

# **CITO VPN Secure Connection Manual**

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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:	
Add Archive	Clear List
🔺 📃 🌠 win_PulseSecure_x64.zip	C:\Users\VasquezDAn\Downloads
PulseSecure.x64.msi	

#### 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 :

🔁 Ivanti Secure Access Client Setup	_	
Installing Ivanti Secure Access Client		ivanti
Please wait while the Setup Wizard installs Ivanti Secure Acce	ss Client.	
Status: Copying new files File: [1], Directory: [9], Size	9: [6]	
Back	Next	Cancel
DUCK	- Hox	Cunter

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

🛃 Ivanti Secure Access Cl	ient Setup	÷ 0	×
ivanti	Completed the Ivant Client Setup Wizard Click the Finish button to exit the	ti Secure Access	5
	Back	Finish	ancel

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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Best match	_	
Provide the secure Access Client App		
Apps		Ivanti Secure Access Client
द्वे Repair Ivanti Secure Access Client		κφρ
Search work and web		
Q, ivanti - See work and web results		Run as administrator
Q Ivanti - American IT software company		Open file location In to Start
Q ivanti secure access client		
Q ivanti management		
Q ivanti secure		
Government of Belize - Documents		
MFA for Ivanti Pulse Secure 1.0		
MFA for Ivanti Pulse Secure_385963758		

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

Secure Access Client	× ivanti –×
File Help	File Help
Connections + / ×	Add Connection X
	Type: Policy Secure (UAC) or Connect Secure (VPN)
No Connections	Name: YAXHA
NO COMPCTIONS	Server URL: yaxha.cito.gov.bz
	Connect Add Cancel
© 2010-2023 by Ivanti, Inc. All rights reserved	© 2010-2023 by Ivanti, Inc. All rights reserved

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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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ivanti Secure Access Client	- ×
File Help	
Connections	+ / ×
YAXHA     Disconnected	Connect
	Click to c
© 2010-2023 by Ivanti, Inc. All rights reserved	Close

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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)

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- 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.

ivanti Secure Access Client	Client
Connect to: Yaxha	+ × ×
Make the following selection to complete the connection.	nce; Failed   Cancel
Please select a Realm:	
CITO_General_Users	
Save settings	
Connect	Inc. Close
14. Click the <b>Cancel</b> button to proceed to setup the	MFA configuration.

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## 2 CITO VPN with MFA

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 Using an internet browser (e.g. Microsoft Edge or Google Chrome) head over to <u>yaxha.cito.gov.bz</u> 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.

2. Kindly proceed with downloading by clicking the Download button:

🗧 🗧 🗴 https://yaxha.cito.gov.bz/dana-na/setup/psaldownload.cgi?b=/dana-na/auth/url_default/welcome.cgi8ic=/dana-na/auth/url_default/welcome.cgi	_A <sup>®</sup> ☆ 1	D {	≡ @	R	
🛅 CITO Websites 🎽 FortiGates 🧧 Drill Fortigate 🎽 VMS 🛅 Sites 🤡 SportsFeed24 - Live 🎽 Pulse Secure	<b>₿</b>				
It appears that the application launcher is not installed. Download now to	procee	d.			
Download T Or, if you still believe that the application launcher is already installed, you can <u>Try Again</u> to find	it.				
If you do not want to proceed, please click <u>here</u> to go back.					

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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 button the screen will display as shown below:



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

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



Ti+	<b>1</b> 01
IIU	ie.

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



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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.		СПТО Согла на население на на население на на на население на население на население на население на население на
Click Click Circle Control Click Circle Circ	er has completed downloading, follow these installation steps.	After the application lat
Once you have completed the above steps, click HERE to continue with the launch.     Wo accommend educting "ramompart" and "alward" during the installation processes	Impleted the above steps, click LEEE to continue with the launch.	Click Proseco Click Click Proseco Click Cl

5. 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:

CITO'x Secure Portal - Pice × +	
← → C O A https://yaxha.cito.gov.bz/dana-na/auth/url_default/welcome.cgi	
	Allow this site to open the pulsescure link with Pulse Secure Application Launcher? <u>Choose a different application</u> .
Loading Components Please wait. This may take several minutes. • Host Checker If an error prevents a component from loading property, you can click here to continue. Not all functionality may be available.	Always allow https://yesha.cito.gooc.bz to open pulseecener links     Open Link Carced
	ľ

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

Page

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

**CITO VPN Secure Connection Manual** 

Loading Components Please wait. This may take several min	utes.
Host Checker	
If an error prevents a component from	loading properly, you can <u>click here</u> 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
	Always Yes No

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	
C	ownloading UnifiedSDK.zip. Please wait
	Downloading 0 of 5000002

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

**CITO VPN Secure Connection Manual** 

Welcome to CITO's Secure Portal	
Username Password Realm CITO V	Please sign in to begin your secure session.
Sign In	

