



Vad är OpenID?

Frågar man Wikipedia får man följande svar:

“OpenID is a shared identity service, which allows Internet users to log on to many different web sites using a single digital identity, single sign-on, eliminating the need for a different user name and password for each site. OpenID is a decentralized, free and open standard that lets users control the amount of personal information they provide.”

“An OpenID is in the form of a URL. This URL can be the domain name of your own website, or the URL of an OpenID Identity Provider. When you log in with an OpenID, you have to log in to the Identity Provider for validation.”

Exempelvis: <http://torbjorn.karlsson.myopenid.com>



Vad är OpenID4java?

En implementation av OpenID, skriven i Java.

<http://code.google.com/p/openid4java>

Följande specifikationer stöds:

- OpenID Authentication 2.0
- OpenID Authentication 1.1 (in compatibility mode)
- OpenID Attribute Exchange 1.0
- OpenID Simple Registration 1.0 and 1.1, draft 1
- OpenID Provider Authentication Policy Extension 1.0, draft 1
- OpenID Information Cards 1.0, draft 1



Vilka providers finns det:



AOL

openid.aol.com/screenname



Blogger

username.blogger.com



Flickr

www.flickr.com/photos/username



LiveDoor

profile.livedoor.com/username



LiveJournal

username.livejournal.com



Orange (France Telecom)

<http://openid.orange.fr/>



SmugMug

username.smugmug.com



Technorati

technorati.com/people/technorati/username



Vox

member.vox.com



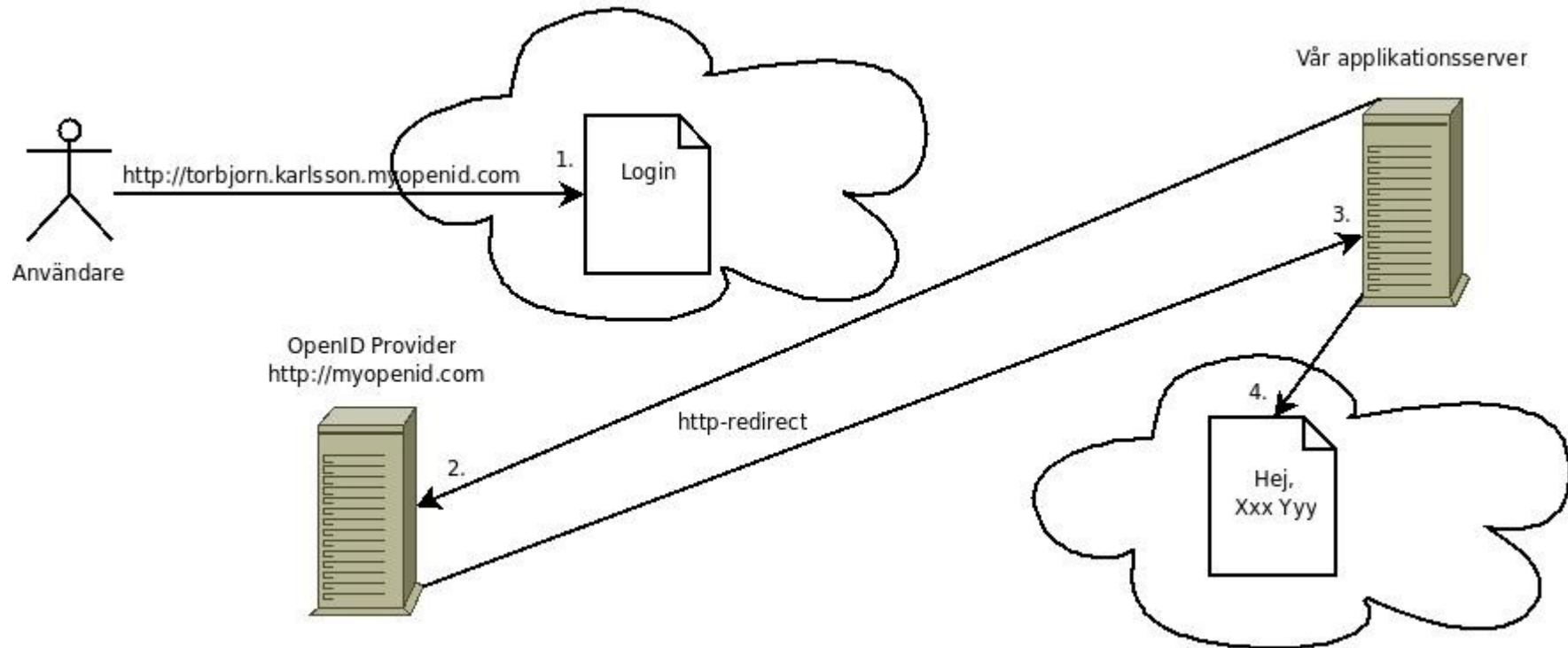
Yahoo

<http://openid.yahoo.com>



WordPress.com

username.wordpress.com



1. Presentera inloggning för användare, fråga användare efter OpenID
2. Hitta typ av kommunikation, serverns url och version av OpenID. Skicka `http-redirect` till OpenID providern
3. Providern ansvarar för validering av användare. Providern kan, om användare samtycker, skicka med "extra" data (namn, email, kön osv.). Providern skickar `http-redirect` tillbaks
4. Vi validerar providerns svar och kontrollerar att svaret inte är påverkar av tredje part. Visar "success" sida om allt gått bra.



Show me the code:

Börja med att skapa en ConsumerManager

```
public ConsumerManager manager;  
  
public SampleConsumer() throws ConsumerException  
{  
    _manager = new ConsumerManager();  
}
```

Definiera den URL dit användare skall skickas:

```
String _returnURL = "http://localhost:8080/consumer"; // Our servlet
```

Skapa ett autentiserings request

```
// Perform discovery on the user-supplied identifier  
// The users OpenID URL (http://torbjorn.karlsson.myopenid.com)  
List discoveries = manager.discover(userSuppliedString);  
  
// Attempt to associate with the OpenID provider  
// and retrieve one service endpoint for authentication  
// This will establish a shared secret  
DiscoveryInformation discovered = manager.associate(discoveries);  
  
// Store the discovery information in the user's session for later use  
session.setAttribute("discovered", discovered);  
  
// Obtain a AuthRequest message to be sent to the OpenID provider  
AuthRequest authReq = manager.authenticate(discovered, _returnURL);
```



Show me the code (2):

Redirecta användaren till OpenID providern

```
httpResponse.sendRedirect(authReq.getDestinationUrl(true));
```

Verifiera svaret från OpenID providern

```
// Extract the parameters from the authentication response
// (which comes in as a HTTP request from the OpenID provider)
ParameterList openidResp = new ParameterList(request.getParameterMap());

// retrieve the previously stored discovery information
DiscoveryInformation discovered = (DiscoveryInformation)
session.getAttribute("discovered");

// Extract the receiving URL from the HTTP request
StringBuffer receivingURL = request.getRequestURL();
String queryString = request.getQueryString();
if (queryString != null && queryString.length() > 0)
    receivingURL.append("?").append(request.getQueryString());

// Verify the response
VerificationResult verification = _consumerManager.verify(receivingURL.toString(), openidResp,
discovered);

// examine the verification result and extract the verified identifier
Identifier verified = verification.getVerifiedId();

if (verified != null)
    // success, use the verified identifier to identify the user
else
    // OpenID authentication failed
```