



CITO VPN Secure Connection Manual

Document No: ISMS03-0030

Version 1.1

Publish Date : 20/01/2025
Implementation Date : 16/12/2022

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Version Control Log

Version	Date	Changes Included	Company	Author	V&V	Approved by
1.0	15 August 2024	Previous versions of this document can be referenced in: ISMS04-0030_V1.6_CITO VPN Secure Connection Manual	CITO	CITO	Delsie Ku	IS Committee
1.1	20 January 2025	Revised manual procedures and documentation to include VPN MFA Configuration.	CITO	CITO	Ernesto Thimbrel	IS Committee

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1 Installation of Ivanti Pulse Secure Client

1.1 Prelude:

In this installation, you will be working with:

- A desktop / laptop device [device to register for use]
- The Ivanti Pulse Secure installation file [VPN Software to use for VPN access]
- The Microsoft Authenticator app [VPN verification software to establish connection]
- Remote desktop [Software used with VPN access for a registered device]

1.2 Manual Client Installation:

1. Use one of the followings links to download & install the client:

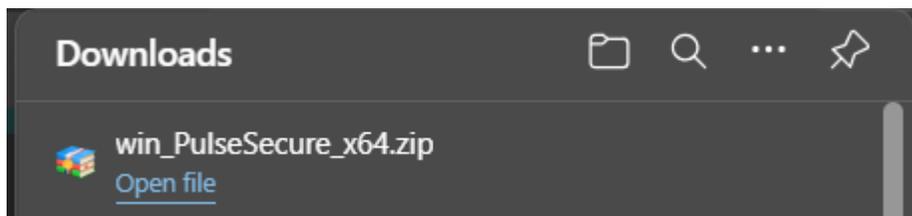
- For a **MAC PC**, use the below link:

http://cito.gov.bz/pulse/mac_PulseSecure.zip

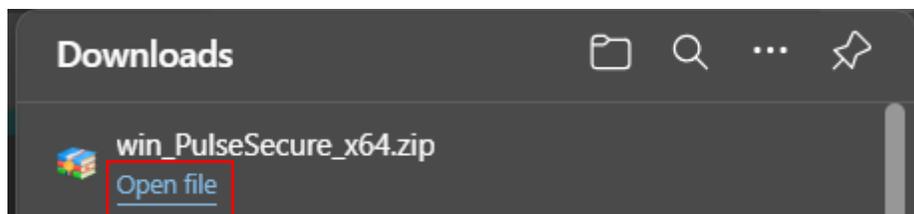
- For a **WINDOWS PC**, use the below link:

http://cito.gov.bz/pulse/win_PulseSecure_x64.zip

2. When downloading the Ivanti Pulse file, it should look as shown below:



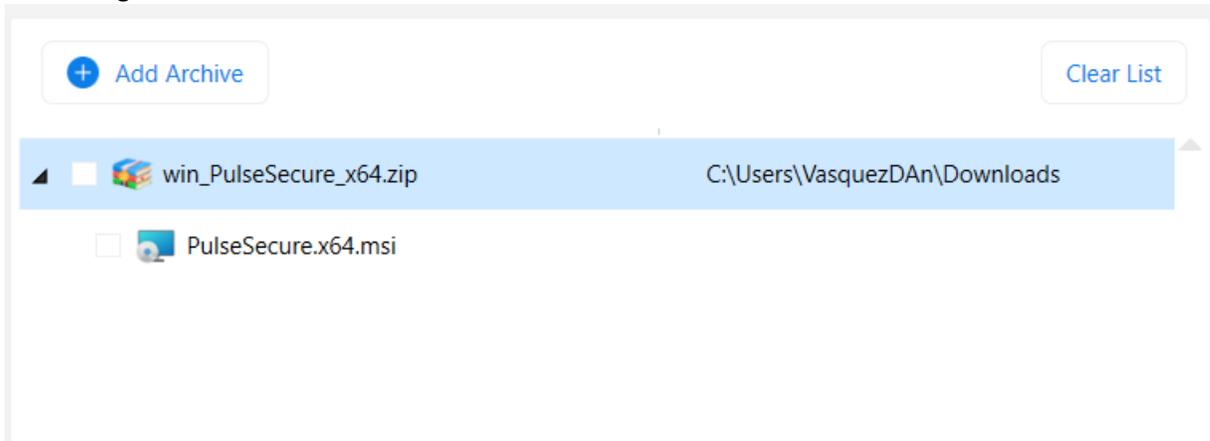
3. When completed, click the **Open File** option to start the installation process, as shown below:



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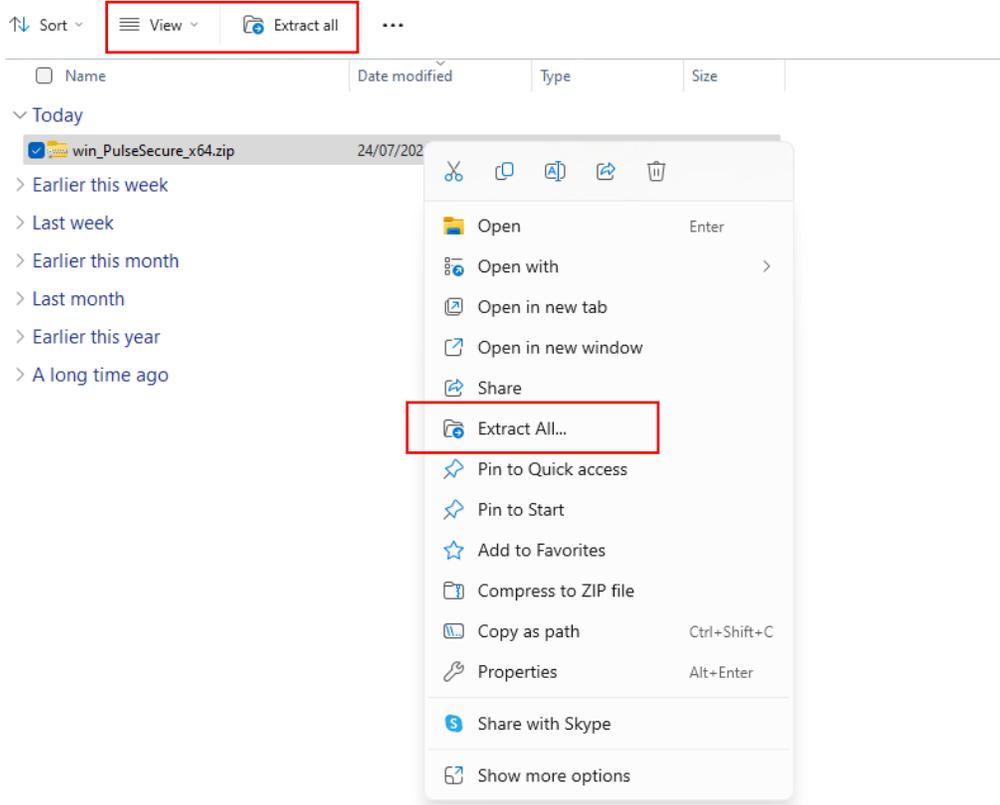
4. Extract the downloaded ZIP File, by selecting the installer package and right click to select the Extract here or Extract All option. The images below show two alternatives of what you may see when extracting:

4.1 Using a RAR:

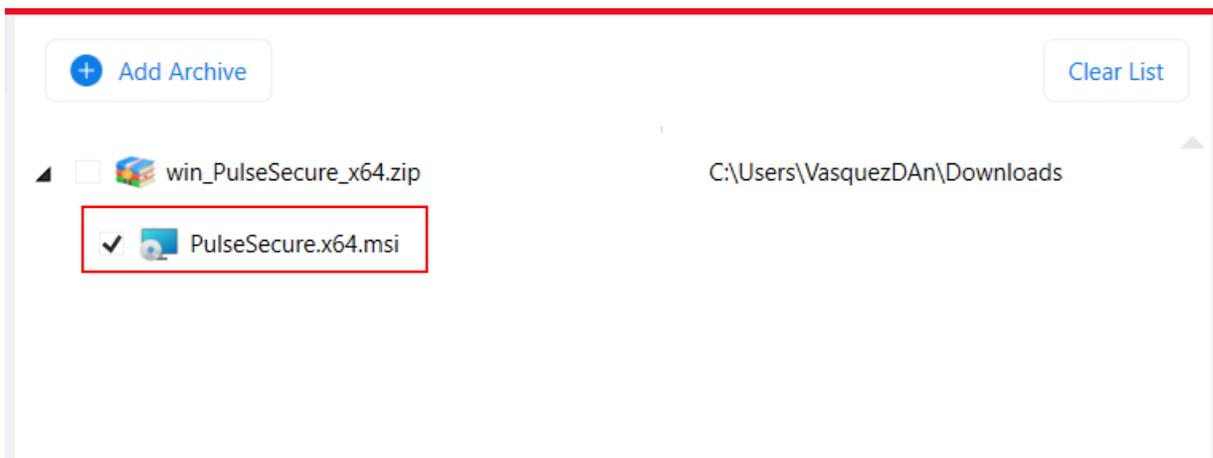


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4.2 Using Windows extraction method

