

Configure Single Sign on Between Domino and WPS

What we are doing here?

Ok – now we have the WPS server configured and running with Domino as the LDAP directory. Now we are going to configure Single Sign on between Domino and WPS.

Why we are doing it?

Enabling this will allow users to log into the portal, and then access their email, without re-signing in. Also, it will allow for online awareness to operate using the Sametime engine.

How do we do it?

There are a number of steps to be completed. We have to create a common token between Domino and Websphere for SSO. We also have to configure some WPS properties and tell WPS about the domino server's details, so it can "find" the correct mail files for users.

Create the LTPA token in Websphere

First, **ensure the domino server is running**. Then, **open a dos prompt** and **enter in the following command** to start the Websphere Application Server.

"c:\ibm\websphere\appserver\bin\startserver.bat server1"

When it is up and running, it will look like below.

```
C:\>c:\ibm\websphere\appserver\bin\startserver.bat server1
ADMU0116I: Tool information is being logged in file
           C:\ibm\WebSphere\profiles\wp_profile\logs\server1\startServer.log
ADMU0128I: Starting tool with the wp_profile profile
ADMU3100I: Reading configuration for server: server1
ADMU3200I: Server launched. Waiting for initialization status.
ADMU3000I: Server server1 open for e-business; process id is 2292
```

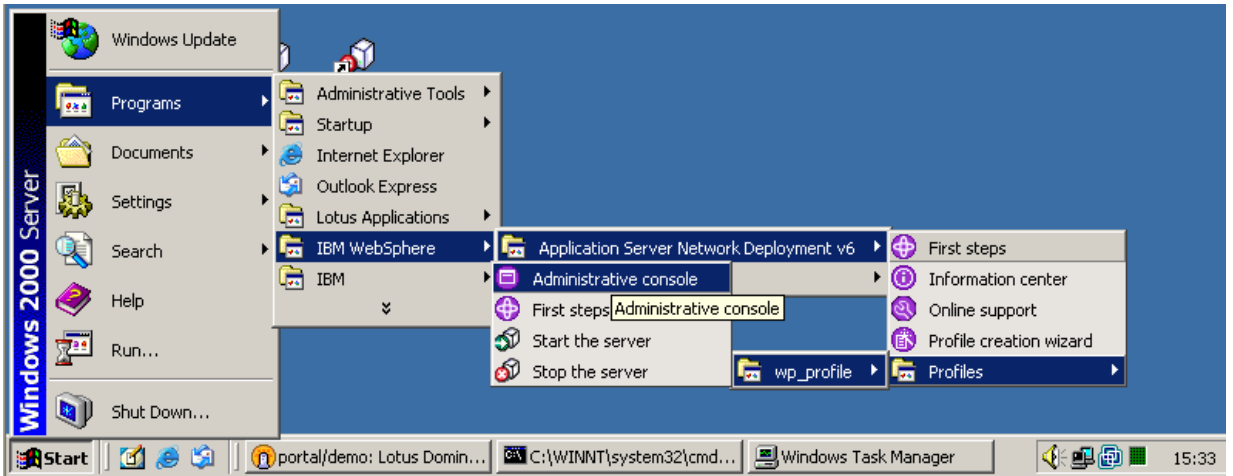
You will remember earlier that Websphere Portal Server runs on top of Websphere Application Server. We are going into Websphere Application Server administration now to create the LTPA token.

From the Windows start bar, **click on the following**:

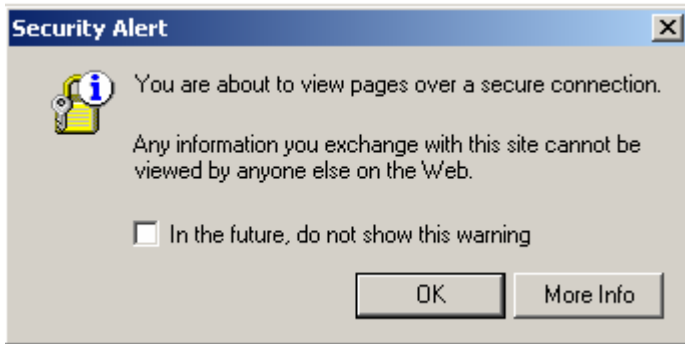
**START/PROGRAMS/IBM WEBSHERE/APPLICATION SERVER
NETWORK DEPLOYMENT**

V6/PROFILES/WP_PROFILE/ADMINISTRATIVE CONSOLE

(shown below)



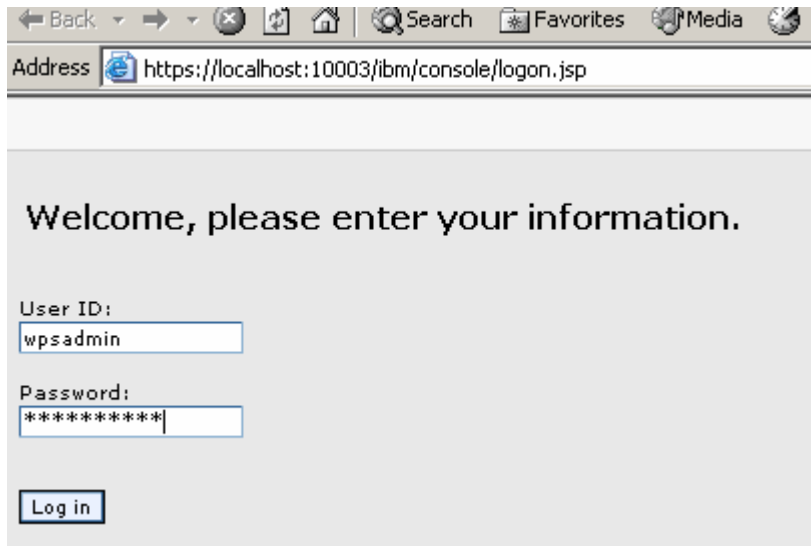
You will see the following screen. **Click on OK.**



