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# Shibboleth SP Installation on Windows



<https://www.gluu.org/>

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## Install Shibboleth-SP

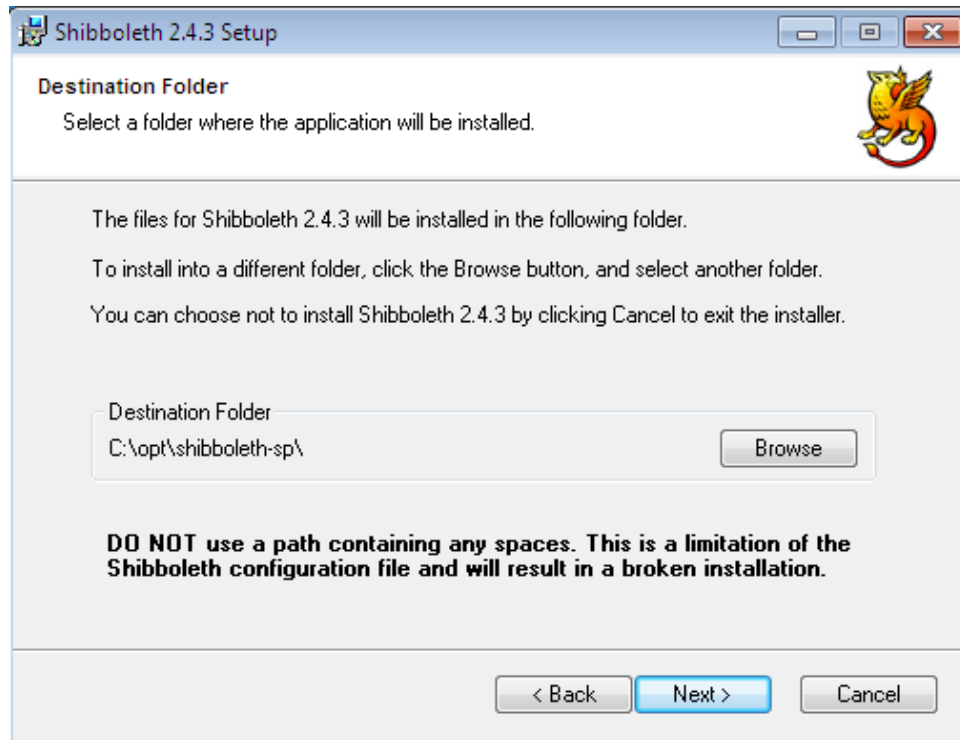
1. Download MSI of Shibboleth-SP from:  
<http://www.shibboleth.net/downloads/service-provider/latest/>
2. Start installation by double clicking
3. License agreement

**Figure 1.**



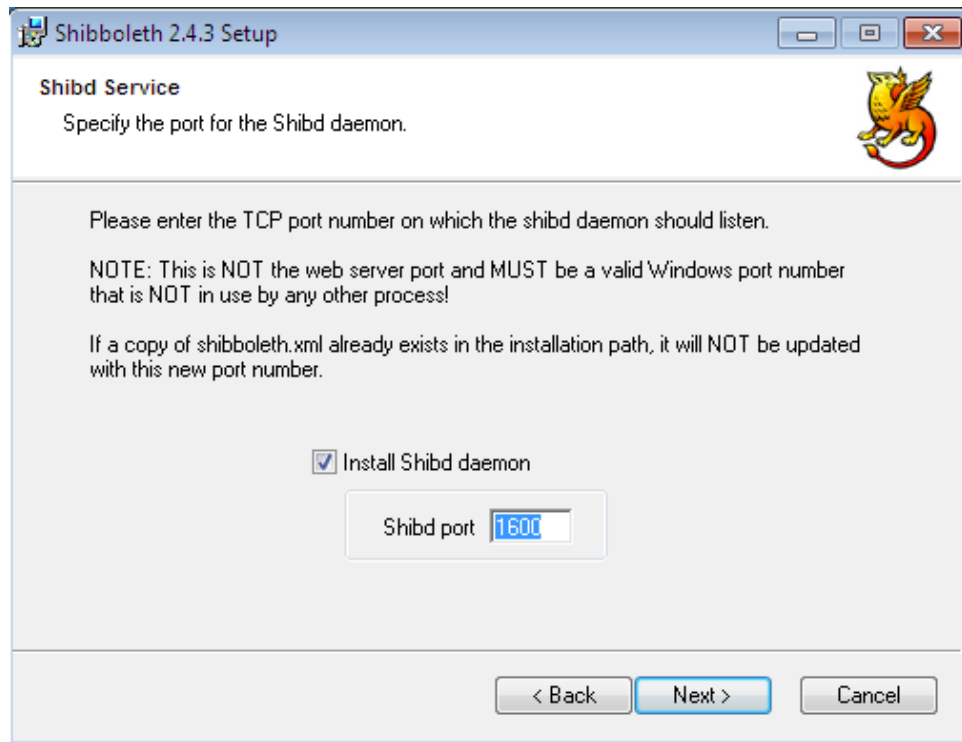
4. Destination folder (by default it is: C:\opt\shibboleth-sp\) You can select any directory, but this is best to follow the tree \opt\shibboleth-sp\

**Figure 2.**



5. Select Shibboleth Daemon port: default is 1600, you can keep it for local testing

**Figure 3.**



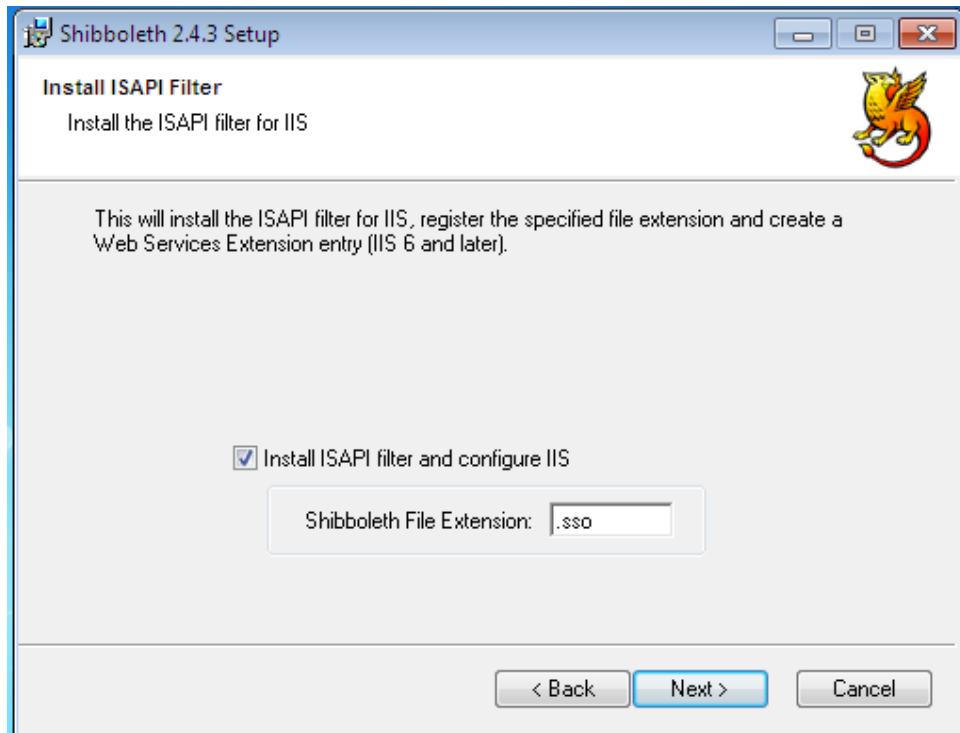
6. Now: there are two options here. And you have to follow anyone (not both) for your existing infrastrucuter.