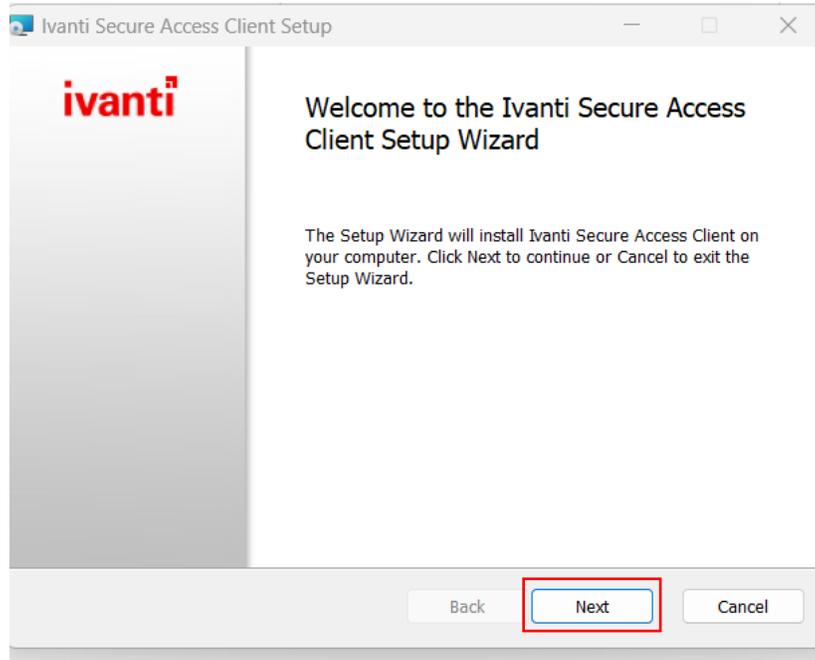


4.3 Image of installer file once unzipped:



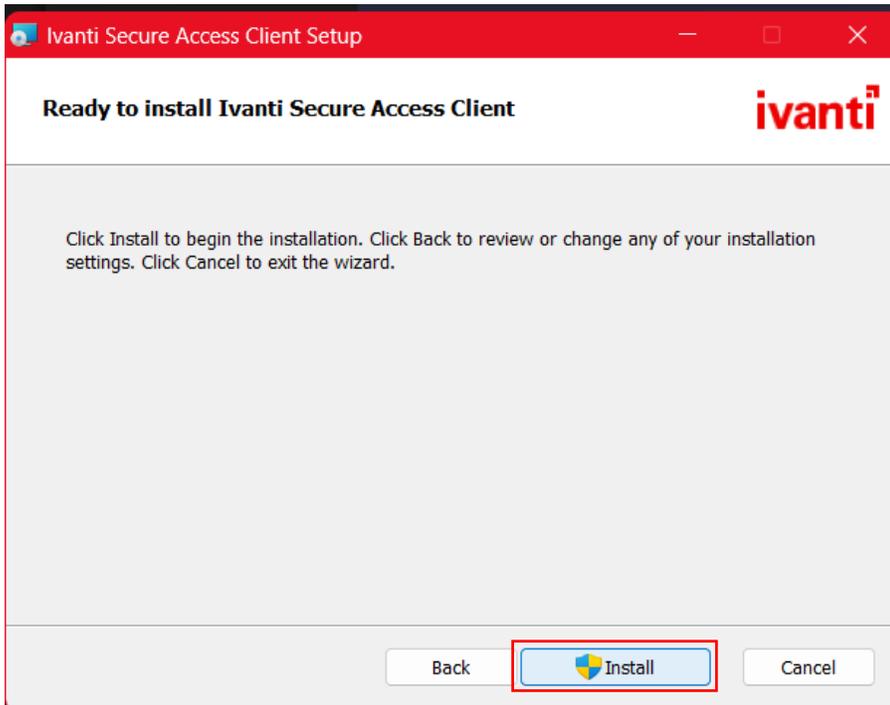
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5. Click the extracted package, to start the installation process.
6. Click **Next** on the Ivanti Secure Access Client Setup Wizard screen, as shown below:

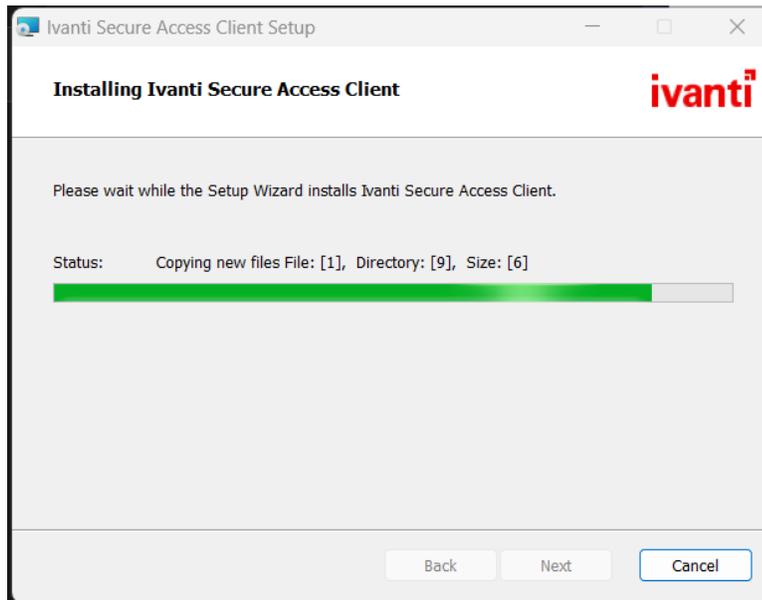


7. Then, click the **Install** button to start the installation.

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7.1 Installation in progress Below is an image of installation in progress :

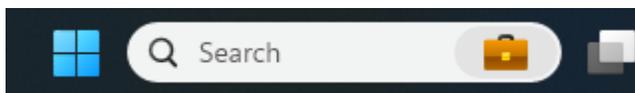


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8. Click on Finish when the installation status is completed.

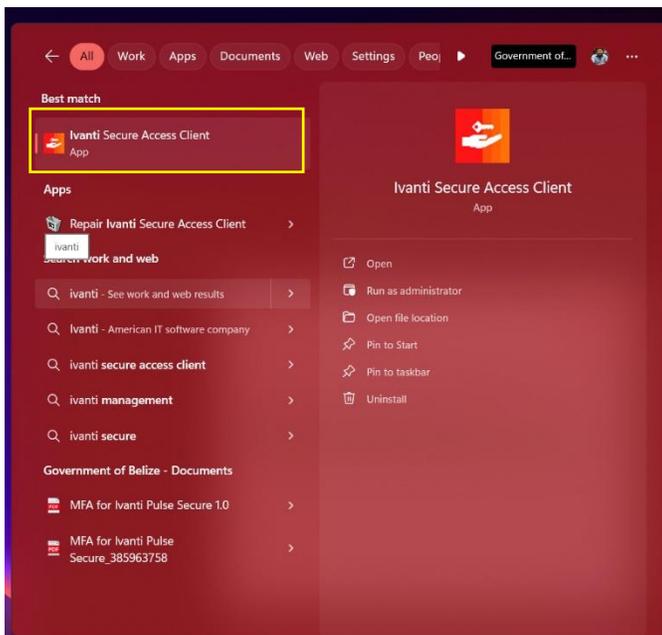


9. On a Laptop/ Desktop device, use the Windows search tab (image below) to type the keyword **Ivanti**.

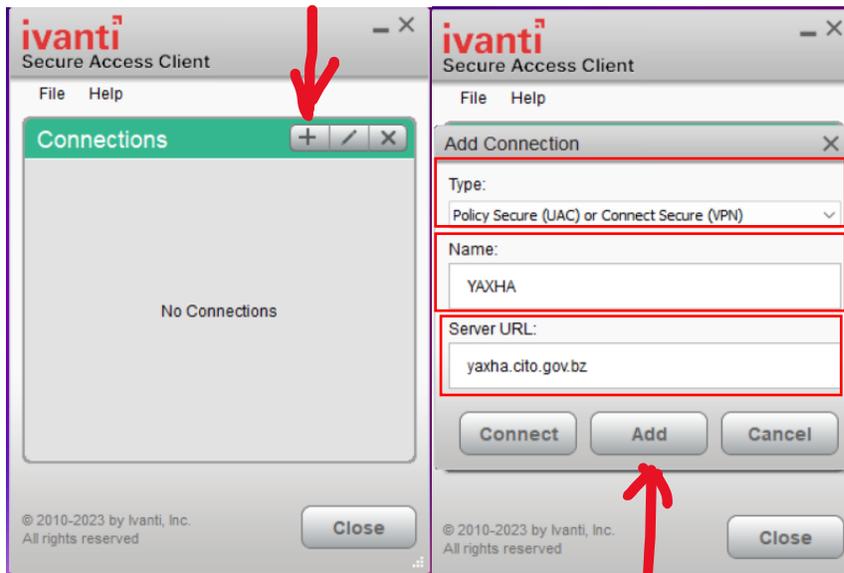


10. From the search results, click on the app **Ivanti Secure Access Client** to Open. See below:

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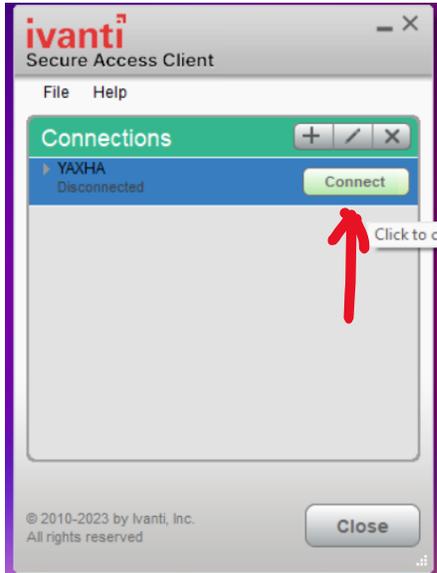


