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This guide will take you through the requirements for running DFexplore 5.4 on your local computer, how to login, how to troubleshoot the most common issues, and how to request help for issues you are unable to resolve yourself.

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1. DFexplore Summary and Installation Requirements

1.1. Summary

- DFexplore (formerly called iDataFax) is a client application that connects back to a server at the Population Health Research Institute (PHRI), based in Hamilton, Ontario, Canada
- DFexplore does not store clinical data on your local computer; all information is stored centrally on the PHRI server in Hamilton, Ontario, Canada
- The DFexplore client communicates with the server over the internet using TLS technology, which provides encryption and secure identification of the server
- DFexplore supports the use of proxy servers (if they are used on your local IT network see **“How to Configure Proxy Server Settings”** section of this guide)
- It is not known to interfere with any software, and should work on most desktops, laptops and Citrix installations (see **“Minimum Computer Requirements”** section below)
- The DFexplore client has no license restrictions

1.2. Minimum Computer Requirements

- TCP/IP Networking (512kbps internet connection speed or better)
- Operating system: Windows 10, macOS 10.14 (Mojave) or later, and Linux
- **Important note: The Windows client tools have been tested and verified with 64-bit Windows 10. The client tools are not available for any 32-bit Windows OS.**
- Disk Space: 200MB
- Used only to download and install the software (50-200 MB) as entered data is not stored on your local drive but sent via the Internet securely to the PHRI data server

1.3. Installing Multiple Copies of DFExplore

This section applies to you if you need to use multiple versions of DFExplore for different organizations, or studies, on the same computer.

- Multiple versions of the DFExplore client can co-exist on the same computer

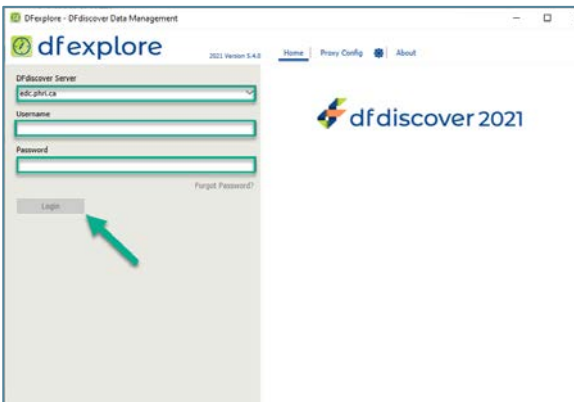
2. How to Connect to the PHRI DFExplore Server and Navigate to a Study

2.1. Open DFExplore, and Connect to PHRI Server



- ❖ To use DFExplore, you must have a personal DFExplore account provided by PHRI.
- ❖ Do not share your account, or use another person's account.
- ❖ If you do not have an account, contact your PHRI Study Team.

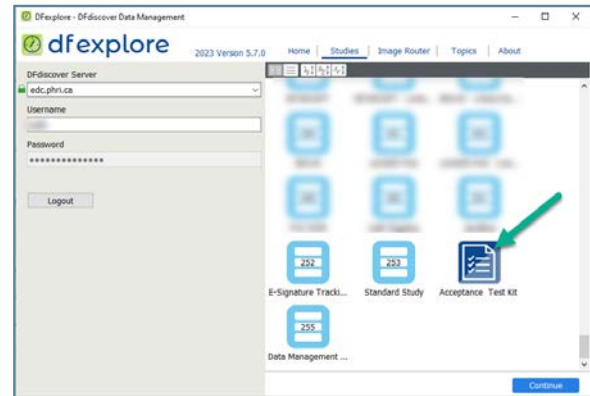
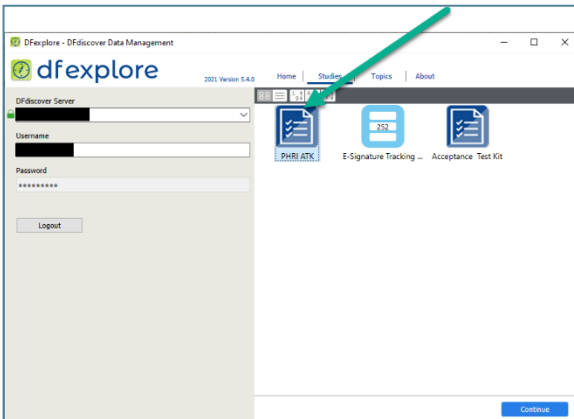
1. Launch the DFExplore client (small login window opens)
2. Connect and login to the PHRI Server.
 - 2.1. In **DFdiscover Server** field, enter "edc.phri.ca"
 - 2.2. In **Username** field, enter your personal DFExplore account username
 - 2.3. In **Password** field, enter the password for your DFExplore account
 - 2.4. Select the Login button