Option 1: If you are installing Shibboleth for Mirosoft IIS Web server

Option 2: If you are installing Shibboleth for Apache Web server

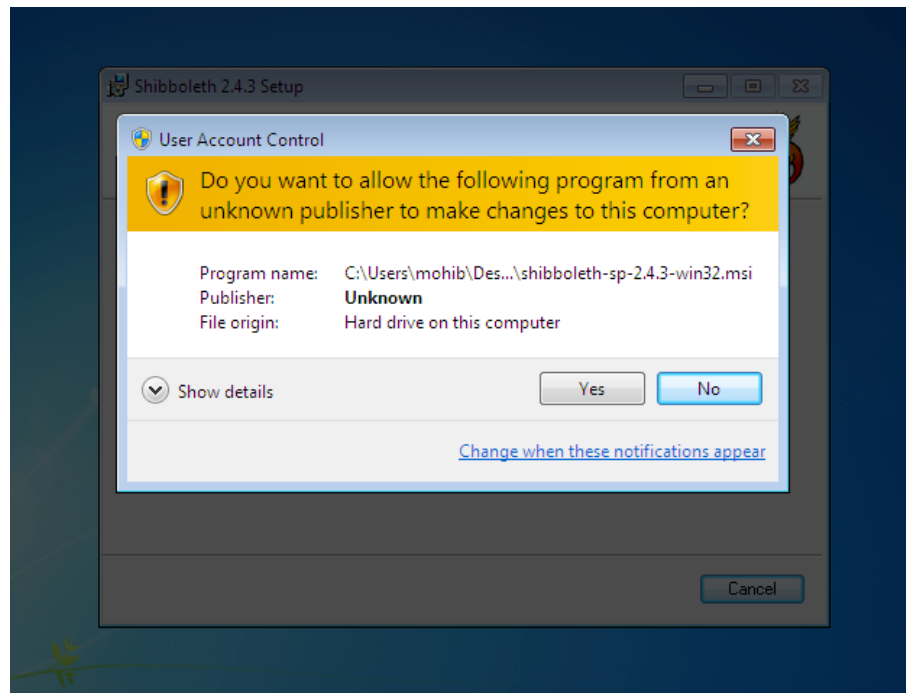
For Microsoft IIS Web Server, you have to:Check "Install ISAPI filter and configure IIS", remember to put the file Extension ".sso". this is necessary

**Figure 4.**



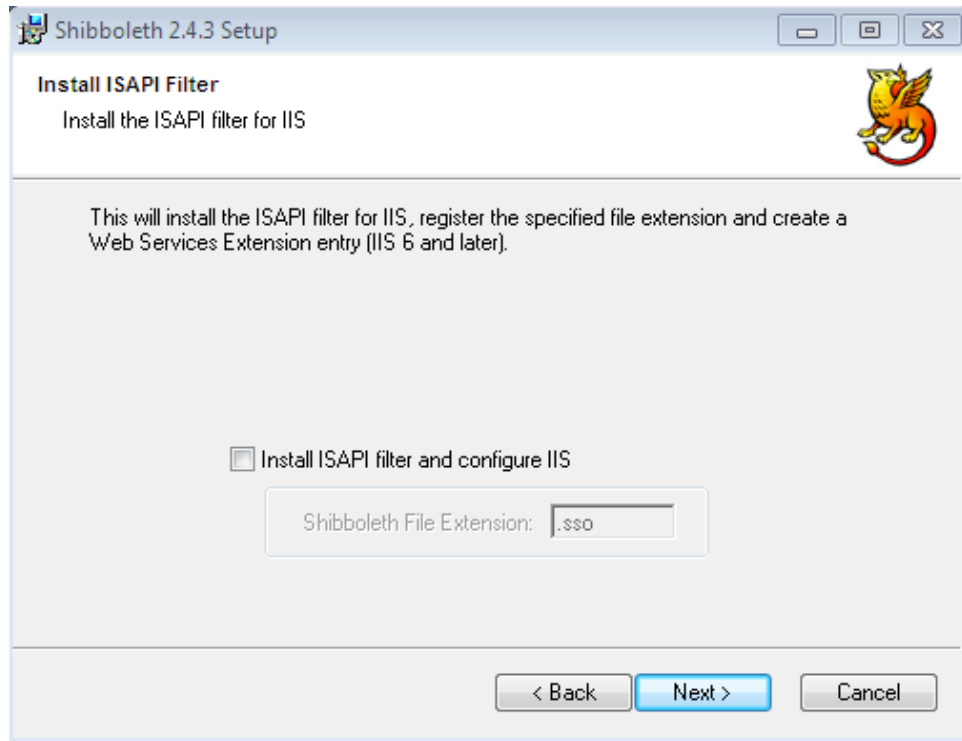
UAC of Windows 7 may block this program, so accept it

**Figure 5.**



For Apache Web Server, you have to:UNCHECK "Install ISAPI filter and configure IIS".