11. Click on the + button to add a new connection. Fill in the empty field with the information below, and click add:



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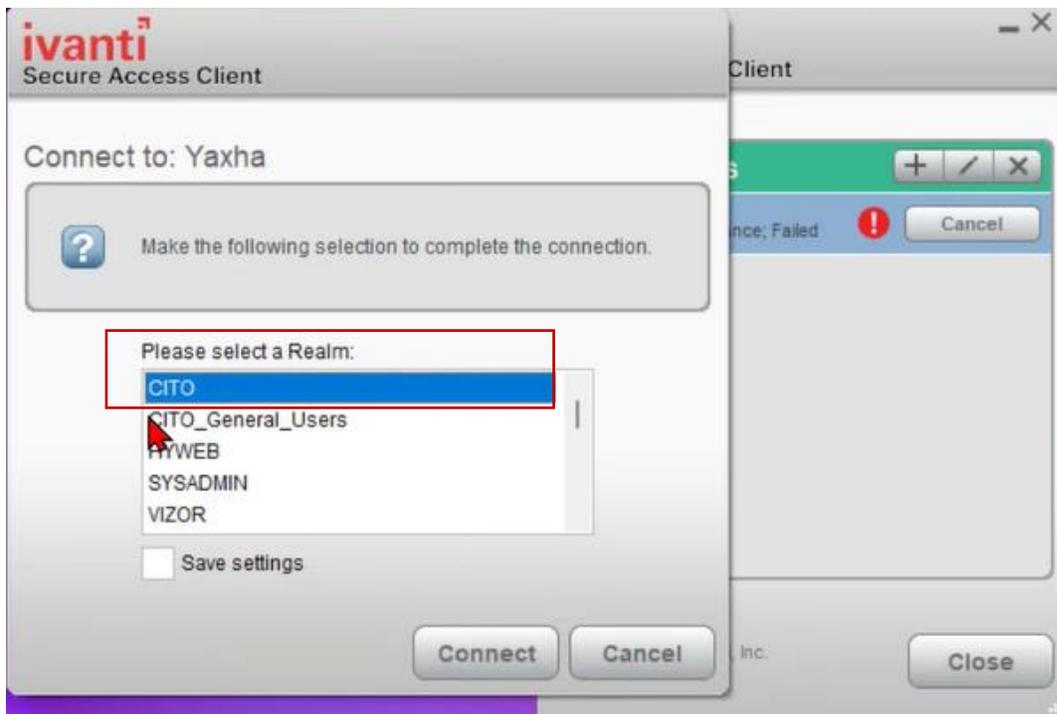
12. To establish session, click “Connect” and Ivanti Secure Access Client will check if your laptop/desktop device is compliant.



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13. Host Check plugin will run and verify that laptop/ desktop device meets the following criteria:
 - a. Windows
 - i. OS: Windows 8.1 & higher (64 & 32 bit)
 - ii. Antivirus Vendors allowed: AVAST, AVG, Avira, Bitdefender, BullGuard, ESET, F-Secure, Kaspersky, McAfee, Panda, Symantec, Trend Micro. Antivirus Definition Updates should not be older than 10 Days.
 - iii. Ensure that its respective firewall is turned ON.
 - b. Mac
 - i. Ensure that its respective firewall is turned ON.

Seeing the below image indicates that your machine has passed the compliance test and is ready to proceed with the MFA setup.

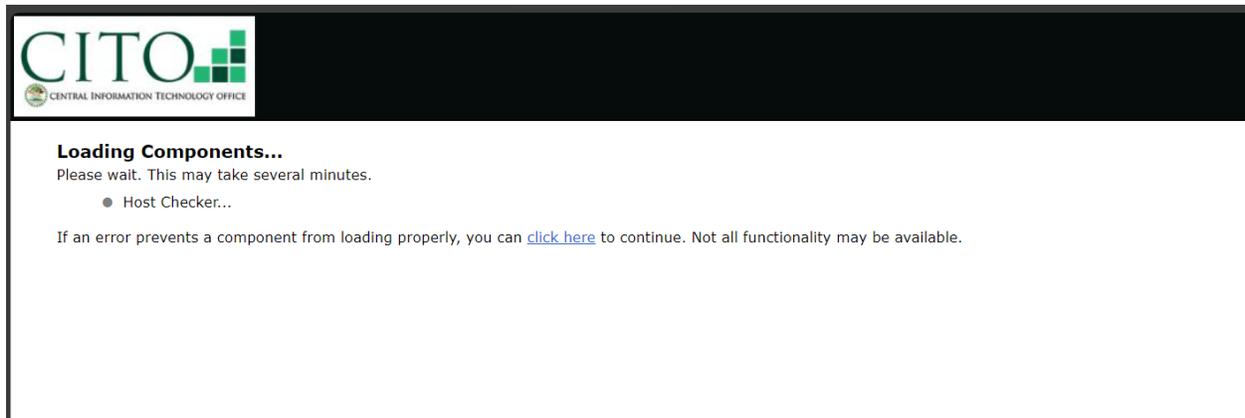


14. Click the  button to proceed to setup the MFA configuration.

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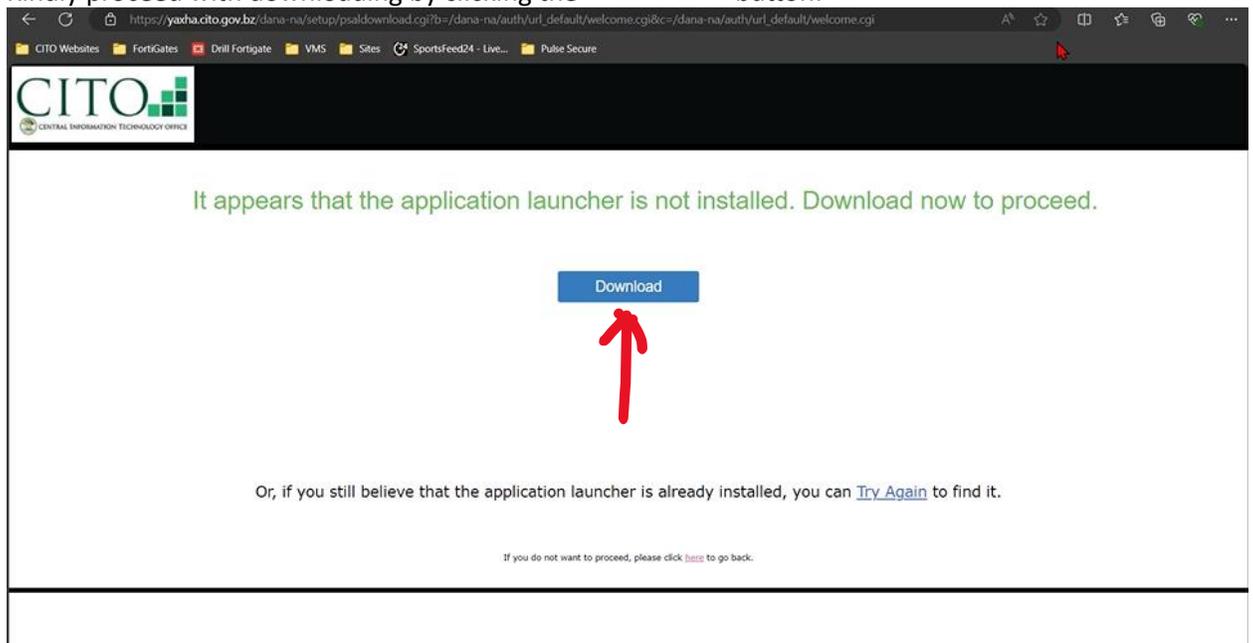
2 CITO VPN with MFA

- Using an internet browser (e.g. Microsoft Edge or Google Chrome) head over to yaxha.cito.gov.bz to enable your MFA. The host checker will run to verify all is in order with your laptop/desktop device laptop/desktop device.



Thereafter it will ask for you to download the host checker application.