2.2. Open Study

1. If the DFExplore client connects successfully to the server, DFExplore window will expand to include the list of Studies to which you have access.

2. Select the Study for which you want to enter data and select the **CONTINUE** button.

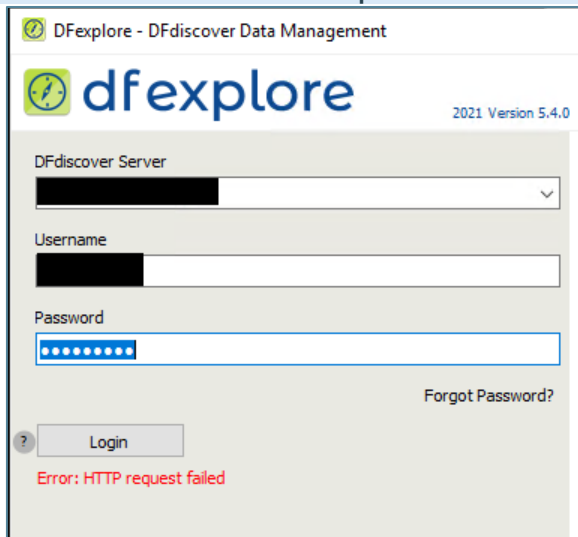


3. Common Issues & How to Resolve Them

3.1. Dfexplore Server Connection - Issues & Next Steps

If the connection or login to the Dfexplore server fails, an error or information message usually appears under the **Login** button, or opens in a message window. A list of these messages (and steps to follow to correct the situation) can be found below:

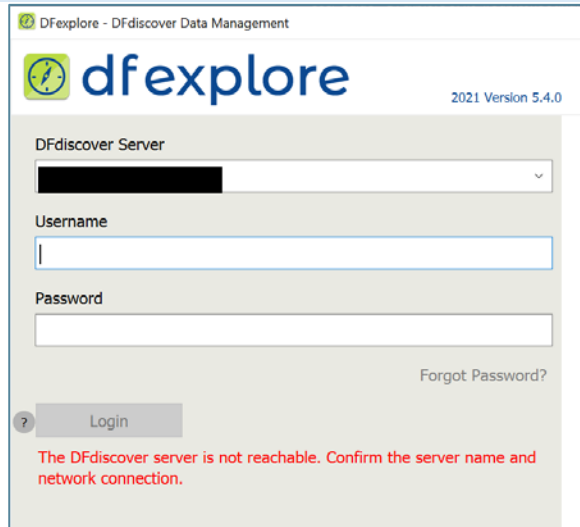
3.1.1. Error: HTTP Request Failed



Please contact your Information Technology (IT) support and ask them to:

- ✓ Ensure that port 443 is open – if this is blocked purposefully by IT policy, then please contact PHRI about providing alternate method of accessing Dfexplore
- ✓ Help you configure Proxy Server settings if necessary (see “How to Configure Proxy Server Settings” section below)
- ✓ Additional Information about the PHRI server that you IT team may require: “edc.phri.ca” host name has an external IP address of 205.207.98.22

3.1.2. Message “The DFdiscover server is not reachable! – Confirm the server name and network connection!”



DFExplore - DFdiscover Data Management

df explore 2021 Version 5.4.0

DFdiscover Server
[Redacted]

Username
[Redacted]

Password
[Redacted]

Forgot Password?