Accept the SSL certificate by **clicking on YES**

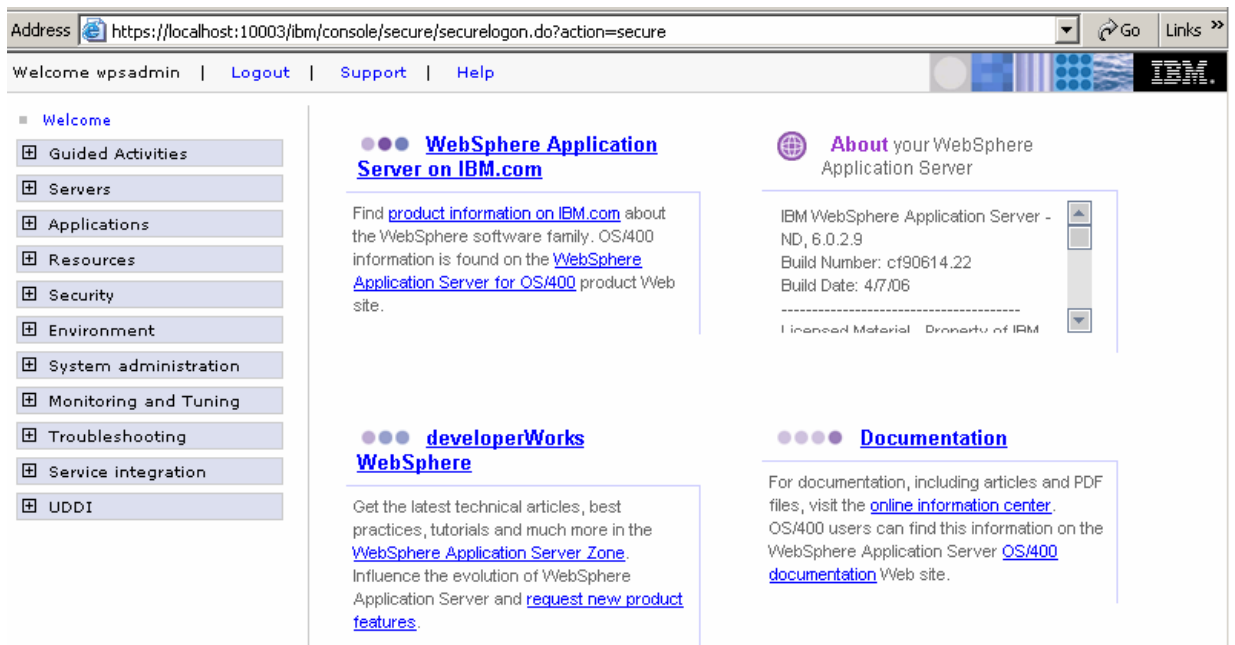


The WAS login screen appears as below. **Login as WPSADMIN with the password of lotusnotes.** The click on **LOGIN**



A screenshot of a web browser window showing the WAS login page. The address bar displays "https://localhost:10003/ibm/console/logon.jsp". The page content includes a heading "Welcome, please enter your information." followed by two input fields: "User ID:" with the value "wpsadmin" and "Password:" with masked characters "*****". A "Log in" button is located below the password field.

You are now in the WAS administrative console. This is where you will create the LTPA key that will allow for single sign on between Websphere applications and domino.



A screenshot of the WAS administrative console. The address bar shows "https://localhost:10003/ibm/console/secure/securelogon.do?action=secure". The page features a navigation menu on the left with items like "Welcome", "Guided Activities", "Servers", "Applications", "Resources", "Security", "Environment", "System administration", "Monitoring and Tuning", "Troubleshooting", "Service integration", and "UDDI". The main content area is divided into three columns. The first column has a heading "WebSphere Application Server on IBM.com" and text about finding product information. The second column has a heading "About your WebSphere Application Server" and displays server details: "IBM WebSphere Application Server - ND, 6.0.2.9", "Build Number: cf90614.22", "Build Date: 4/7/06", and "Licensed Material - Property of IBM". The third column has a heading "Documentation" and text about visiting the online information center for OS/400 users.

On the left hand side of the screen, **click on SECURITY and GLOBAL SECURITY.**



This brings you to the security configuration area. Now **click on AUTHENTICATION MECHANISMS AND LTPA** on the right hand side of the screen.

Authentication



This brings you to where you create the LTPA token.

A screenshot of a web application's configuration page titled 'Global security > LTPA'. The page has a blue header bar with the title. Below the header, there is a paragraph of text explaining the LTPA configuration. Underneath the text is a 'Configuration' section with a light blue border. At the top of this section are three buttons: 'Generate Keys', 'Import keys', and 'Export Keys'. Below these buttons are two columns of properties. The left column is titled 'General Properties' and contains three required fields: 'Password' (masked with asterisks), 'Confirm password' (masked with asterisks), and 'Timeout' (with the value '120'). Below these is a 'Key file name' field. The right column is titled 'Additional Properties' and contains two radio button options: 'Single signon (SSO)' and 'Trust association'. At the bottom of the configuration section are four buttons: 'Apply', 'OK', 'Reset', and 'Cancel'.