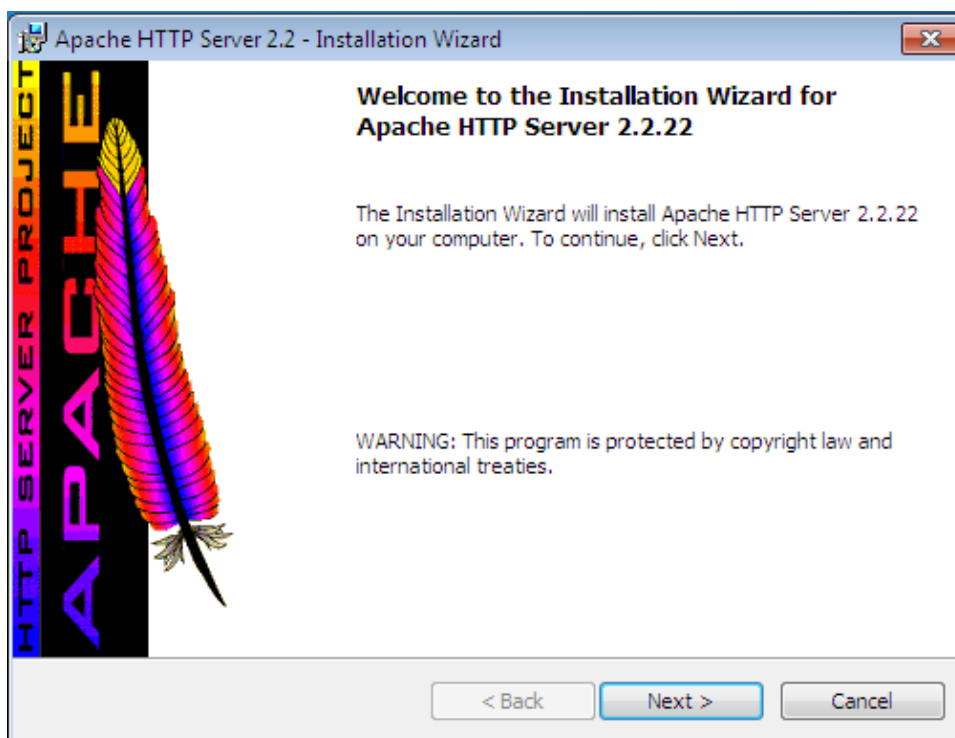
**Figure 6.**



## Apache2 Installation

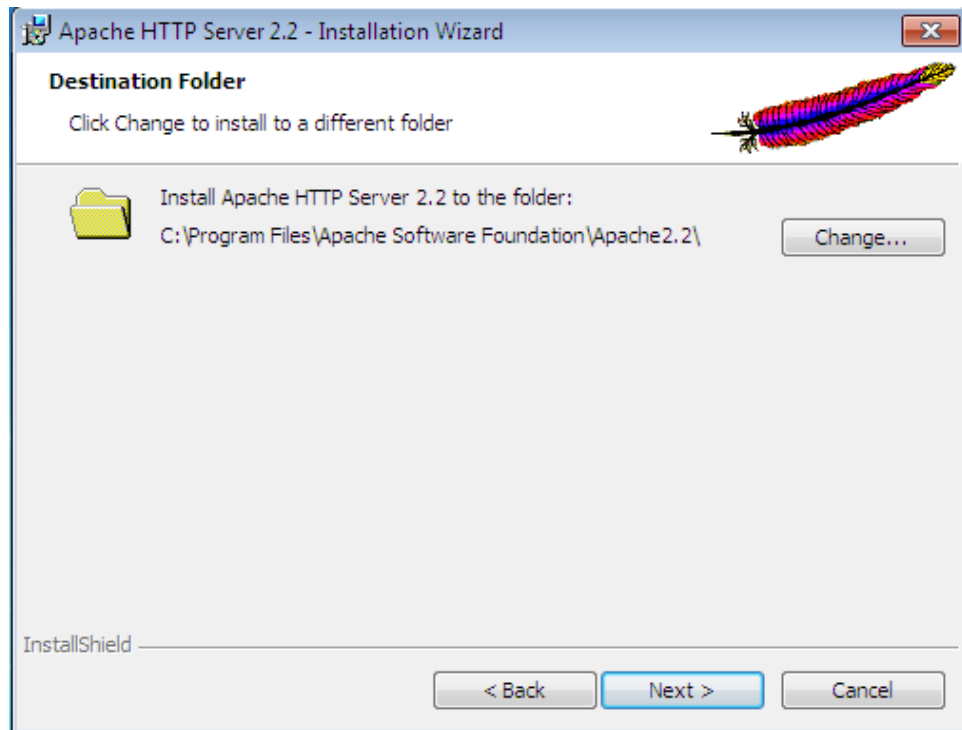
1. Download Apache HTTP server MSI Installer with OpenSSL:  
<http://httpd.apache.org/download.cgi#apache22>
2. Start installation by double clicking

**Figure 7.**



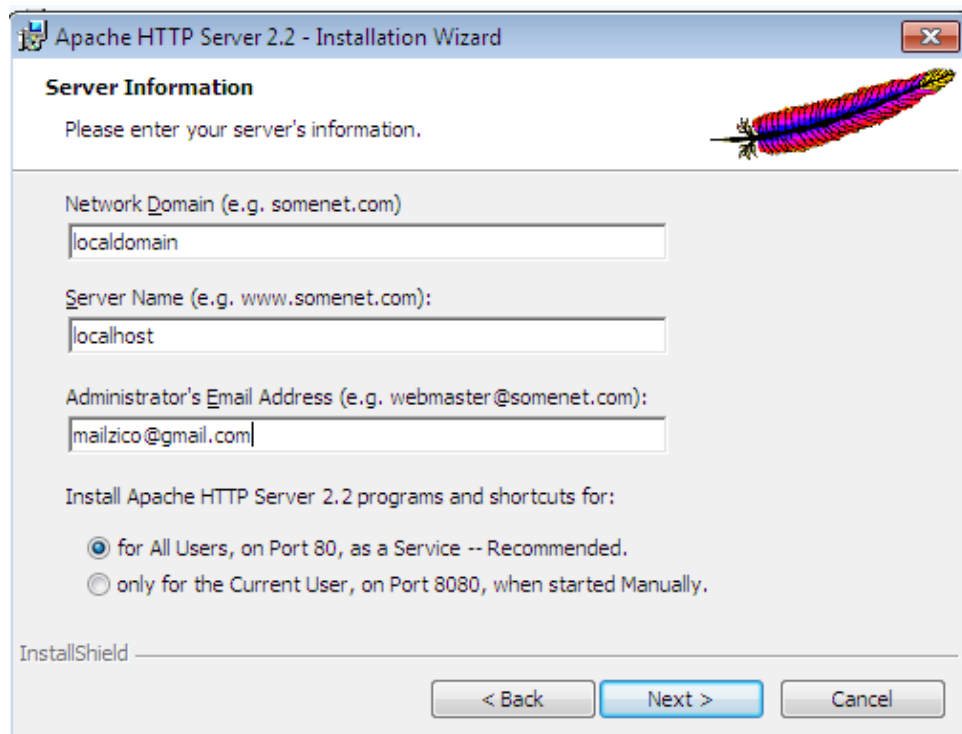
3. Select Destination. You can keep the default destination for your local testing. But, be sure that there is no other "Apache Software Foundation" directory in your current "C:\Program Files\" location