Login

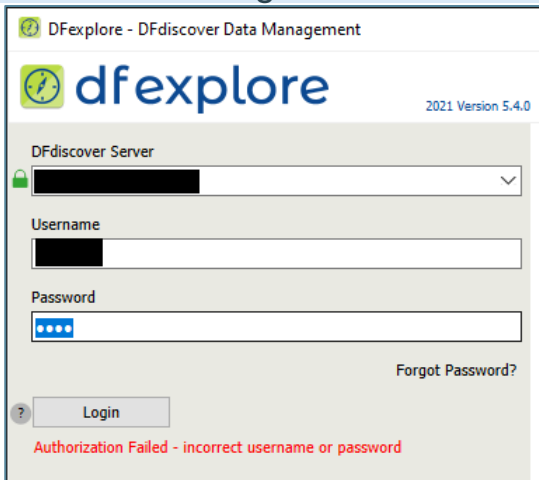
The DFdiscover server is not reachable. Confirm the server name and network connection.

Contact your IT support to confirm edc.phri.ca is accessible through your network. Additional Information about the PHRI server that you IT team may require:

- ✓ “edc.phri.ca” host name has an external IP address of 205.207.98.22

If edc.phri.ca is accessible through your network, please perform the steps in [How to Report Ongoing Issues and Obtain Additional Support](#) section below.

3.1.3. Message “Authorization Failed- incorrect username or password”



DFExplore - DFdiscover Data Management

df explore 2021 Version 5.4.0

DFdiscover Server
[Redacted]

Username
[Redacted]

Password
[Redacted]

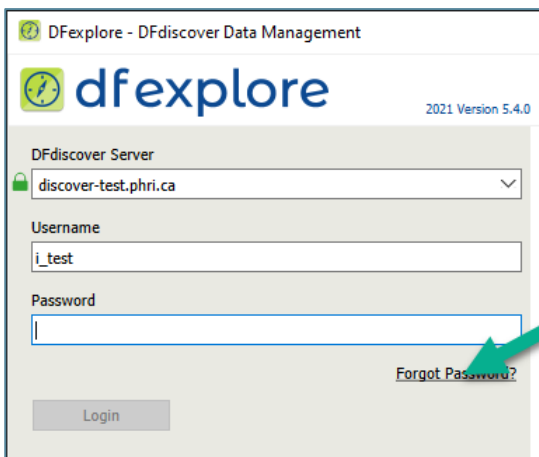
Forgot Password?

Login

Authorization Failed - incorrect username or password

This indicates the login name and/or password is incorrect.

Use the password reset feature within DFExplore to reset the password as shown below or contact the Study Helpline to reset your password on your behalf.



DFExplore - DFdiscover Data Management

df explore 2021 Version 5.4.0

DFdiscover Server
discover-test.phri.ca

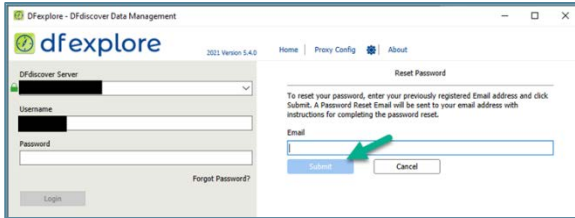
Username
i_test

Password
[Redacted]

Forgot Password?