Set the password fields to lotusnotes. Set the KEY FILE NAME to c:\wasdominokey.key.

Configuration

Generate Keys Import keys Export Keys

General Properties

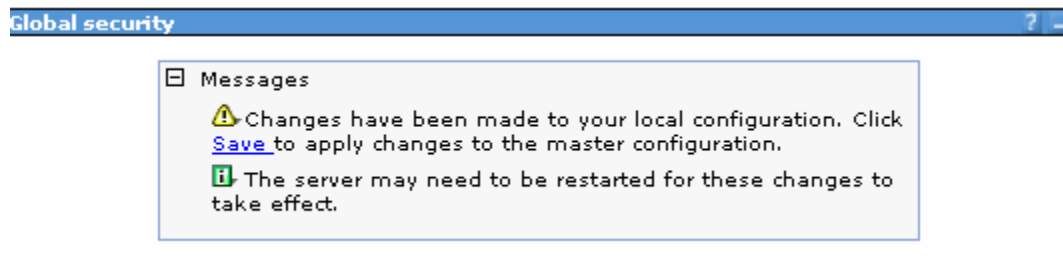
- * Password: *****
- * Confirm password: *****
- * Timeout: 120
- Key file name: c:\wasdominokey.key

Additional Properties

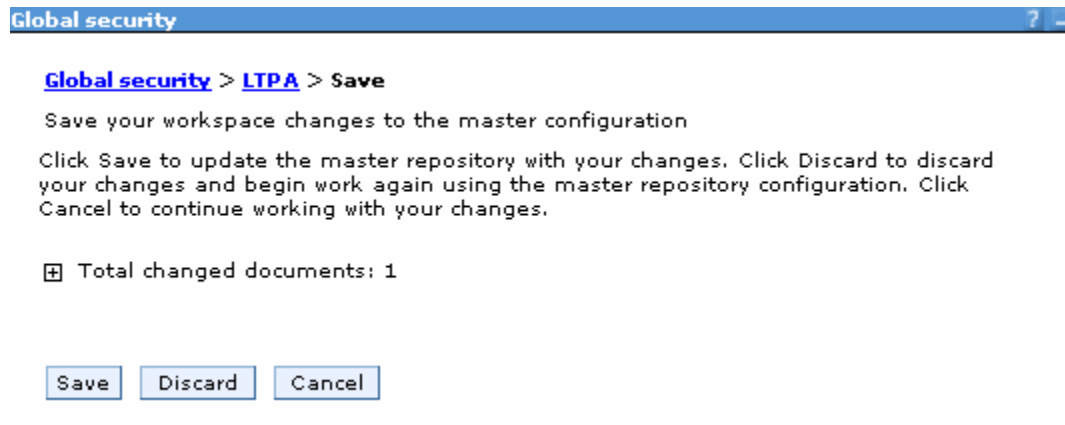
- Single signon (SSO)
- Trust association

Apply OK Reset Cancel

Click on EXPORT KEYS. This will create the key on the c:\ drive. You will then be asked to save the configuration change you have just made. **Click on SAVE.**



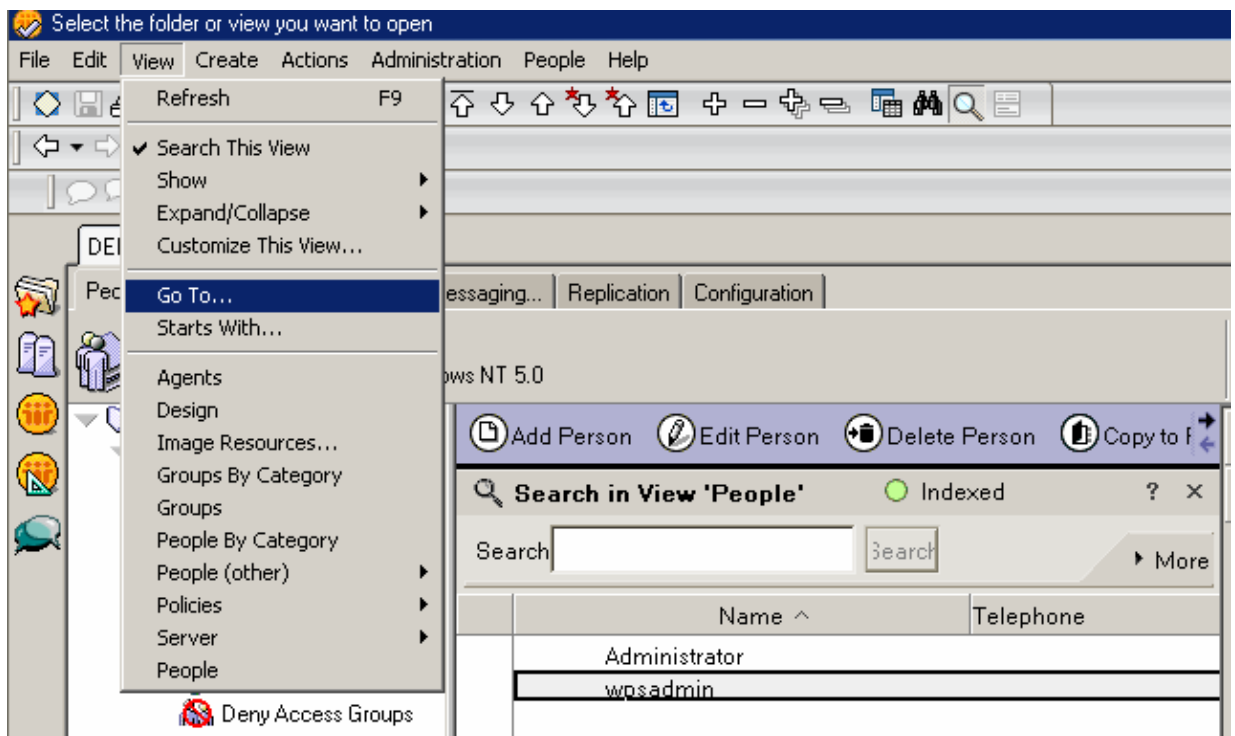
You will then have to confirm. **Click on SAVE again:**