- Kindly proceed with downloading by clicking the  button:

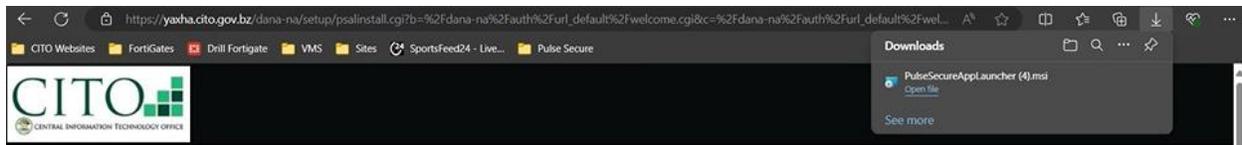


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It should start downloading in the browser. You are also given a download help page to assist to inform on what the next step should be.

We recommend being cognizant of this screen as you shall return to this help page further in the installation.

Upon clicking the **Download** button the screen will display as shown below:



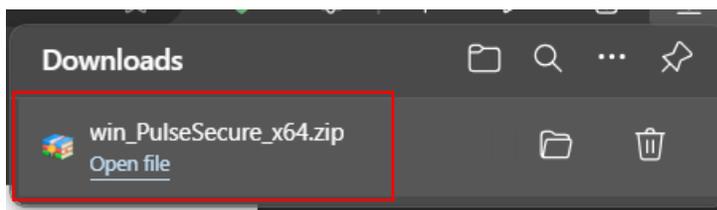
After the application launcher has completed downloading, follow these installation steps.



Once you have completed the above steps, click [HERE](#) to continue with the launch. We recommend selecting "remember" and "always" during the installation process.

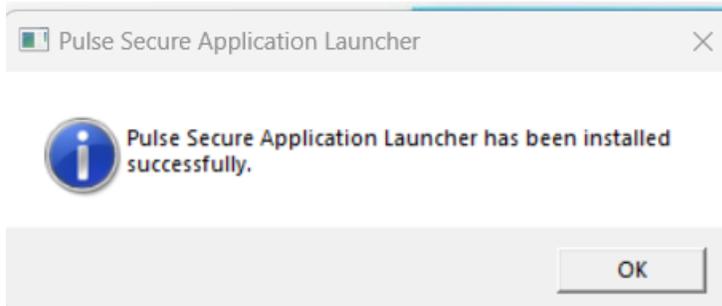
It downloads needed executables to now configure multi-factor authentication (MFA).

3. To verify installation, when download has been completed, click on the **Open file** option.



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When completed, the screen indicates the installation status as illustrated below:



- Click the  button to proceed.

At the bottom of the downloader page, you will see the actual sentence:

“ Once you have completed the above steps, click the **HERE** link to continue with the launch.

We recommend selecting **remember**” and **“always**” during the installation process. ”



After the application launcher has completed downloading, follow these installation steps.

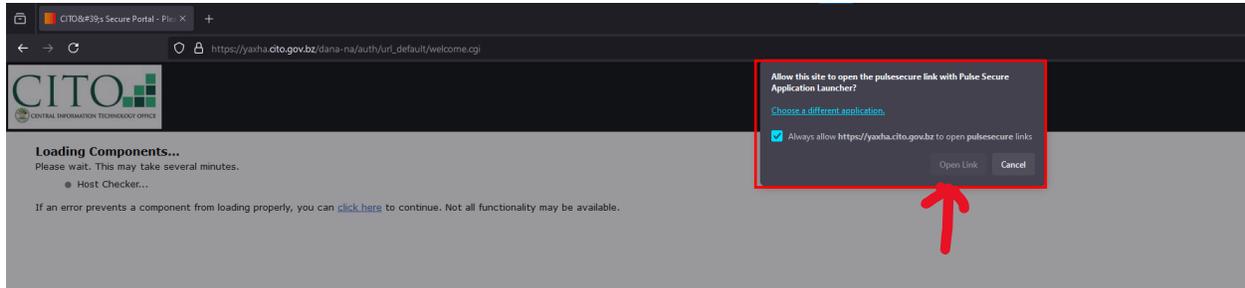


Once you have completed the above steps, click **HERE** to continue with the launch. We recommend selecting "remember" and "always" during the installation process.

- Kindly proceed with the clicking “HERE” and the pop up to always “remember” and “always” during installation will appear.

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Always allow screen:



The screen above may not always appear. It is included to guide if you are prompted with it.

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6. Next, choose the Always option as shown below to proceed with the installation:

CITO
CENTRAL INFORMATION TECHNOLOGY OFFICE

Loading Components...
Please wait. This may take several minutes.

- Host Checker...

If an error prevents a component from loading properly, you can [click here](#) to continue. Not all functionality may be available.

Pulse Secure Application Launcher - Warning

Do you want to allow Pulse Secure to contact the server and/or download, install, execute software from the server?

Server Name : **yaxha.cito.gov.bz**

Product Name : **Host Checker**

Host checker then executes again to complete all necessary downloads. A user may or may not see this screen as it downloads quickly.

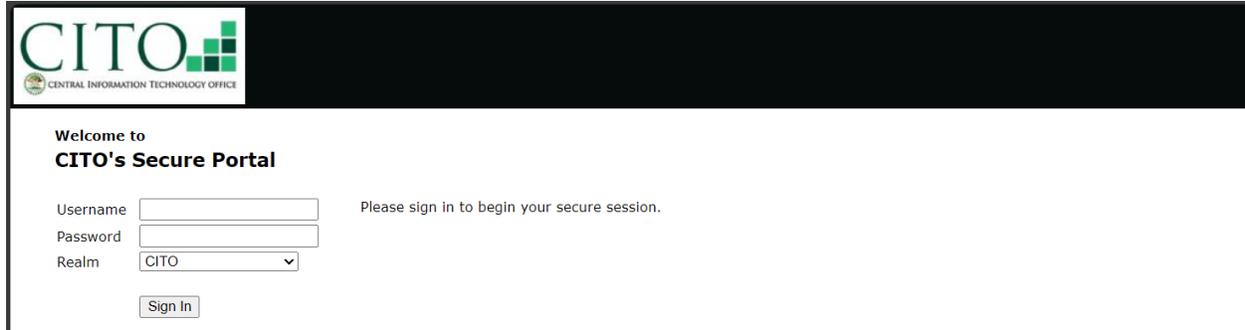
Host Checker

Downloading UnifiedSDK.zip. Please wait...

Downloading 0 of 5000002...

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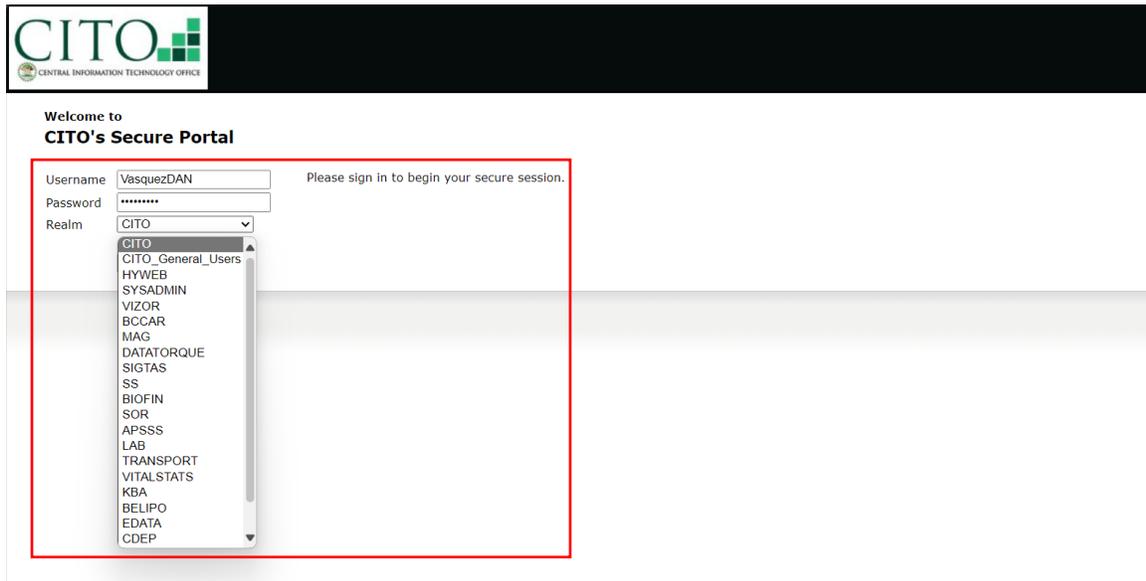
Having completed all previous steps, you will now gain access to the Yaxha sign in page seen below:



7. Kindly enter your account login information as well as ensuring you are connecting by selecting the correct realm.

N.B. [Use the received realm instruction to determine which realm to connect to from your email.]