Login

- ✓ Enter the [DFdiscover Server](#) and [Username](#)
- ✓ Click the [Forgot Password?](#) link



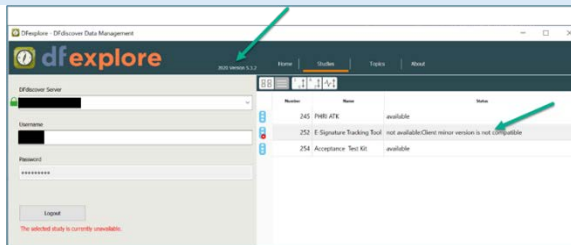
- ✓ Enter the E-mail Address registered to your DfExplore account
- ✓ Click **Submit**

A temporary password will be emailed to your registered email address

3.2. Opening a Study - Issues & Next Steps

If you have **selected a Study** from the list and the **CONTINUE** button, but the DfExplore window does not change to display the Study, and an error or information message appears under the list of Studies, please find the issue message or description in the list below and follow the listed steps to correct the situation:

3.2.1. Message “The selected study is currently unavailable.” with the status “not available: Client version is not compatible”



You are likely using an older version of the DfExplore client.

- ✓ First make sure that you are using the latest version of DfExplore.
- ✓ If you still get the same error, contact the PHRI Project Office to confirm the client version configured for your Study.

3.3. Working in DfExplore - Issues & Next Steps

If your computer's Anti-Virus software reports malicious behavior when trying to upload/import a file to DfExplore, and closes DfExplore, contact your IT support to ask them to make an Anti-Virus software exception for DfExplore and DFgs software.

Additional information your IT Team may require:

Software filename is DfExplore.exe

Software filename is DFgs.exe

4. How to Report Ongoing Issues and Obtain Additional Support

If your **connection to the DfExplore server is failing or the DfExplore client is operating abnormally** (and your **situation is not addressed in the ‘Common Issues & How to Resolve Them’ section** above), please follow the steps below to test and gather information about your connection to PHRI DfExplore server.

Each step asks you to record information that you need to report to PHRI support (and/or your local computer/internet Support) so that the support team(s) can find the issue and resolve it.

NOTE: If you need assistance with these steps on your computer, please contact your local IT support team.

4.1. Identify the Personal Computer's PUBLIC Network Address

Determine your computer network addresses at the time you are experiencing the issue. This helps support teams trace connection attempts from your computer in their logs.

My IP Address Is:

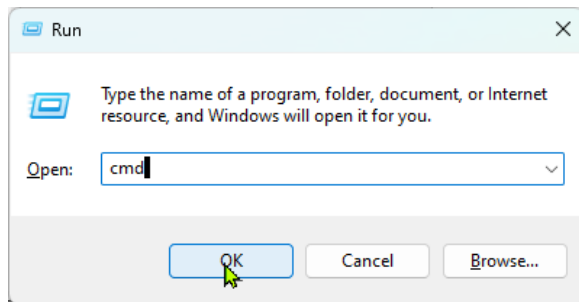
IPv4: **216.185.73.133**

IPv6: NOT detected

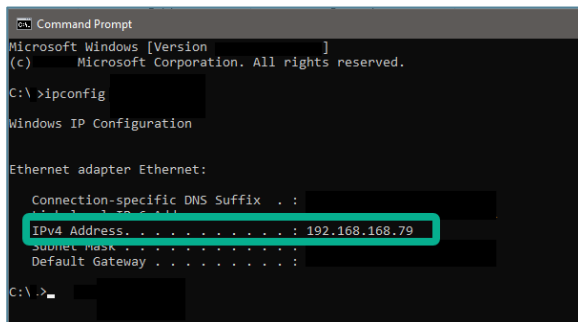
- ✓ Visit a web site that gathers your public (or external) IP address:
 - ❖ <http://whatismyipaddress.com>
 - ❖ <http://www.showmyip.com>
- ✓ that site will display the information similar to this image.
- ✓ Record this information as the “Public IP Address:” in a draft email that you will send to PHRI support.
- ✓ NOTE: Instructions for sending to PHRI support team are below the series of information gathering steps

4.2. Identify the Personal Computer’s INTERNAL Network Address

Determine your computer network addresses at the time you are experiencing the issue. This helps support teams trace connection attempts from your computer in their logs.