**Figure 8.**



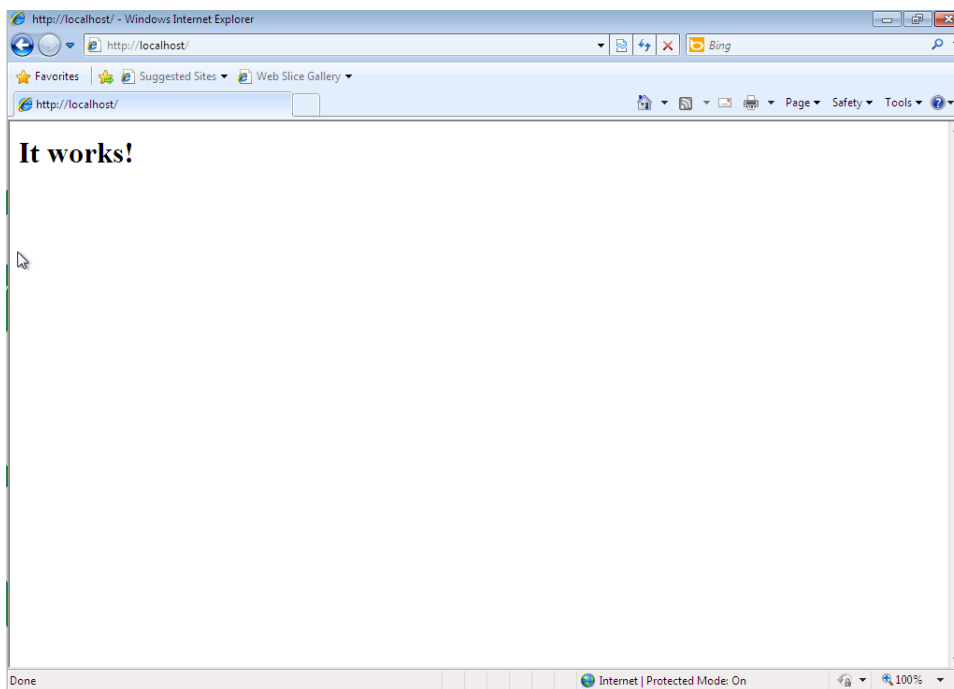
4. Insert Server Informations. For local testing, you can use "localdomain/localhost"

**Figure 9.**



5. Test if Apache is installed or not. Open your web browser and use "localhost". If you see something like below image; you are done!

**Figure 10.**



## Shibboleth and Apache Configuration

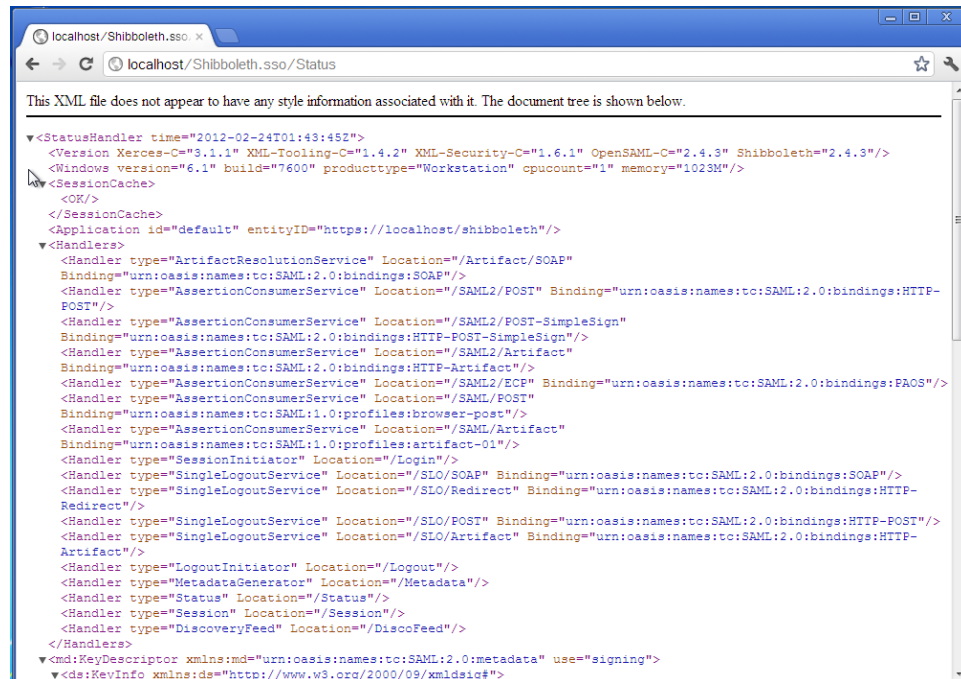
1. Change the permission of Apache Installation Directory, provide "write" access
2. httpd.conf configuration
  - a. Change: "ServerName localhost:80" ( for your local testing )
  - b. Copy apache22.conf from Shibboleth directory to ~/apache/conf/extra/
3. Shibboleth2.xml configuration
  - a. Change: Host name="localhost" ( for local testing )
  - b. Change: entityID="https://localhost/shibboleth" ( for local testing )
  - c. Change: ApplicationOverride id="admin" entityID="https://localhost/shibboleth/"
4. Reboot your Windows box

Test SP installation with Windows and Apache

Open Web browser and insert the address: localhost/Shibboleth.sso/Status

If you can see some XML page like below, you are done with you SP installation in Windows through Apache2



**Figure 11.**

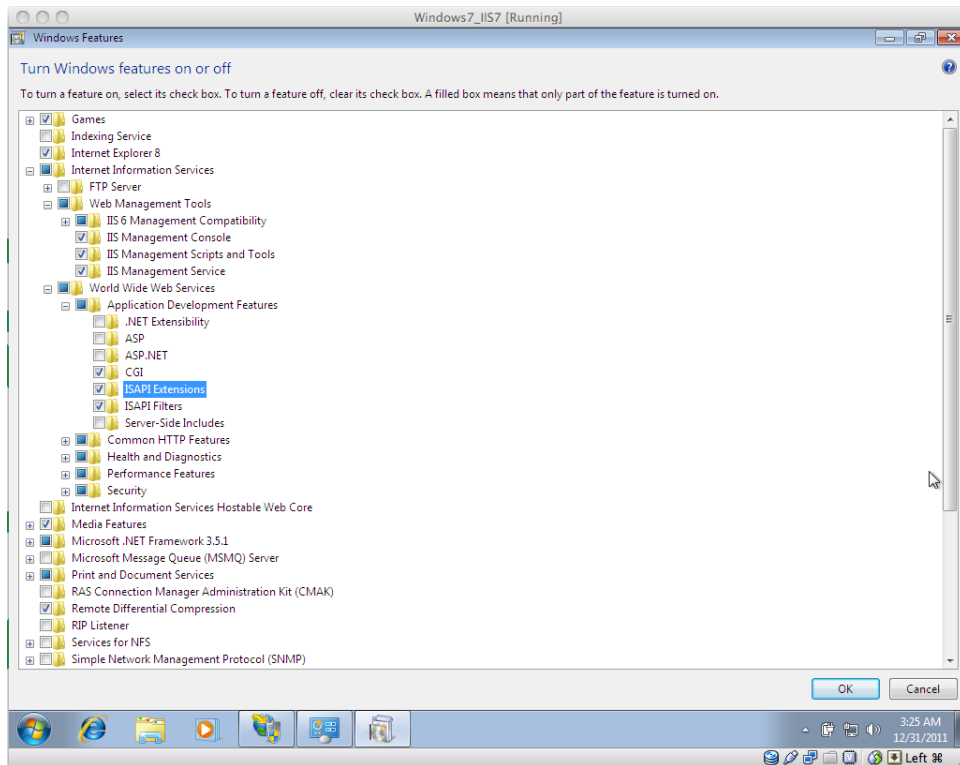
## IIS7 Installation

1. Start-Control Panel-Programs-"Turn Windows features on or off"

Select (i) IIS (ii) Web Management Tools (iii) IIS6 Management Compatibility (iv) IIS Management Console(v) IIS Management Scripts and Tools (vi) IIS Management Service