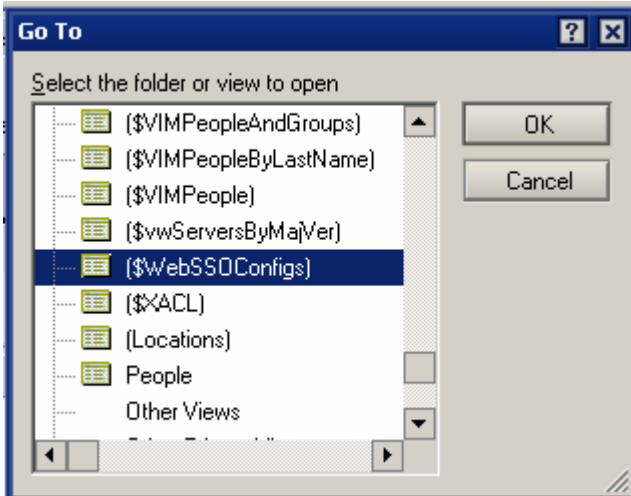
Once that is done, **close the administrative console.**

Import the LTPA key into Domino.

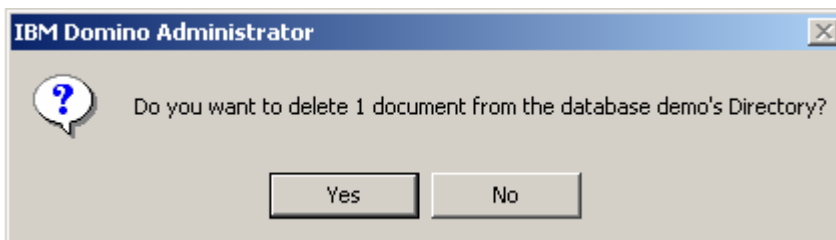
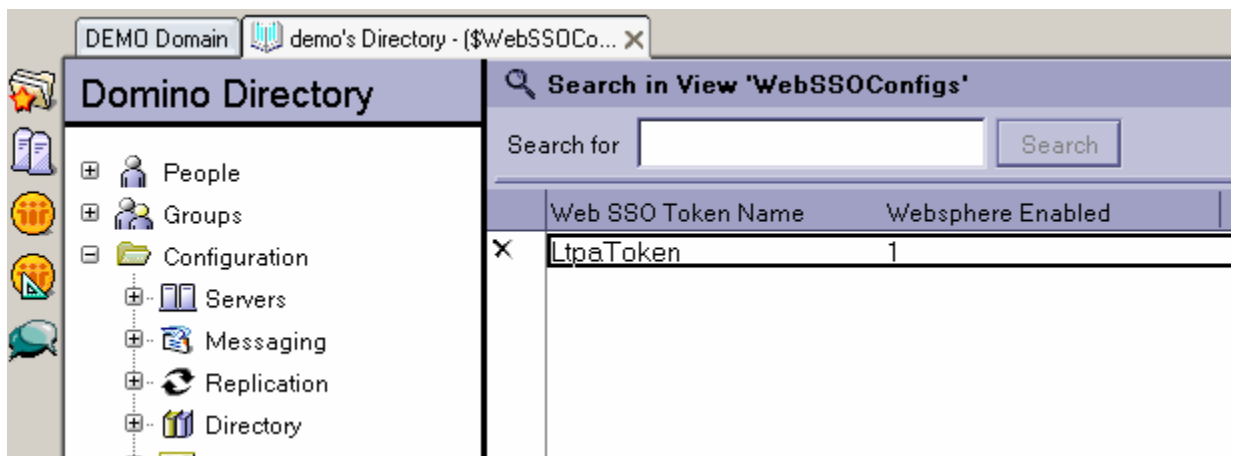
Launch the Notes Administration client. Your domino server should still be running at this point. Navigate to the **PEOPLE view under PEOPLE AND GROUPS tab.** Hold down the **CTRL and SHIFT key** on your keyboard and **click on VIEW and GOTO** on the menu. This will open up the ability to see the hidden views in the Domino Directory.