- ✓ Open a Command Prompt window.
 - ✓ Select **Start menu**, select the **Run** option, type **cmd** and select **OK** button.
 - ✓ Alternately, you can press the **Windows+R** key combination.



- ✓ When the Command Prompt window opens, type **ipconfig** (no spaces), then press the **Enter** key

Proceed to the next (‘Determine if edc.phri.ca can be ‘found’...’) step, where you will continue to use the Command Prompt window to gather information.

4.3. Determine if edc.phri.ca can be ‘found’ (resolved) by your computer

This helps support teams identify whether the connection is failing because your computer can’t find the ‘address’ of the PHRI server



```
C:\> nslookup edc.phri.ca
Server: <name of local DNS server>
Address: <address of local DNS server>

*** <name of local DNS server> can't find edc.phri.ca: Non-existent domain
```

- ✓ Continuing in the same Command Prompt window, type **nslookup edc.phri.ca** (exactly as written), then press the **Enter** key
- ✓ If the information that displays looks like the following, then you cannot 'find' (resolve) edc.phri.ca from your computer and your information gathering is complete for now.
- ✓ Please contact your local IT support to determine why your "computer is unable to locate the PHRI DFExplore server address 'EDC.phri.ca' ".
- ✓ If you are able to email your local IT support team, we recommend that you paste all text from the Command Prompt window into the email draft you were preparing for PHRI support and send it to your local IT team instead.
- ✓ It may also help to refer them to this user guide if they have additional questions about what the edc.phri.ca server is for.
- ✓ To copy/paste the information into your email draft,
 - ✓ select anywhere within the Command Prompt window and pressing the **CTRL+A** keyboard keys at the same time (to Select All text),
 - ✓ then press the **Enter** key (to Copy the selected text to clipboard).
 - ✓ In your email draft, select where you would like to paste the text, and press the CTRL+V keyboard keys at the same time



```
C:\>nslookup edc.phri.ca
Server: <name of local DNS server>
Address: <address of local DNS server>

Name:   edc.phri.ca
Address: 205.207.98.22
```

- ✓ If the information that displays looks like the followings, then you can successfully 'find' (resolve) edc.phri.ca from your computer. Please proceed to the next ('Trace the Route...') step using the Command prompt window.

4.4. Trace the route from your computer to edc.phri.ca

This helps support teams identify if your connection is failing due to firewall interference

```
C:\>tracert edc.phri.ca
Tracing route to edc.phri.ca [205.207.98.22] over a maximum of 30 hops:
<1 ms <1 ms <1 ms 10.1.50.1
<1 ms <1 ms <1 ms 72.35.6.92
<1 ms <1 ms <1 ms 216.176.48.245
<1 ms <1 ms <1 ms hr2-ge-5-0-6.tr1.savvis.net [206.150.72.22]
<1 ms <1 ms <1 ms hr1-xe-7-0-0.tr1.savvis.net [204.70.224.137]
 1 ms 1 ms 1 ms eor1-xe-8-0-0.tr2.savvis.net [204.70.224.109]
 4 ms 2 ms 2 ms 204.70.207.245
12 ms 12 ms 12 ms cr2-xe-3-2-2.jfk2.savvis.net [204.70.195.126]
12 ms 12 ms 12 ms pr1-xe-9-2-3.jfk2.savvis.net [206.28.99.206]
13 ms 13 ms 13 ms xe-0-3-0-34.r05.nyc.ny01.us.bb.gin.net [129.250.66.81]
Trace complete.
```

- ✓ Continuing in the same Command Prompt window, type **tracert edc.phri.ca** (exactly as written), then press the **Enter** key

The displayed information describes the communication path between your computer and the PHRI DFExplore server, and all of the various computers and network devices that make up the path. The

trace may take a few seconds and will look something like this image.

