

Shibboleth Topics

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InCommon®





Overview

Shibboleth Overview

- Open source, from the [Shibboleth Consortium](#)
- SAML, both IdP and SP
 - IdP + CAS
 - IdP + OIDC
- Very mature/Solid code base
- Deployed by the 1000s worldwide!
- The InCommon Trusted Access Platform packages Shibboleth as docker containers
 - [Container source](#)



IdP quick install

Bringing up an IDP container (and SP too)

- Start with a Linux VM with [Docker-CE installed](#).
- mkdir ~/shib-train
- cd ~/shib-train
- curl -s -L -o shib_files.zip <https://github.internet2.edu/docker/shib-idp/archive/master.zip>
- unzip shib_files.zip
- cd shib-idp-master/
- rm -rf bin container_files tests *file common.bash README.md test-compose/README.md test-compose/idp/container_files/*
- mv test-compose/* ..
- cd ..
-

Bringing up an IDP container (cont)

- `rm -rf shib-idp-master/`
- `rm -f shib_files.zip`
- `cd ~/shib-train/idp/container_files`
- `docker run -it -v $PWD:/output -e "BUILD_ENV=LINUX" tier/shibidp_configbuilder_container
 - my.idp.name (in /etc/hosts)
 - ldap://data:389
 - ou=People, dc=internet2, dc=edu
 - cn=admin, dc=internet2, dc=edu
 - password`
- `rm -f Dockerfile`

Bringing up an IdP container (cont)

- #Launch the container!
- cd ~/shib-train/idp/
- ./compose.sh
- # this takes a few minutes
- #check the output of 'docker ps' - look for status = healthy
- View the IdP's status page:
 - docker-compose exec idp curl -k <https://127.0.0.1/idp/status>
- The IdP is now operational, but can't really do anything yet...

Basic configuration of an IdP

- Supplying Metadata

- This is similar to what you would do when you join a federation so that others could trust your IdP.
- Save the file from <https://my.idp.name/idp/shibboleth> to your local drive. That is the IdP's basic metadata.
- Navigate to <http://sp.training.incommon.org/mdupload> and upload the file form the previous step.
- Wait a few minutes...

Basic configuration of an IdP - Configuring Trusted Metadata

- This is similar to what you would do when you join a federation so that your IdP would trust federated SPs.
- Add to config/shib-idp/conf/metadata-providers.xml
 - ```
<MetadataProvider id='ShibbTrainMD' xsi:type='FileBackedHTTPMetadataProvider'
 xmlns='urn:mace:shibboleth:2.0:metadata'

 metadataURL='http://md.training.incommon.org/downloads/ShibTrain1-metadata.xml'
 backingFile='/opt/shibboleth-idp/metadata/ShibTrain1-metadata.xml' />
```

# Basic configuration of an IDP - Configuring Attribute Release

- In config/shib-idp/conf/attribute-filter.xml
- <AttributeFilterPolicy id='releaseForClassroomSP'>  
    <PolicyRequirementRule xsi:type='Requester'  
    value='https://sp.training.incommon.org/shibboleth' />
- <AttributeRule attributeID='eduPersonPrincipalName'>
- <PermitValueRule xsi:type='ANY' />
- </AttributeRule>
- <AttributeRule attributeID='displayName'>
- <PermitValueRule xsi:type='ANY' />
- </AttributeRule>

# Basic configuration of an IDP - Configuring Attribute Release (cont)

- <AttributeRule attributeID='mail'>
- <PermitValueRule xsi:type='ANY' />
- </AttributeRule>
- <AttributeRule attributeID='surname'>
- <PermitValueRule xsi:type='ANY' />
- </AttributeRule>
- <AttributeRule attributeID='givenName'>
- <PermitValueRule xsi:type='ANY' />
- </AttributeRule>

# Basic configuration of an IDP - Configuring Attribute Release (cont)

- <AttributeRule attributeID='eduPersonAffiliation'>
- <PermitValueRule xsi:type='ANY' />
- </AttributeRule>
- <AttributeRule attributeID='uid'>
- <PermitValueRule xsi:type='ANY' />
- </AttributeRule>
- </AttributeFilterPolicy>

# Basic configuration of an IdP - Testing

- Navigate to <https://sp.training.incommon.org/secure>
- Select the new IdP from the list (my.idp.name)
- Login as kwhite/password
- Verify released attributes

# The InCommon Federation

# The InCommon Federation

- [Trust federation](#) for higher-education and research in the US
  - IdPs and SPs
  - Global: partnered with over 60 other federations
- Publishes trusted [SAML metadata](#)
- Metadata is well-curated
  - Strong vetting of institutions/contacts
  - Strong vetting of SAML entityID/endpoints
- InCommon [Federation Manager](#)
- On-demand metadata: [MDQ](#)



Open Discussion