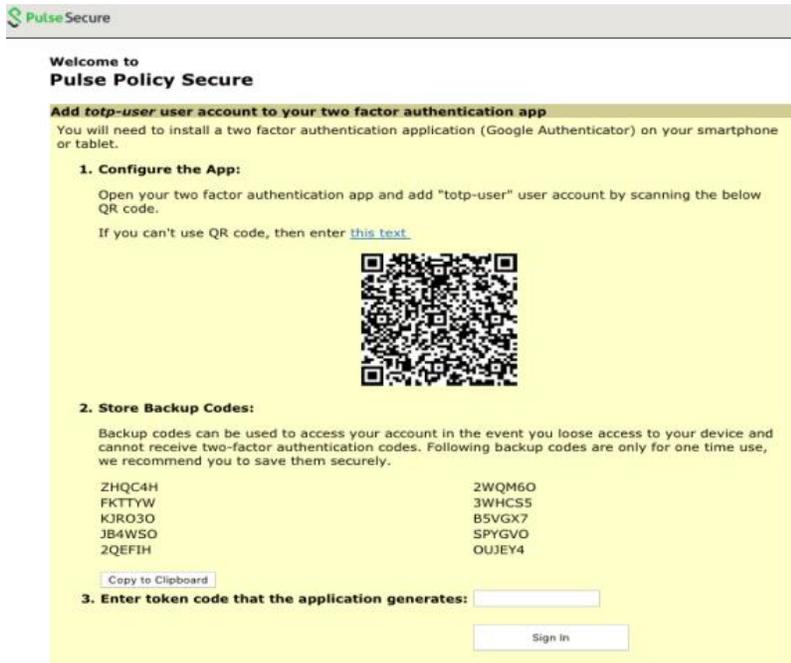
For this example, we will be connecting to the CITO Realm, hence, CITO is selected below:



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Upon successful login, you will then be directed to the Pulse Policy Secure page. If you are seeing options to configure the app using a QR code, and another instruction involving “Store Backup Codes”, stop here for now and prepare to configure your authenticator.

Pulse Policy Secure Page:



3 Authenticator configuration

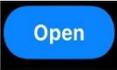
Ensure that you have the authenticator app downloaded on your device to act as the second verification for multi-factor authentication.

1. On your phone, go to your Appstore (for Mac) or Play Store (for Android) and look for the Microsoft Authenticator app. When found, select the Get or Install option to install.

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Image of Authenticator:



2. Click  to launch the authenticator app after installation.

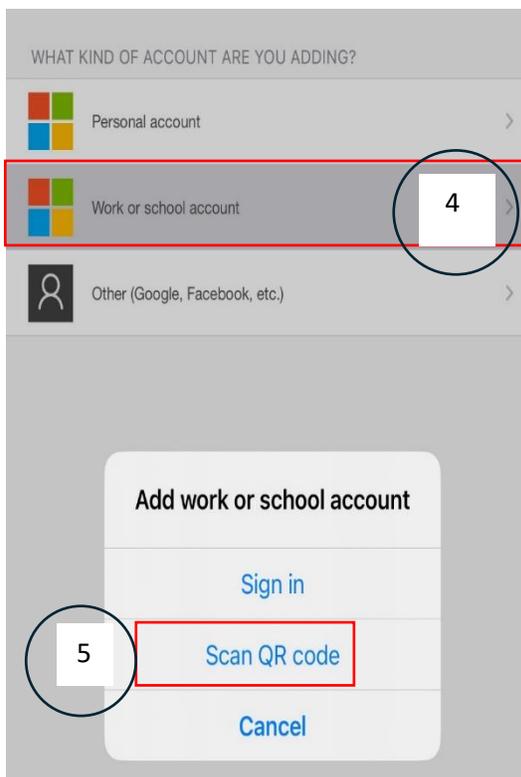
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3. In the authenticator app, click on the  button on the top right corner to scan the new QR code.



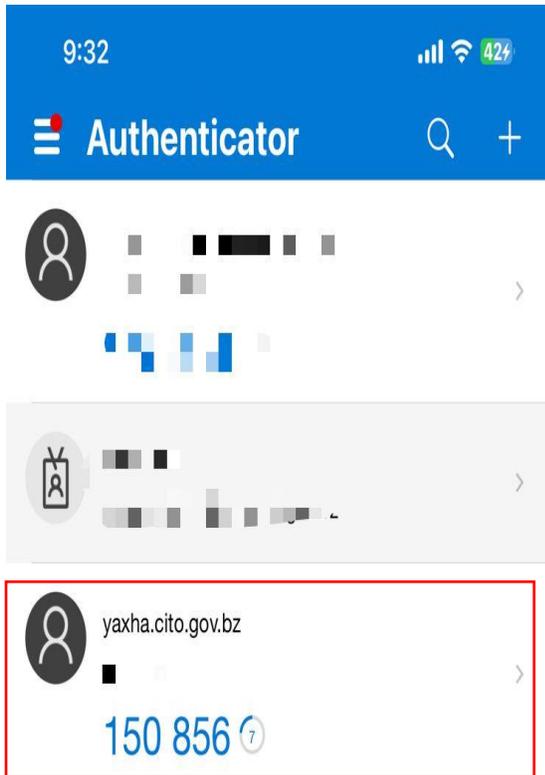
4. Next, select the Work of School account option
5. Select, Scan QR code.

(In this instance we are selecting the Work or school account option)



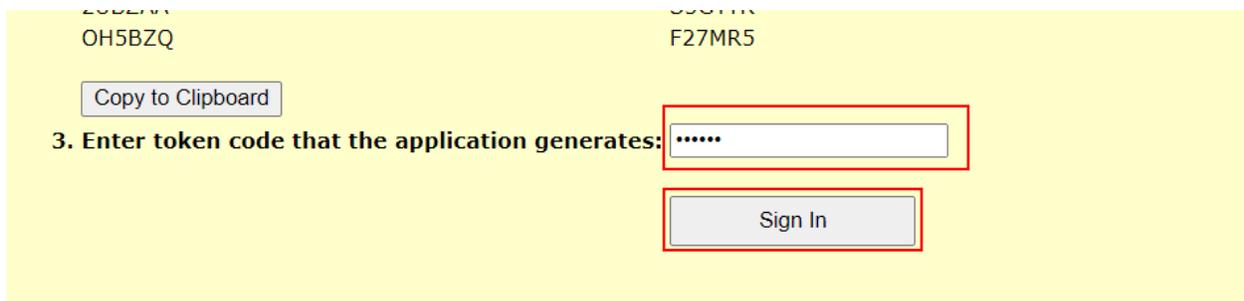
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A successful QR Code scan would result in a Yaxha entry to be visible from your Authenticator App list as highlighted below:



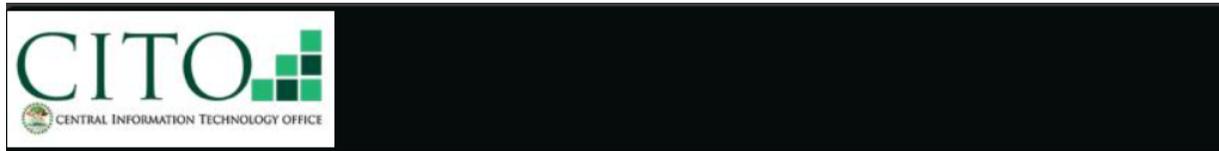
With this Yaxha entry, a new number code is generated for use. **[Expires and renews every 30 seconds]**

- Go back to the Pulse Policy Secure Page and enter the valid number code shown in Microsoft Authenticator, as shown below.
- Then, click the button.



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8. Refresh your browser to go back to the Yaxha login page.
9. Once on the login page, enter your login information and select the correct realm.



Welcome to
CITO's Secure Portal

Invalid username or password. Please re-enter your user information.

Please sign in to begin your secure session.

Username

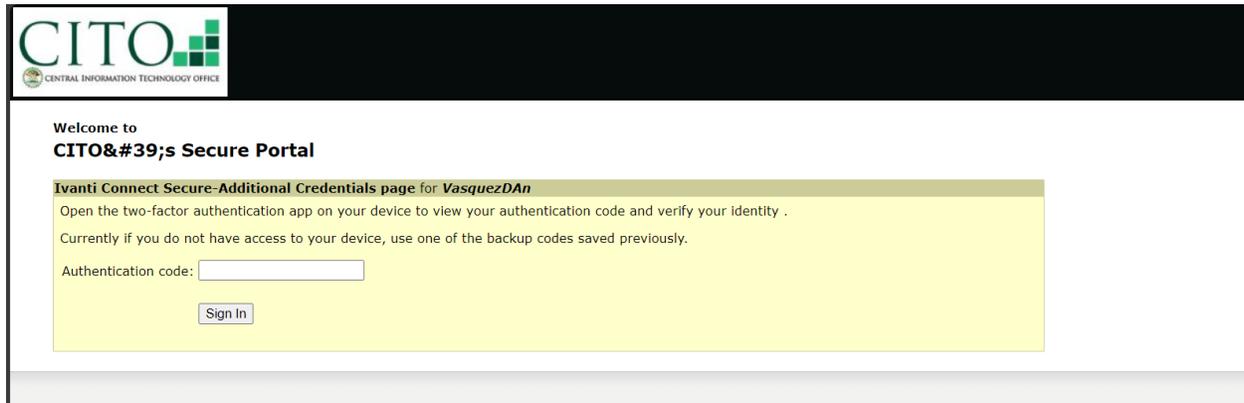
Password

Realm

- CITO
- CITO_General_Users
- HYWEB
- SYSADMIN
- VIZOR
- BCCAR
- MAG
- DATATORQUE
- SIGTAS
- SS
- BIOFIN
- SOR
- APSSS
- LAB
- TRANSPORT
- VITALSTATS
- KBA
- BELIPO
- EDATA
- CDEP