Please copy all the Command Prompt information into your draft email to PHRI Support, and proceed to the next ('Confirm a secure connection is available') step.

4.5. Confirm a secure connection is available

This helps support teams identify if your connection is failing due to the inability to create a secured connection with the PHRI server.

```
C:\ >telnet edc.phri.ca 443
'telnet' is not recognized as an internal or external command,
operable program or batch file
```

- ✓ Continuing in the same Command Prompt window, type **tracert edc.phri.ca 443** then press the **Enter** key
- ✓ If the displayed result looks like this image, there is no cause for concern – this simply means that the command is not available on your computer.



- ✓ If the you do not get any response (no blinking cursor appears in the window), or a timeout message appears, this would indicate that the specific port required is not available.
- ✓ Please record the “Failed telnet edc.phri.ca 443” details (including the exact wording of any timeout message) in your draft email to PHRI support.



- ✓ If the text within the Command Prompt window clears and a blinking white cursor appears, this indicates a successful connection with the TLS port (443) that DFExplore uses for secure communications.
- ✓ You can confirm this is a successful connection result by pressing the <ENTER> key – a response should show within the window (even if it doesn't make much sense!).
- ✓ Please record the “Successful telnet edc.phri.ca 443” in your draft email to PHRI support.

Click on the upper right 'x' in your Command Prompt window to close it, and **proceed to the “Report collected details to PHRI Support...” section.**

4.6. How to contact PHRI Support

1. Complete your email to PHRI Support with the following details and send the email.

To: PHRI.ICTHelpDesk@phri.ca

Subject: DFExplore Troubleshooting

Message:

Your full name, e-mail address, and phone number, time zone and time(s) we can contact you; and any PHRI designations for your work, like Study #, Site #, DFExplore user account name; and

Description of what you see when DFExplore isn't connecting or isn't working as expected

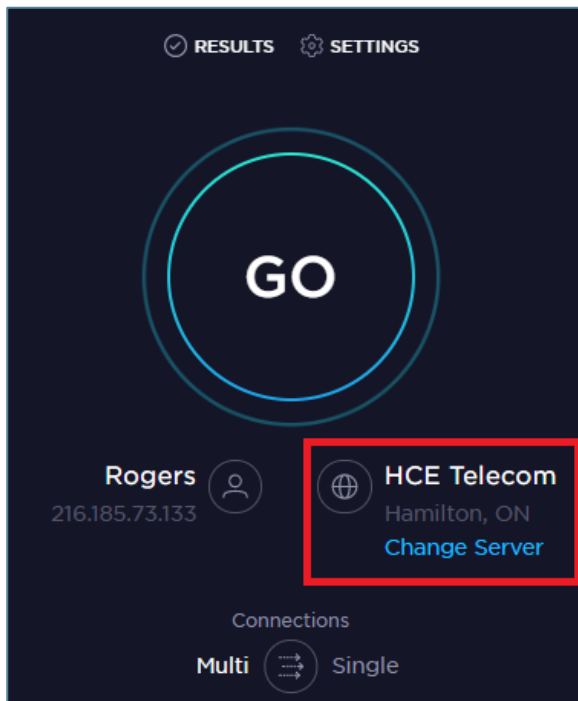
All the data you collected in the draft email by completing troubleshooting steps 9-12 in this User Guide

2. If you are unable to use email to contact PHRI, please contact us by phone at the **PHRI Helpline number** and **select Option 2 for IT Support**.

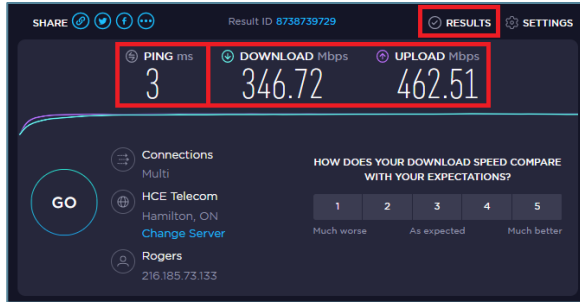
4.7. Check Network Performance

This helps support teams identify if your connection is failing due to the internet or network resources available to your computer

If the previous steps are successful but you have inconsistent connectivity or performance problems with your DFExplore connection then we need to check if your computer's internet connection is reasonably fast and reliable enough for DFExplore to transmit data to and from the PHRI DataFax server in Hamilton, Ontario, Canada.



