

6.7.1 Active Directory Authentication

There are a few parameters that need to be defined in the i2b2 Admin if you want to use **Active Directory** services as your i2b2 authentication method. i2b2 supports NTLMv1, NTLMv2 authentication protocols, and OKTA authentication.

The required parameters are listed in the following tables depending on the type of protocol used.

NTLMv1 authentication:

Parameter Name	Values	Required
authentication_method	NTLM	Yes
domain	<i>Example:</i> i2b2.org	Yes
domain_controller	<i>Example:</i> pdc.i2b2.org	Yes

NTLMv2 authentication:

Parameter Name	Values	Required
authentication_method	NTLM2	Yes
domain	<i>Example:</i> i2b2.org	Yes
domain_controller	<i>Example:</i> pdc.i2b2.org	Yes

OKTA authentication:

Parameter Name	Values	Required
authentication_method	OKTA	Yes
domain	<i>Example:</i> i2b2.org	Yes
domain_controller	<i>Example:</i> pdc.i2b2.org	Yes

In the i2b2 there are different types of parameters that can be defined.

Individual users log in using Active Directory services

- In this scenario, not all users are affected.
 - Only those users who have the parameters defined with being required to use their domain (network) id and password to log into i2b2 Web Client, Workbench, and Admin (if they have access).
 - Users who do not have the parameters defined will log in using the standard i2b2 authentication method.
- Type of Parameter: User parameter
 - The parameters are defined on the user level.
 - User parameters only affect the user in which they are entered on.



Note

For those who are not familiar with the i2b2 Admin, here is a quick note on how to navigate around the pages.

For the most part, the i2b2 Admin is comprised of two panels.

The **panel on the left** is the Navigation panel and contains a number of items that are displayed in a hierarchical tree. These items are grouped together based on their function. (*Manage Hive, Manage Cells, Manage Projects, Manage Users*)

The information that displays in the **panel on the right** is driven by whatever item is selected in the Navigation panel. If you click on *Manage Users* the Manage Users page will display on the right. If you click on a user name in the Navigation panel the Edit User page will display.

Steps to Setup Active Directory Parameters

Assumption: The following steps assume you are already logged into the i2b2 Administration Module. If you do not know how to login please see the chapter titled *i2b2 Administration Module Install*.



Warning

The below steps are written for adding a user parameter. If you wish to add a hive parameter you can interchange the first three steps with the following two steps:

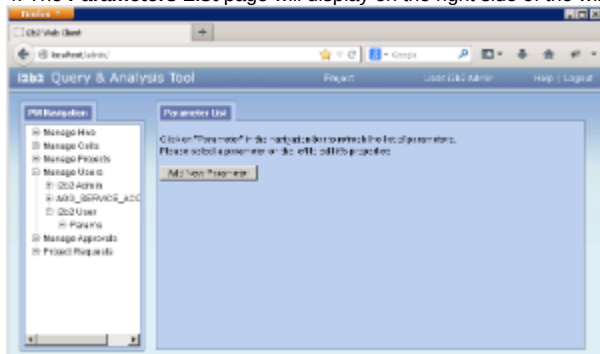
1. In the Navigation panel, expand **Manage Hive** to display a list of items.
2. Click on **Global Params**.

At this point the steps for adding a parameter are the same so can continue entering your parameters by jumping to the 4th step.

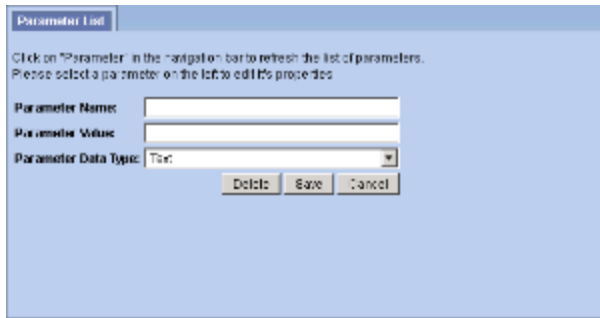
1. In the Navigation panel, expand **Manage Users** to display a list of users.



2. Expand the **name of the user** you want to configure for Active Directory Authentication.
3. Click on the **Params** option that displays under the user's name.
4. The **Parameters List** page will display on the right side of the windowpane.