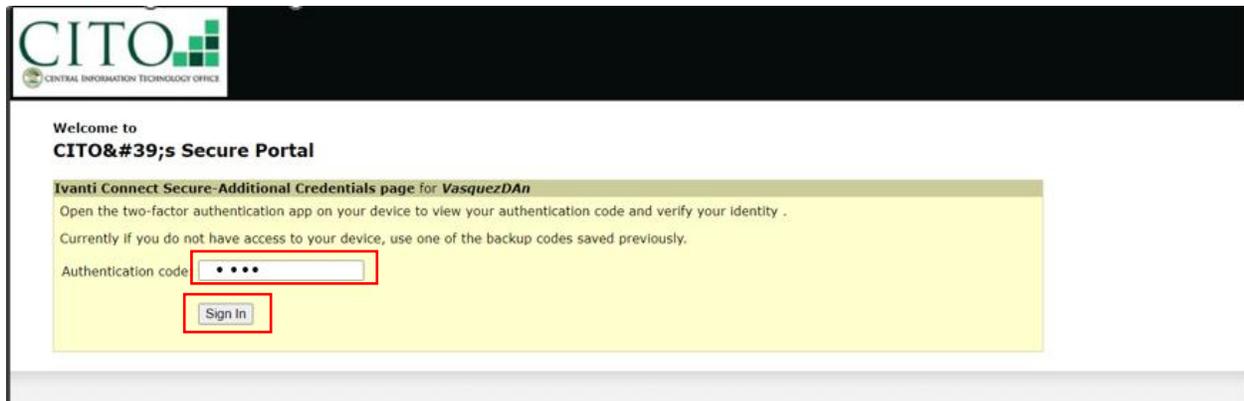
You will be taken to the page where it asks for you to enter your number code once again. If you have arrived this far, your MFA has been set up for your account.

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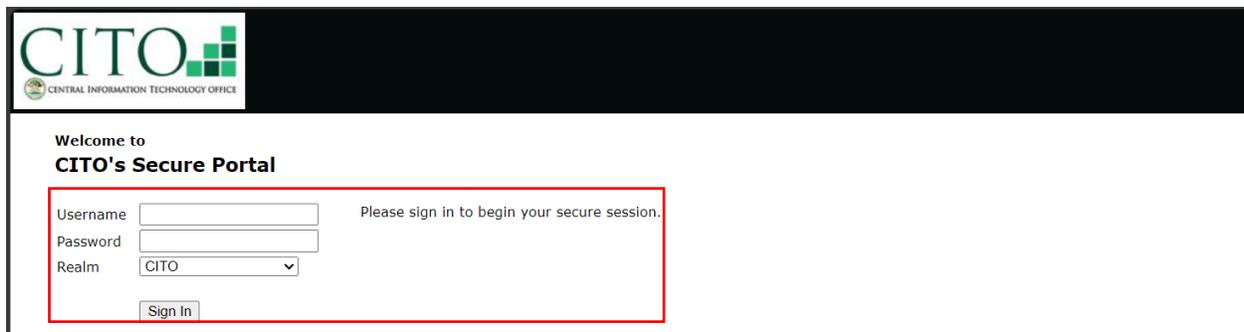
10. Go to the authenticator app for a valid number code and enter it into the authentication code window.

11. Then, click the sign in button.



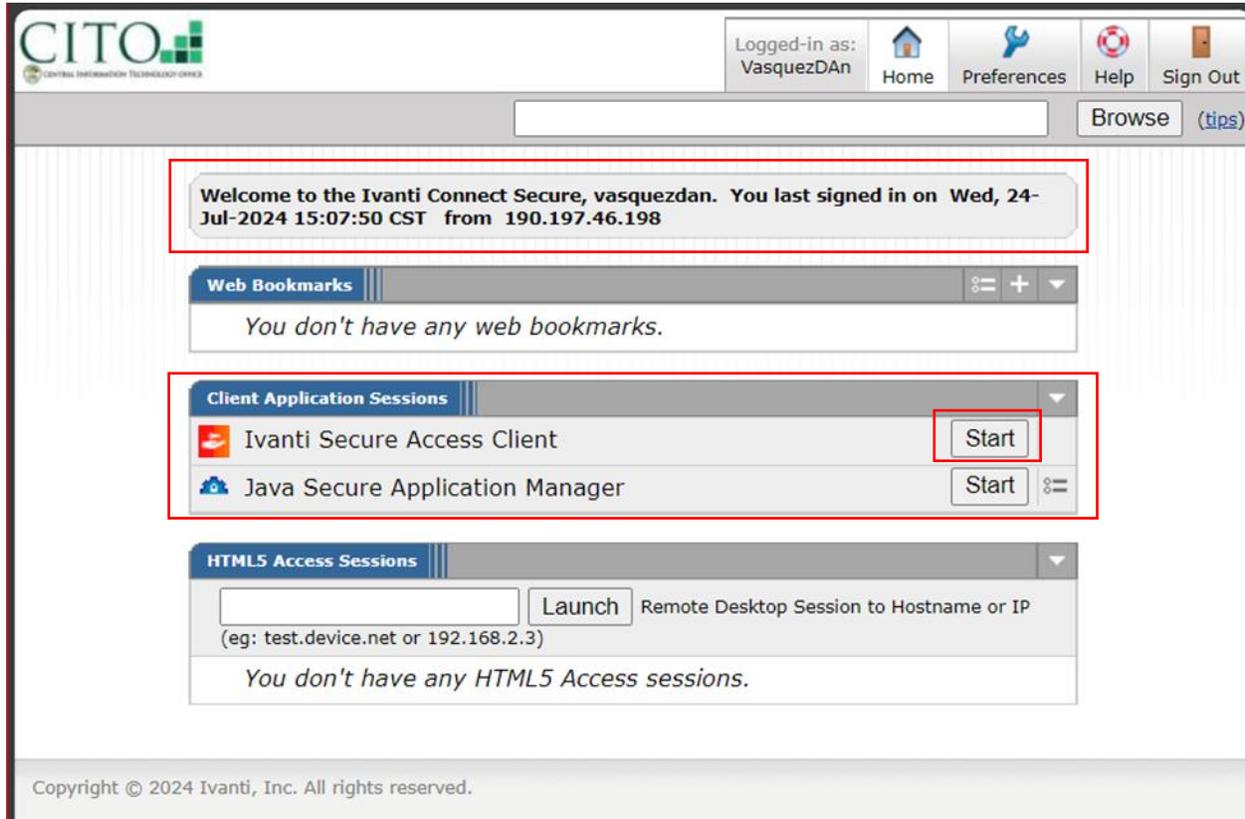
This will take you to the secure page login to resubmit your login.

12. Once more, enter your login information.



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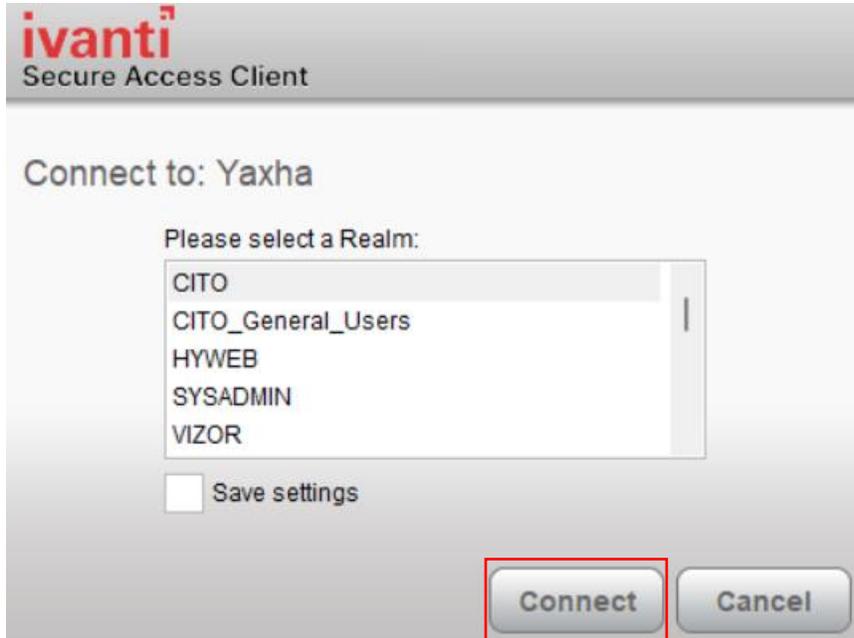
Successfully logging into the CITO's Secure Portal page will take you to your session log (this has where your last VPN sign in information is kept.) as shown below:



- Under Client Application Sessions for Ivanti Secure Access Client, click the button to gain access to the Ivanti login page.