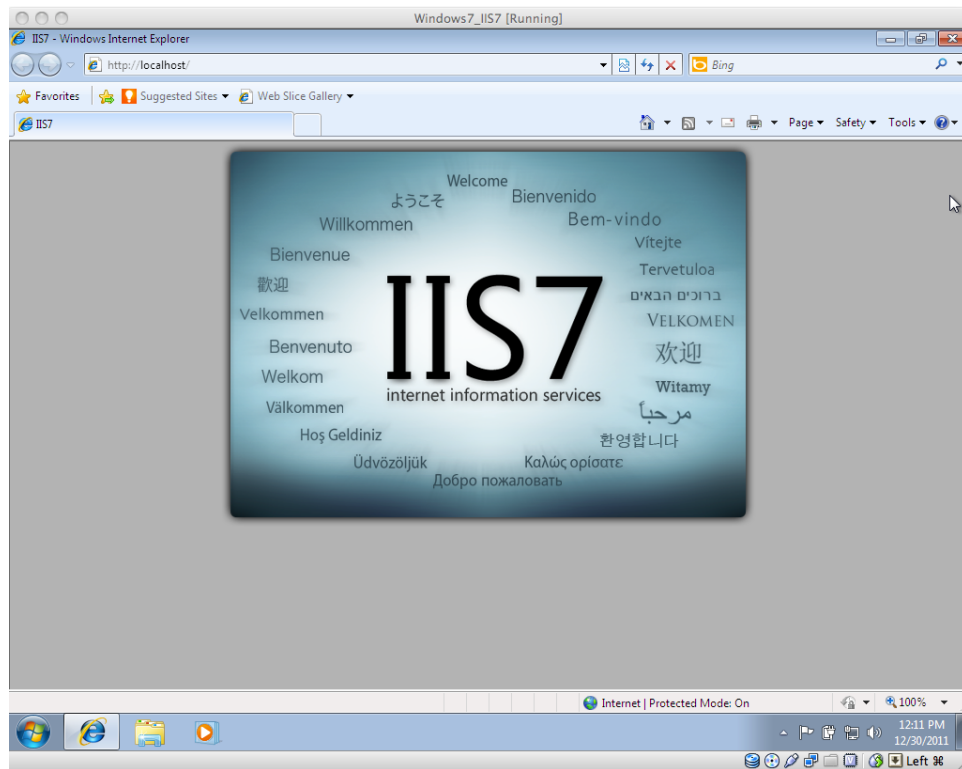
Select (i) World Wide Web Services (ii) CGI (iii) ISAPI Filters (iv) ISAPI Extensions. Press OK.

**Figure 12.**



2. Test IIS7 if it is installed in your system with: "127.0.0.1" in web browser.

**Figure 13.**

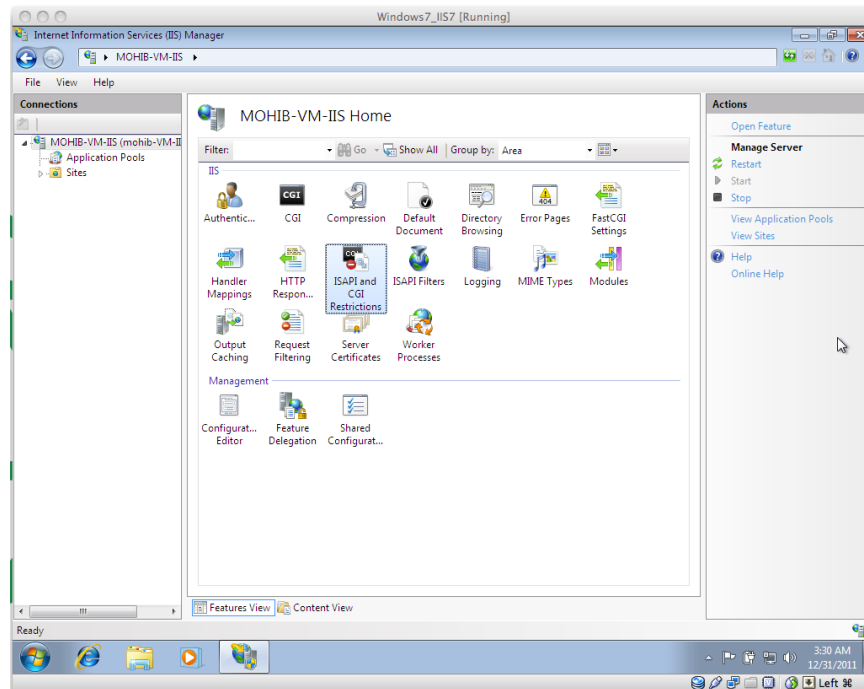


3. Reboot your system

## ISAPI Filter Configuration

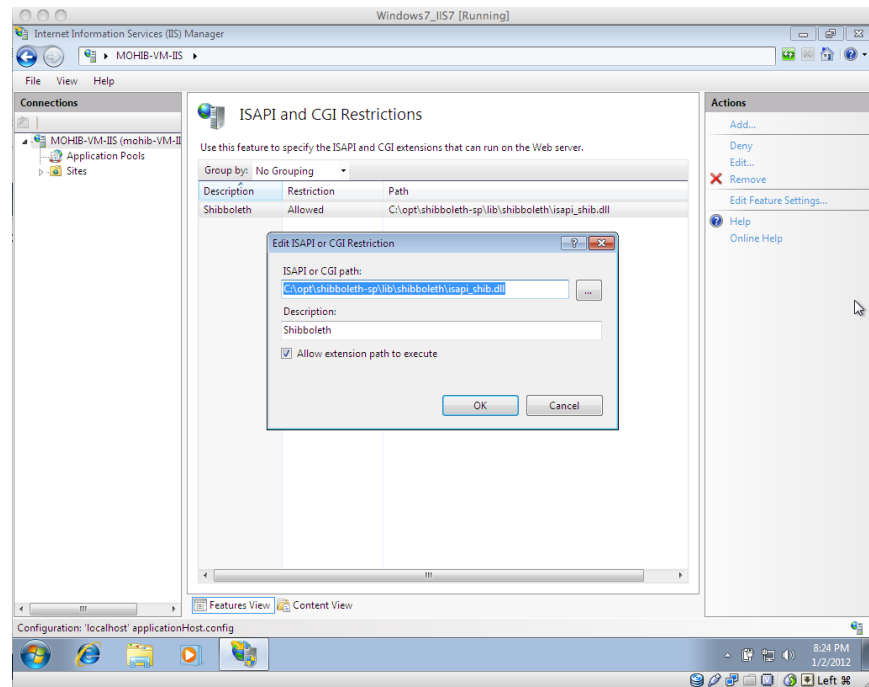
1. Open IIS Manager ( Start -- Administrative Tools -- Internet Information Service (IIS) Manager)
2. Double click on "ISAPI and CGI Restrictions"

