

Lync Presence Widget - CodePlex project

Deployment guide (beta)

The Lync Presence Widget allows you to show the presence of your **internal Lync contacts on your public website**, and allows website visitors to **chat** directly with Lync-enabled contacts.

Demo at <http://lyncpresence.orbitone.com/>

The presence widget exists of 2 parts:

* **a webservice**, which needs to be installed on a Lync Application server and which uses UCMA 3.0 to communicate with the Lync 2010 server, and
* **the widget**, which is written in AJAX and communicates with the webservice to get presence and enables IM with Lync.

This document describes the installation and configuration: configuring a new server as Application Server and creating a Trusted application pool, a Trusted Application and Application Endpoint, and deploying the webservice and website.

See CodePlex project <http://lyncwidget.codeplex.com>

|  |  |
| --- | --- |
| Date: | 30 June 2011 |
| Developed by: | Pieter-Jan Maenhaut, Thomas Stock |
| Reference: | ORB-20359 |
| Developed for: | Orbit One Internal |

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# Introduction

The Lync Presence widget shows Lync presence information on your website. Website visitors can start chat conversations using the Lync Chat widget. The widgets are jQuery plugins communicating with a WCF Service. Place them on any kind of website (PHP, .NET) and style with CSS.

* **Fully customizable styling**: The client is simply HTML/JS/CSS so very easy to skin.
* **Deployable on any website using any technology**: No ASP.NET required at the client side.

## Demo

<http://lyncpresence.orbitone.com/>.   
Feel free to start a chat conversation. You might be interested in chatting with Thomas Stock (the main developer of the Lync Widgets) or Olivier Mangelschots (the managing director of Orbit One).

## Server topology

The Lync presence indicator exists of 2 parts:

* **A web service**, installed on a Lync Trusted Application Server, that communicates with the Lync front-end server
* **The widget itself**, that can be installed on any website (PHP, ASP.NET, Java,…), and communicates with the webservice using AJAX.



# Server setup

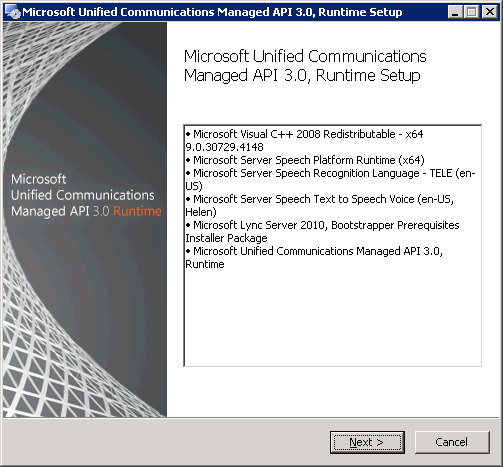
## Prepare Lync Application Server

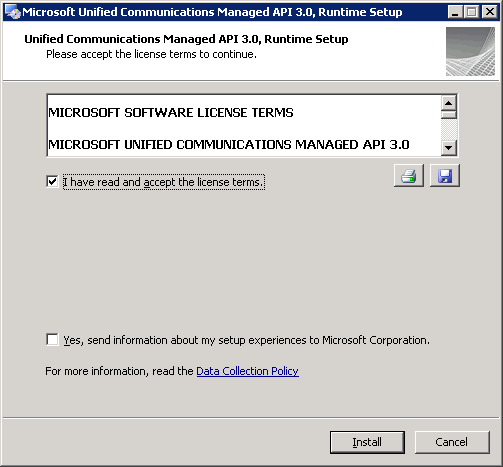
We will configure on a clean Windows 2008 R2 Server as Lync Application Server, and configure a trusted Application Pool to host the webservice.

