



Product: Database Accelerator (DBXL)

Title: How to install DBXL in a load balanced scenario

Below you will find an outline of this document's contents.

The information in this document applies to DBXL v2.4 or newer.

This tutorial assumes user has a load balanced SharePoint farm. Typically, this involves: two web front end servers, one SQL server and one application server.

This tutorial also assumes that user has access to both web front ends in order to install DBXL.

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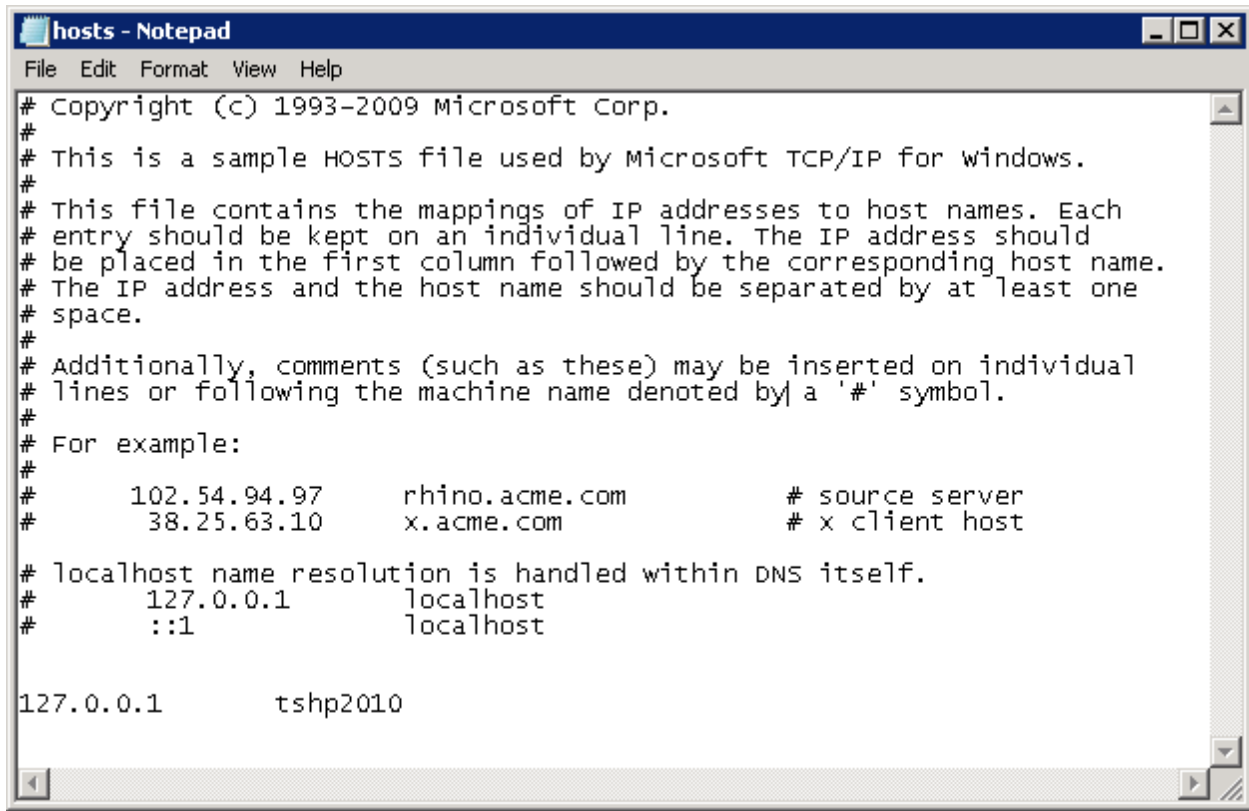


DOMAIN NAME RESOLUTION

To successfully install, the IP address resolved by DNS for the **hostheader** should be local to the server where you are installing DBXL. You can verify using **ping hostheader**, replacing **hostheader** with site domain (e.g. ping mysite.abc.com). The ip should resolve as 127.0.0.1, or one of the addresses listed from the "ipconfig /all" command.

If the IP address resolves as the load balancer ip, you will need to edit the hosts file on the web front end servers. The hosts file is located in the following path: C:\Windows\System32\drivers\etc

In the case of our SharePoint farm, this is what the hosts file looks like:



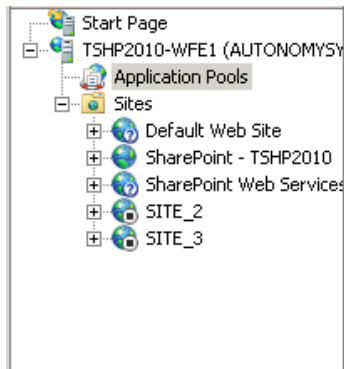
```

# Copyright (c) 1993-2009 Microsoft Corp.
#
# This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
#
# This file contains the mappings of IP addresses to host names. Each
# entry should be kept on an individual line. The IP address should
# be placed in the first column followed by the corresponding host name.
# The IP address and the host name should be separated by at least one
# space.
#
# Additionally, comments (such as these) may be inserted on individual
# lines or following the machine name denoted by a '#' symbol.
#
# For example:
#
#       102.54.94.97       rhino.acme.com           # source server
#       38.25.63.10       x.acme.com               # x client host
#
# localhost name resolution is handled within DNS itself.
#       127.0.0.1        localhost
#       ::1              localhost
#
127.0.0.1      tshp2010
  
```

CHECK THE APPLICATION POOL IDENTITY

Before installing DBXL, check the SharePoint application pool. Notice in the screenshot below that the identity of this application pool is QDABRA_shp_webapp. When installing DBXL, we will need the password for this account.





This page lets you view and manage the list of application pools on the server. Application pools are associated with worker processes, contain one or more applications, and provide isolation among different applications.

Filter: Go Show All Group by: No Grouping					
Name	Status	.NET Framework	Managed Pipeline	Identity	Applications
4f6142cd273048...	Started	v2.0	Integrated	QDABRA\shp_farm	1
6ef6b3ef4a8349...	Started	v2.0	Integrated	QDABRA\shp_services	11
Classic .NET App...	Started	v2.0	Classic	ApplicationPoolIdentity	0
DefaultAppPool	Started	v2.0	Integrated	ApplicationPoolIdentity	1
SecurityTokenSer...	Started	v2.0	Integrated	QDABRA\shp_farm	2
SharePoint - TSH...	Started	v2.0	Integrated	QDABRA\shp_webapp	2
SharePoint Web ...	Stopped	v2.0	Integrated	LocalService	1

DISABLE LOOPBACK CHECK TO COMPLETE INSTALLATION

On load balanced servers you might encounter an issue installing DBXL; this is an issue encountered for any web service, not just DBXL. The issue is well described in the following link:

<http://blog.crsweb.com/2008/10/14/unauthorized-401-1-exception-calling-web-services-in-sharepoint/>. Microsoft Support also discusses the issue here: <http://support.microsoft.com/default.aspx?scid=kb;EN-US;896861>. To install DBXL,

- Add the DisableLoopbackCheck registry entry discussed in this Microsoft KB article. Note: you will need to reboot your server(s) before the DisableLoopbackCheck takes effect.
- Be sure to add your load balanced host name for your web farm to the Hosts file on each front end web server. Use the loop-back IP address (127.0.0.1). This will ensure that each web server looks at itself to access the web services preventing any trips back out to the load-balancer – and possibly calling the web service another web server in the farm.

If this problem appeared to be inconsistent (sometimes erroring, sometime successful), this is most likely due to having multiple web servers. The call to the web service will be successful if by chance the load balance redirected the call to the same (self) web server to access the web service. It will fail when trying to call across to a different web server.



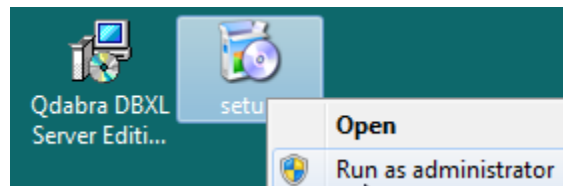
INSTALLATION

INSTALL ON THE FIRST WEB FRONT END

Before installing, close all instances of InfoPath.