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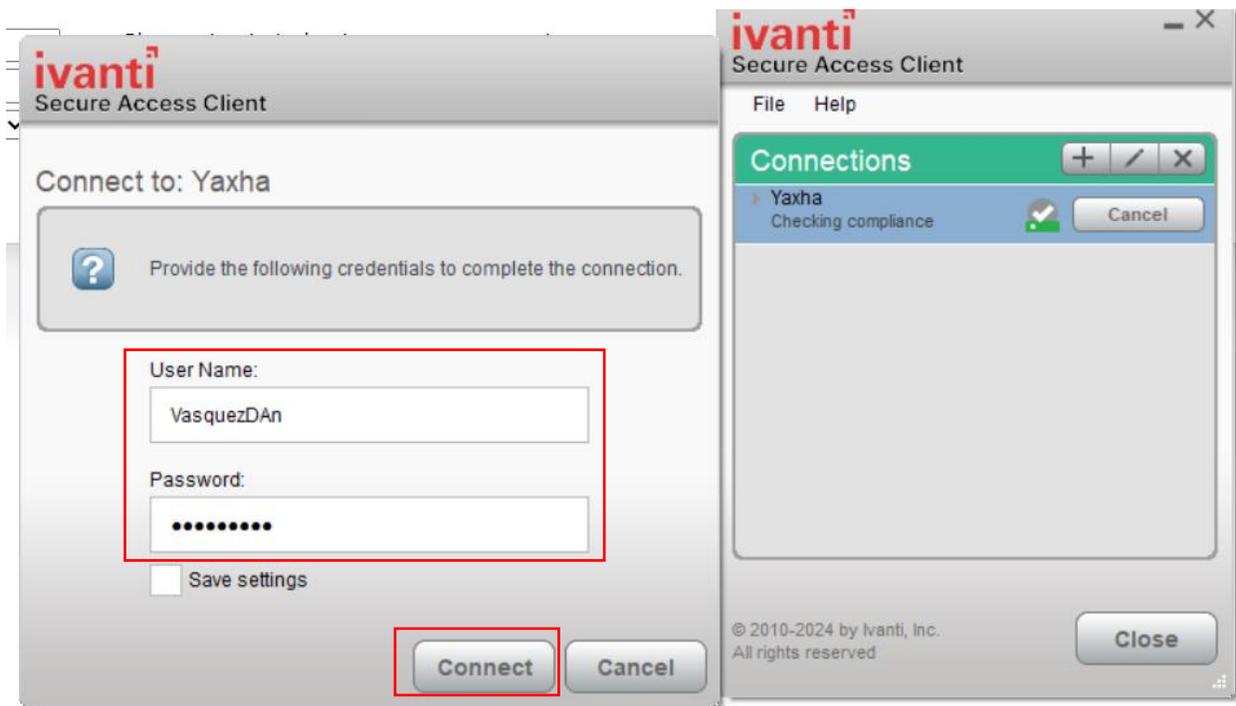
Image of Ivanti Login page:



14. Select the Realm from the list and click the  button to proceed.

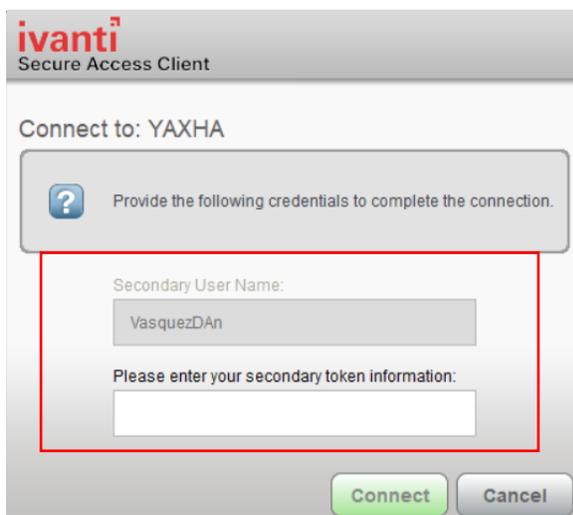
When the Login page is presented, enter your login credentials and click the connect button

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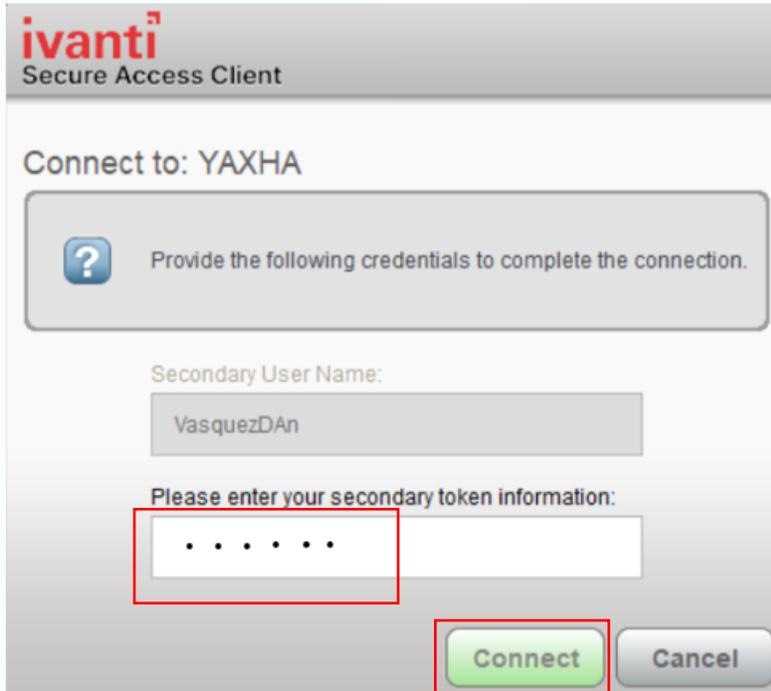
- For first-time configuration setup, upon successful login, you will be asked to enter your secondary number code information. To complete, go to the authenticator app to get a valid number code and enter the code in the secondary token window.

Image of successful login being prompted by MFA validation to enter secondary number code from authenticator app:

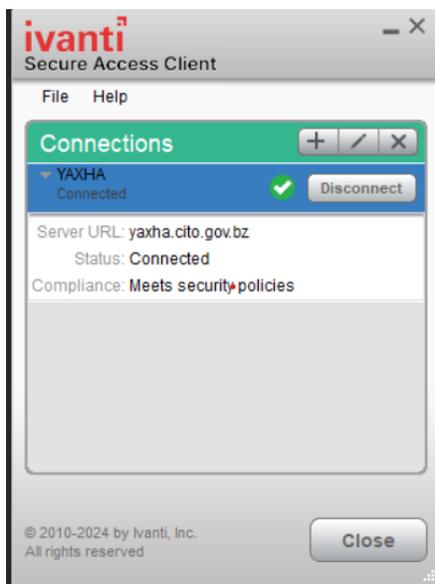


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16 Click the connect button to establish the VPN connection



Thereafter, you should be connected successfully as illustrated below:



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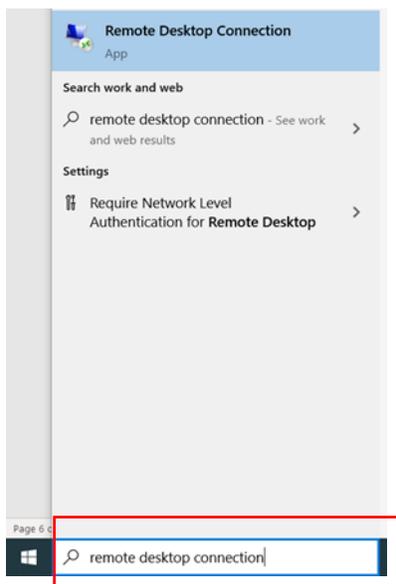
****Once you have successfully logged in there is no need to sign in back on the webpage and re-register your device over as it has already been registered. ****

****Keep in mind that now when signing into your realm you will need to have the Microsoft authenticator app valid code readily available to sign in. ****

4 Connecting to Your Machine (using RDP)

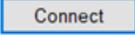
Once with successful login to MFA and Ivanti Yaxha connection showing a Connected status, do the following:

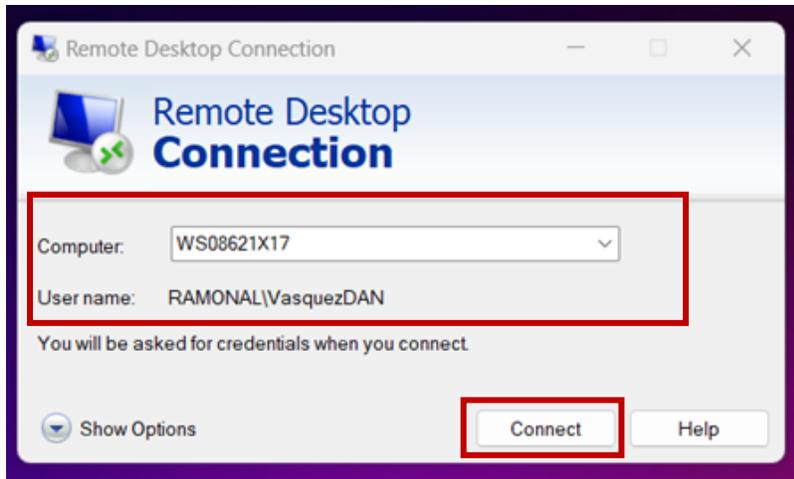
1. On the search bar, type Remote Desktop Connection and open the app.