**Figure 14.**



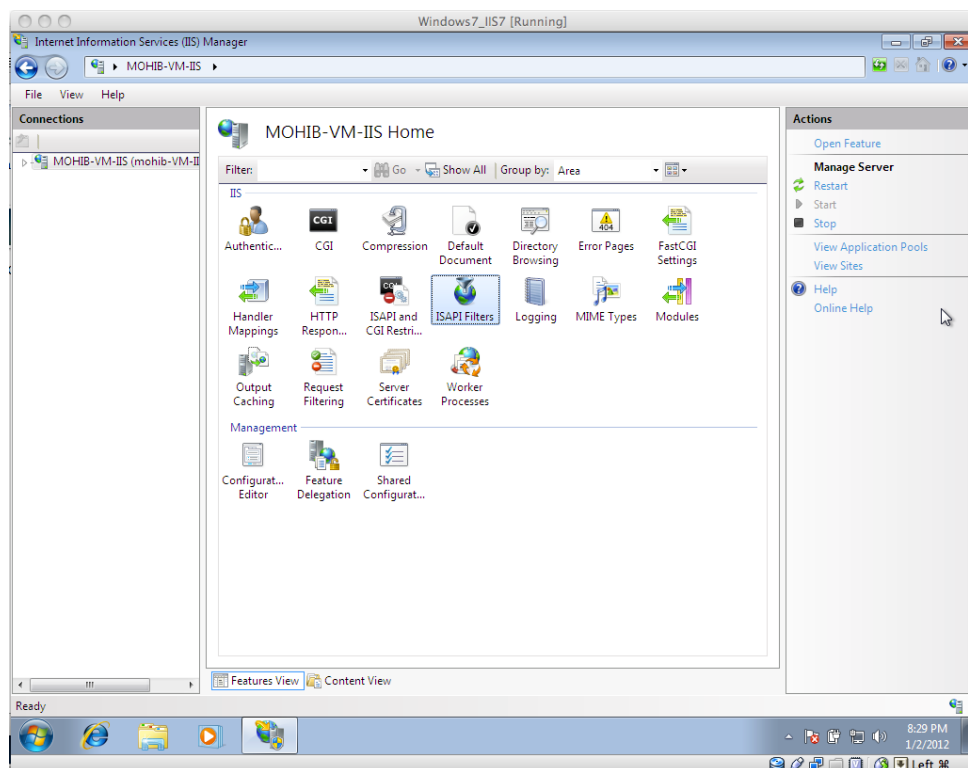
3. Add a new Filter
  - a.
    - i. Click Actions -- Add ( upper right corner)
    - ii. Select \opt\shibboleth-sp\lib\shibboleth\isapi\_shib.dll
    - iii. Description: "Shibboleth"
    - iv. Click "Allow" (from right hand side)

**Figure 15.**



b. Back to IIS Manager -- ISAPI Filters

**Figure 16.**

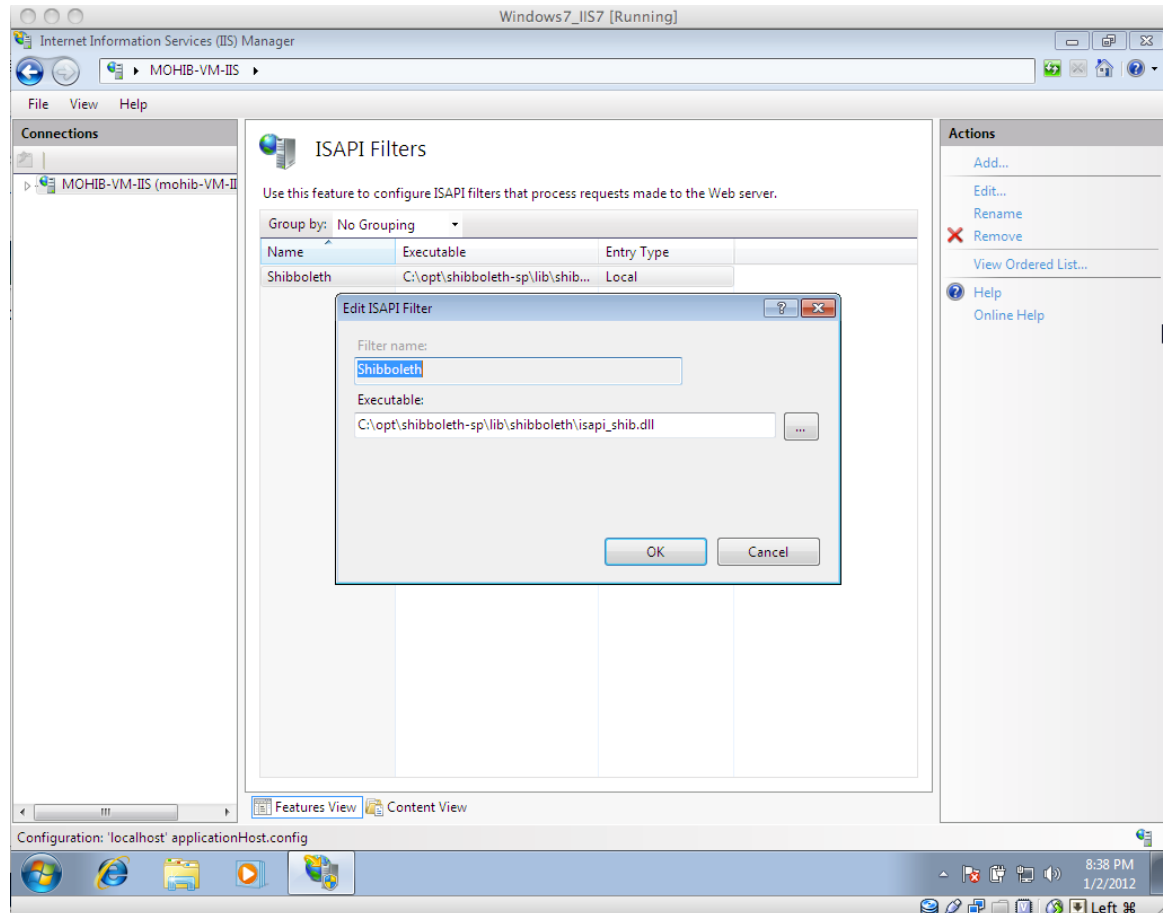


Click "Add" (upper right corner)

