VPN Connectivity Guide for

Remote Access Programs

Version 5.2-1

International Business Machines Corporation IBM Innovation Center – Dallas ISV z System Center Dallas, TX USA

This document is intended for the sole use of participants in an IBM Innovation Center – Dallas ISV z Systems Center Lab Remote Development Program and is not to be distributed to non-participants or used for purposes other than intended.

> © Copyright International Business Machines Corporation 2016. All rights reserved.

VPN Connectivity Guide for Remote Access Programs 5.2-1

This is version 5.2-1 of the VPN Connectivity Guide for Remote Access Programs.

Preface

This document is intended to give detailed instructions for connecting with a VPN client to guest systems at the IBM Innovation Center – Dallas ISV z Systems Center.

Any questions or comments regarding this document may be addressed to <u>zTech@us.ibm.com</u>. Please reference VPN Guide 5.2-1 in the subject line.

Table of Contents

1. VPN Infrastructure Overview

2. Account Management

3. Software Installation Guide

3.1 Windows

- AnyConnect Installation Instructions
- How to connect post-install

3.2. Linux

- OpenConnect VPN Client Configuration
- OpenConnect Installation for Debian based Linux

VPN Infrastructure Overview

Authentication into the Dallas ISV z System Center uses the same user id and password to connect to the website <u>https://dtsc.dfw.ibm.com</u>, and the VPN gateway at 198.81.193.13. Changing the password in one place causes the password to change in all other places.

When establishing a new VPN connection, be sure to select the group named "zDTSC-GUEST".

Account Management

Password Expiration

Passwords for all active accounts are on a 60 day expiration timer. 60 days after setting your passwords, you will be required to change it. To set a new password access the web site https://dtsc.dfw.ibm.com with the expired password. You will be routed to web pages which will allow you to change your password.

Account Validation

To validate your account is active and the password is current, attempt to log into <u>https://dtsc.dfw.ibm.com</u>. If there are no problems, you can then use the same user ID and password to connect to the VPN.

Lost Password or Disabled Accounts

In the case of a lost password or a disabled account, the Dallas ISV z Center will reset your password upon request. Please send such requests to etpadmin@us.ibm.com. You will be given a temporary password. To set a new password access the web site https://dtsc.dfw.ibm.com with the temporary password. You will be routed to web pages which will allow you to change your password.

Windows AnyConnect Installation Instructions

Please be aware: The exact procedure for the AnyConnect Client installation depends heavily on the environment in which it is being deployed. Your experience may differ from the following instructions. If you have any issues getting the client installed, contact the Dallas ISV z Center by sending email to zTech@us.ibm.com. Please use VPN Connectivity as the subject line and describe your problem. Screen shot snip-its are always helpful.

1) Point your browser to <u>https://198.81.193.13</u>, select the zDTSC-GUEST group, enter your user ID and password, then click Login.

	Login
Please enter you	r username and password.
GROUP: USERNAME: PASSWORD:	zDTSC-GUEST ▼
	Login

2) Observe the AnyConnect Secure Mobility Client Java Installation begin to start.

cisco AnyC	Connect Secure Mobility Client
 WebLaunch Platform Detection - ActiveX - Java Detection - Java - Download - Connected 	Using Java for Installation Sun Java applet has started. This could take up to 60 seconds. Please wait
	Help Download

3) Your firewall and/or antivirus software may display warning and confirmation dialogs, click to allow.

AnyConnect Secure Mobility Client Downloader	
The AnyConnect Downloader is performing update checks	* 1
S	_
UNetwork Threat Protection 2/26/2013 7:18:51 PM	— ×
vpndownloader.exe is trying to connect to protocol over TLS/SSL). Do you want to allow this program to access the network?	ITTPS - HTTP
Please see: How Do I Respond to a New Program Pop-up @ http://d02ntcl02.ibm.com/Category/77098/symantec_endpoint_protection_sep	
Remember my answer, and do not ask me Yes No	Detail >>
Help Down	iload

VPN Connectivity Guide for Remote Access Programs 5.2-1

4) Windows may ask for your password to confirm. This is NOT your VPN credentials, but your Windows account credentials.

😗 Use	r Account Control
	Do you want to allow the following program from an unknown publisher to make changes to this computer?
	Program name: C:\Users\IBM_A\WinSetup-Release-web-deploy.msi Verified publisher: Unknown File origin: Hard drive on this computer
To a	continue, type an administrator password, and then click Yes. vmorris Password
💌 s	how <u>d</u> etails <u>Y</u> es <u>N</u> o

5.a) After the installation completes, the connection will automatically establish itself.



5.b) If you do not see the above window, you'll need to manually launch the AnyConnect client program. Look for the AnyConnect icon in your taskbar or find the launcher inside your Start menu.

Windows AnyConnect connection (post-install)

Once you've successfully installed AnyConnect, to establish a new VPN connection follow these instructions:

1.a) Click the AnyConnect icon inside your taskbar.



1.b) Alternatively, start the AnyConnect VPN client software from the start menu.

Cisco AnyConnect Secure Mobility Client		
Notepad	•	
Getting Started	•	vmorris
Calculator		Documents
		Pictures
Misnlawswitch		Music
		Downloads
Maint Paint	•	Computer
Sticky Notes		Control Panel
Distributed CallCenter		Devices and Printers
Snipping Tool		Default Programs
		Help and Support
All Programs		Run
Search programs and files	٩	Shut down 🕨
🤧 🛱 🖉	₽	

2) Click the Connect button.