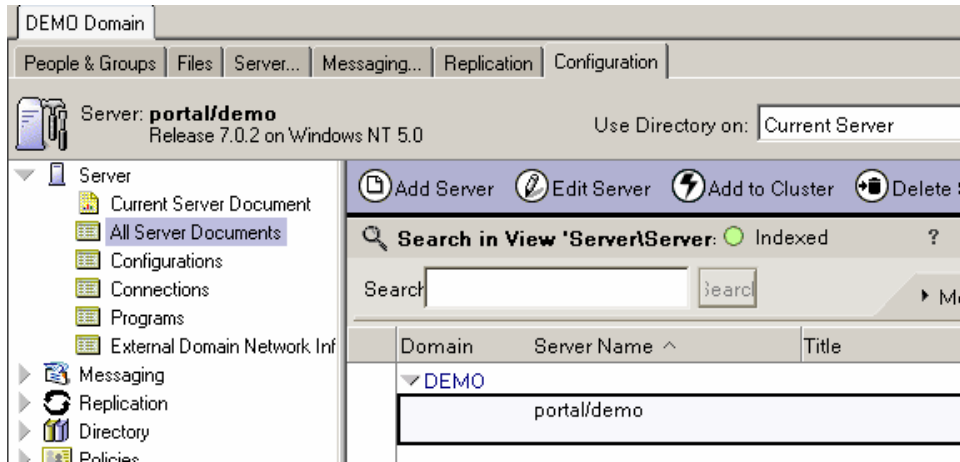
You will see the following screen. **Select the (\$WEBSOCONFIGS) view and click on OK.**



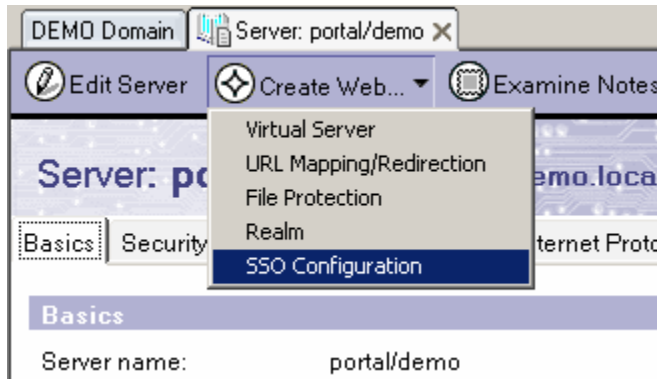
You will see that there is already an LTPA token created for the domain. **Select the document and delete it.** Press the F9 key on your keyboard and **confirm the deletion of the document.** Then **close the VIEW.**



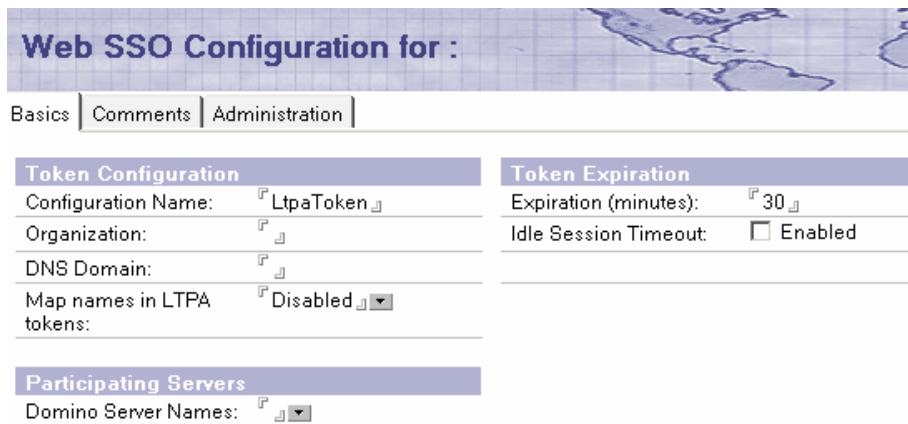
You should now still be in the admin client.. Go to the **CONFIGURATION tab** of the administration client. **Click on the ALL SERVER DOCUMENTS** view.



Open the server document. Then, using the action button, **click on CREATE WEB and SSO CONFIGURATION.**



The SSO Configuration screen opens.



Add **“demo.local”** to the **DNS domain** field and **select the PORTAL/DEMO server** for the **DOMINO SERVER NAMES FIELD** (as below).

Web SSO Configuration for :

Basics | Comments | Administration

Token Configuration

Configuration Name:

Organization:

DNS Domain:

Map names in LTPA tokens:

Token Expiration

Expiration (minutes):

Idle Session Timeout: Enabled

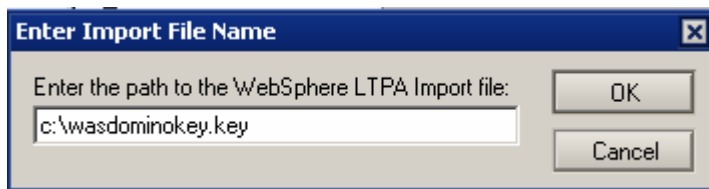
Participating Servers

Domino Server Names:

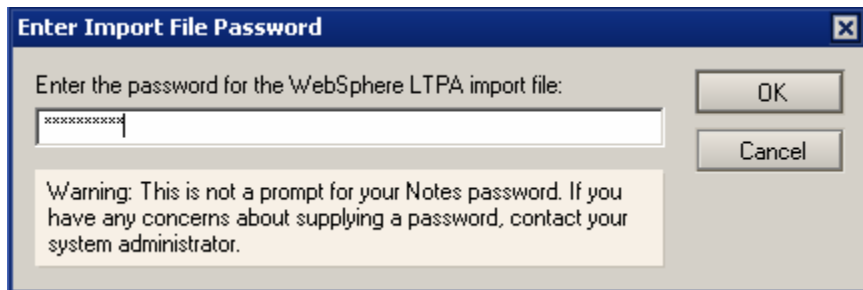
Now, we need to import the Websphere keys. From the action bar, click on **KEYS, IMPORT WEBSHERE LTPA KEYS.**