5. Click on **Add New Parameter**. The *Enter Parameter* page will display.



Parameter List

Click on "Parameter" in the navigation bar to refresh the list of parameters.
Please select a parameter on the left to edit its properties

Parameter Name:

Parameter Value:

Parameter Data Type:

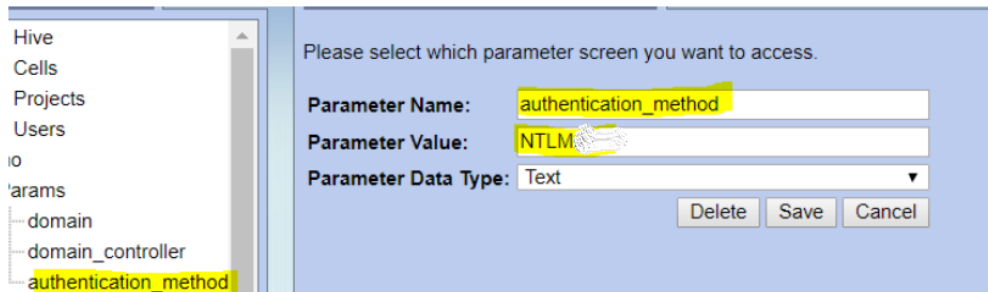
Delete Save Cancel

6. Enter the following parameter to define the *method of authentication*.

Parameter Name: authentication_method

Parameter Value:

NTLM (for using NTLMv1 protocol)



Please select which parameter screen you want to access.

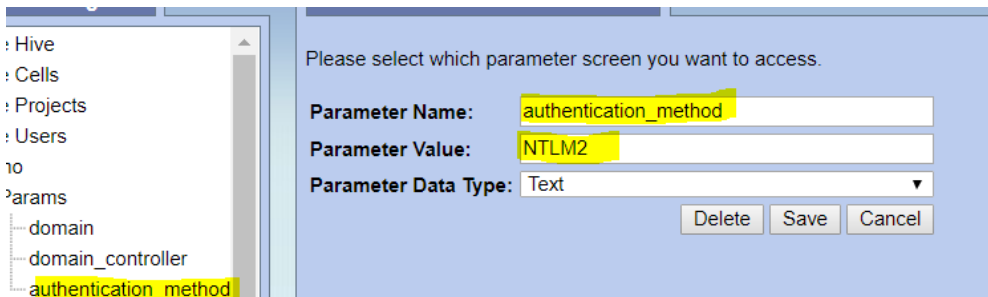
Parameter Name: authentication_method

Parameter Value: NTLM

Parameter Data Type: Text

Delete Save Cancel

NTLM2 (for using NTLMv2 protocol)



Please select which parameter screen you want to access.

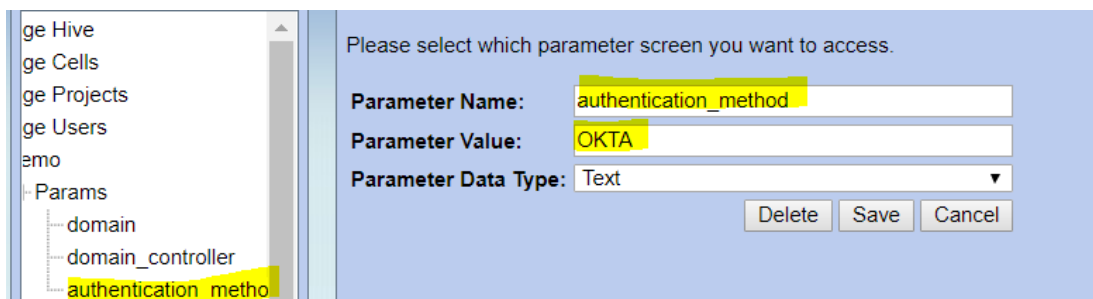
Parameter Name: authentication_method

Parameter Value: NTLM2

Parameter Data Type: Text

Delete Save Cancel

OKTA (for using OKTA authentication)



Please select which parameter screen you want to access.

Parameter Name: authentication_method

Parameter Value: OKTA

Parameter Data Type: Text

Delete Save Cancel

Parameter Data Type: Text

7. Click on **Save** to save the new parameter.

8. The *Parameters List* page will display with the new parameter.

Note

The Navigation panel will not automatically refresh to display the new parameter. If you wish to update the list in the Navigation panel you can click on *Params* and it will refresh the hierarchical tree.

9. In the *Parameters List* page click on **Add New Parameter** to enter another parameter.
10. Enter the following parameter for the **PDC domain** of your company's NT domain.
Parameter Name: domain
Parameter Value: *YOUR_PDC_DOMAIN*
Parameter Data Type: Text
11. Click on **Save** to save the new parameter.
12. In the *Parameters List* page click on **Add New Parameter** to enter another parameter.
13. Enter the following parameter for the **connection URL** of your company's NT domain.
Parameter Name: domain_controller
Parameter Value: *YOUR_NT_IP/HOST_DOMAIN*
Parameter Data Type: Text
14. Click on **Save** to save the new parameter.
15. The *Parameters List* page will display all the new parameters you have entered.
16. In the Navigation panel click on **Params** to refresh the hierarchical tree and display the new parameters.