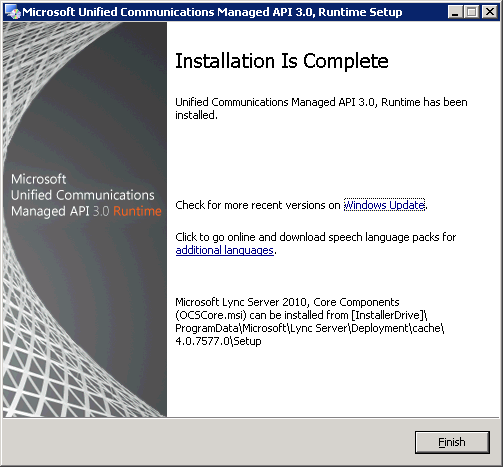
### Install UCMA 3.0

Download and install UCMA 3.0 from <http://www.microsoft.com/download/en/details.aspx?id=20958>

*Note: for local development, install the UCMA 3.0 SDK, but you need Visual Studio to do so. On servers, install the UCMA 3.0 runtime. The SDK can be downloaded from* [*http://www.microsoft.com/download/en/confirmation.aspx?id=10566*](http://www.microsoft.com/download/en/confirmation.aspx?id=10566)

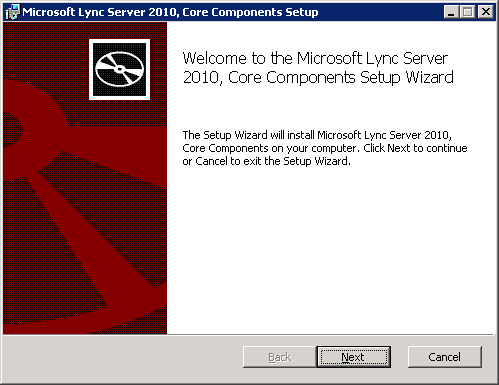


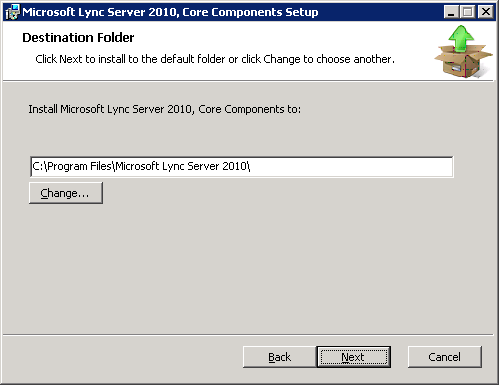


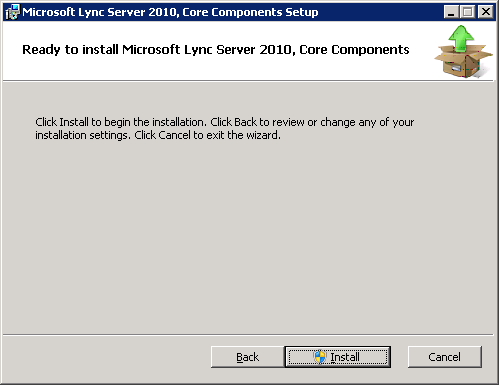


### Install OCSCore

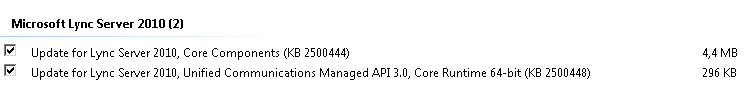
After installing the UCMA runtime, install the OCSCore from C:\ProgramData\Microsoft\Lync Server\Deployment\cache\4.0.7577.0\Setup







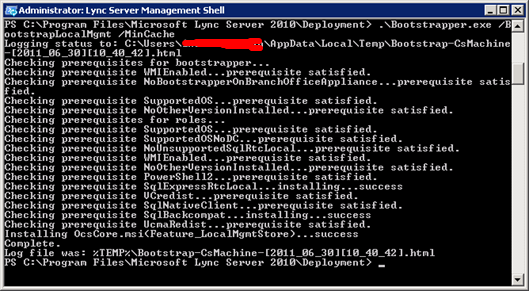
Afterwards, be sure to check for updates for both the OCSCore and the UCMA package:



### Bootstrap your machine

Run the following command from c:\Program Files\Microsoft Lync Server 2010\Deployment:

* Bootstrapper.exe /BootstrapLocalMgmt /MinCache

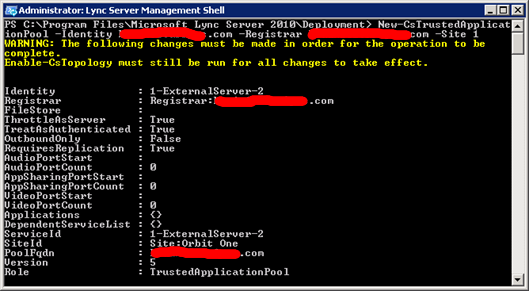


## Create Trusted Application Pool

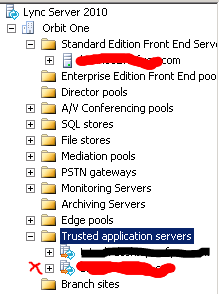
### Change Topology

From the Lync Management Shell on your new server, run the following command:

* New-CsTrustedApplicationPool –Identity brain80.arfyes.com –Registrar \*lyncserver\*.arfyes.com –Site 1



This command will add your new server as trusted application pool server in your Lync topology:

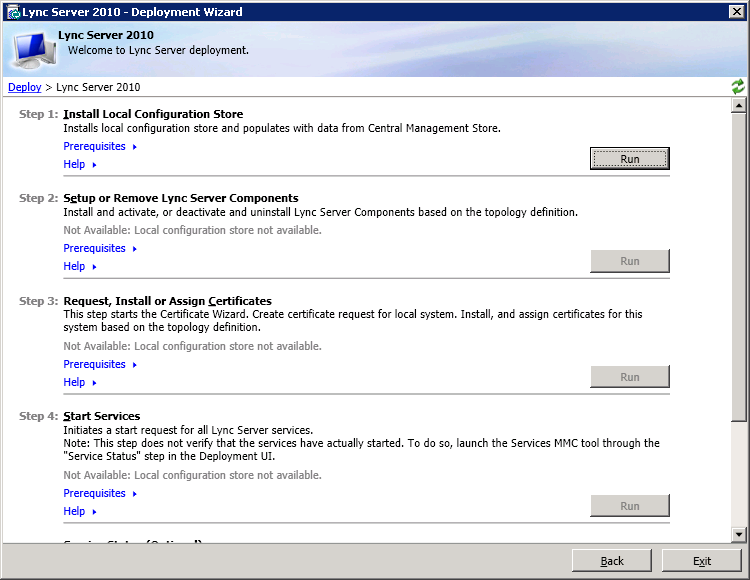


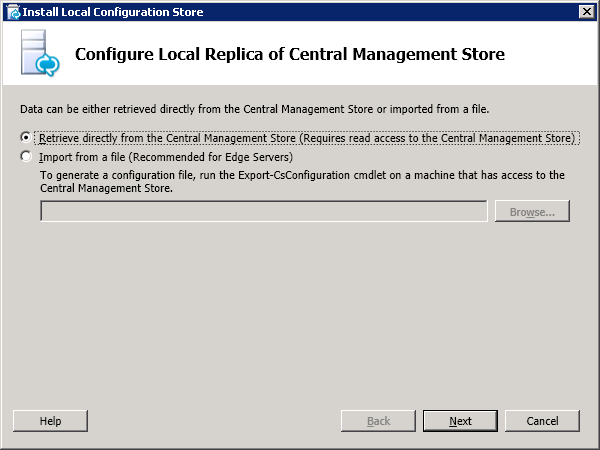
Enable the Lync topology:

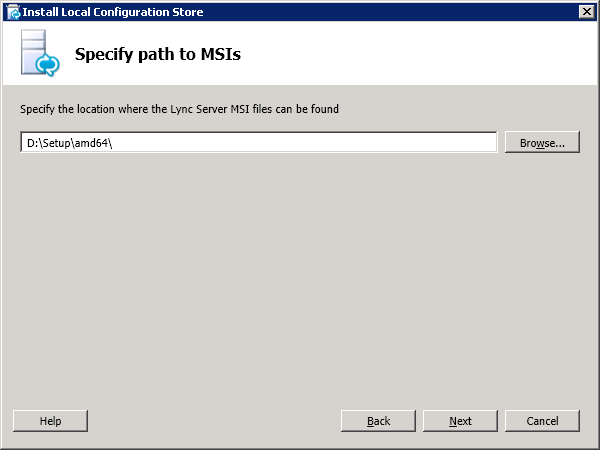
* Enable-CsTopology

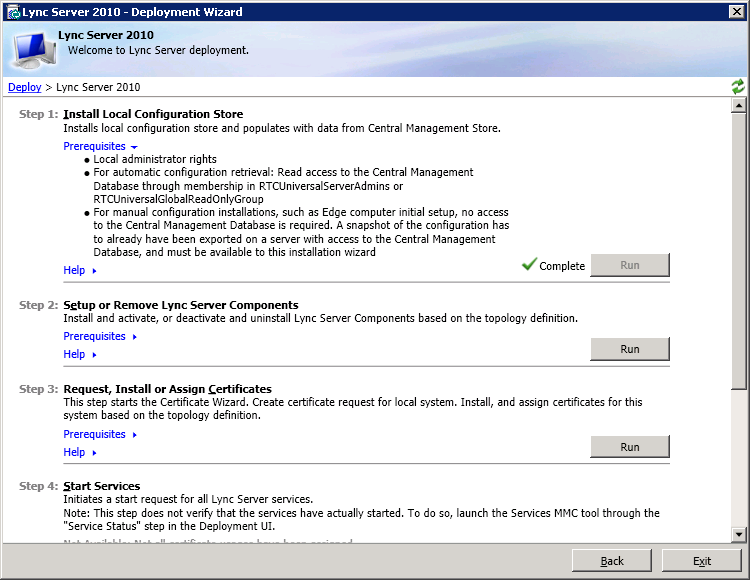
### Install Lync Required Components

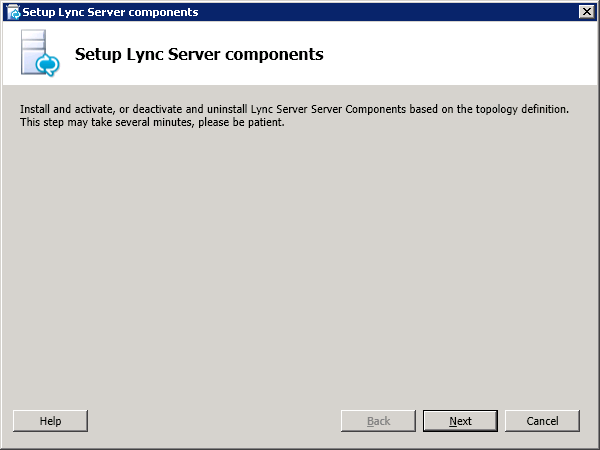
Insert the CDROM drive and run the deployment wizard







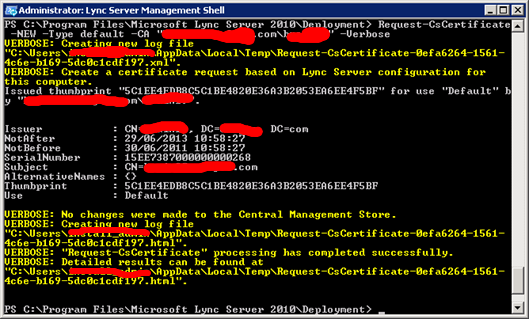




### Configure certificate

You need to configure a certificate for communication with the Lync Front-End. To do so, request a certificate from your CA:

* Request-CsCertificate -NEW -Type default -CA "xxxxxx.com\xxxxx" –Verbose

Use the Thumbprint to configure the certificate for Lync

* Set-CsCertificate -Type Default -Thumbprint "5C1EE4EDB8C5C1BE4820E36A3B2053EA6EE4F5BF"