START THE INSTALLER

1. Right click on setup.exe and select **Run as Administrator**.

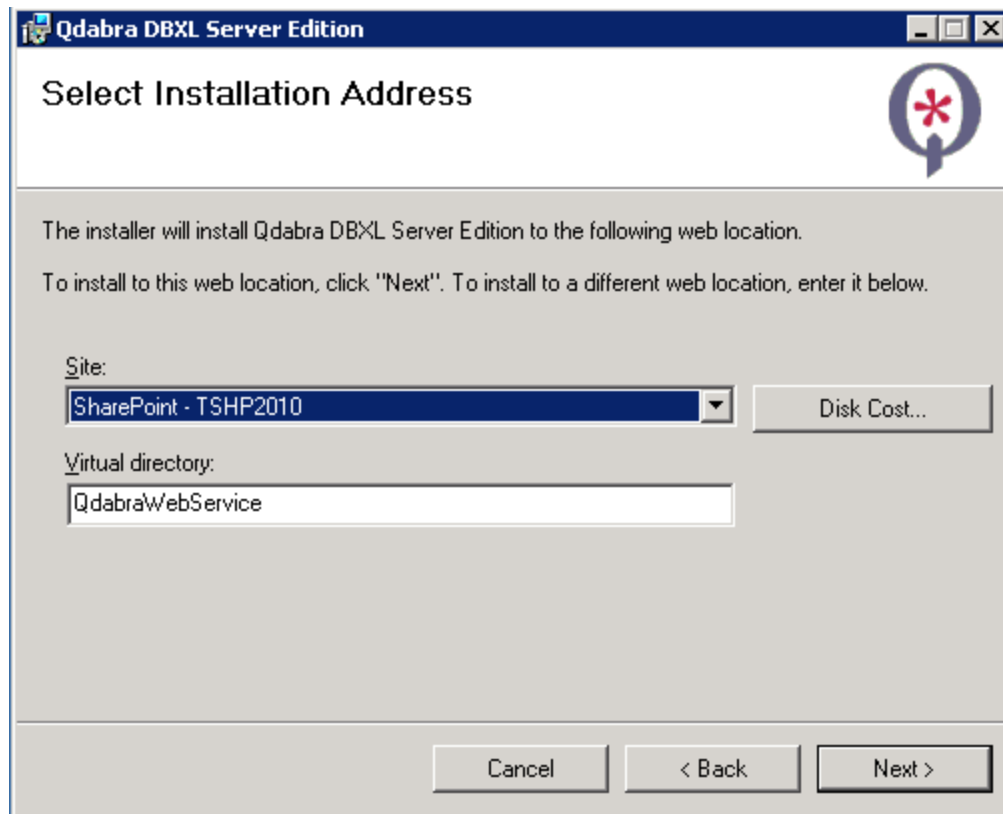


2. Click **Next** in the **Welcome** screen.
3. After reviewing the **End User License Agreement**, select **I Agree** and click **Next**.

INSTALLATION ADDRESS

4. In the **Installation Address** screen, you will find a dropdown listing all sites. Select the desired **Site** for installation from the dropdown.
 - When using DBXL and SharePoint jointly, install DBXL on the same site that hosts the main SharePoint site (typically SharePoint – 80).
 - Note that **all sites (even sites that are stopped)** are listed in this screen. Make sure to select the correct site for installation.
 - Use IIS Manager to check the available sites to confirm that the correct site is being selected and that the site is not stopped.





5. The **Virtual Directory** is set to QdabraWebService by default, but this can be changed if desired.
6. Click **Next**, and in the **Confirm Installation** screen, click **Next** again.

You will see a bar indicating the progress of the installation. Once completed, you will see a screen with various tabs. The following sections describe each tab.

SITE

The Site tab allows you to select the site URL.

7. From the **Site Url** dropdown, select the desired site.
 - The **Site Url** dropdown will show a list of combinations of SSL and host headers defined in IIS.
 - If you select one of the options that does not use the machine name, the Binding Detail section will be disabled.
 - If you select one of the options that uses the machine name, the **Binding Detail** section will allow you to override the host header to be something not specified in IIS.
 - If the SharePoint site is using an alias, you will need to specify it in the host header field during installation.
 - When installing DBXL v2.7 in some environments, the default **Site Url** will be SSL. Do not select the HTTPS site unless you have configured a certificate.



- If the site will be accessed via HTTPS, you will need to configure the website for SSL before installing DBXL.
- If a fully qualified domain name is being used, that value should be entered in the hostname field during installation.
- This tab will also show you the expiration date for the trial license. If you notice that the trial license has expired, please download the most recent version from Qdabra.com or contact support@qdabra.com.

Qdabra Database Accelerator v2.7

Site | Log On | Document Security | Active Directory Service | SQL Server

SharePoint - TSHP2010

Site Url:

Binding Detail

Host name:
Example: www.contoso.com or marketing.contoso.com

Port:

☐ SSL

IP Address:

The url for the DBXL webservice will be as shown below:
<http://TSHP2010:80/QdabraWebService/Documents>

Trial license expires on 12/15/2012

< Back | Next > | Cancel

8. Click **Next** to proceed to the following tab.

LOG ON TAB

The **Log On** tab allows you to indicate the account which DBXL will run as. Qdabra recommends that DBXL run under the same identity as the SharePoint app pool. This means that if the SharePoint – 80 app pool is running as Network Service, you may select Predefined on this screen. However, if the SharePoint app pool is running under a different identity, you will need to select Predefined and provide those credentials.

9. Select between **Predefined** and **Configurable** account credentials.
 - If you select **Predefined**, you will not need to provide credentials.



<http://www.qdabra.com>

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The Qdabra™ Database Accelerator will run under these account credentials. The setup process will attempt to add this logon to SQL Server if using Windows Authentication. You can change this account after installation by changing the DbxlAppPool identity in IIS. The account used must be a member of the IIS_WPG security group.

☒ **Predefined** Network Service

- If you select **Configurable**, you must provide an **Account** and **Password**.