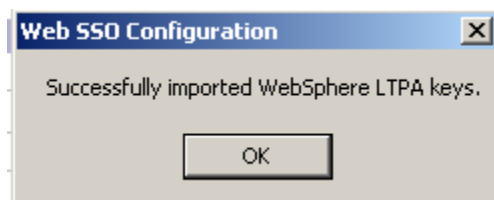
Enter in the path of the LTPA key we created in the earlier step. It is c:\dominowaskey.key. Then **click on OK.**



You will be asked to **enter the password for the key.** Enter in **lotusnotes** and **click on OK.**



If domino is happy, you should see the following screen:



Your screen should look like this now:

Save & Close Keys... Cancel

Web SSO Configuration for :

Basics | Comments | Administration

Token Configuration		Token Expiration	
Configuration Name:	<input type="text" value="LtpaToken"/>	Expiration (minutes):	<input type="text" value="30"/>
Organization:	<input type="text" value=""/>		
DNS Domain:	<input type="text" value="demo.local"/>		
Map names in LTPA tokens:	<input type="text" value="Disabled"/>		

Participating Servers

Domino Server Names:

WebSphere Information

LDAP Realm:

Click on **SAVE** and **CLOSE** to continue.

Now, **close the Administration client.**

Open a DOS prompt and type in the following:

"c:\IBM\WebSphere\Appserver\bin\StopServer.bat server1 -username wpsadmin -password lotusnotes" (note you are adding in the user name and password as WAS and WPS requires you to give an administrator name and password to stop the server.

This will stop the server1 instance you needed to configure the LTPA token in WAS. The server should stop as follows.

```
C:\>c:\ibm\websphere\appserver\bin\stopserver.bat server1 -username wpsadmin -password lotusnotes
ADMU0116I: Tool information is being logged in file
           C:\ibm\WebSphere\profiles\wp_profile\logs\server1\stopServer.log
ADMU0128I: Starting tool with the wp_profile profile
ADMU3100I: Reading configuration for server: server1
ADMU3201I: Server stop request issued. Waiting for stop status.
ADMU4000I: Server server1 stop completed.

C:\>_
```

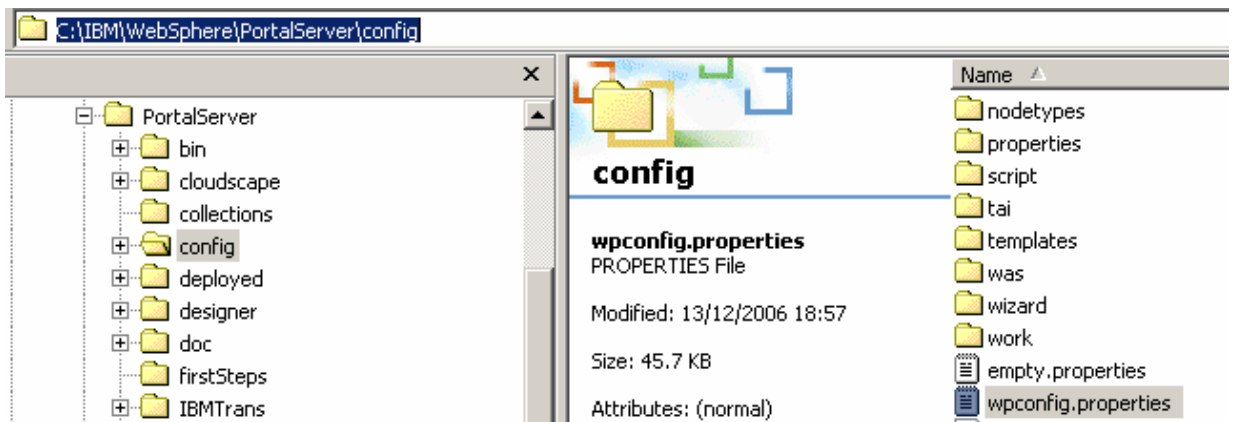
You must **restart the Domino server now**, by typing in **RESTART SERVER** at the console. You will see the following:

```
03/01/2007 10:40:17 AMGr: Executive '1' shutting down. Process id '1912'
03/01/2007 10:40:17 Mail Router shutdown
03/01/2007 10:40:18 LDAP Server: Waiting for all tasks to complete
03/01/2007 10:40:18 Agent Manager shutdown complete
03/01/2007 10:40:18 Event Monitor shutdown
03/01/2007 10:40:20 Index update process shutdown
03/01/2007 10:40:20 HTTP JUM: com.lotus.sametime.admin.namechange.NameChangeServlet: destroy
03/01/2007 10:40:20 HTTP JUM: com.lotus.sametime.materials.servlets.RAPFileServlet: destroy
03/01/2007 10:40:20 HTTP JUM: com.lotus.sametime.mtk.meeting.MeetingServlet: destroy
03/01/2007 10:40:20 HTTP JUM: com.lotus.sametime.statistics.StatisticsServlet: destroy
03/01/2007 10:40:20 HTTP JUM: java.lang.NullPointerException: null
03/01/2007 10:40:21 HTTP Server: Shutdown
03/01/2007 10:41:18 LDAP Server: All tasks have completed
03/01/2007 10:41:18 LDAP Server: Shutdown
03/01/2007 10:41:18 Server shutdown complete. Server will restart in 10 seconds...
s...
```


Configure Domino and Sametime parameters for WPS

One of the final steps is to “tell” WPS about specific domino server and sametime configurations related to the setup. To do this, we must modify the WPCONFIG.PROPERTIES file.