Filter name: Shibboleth

Executable: \opt\shibboleth-sp\lib\shibboleth\isapi\_shib.dll

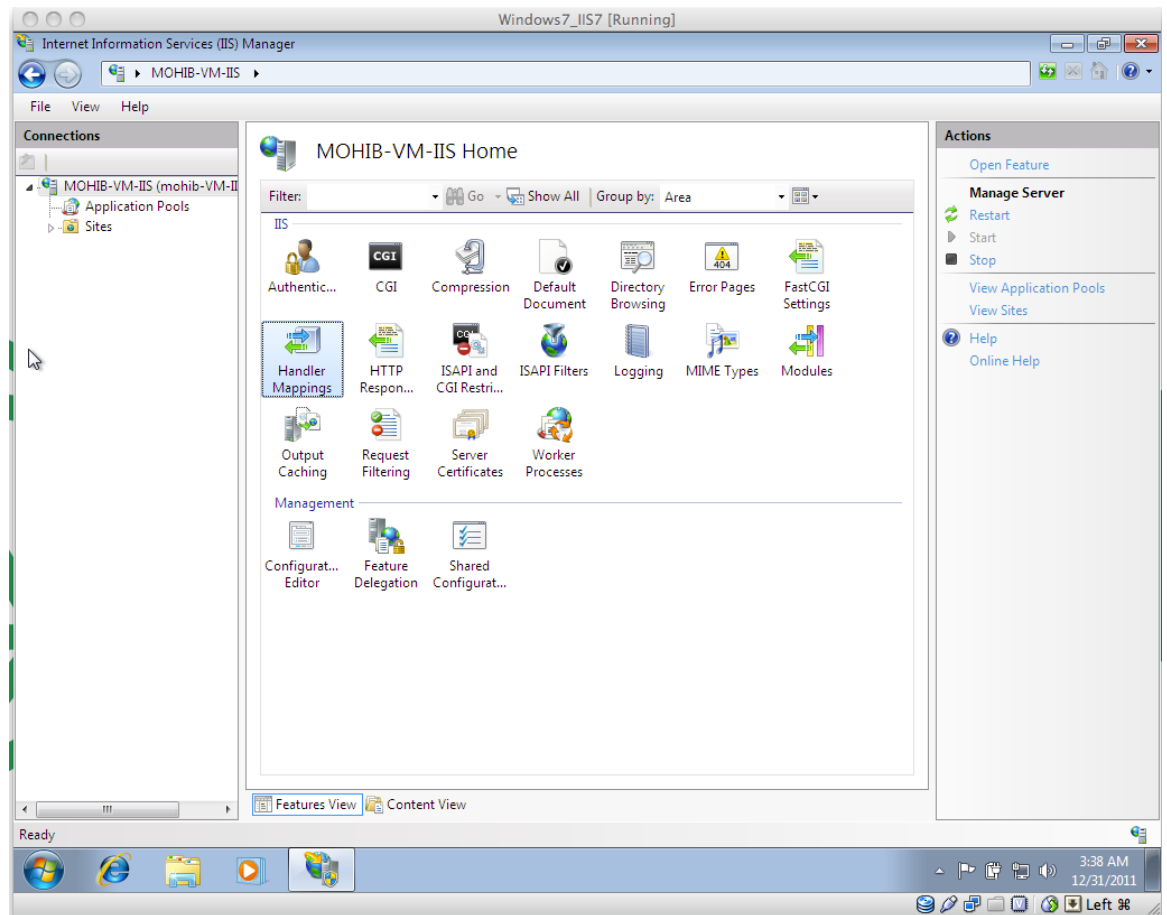
**Figure 17.**



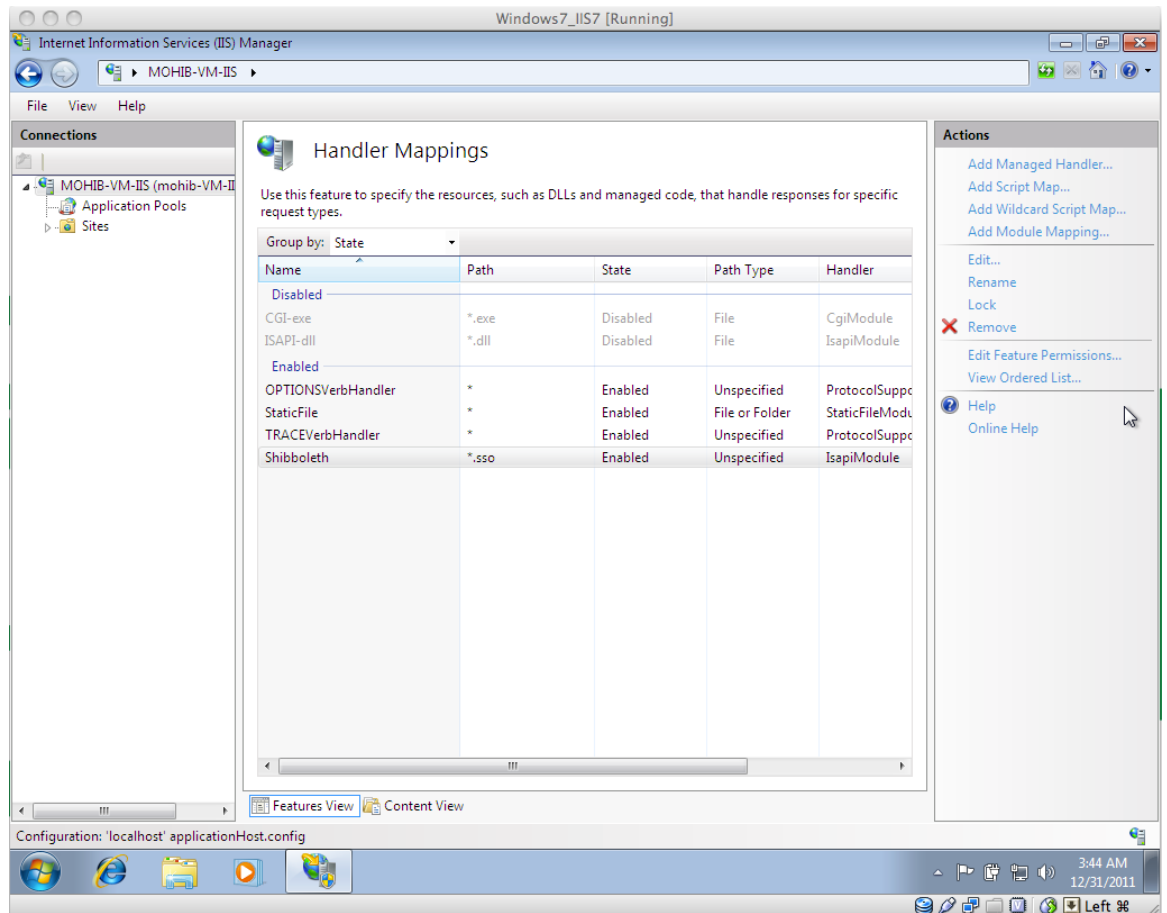
#### 4. SSO file extension mapping

- a. 2.4.1 Click on "Handler Mapping" from main page

**Figure 18.**



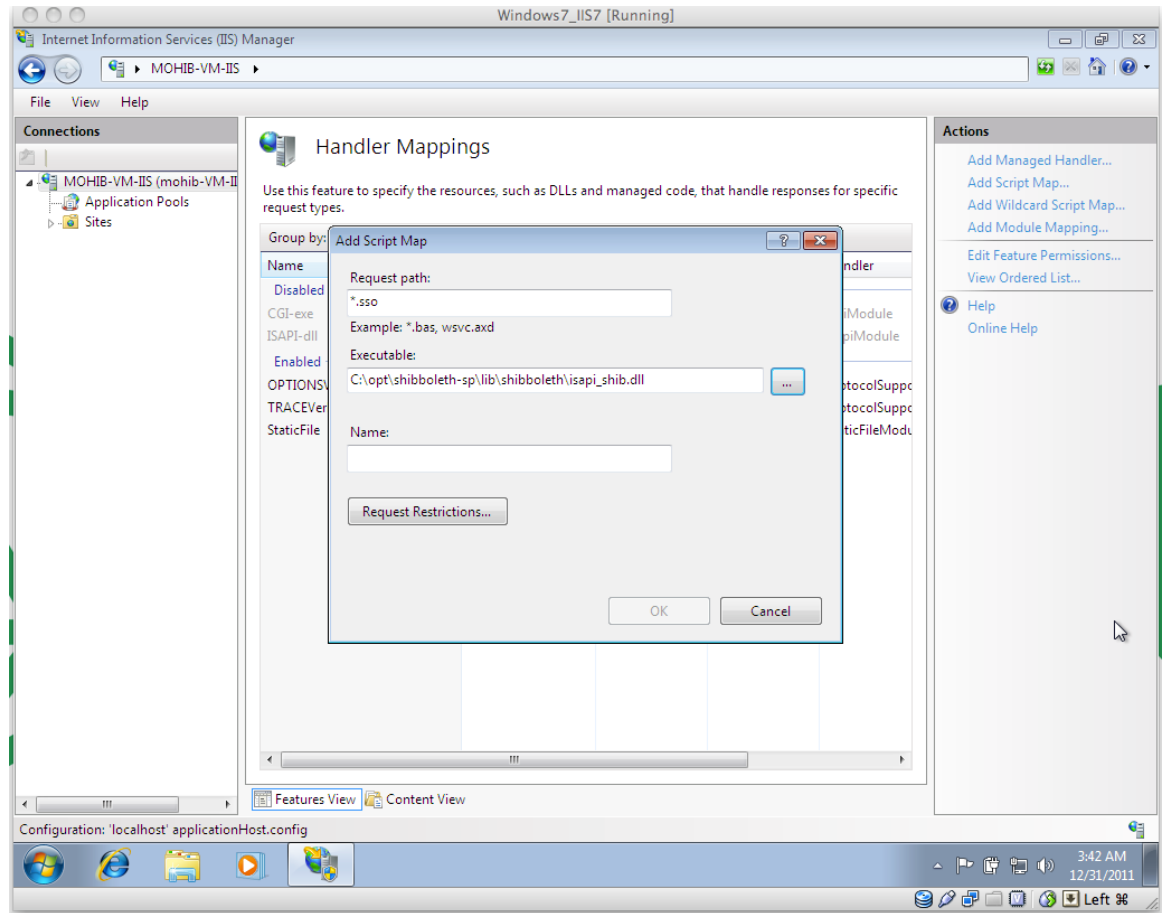
- b. Click "Add Script Map" from Action

**Figure 19.**

- c. Request Path: "\*.sso"