The Qdabra™ Database Accelerator will run under these account credentials. The setup process will attempt to add this logon to SQL Server if using Windows Authentication. You can change this account after installation by changing the DbxlAppPool identity in IIS. The account used must be a member of the IIS_WPG security group.

☐ **Predefined** Network Service

☒ **Configurable**

Account: qdabra\shp_webapp

Password:

NOTE: User will be added to the WSS_WPG group.

Trial license expires on 12/15/2012

< Back Next > Cancel

10. Click **Next** to proceed to the following tab.

DOCUMENT SECURITY

In the **Document Security** tab you can set up permissions for DBXL. The DBXL installer automatically creates a local group called DbxlAdmins. You can add users to the DbxlAdmins group after installation has completed; the member of this group will be able to manage licenses, add document types, and manage access permissions to DBXL document types.



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If you want to use your own group, make sure that you (the user installing DBXL) have been added to the group.

This screen has other options, such as the **Enable Global User Permissions** checkbox. If you uncheck **Enable Global User Permissions** checkbox, you will have to set permissions on every individual document type, since the Global Permissions will not be enforced. Disabling global permissions does not make DBXL “wide-open”. On the contrary, it restricts access to DBXL.

11. Click **Next** to proceed to the following tab.

ACTIVE DIRECTORY SERVICE TAB

The **Active Directory Service** is used to obtain username and other Active Directory Information. In the **LDAP Path** textbox, the default value is populated from the system when a domain controller can be contacted.

12. If the domain controller cannot be contacted, the LDAP Path will default to LDAP://DC=domain. You’ll need to manually enter the LDAP Path (for example: **LDAP://DC=DomainName,DC=com**).



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Qdabra Database Accelerator v2.7

Site | Log On | Document Security | **Active Directory Service** | SQL Server

The Active Directory Service provides InfoPath forms with a quick and easy way to obtain username and other Active Directory information.

LDAP Path:

Enter the LDAP path to be used to resolve Active Directory inquiries to the Active Directory Service (ADService.asmx). The default value is populated from the system. NOTE: The default value is only available when a domain controller can be contacted.

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< Back | **Next >** | Cancel

13. Click on **Next** to go to the following tab.

SQL SERVER TAB

In the **SQL Server** tab, indicate the database where DBXL will store its data.

14. Select the **SQL Server name**. The dropdown will list all local SQL instances that were detected by the installer. For example, in the case of a SQL Express installation on the same machine, this will be **(LOCAL)\SQLEXPRESS**. You may still type in the name of a remote SQL instance, if desired or if the installer fails to list the correct SQL instance.
15. Select the **Authentication** type used to access the SQL server from the dropdown
 - If you select **Windows Authentication**, no credentials will be necessary. The account of the user installing DBXL will be used to connect and create the database and thus requires sysadmin permission. The account used for the DBXL application pool will be granted db_datareader and db_datawriter permission during setup.
 - If you select **SQL Server Authentication**, fill out the **User name**, **Password** and **Confirm password** fields. The SQL account is used to create the database, and thus Qdabra recommends granting sysadmin rights. Once the database is created and installation has completed, the user rights can be reduced to db_datareader and db_datawriter roles.



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16. Enter the **Database** where DBXL documents will be stored.

Installation of DBXL will fail and produce an error message when the database name entered contains a space. By default, the database names are **QdabraDBXL** and **QdabraUtility**. You may change these, but you must use database names that do not contain spaces. **Qdabra recommends accepting these default database names.**

FINISH THE INSTALLER

17. Click on **Finish** to complete the installation.

You will see another bar, called **Configuration Status**, indicating the progress of the installer. This status will change as the installation executes. When it finishes, click **Close** in the **Installation Complete** screen.

INSTALL ON THE SECOND WEB FRONT END

Follow the same steps to install DBXL on the second web front end. When you reach step 16, make sure to click "Use existing databases", so that the installer references the databases that were created during the installation of the first web front end.



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Qdabra Database Accelerator v2.7

Site | Log On | Document Security | Active Directory Service | **SQL Server**

Server name: TSHP2010-SQL

Authentication: Windows Authentication

User name:

Password:

Confirm password:

Document Database: QdabraDBXLv27 ☒ Use existing databases

Utility Database: QdabraUtilityv27

Trial license expires on 12/15/2012

< Back Finish Cancel

SUPPORT

Please refer to the Installation Guide (included with every copy of DBXL) to learn more about DBXL installation.

If you have questions about the information in this document, please contact us for assistance.

Licensed customers can contact us via Support@Qdabra.com.

Alternatively, please use the [InfoPathDev.com Qdabra Product support forums](http://InfoPathDev.com/Qdabra/Product/support/forums) to request help.



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