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:

to Secure Portal	
VasquezDAN	Please sign in to begin your secure session.
CITO_General_Users	
SYSADMIN	
VIZOR	
MAG	
DATATORQUE	
SS	
SOR	
APSSS	
TRANSPORT	
VITALSTATS	
BELIPO	
EDATA CDEP	
	to Secure Portal VaquezDAN  CITO

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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:



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

<b>10:04</b> ✓ App Store		.ul 🗢 4	
=	Authenticator	Q	+

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- 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)

WHAT KIND OF ACCOUNT ARE YOU ADDING?			
	Personal account	×	
	Work or school account 4		
8	Other (Google, Facebook, etc.)	>	
	Add work or school account		
	Sign in		
	5 Scan QR code		
	Cancel		

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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:

9:32	ul 🗟 429	
<b>duthenticator</b>	Q ·	╞
		>
ă ····		>
yaxha.cito.gov.bz ■ 150 856 ⑦		>

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

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

7. Then, click the	Sign In	button.		
OH5BZQ			F27MR5	
Copy to Clipboard 3. Enter token code	e that the application	ı generates:	Sign In	

- 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

Jsername	VasquezDAn	Please sign in to begin your secure se	ession
Password	•••••		
Realm	CITO 🗸		
	CITO		
	CITO_General_Users		
	HYWEB		
	SYSADMIN		
	VIZOR		
	BCCAR		
	SIGTAS		
	ss		
	BIOFIN		
	SOR		
	APSSS		
	LAB		
	TRANSPORT		
	VITALSTATS		
	КВА		
	BELIPO		
	UDEP V		

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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elcome to		
ITO's Secure	Portal	
anti Connect Secure-Addi	ional Credentials page for VasquezDAn	
pen the two-factor authentic	tion app on your device to view your authentication code and verify your identity .	
urrently if you do not have a	cess to your device, use one of the backup codes saved previously.	
uthentication code:		
Sign In		
Sign In		
Sign In		

- 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.

Velcome to	
LIIO'5 Secure Portai	
Ivanti Connect Secure-Additional Credentials page for VasquezDAn	
Open the two-factor authentication app on your device to view your authentication code and verify your identity .	
Currently if you do not have access to your device, use one of the backup codes saved previously.	
Authentication code	
Sign In	
Transaction and the second sec	

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

12. Once more, enter your login information.

Welcome to CITO's Secure Portal	
Username Please sign in to begin your see Password CITO V Sign In	cure session.

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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:

	903	Logged-in as: VasquezDAn	Home	Preferences	() Help	Sign Out
					Brows	e ( <u>tips</u> )
ſ	Welcome to the Ivanti Connect Secure, vasquezdan. Jul-2024 15:07:50 CST from 190.197.46.198	. You last signe	ed in on	Wed, 24-		
	Web Bookmarks You don't have any web bookmarks.			8= + ▼		
Γ	Client Application Sessions			Start		
	🐴 Java Secure Application Manager			Start 8=		
	HTML5 Access Sessions	Desktop Session	to Hostn	ame or IP		
	You don't have any HTML5 Access sessio	ons.				
Copyright © 2024	4 Ivanti, Inc. All rights reserved.					
				Start		

13. 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:

ivanti Secure Access Client	
Connect to: Yaxha	
Please select a Realm:	
CITO_General_Users HYWEB SYSADMIN VIZOR	I
Save settings	
	Cancel
14. Select the Realm from the list and cl	ick the <b>Connect</b> button to proceed

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

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ivanti	Secure Access Client
Secure Access Client	File Help
Connect to: Yaxha	Connections + / X
Provide the following credentials to complete the connection.	
User Name:	
VasquezDAn	
Password:	
Save settings	
Connect Cancel	© 2010-2024 by Ivanti, Inc. All rights reserved

15. 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:

ivan Secure	ti Access Client
Conne	ct to: YAXHA
?	Provide the following credentials to complete the connection.
	Secondary User Name: VasquezDAn
	Please enter your secondary token information:
	Connect Cancel

Tit	le:
	_

16 Click the connect button to establish the VPN connection

**CITO VPN Secure Connection Manual** 

ivan Secure A	ti Access Client
Connec	t to: YAXHA
?	Provide the following credentials to complete the connection.
	Secondary User Name: VasquezDAn
	Please enter your secondary token information:
	Connect Cancel

Thereafter, you should be connected successfully as illustrated below:

ivanti Secure Access Client	_ ×
File Help	
Connections	+ / x
VAXHA Connected	Oisconnect
Server URL: yaxha.cito.gov.bz Status: Connected Compliance: Meets security police	cies
© 2010-2024 by Ivanti, Inc. All rights reserved	Close

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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)

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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

Connect

$\alpha_{3}$	username provided by	CITO's Network administrators.	To proceed, click
--------------	----------------------	--------------------------------	-------------------

Nemote D	Desktop Connection	-	• [		×
	Remote Desktop Connection				
Computer: User name:	WS08621X17 RAMONAL\VasquezDAN		~		
You will be asked for credentials when you connect.					
💽 Show Op	otions	Connect		Help	

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 Disconnect 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 @ <u>network.support@cito.gov.bz</u>.