3) Select the zDTSC-GUEST group, and enter your VPN credentials.

🔊 Cisco AnyConn	ect 198.81.193.13	
Group: Username:	zDTSC-GUEST	Cisco AnyConnect Secure Mobility Client
Password:	******* OK Cancel	VPN: Contacting 198.81.193.13. 198.81.193.13 Connect
		to altalia cisco

4) Once your connection has been established, the AnyConnect icon in the taskbar will change to show a lock.



5) To close the VPN connection, left click the taskbar icon and click Disconnect.

Red Hat Enterprise Linux OpenConnect Installation

There is no installation required for RHEL OpenConnect, it is already installed. Proceed to the next section to see how to configure it.

Linux OpenConnect Configuration

1) Left click on the NetworkManager icon in the taskbar, select VPN Connections and click on Configure VPN...

L		Wired Network disconnected
		Wireless Networks IBM Disconnect
	IBM ASA POK (SSL) VPN 12 VPN 27	Available IBMVISITOR
	zISV Lab ASA 13	VPN Connections
Vitt	zISV Lab ASA 19 Configure VPN Discopposit VPN	<u>C</u> onnect to Hidden Wireless Network Create <u>N</u> ew Wireless Network

2) Click the Add button.

lame	Last Used	Add
/PN 12	13 minutes ago	
VPN 27	5 hours ago	Edit
zISV Lab ASA 19	15 days ago	🔋 Delete
IBM ASA POK (SSL)	never	
zISV Lab ASA 13	never	Import
		E <u>x</u> port

3) In the Choose a VPN Connection Type window, select Cisco AnyConnect Compatable VPN (openconnect) and click Create.

V 💿	_ X
77	Choose a VPN Connection Type
V	Select the type of VPN you wish to use for the new connection. If the type of VPN connection you wish to create does not appear in the list, you may not have the correct VPN plugin installed.
	Cisco AnyConnect Compatible VPN (openconnect) 😂
	Compatible with Cisco AnyConnect SSL VPN.
	🧏 <u>C</u> ancel Create

4) Name the connection and enter "198.81.193.13" in the Gateway field.

Connection <u>n</u> ame:	
Connect <u>a</u> utomatically	
VPN IPv4 Settings	
General	
<u>G</u> ateway:	
CA Certificate: (None)	
Proxy:	
Allow Cisco Secure Desktop <u>t</u> rojan	
CSD <u>W</u> rapper Script:	
Certificate Authentication	
User Certificate: (None)	
Private Key: (None)	
Use <u>F</u> SID for key passphrase	
Available to all users 🦓 Cancel 🔗 Apply	

5) Click the IPv4 Settings tab and change the Method drop down to Automatic (VPN) addresses only.

Editing ADMIN NETV	VORK .12		×
onnection <u>n</u> ame:			
] Connect <u>a</u> utomatically			
/PN IPv4 Settings			
Method: Automatic (VI	PN) addresses o	only	
Addresses			
Address Netmask	Gateway	Add	
		C Delet	5
		8 Delete	
DNS servers:			
<u>Coarch demains</u>			
<u>search domains:</u>			
		Routes	
Available to all users	X Cancel	Ann	
	M Cancer	, the	.,

6) Click the Routes... button and check Use this connection only for resources on its network.

Address	Netmask	Gateway	Metric	<u>A</u> dd
				B Delete
□ Ignore a	automatically	obtained rou	tes	
☐ I <u>gn</u> ore a	automatically	obtained rou	tes	

7) Click OK all the way back to your desktop, then left click the NetworkManager icon, select VPN Connections, and click on your newly created VPN connection.

		Wired Network disconnected	
		Wireless Networks IBM Disconnect	
- -	ADMIN NETWORK .12	2WIRE652	Cha ^e
	IBM ASA POK (SSL)	ATT840	01 6
	VPN 12 VPN 27	IBMVISITOR	di
	zISV Lab ASA 13	VPN Connections	>
	zISV Lab ASA 19	Connect to Hidden Wireless Network	
	<u>C</u> onfigure VPN Disconnect VPN	Create <u>N</u> ew Wireless Network	22:03

8) In the top right corner of the new window, click the button that looks like a cable plug.

N host	
Automatic	ally start connecting next time
Select	a host to fetch the login form
	🔀 <u>C</u> ancel
> Log	
	<u>C</u> lose

9) **Select the zDTSC-GUEST group** and enter your VPN credentials. Then Click Login. Please note that the timeout period is very short for entering this information. If you do not enter your credentials and click Login within about 10 seconds, the connection will fail.

🔍 Connect to VPN '.1	13 vendor network' 🗕 🗆 🗙					
VPN host 198.81.193.1	.3					
□ Automatically start connecting next time						
Please enter your username and password.						
GROUP:	zDTSC-GUEST					
Username:	etpdxxx					
Password:	•••••					
✓ Save passwords	Cancel Login					
▷ Log						
	Close					

10) Once you've successfully connected, the NetworkManager icon will show a lock indicating that the VPN tunnel is established.



11) To disconnect the VPN, left click the NetworkManager icon, click VPN Connections, and click Disconnect VPN.

DEB-Based Linux OpenConnect Installation

Run the following command from a shell:

sudo apt-get install network-manager-openconnect

Once the OpenConnect client has been installed, follow the instructions in the previous section to configure it.