### Start the Replica service

From services.msc:



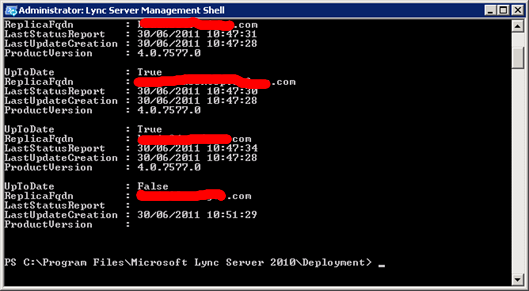
### Wait for replication of the Management Store

First, run the following command to start Replication:

* Enable-CSReplica

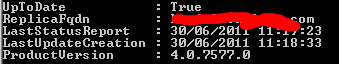
To get the status of the replication:

* Get-CsManagementStoreReplicationStatus



If the management store isn’t replicated yet, you can invoke the replication with:

* Invoke-CsManagementStoreReplication



# Create Trusted Application and Endpoint

## Create Trusted Application

Run the following commands to create a Trusted Application connected to your Trusted Application Pool

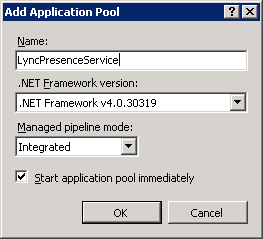
* New-CsTrustedApplication -ApplicationID "yourapplicationid" -TrustedApplicationPoolFqdn "xxxxxx.com" -port 10607
* Enable-Cstopology

## Create Application Endpoint

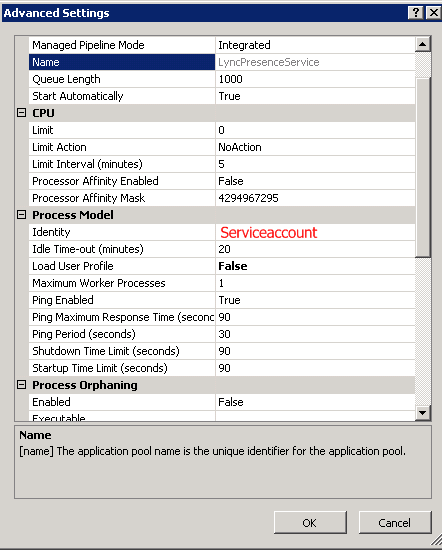
* New-CsTrustedApplicationEndPoint -ApplicationId "urn:application:yourapplicationid" -TrustedApplicationPoolFqdn "\*frontend\*.com" -SipAddress sip:yourappsip@company.com -DisplayName "Lync Presence Service"

# Website deployment

* Complile and Deploy the LyncService solution using Visiual Studio 2010.
* Create an service account for the Lync Web Service
* Add this serviceaccount in the following local groups on the Lync Trusted Application Server :
* RTC Local Read-only Administrators
* SQLServerMSSQLUser$SERVERNAME$RTCLOCAL
* On the Webserver on which the PresenceSevice is being hosted, create an New Application Pool

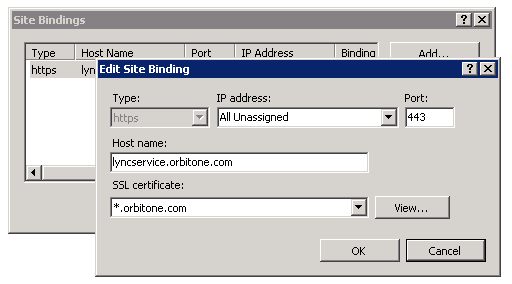


* On the advanced Settings of the application pool set the Application Pool Identity to the Lync Web Service ServiceAccount.

