

Steps to Making Your Website a Part of the NSDL Federation (version 0) Noah Levitt, Columbia University

NOTE: You must be serving your website using Apache 1.3 or 2.0 or IIS 4.0+.

– 1 –

Install shibboleth and dependencies. Binaries are available for windows; otherwise, you have to compile it yourself. Follow instructions in `opensaml/doc/INSTALL.txt`, then `shibboleth/doc/INSTALL.txt`.

```
http://anoncvs.internet2.edu/cgi-  
bin/viewcvs.cgi/opensaml/c/doc/INSTALL.txt?rev=HEAD&only_with_tag=Rel_1_0&cv  
sroot=Shibboleth&content-type=text/vnd.viewcvs-markup
```

```
http://anoncvs.internet2.edu/cgi-  
bin/viewcvs.cgi/shibboleth/c/doc/INSTALL.txt?rev=HEAD&only_with_tag=Rel_1_2&c  
vsroot=Shibboleth&content-type=text/vnd.viewcvs-markup
```

– 2 –

Create a certificate request for your attribute requester:

```
$ openssl genrsa -out shar.key 1024  
$ openssl req -new -key shar.key -out shar.csr  
[fill in appropriate values to cert metadata]
```

Remember to guard `shar.key`, your private key, with care!!! This is what grants you access to potentially identifiable or private information about users.

– 3 –

Send me "Noah Levitt <nlevitt@columbia.edu>" your certificate request and the answers to the following questions:

1. What is the domain of your site? (e.g. "example.nsdل.org")
2. What is your site called? (e.g. "NSDL Example")
3. Who is responsible for maintaining your site? This could be an individual or an email alias.

I will send you a certificate signed by the NSDL federation certificate authority. I'll also send you the federation metadata, `nsdl-sites.xml`, to put in your `/etc/shibboleth`. You'll notice it has a chunk for your site that looks like sort of like this:

```
<DestinationSite Name="urn:nsdl:AMS:site:example.nsdل.org">
```

```
<Alias>NSDL Example</Alias>
<Contact Type="technical" Name="NSDL Example
Administrator" Email="admin@example.nsd.org"/>
<AssertionConsumerServiceURL
Location="https://example.nsd.org/Shibboleth.shire"/>
<AttributeRequester Name="CN=example-shar, OU=NSDL,
O=Syracuse University, ST=New York, C=US"/>
</DestinationSite>
```

I'll also send you trust.xml and a suggested AAP.xml (attribute acceptance policy).

– 4 –

Configure your /etc/shibboleth/shibboleth.xml. It would be tedious to go into more detail about that here since there are many possibilities.

Also be sure to set the log level to DEBUG in shar.logger:
"log4j.rootCategory=DEBUG, shar_log"

– 5 –

Configure your web server. If you're using apache and your site is <https://example.nsd.org/> and the protected section is under <https://example.nsd.org/secure/>.

Parts of httpd.conf might look like this:

```
LoadModule mod_shib /opt/shibboleth-1.2.1/libexec/mod_shib_20.so
ShibSchemaDir /opt/shibboleth-1.2.1/share/shibboleth
ShibConfig /etc/shibboleth/shibboleth.xml
```

```
<VirtualHost 10.1.2.3:443>
  ServerName example.nsd.org
  SSLEngine on
  <Location /secure>
    AuthType shibboleth
    ShibRequireSession on
    Require valid-user
  </Location>
</VirtualHost>
```