- ✓ Please go to one of following free and accessible web sites:
 - ❖ www.speedtest.net
 - ❖ www.pingtest.net
- ✓ After connecting to www.speedtest.net with any web browser you should see a similar image
 - ✓ Select **Change Server** and select the one in Hamilton, ON – **HCE Telecom**
 - ✓ Select the **Go** icon
 - ✓ The connection test will run



- ✓ Record the “Download Mbps” value (the speed of data transfer to your computer from Hamilton, ON server; should be at least 0.5Mbps (512kbps) or better in order to maintain proper performance in DFExplore)
- ✓ Record the “Upload Mbps” value (the speed of data transfer from your computer to the Hamilton, ON server; should be at least 0.5Mbps (512kbps) or better in order to maintain proper performance in DFExplore)
- ✓ Record the “Ping ms” value (time in milliseconds to send a signal from your computer to the server and back to your computer again; should be a low value and there should be no reports of lost packets/signals in order for DFExplore to operate reliably)

Please send the recorded results to your local IT support and work with them to resolve any issues related to either lost ping packets or Internet performance issues.

5. How to Configure Proxy Server Settings

If you have determined that your IT department has installed a proxy server (to filter requests sent to other servers on the internet), follow these instructions to register the proxy server in DFExplore.

5.1. Enter Proxy Server Settings

- ✓ Start the DFExplore client and the following window appears
- ✓ Select the “Proxy Config” tab.

- ✓ enable the “Use Proxy Server” radio button to enable the proxy server settings.

Home | Proxy Config | About

Use Proxy Server

Type: HTTP SOCKS 5

Server: mycompanyproxy.domain.com

Port: 8080

Username:

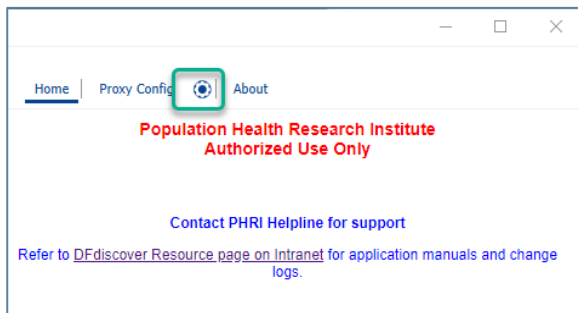
Password:



Remember username and password

- ✓ The settings that you choose for the proxy server are dependent upon your specific environment.
- ✓ Contact your IT support staff to get the proper settings.
- ✓ The "mycompanyproxy.domain.com" in the screenshot is just an example.
- ✓ Username and Password are your local username and password that is provided by your IT department to login to your local computer/network.
- ✓ Note: It is not the DFXML login name and password provided by PHRI.


Note: If you were previously using **Proxycap**, then you can use the same settings configured for Proxycap for the DFXML proxy settings.

You should not configure Proxycap to help proxy DFXML client connections.



- ✓ After adding your proxy server information, click on the OK button.
- ✓ You will see the updated DFXML window
- ✓ Notice that the  button has changed to appear as 
- ✓ This indicates that a proxy server has been configured to be used in the DFXML client program.

5.2. Edit or remove your Proxy Server Settings

1. Select the  (wheel with bounding circle button and the 'Configure Proxy Server' window opens
2. To change the connection parameters, enter the correct information and then select the OK button to save the new settings
3. To disable the usage of a Proxy Server, unselect the "Use Proxy Server" check box