">
    <md:GivenName>Kalle</md:GivenName>
    <md:SurName>Andersson</md:SurName>
    <md:EmailAddress>kalle.andersson@example.com</md:EmailAddress>
    <md:PhoneNumber>+468123456</md:PhoneNumber>
  </md:ContactPerson>
  <md:ContactPerson contactType="support" xml:lang="en">
    <md:GivenName>Kalle</md:GivenName>
    <md:SurName>Andersson</md:SurName>
    <md:EmailAddress>kalle.andersson@example.com</md:EmailAddress>
    <md:PhoneNumber>+468123456</md:PhoneNumber>
  </md:ContactPerson>
</md:EntityDescriptor>
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