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## **Intro to OpenID**

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# Intro to OpenID

- Explanation
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- Terms
- Walk through
- Demonstration
- PHP code
- Resources



## Explanation

- OpenID is a protocol to facilitate distributed identity authentication
- Authenticate with multiple sites without giving out your credentials.
- Have multiple identities managed at different locations

# OpenID History

- Started by founder of LiveJournal
- First use of term in 2005
- Worked with other competing technologies to coordinate a standard
- OpenID 2.0 is current version
- Only finalized in Dec 2007
- Many libraries are still 1.1 only

# OpenID Terms 1

- End user (you and me)
- Identifier ([mgkimsal.myopenid.com](http://mgkimsal.myopenid.com))
- Identity provider
  - Entity hosting the OpenID identity server
- Relying party
  - Entity that wants to verify end user

## OpenID Terms 2

- Server

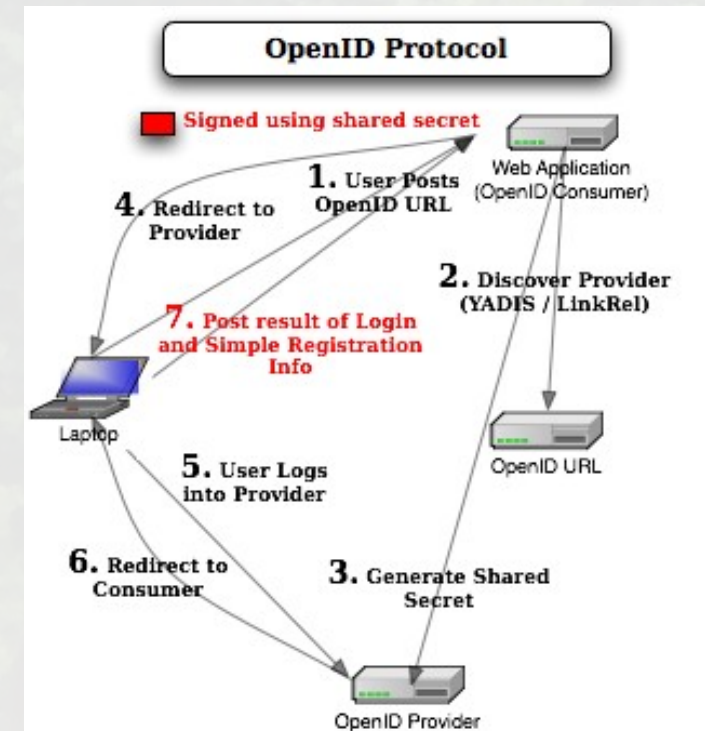
- Server software that does the verification

- User-agent

- Program used by the end user to access relying party (typically your browser)

# • Walk through 1

- Visit site X (“Consumer”)
- Select “login with openID”
- Enter openID Identifier
- Submission to Consumer
  - redirection to Identity Provider
- Authentication happens at Identity Provider
  - Authentication could be user/password, cookie, etc.



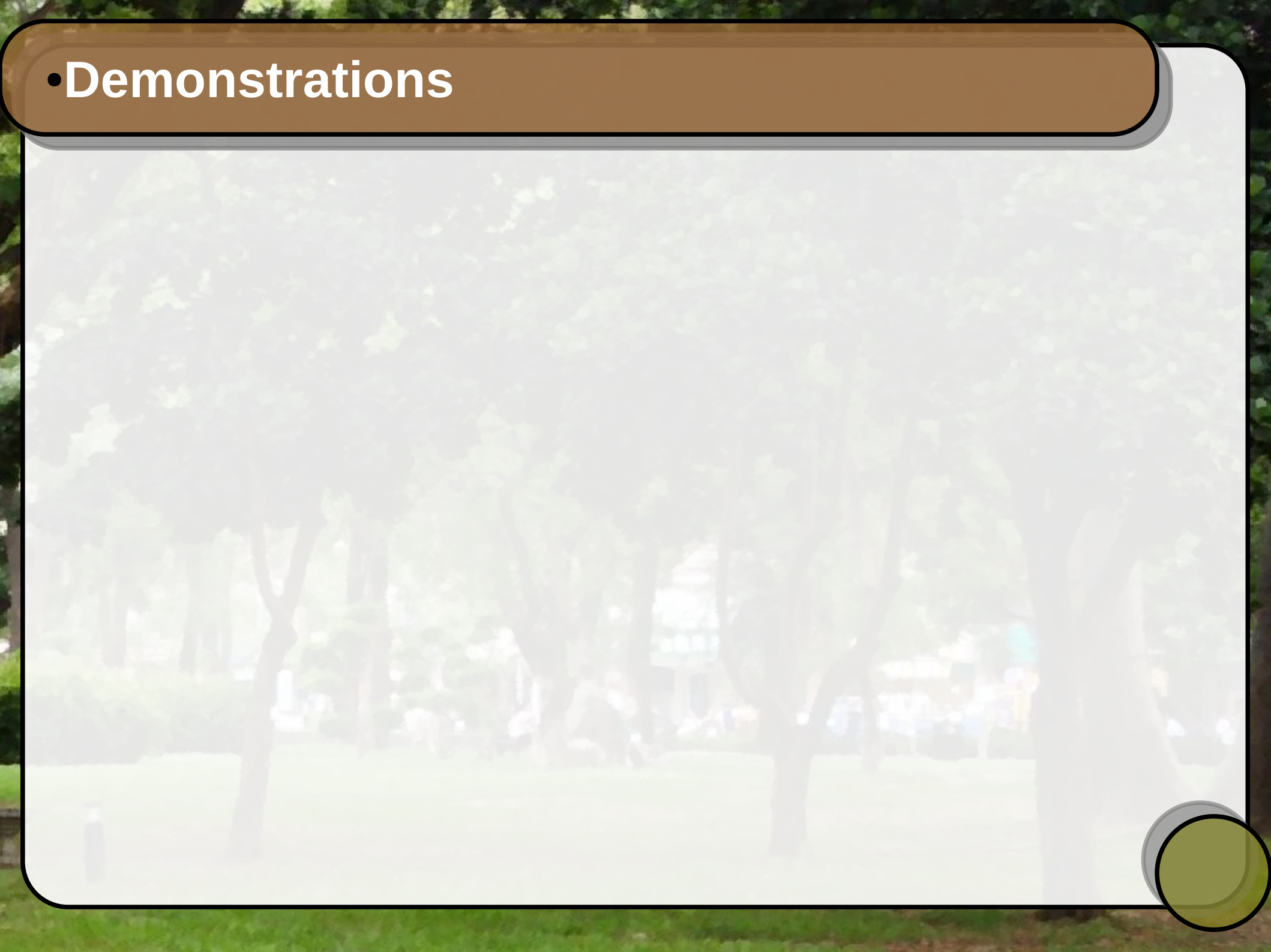
## •Walk through 2

### •Successful authentication

- redirects back to Consumer
- Consumer handshakes back to Identity Provider with provided token
- Successful reply means user is “logged in” at Consumer site

•Unsuccessful authentication redirects back to Consumer with failure status

# • Demonstrations



## • PHP library code

- <http://openidenabled.com/php-standalone-openid-server>
- <http://www.openidenabled.com/openid/libraries/php>

## •Resources

- <http://openid.net>
- [http://dev.aol.com/article/2007/openid\\_prime](http://dev.aol.com/article/2007/openid_prime)
- <http://www.openidenabled.com>
- <http://en.wikipedia.org/wiki/Openid>