Open a windows explorer session and navigate to “**C:\IBM\WebSphere\PortalServer\config**”. There you will see a file called **WPCONFIG.PROPERTIES**.



Open this file using Notepad. Note it is always useful to create a backup of config files before and after making any alterations.

Modify the following lines by adding the parameters listed below:

Parameter	Value
LCC.DominoDirectory.Enabled	=true
LCC.DominoDirectory.Server	=portal.demo.local
LCC.Sametime.Enabled	=true
LCC.Sametime.Server	=portal.demo.local
LCC.Sametime.Protocol	=http
LCC.Sametime.Port	=80

```
#####
# Lotus Sametime Properties - BEGIN
#####

# Description: Lotus Collaborative Components required properties
#               to enable Lotus Sametime

# LCC.Sametime.Enabled: Is Lotus Sametime enabled in the environment?
# { true | false }
LCC.Sametime.Enabled=true

# LCC.Sametime.Server: The Lotus Sametime server name.
# { hostname | ip address }
LCC.Sametime.Server=portal.demo.local

# LCC.Sametime.Protocol: The protocol used to connect to the Lotus Sametime server.
# { http | https }
LCC.Sametime.Protocol=http
```

Close and save your changes. We now need to run two scripts to put those parameters into the CSENVIRONMENT.PROPERTIES file.

Open a DOS prompt.

Navigate to the **c:\IBM\WEBSphere\PORTALSERVER\CONFIG**

Enter in the following command:

"WPSConfig.bat lcc-configure-dominodirectory > c:\lcc-configure-dominodirectory.log"

This is writing the changes you put in the configuration file (related to domino) to the CSENVIRONMENT.PROPERTIES file. It is also writing an output log file to the c:\ drive. You should see the following:

```
C:\WINNT\system32\cmd.exe
C:\IBM\WebSphere\PortalServer\config>WPSConfig.bat lcc-configure-dominodirectory
> c:\lcc-configure-dominodirectory.log
Property "ReplicationType" being trimmed of trailing blanks!
```

Go to the c:\ drive via explorer and you should see a file called **"LCC-CONFIGURE-DOMINODIRECTORY.LOG"**. **Open this file.**

At the end of the file, you should see a BUILD SUCCESSFUL line.

```
action-post-config:
Wed Jan 03 11:06:50 GMT 2007
  [delete] Deleting: C:\IBM\WEBSPH~1\PORTAL~1\config\work\was\wp_portal.properties
  [delete] Deleting: C:\IBM\WEBSPH~1\PORTAL~1\config\wpconfig_ascii.properties
BUILD SUCCESSFUL
Total time: 25 seconds
```

Now, run the following script in the command prompt.

"WPSConfig.bat lcc-configure-sametime > c:\lcc-configure-sametime.log"

This is writing the changes you put in the configuration file (related to SameTime) to the CSENVIRONMENT.PROPERTIES file. It is also writing an output log file to the c:\ drive. You should see the following:

```
C:\IBM\WebSphere\PortalServer\config>WPSConfig.bat lcc-configure-sametime > c:\lcc-configure-sametime.log
Property "ReplicationType" being trimmed of trailing blanks!
```

Again, go to the c:\ drive via explorer and you should see a file called **"LCC-CONFIGURE-SAMETIME.LOG"**. **Open this file.** At the end of the file, you should see a BUILD SUCCESSFUL line.

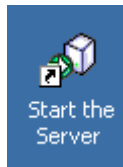
```
action-post-config:
Tue Jan 02 11:12:10 GMT 2007
  [delete] Deleting: C:\IBM\WEBSPH~1\PORTAL~1\config\work\was\wp_portal.properties
  [delete] Deleting: C:\IBM\WEBSPH~1\PORTAL~1\config\wpconfig_ascii.properties
BUILD SUCCESSFUL
Total time: 27 seconds
```

Test and see if it works!

Ok, your domino server should be running. Load the Sametime extension, by typing in **LOAD STADDIN** on the console. Again, this will take a few moments, while all the Sametime services load.

```
> load staddin
02/01/2007 11:43:01 Sametime Server: Starting services
02/01/2007 11:43:27 Sametime Server: Running
```

Load the Websphere Portal Server by double clicking on the **START**

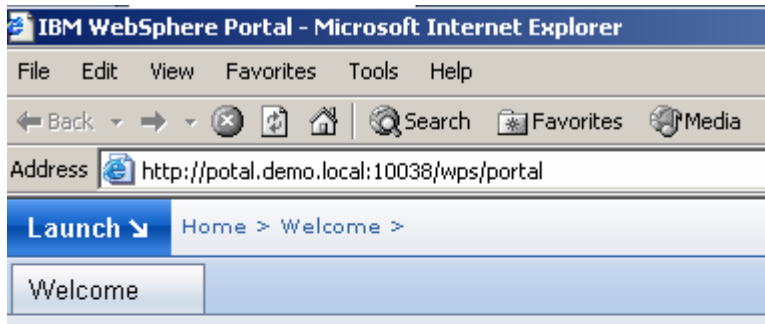


THE SERVER icon.