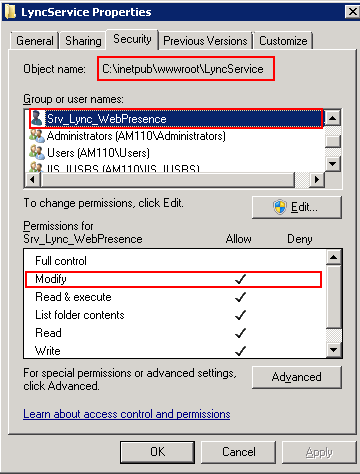


Create 2 IIS Websites:

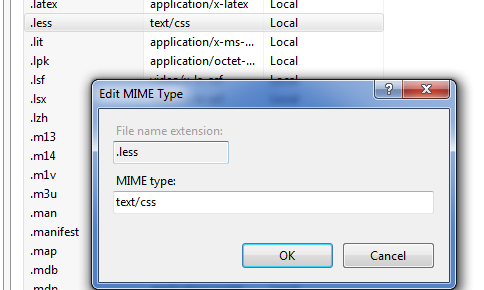
* One website to host the service, configure binding on HTTPs. Be sure to install .NET 4.0 Framework!



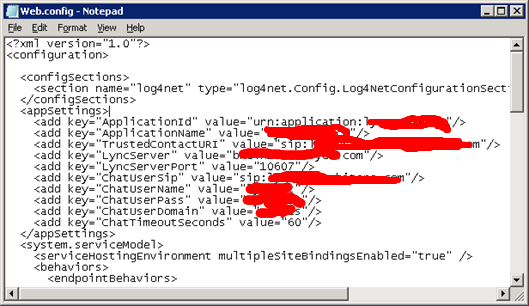
* Give the Lync Web Service Serviceaccount Modify permissions on the Website Root Folder, so it can Create a Logfile in that folder



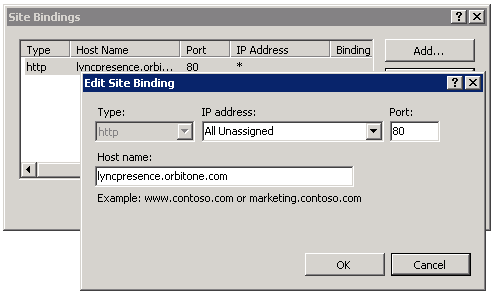
* Add a MIME type for the .less extension:



Modify the Web.config values:

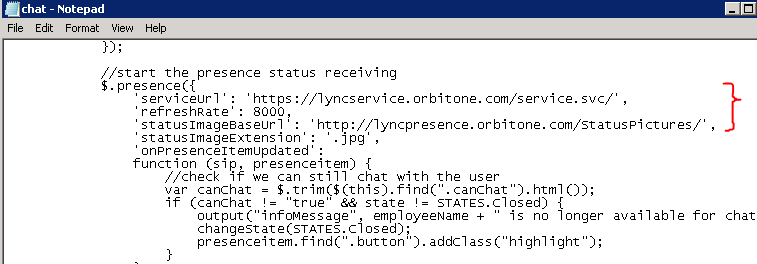


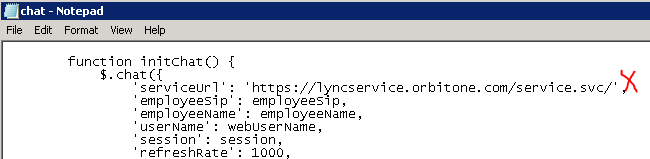
* One website to host the testing website (or you can just integrate the AJAX scripts in your existing website):



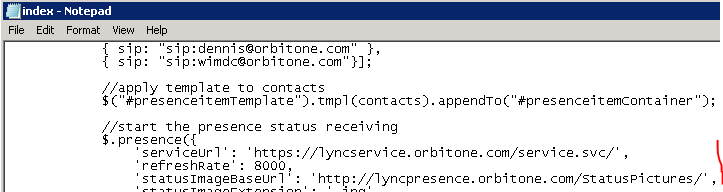
Edit the chat.html and index.html, enter the correct service and web url:

*Chat.html:*





*Index.html:*



*Edit the contact list in index.html:*



## Custom branding

All layout elements can be customized using CSS & HTML.

# Project contacts

## Concept & project management



## Software development

|  |  |
| --- | --- |
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## System engineer

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