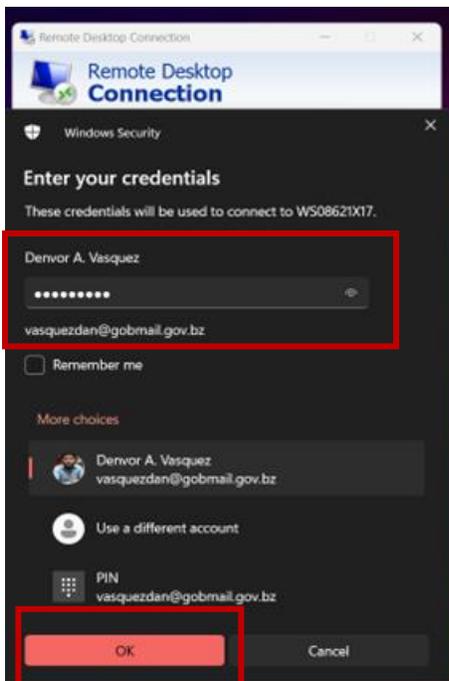
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2. Enter your workstation number.

N. B regarding **Username**: Ensure that the username is correct before attempting to connect. Use the username provided by CITO's Network administrators. To proceed, click .

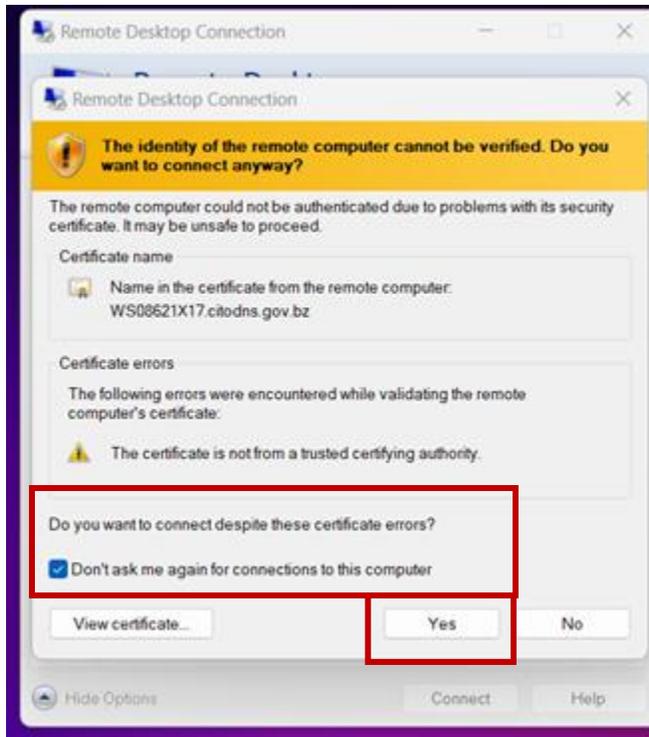


3. Next, enter your credentials and click ok.



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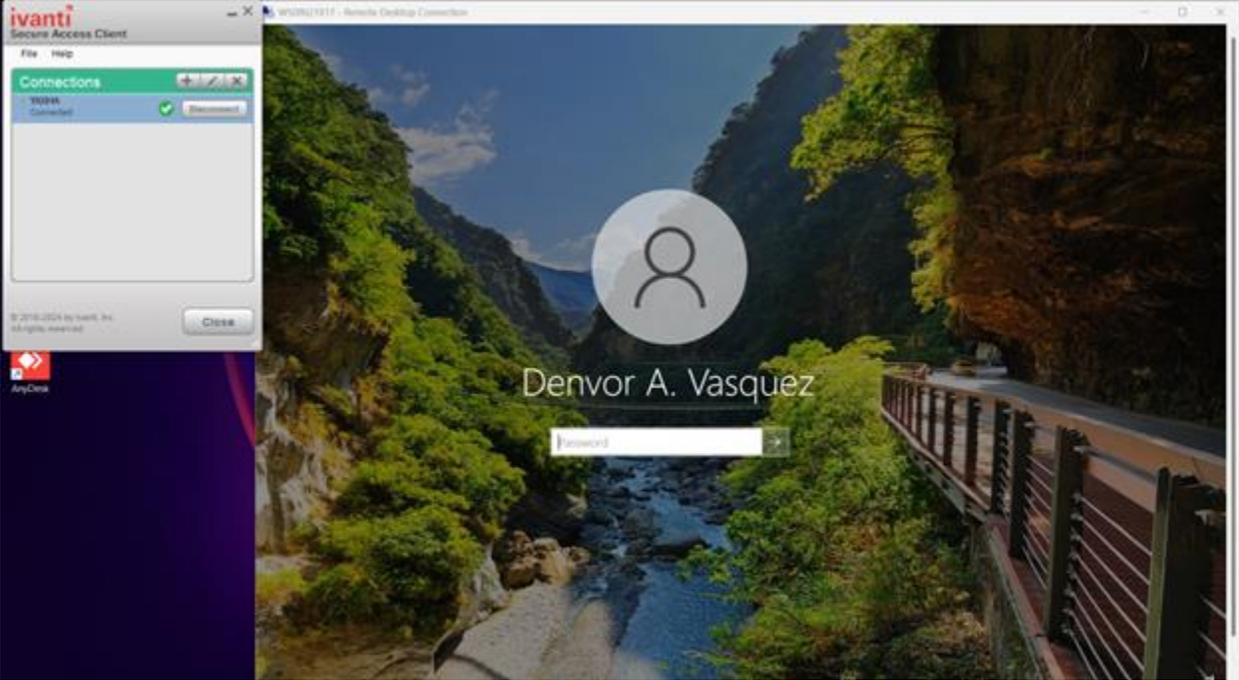
4. Upon receiving the Remote Desktop Connection Certificate Warning, User must kindly select the "Don't ask me again for connections to this computer Check box as seen below." subsequently click the ok button for validation verification



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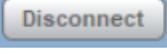
Your teleworking is now successful.

Kindly see connected workstation image with active VPN connection below:

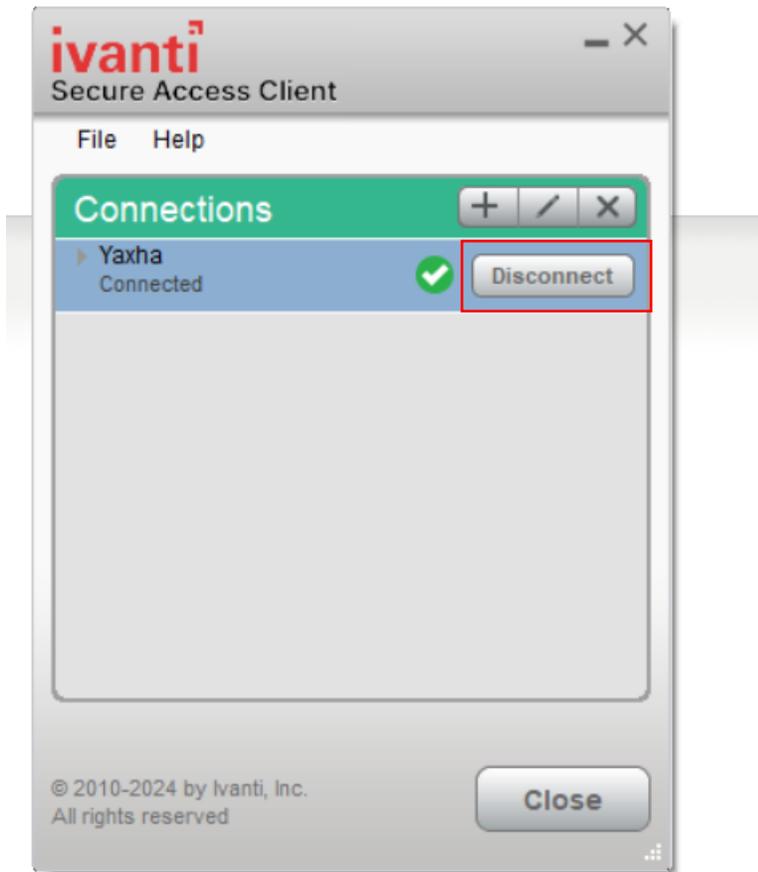


5 Disconnecting a teleworking session

1. At end of your Teleworking session, click disconnect.

To disconnect, a user may click the  button from the Ivanti secure access as shown below:

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If you have further issues, please contact the Network Administrators via +(501)-822-2478 or email us @ network.support@cito.gov.bz.