- d. Executable should be pointed to "isapi\_shib.dll"



**Figure 20.**

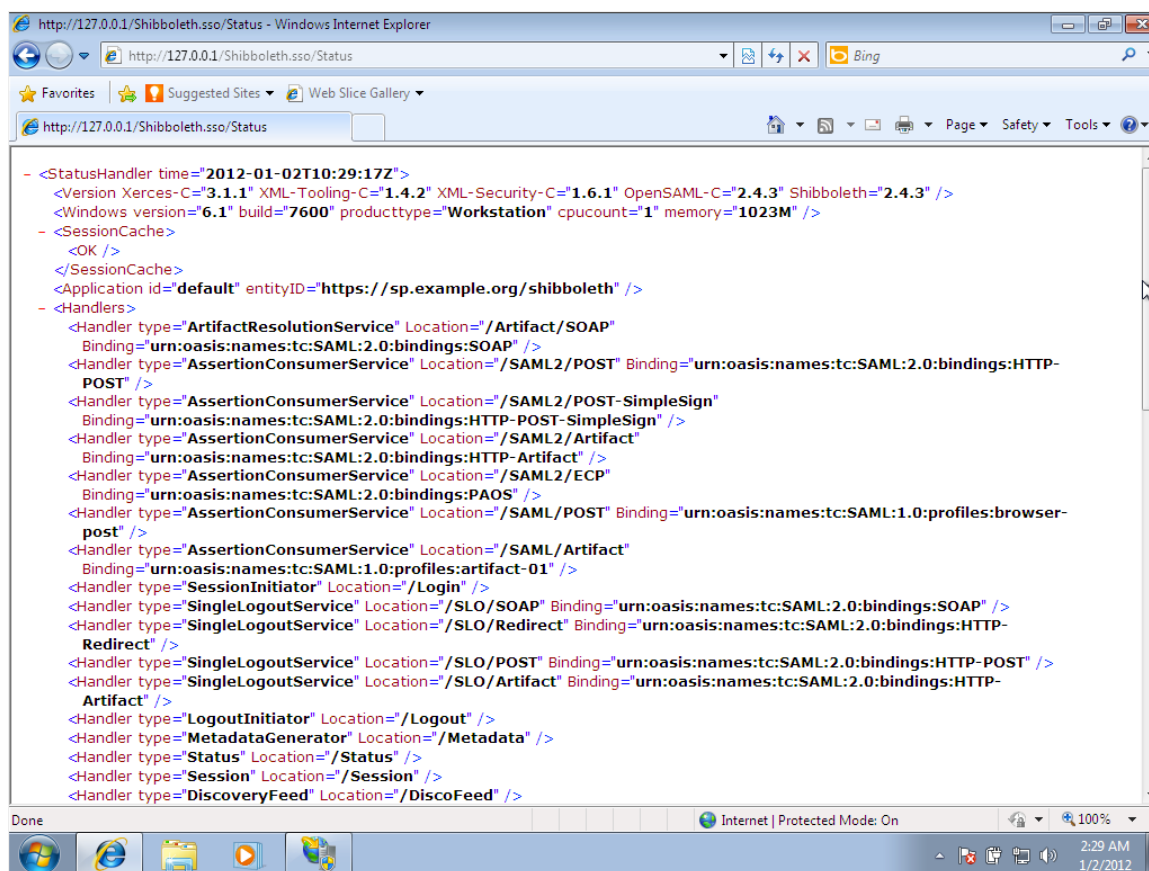


5. Restart IIS

6. Check Status

Check your status by "http://127.0.0.1/Shibboleth.sso/Status" in Web browser. If you see an XML document, then you are done with your Shibboleth SP Installation in Windows IIS7

Figure 21.



Further step: if you want to establish SSO with your site, you need an Identity Provider and their metadata and certificates.