When the server is ready to be loaded, you will see this.

```
Start the Server
ADMU0116I: Tool information is being logged in file
          C:\ibm\WebSphere\profiles\wp_profile\logs\WebSphere_Portal\startServe
r.log
ADMU0128I: Starting tool with the wp_profile profile
ADMU3100I: Reading configuration for server: WebSphere_Portal
ADMU3200I: Server launched. Waiting for initialization status.
ADMU3000I: Server WebSphere_Portal open for e-business; process id is 4064
Press any key to continue . . .
```

Launch a browser and navigate to **http://portal.demo.local:10038/wps/portal**

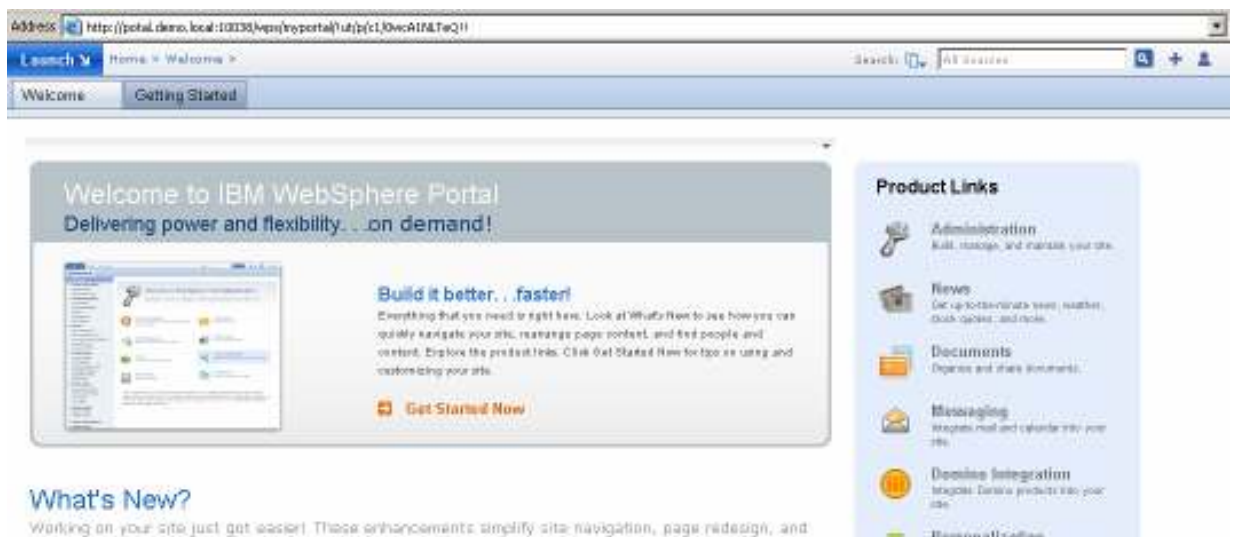


User ID:

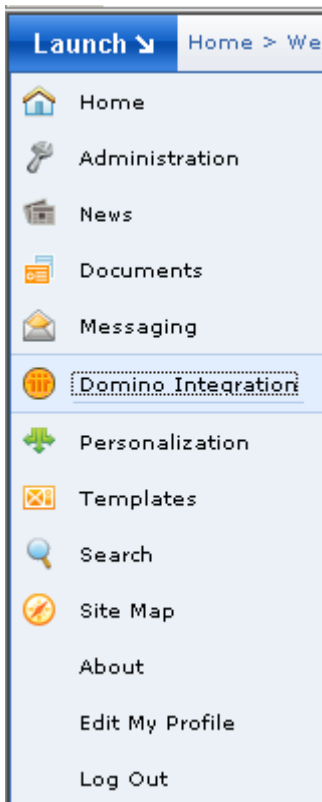
Password:

Not registered? [Sign up](#)

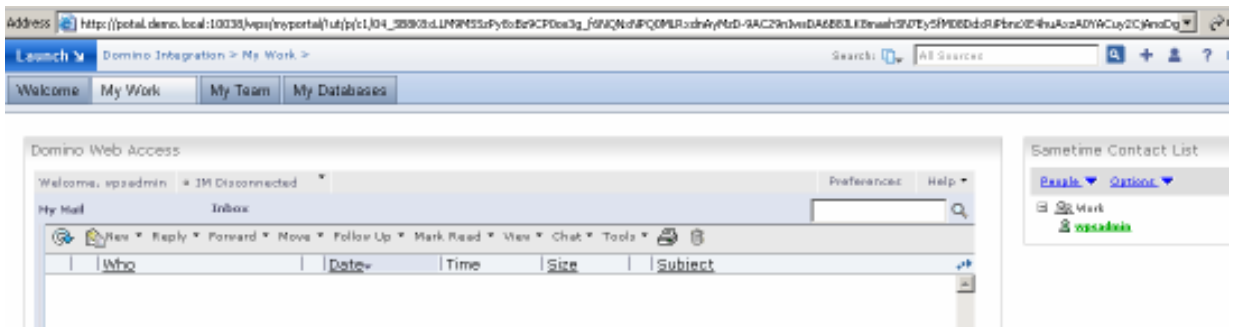
Login as wpsadmin and "lotusnotes" as the password. You will move to the default home page:



Now, click on the **LAUNCH** button and select **DOMINO INTEGRATION**



Click on the **MY WORK tab** and if it is all working, you will see the following:



Test it by sending an email to yourself, through the iNotes interface.

Congratulations, you have integrated Domino and Sametime with Websphere Portal Server!