

NetXGATE SSL VPN Client (Windows) Installation Guide

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NetXGATE SSL VPN Overview -

A Virtual Private Network (VPN) is a tunnel that carries private network traffic from one endpoint system to another over a public network such as the Internet without the traffic being aware that there are intermediate hops between the endpoints or the intermediate hops being aware they are carrying the network packets that are traversing the tunnel. The tunnel may optionally compress and/or encrypt the data, providing enhanced performance and some measure of security.

For business telecommuters or employees working from home, connecting securely to the corporate intranets or extranets to access files or application is essential.

Hence, whenever users access the organization resources from remote locations, it is essential that not only the common requirements of secure connectivity be met but also the special demands of remote clients. These requirements include:

- Connectivity: The remote users must be able to access the organization from various locations, like Internet cafes, hotels, airport etc. The range of applications available must include web applications, mail, file shares, and other more specialized applications required to meet corporate needs.
- Secure connectivity: Guaranteed by the combination of authentication, confidentiality and data integrity for every connection.
- Usability: Installation must be easy. No configuration should be required as a result of network modification at the remote user end. The given solution should be seamless for the connecting user.

How it works-

It allows access to the corporate network from anywhere, anytime and provides the ability to create point-to-point encrypted tunnels between remote user and company's internal network, requiring combination of SSL certificates and a password for authentication to enable access to the internal resources.

A VPN Client installed on the Mobile user's PC or Laptop which connects to a NetXGATE Next-Gen FW or VPN Concentrator which installed in the HQ/Corporate network. When the VPN Client is launched by the remote user, it will prompt for a (SMS OTP / Google Authenticator if enabled) and Password . The VPN Client then connects to the SSL VPN server in the office and if the password and certificate provided are correct, a secure tunnel is created between the PC and the HQ /office network.



Encrypted , Authenticated & Authorized Traffic via Internet Line

Pic -1

NetXGATESSL VPN Client Configuration at Remote Users PC / NoteBook

The NetXGATE SSL VPN client is compatible with all versions of MS Windows,

In order to connect to the NetXGATE Secure SSL VPN server you can download VPN Client software from www.netxgate.com or shared over Mail / Link .

Note-SSL VPN is not supported when NetXGATE is deployed as Bridge.

Installing and Running SSL VPN Client

Before you can use SSL VPN Client it must first be installed using the instructions below. You must have administration rights on your computer to be able to install it.

<u>Step - 1</u>

Install Secure SSL VPN cleint software in users windows PC -

Run NetXGATE SSL VPN Client software usually located in your Desktop , by double-clicking it, or by clicking Run once you have finished downloading it.

You may see a User Access Control window asking "Do you want to allow the following program to make changes to this computer?". If so, click Yes



Pic-2

When you are greeted with the "Welcome to the NetXGATE SSL VPN Client Wizard" window, click Next.



Pic-3 & 4

-	XGATESSLVPN 20.3.1 Setup - 🖓 🎫	NetXGATESSLVPN 20.3.1 Setup -
NetXGATE	hoose Components Choose which features of NetXGATESSLVPN 20.3, 1 you want to install.	Choose Install Location Choose the folder in which to install NetXGATESSLVPN 20.3
Select the components to inst NetXGATESSLVPN service if it Select components to install:	all/upgrade. Stop any NetXGATESSLVPN processes or the is running. All DLLs are installed locally.	Setup will install NetXGATESSLVPN 20.3.1 in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.
		Exprogram Files WebXGATESSLVPN Browse
	Position your mouse over a component to see its	Space required: 12.3MB
Space required: 12.3MB	description.	Space available, 17.06b



Select where you would like SSL VPN Client to be installed, then click Next. We highly recommend you use the default install location that the installer selects for you.

Note- The installation will now proceed. However, you may be warned about suspicious behavior of the installation process. In this case, warning may be ignored, so just close the window .

NetXGATESSLVPN 20.3.1 Setup	= 🗆 ×	🗃 NetXGATESSLVPN 20.3.1 Setup – 🗆 💌
Completed		Completing the NetXGATESSLVPN 20.3.1 Setup Wizard NetXGATESSLVPN 20.3.1 has been installed on your computer.
Output folder: C:\Program Files\WetXGATESSLVPN Extract: icon.ico Output folder: C:\Program Files\WetXGATESSLVPN\doc Extract: license.bt Created uninstaller: C:\Program Files\WetXGATESSLVPN\Uninstall.exe Starting NetXGATESSLVPN Interactive Service Checking .NET Framework version .NET Framework 4.0 Full found, no need to install. Proceeding with remainder of installation.		Click Finish to dose this wizard.
Completed Nullenft: Tarkfull Switzer v/2 50-1	~	
<back next=""></back>	Cancel	< Back Finish Cancel



Once installation has completed, click Finish .

During installation, you may be asked if you wish to install a SSL Device driver (TAP –Win32" . Allow this by clicking "Install" or "Continue".

If pop-up below windows , Click to Install



Pic-9

You have now successfully installed the NetXGATE SSL VPN client on PC.

Creating Your First Connection:-

NetXGATE SSL VPN Client can be launched from your Start menu by going to Start->All Programs-> **NetXGATE SSL VPN** -> **NetXGATE SSL VPN GUI** (if you selected the default location), or if you selected to have a desktop icon during install, you will see the NetXGATE SSL VPN GUI Icon on your desktop.



Running NetXGATE SSL VPN Client -

Before Configuring the below part , Pls obtain the details you need to setup your connection. Your IT Team may provide you with the settings and files you need to manually enter into SSL VPN Client , Like Certificate , Username and Its Password .

STEP-2-

Go to The desktop > NetXGATE SSL VPN GUI > double click.

An icon for the NetXGATE SSL VPN GUI will appear in the lower-right corner "System Tray" of the screen .



Pic-10

Right click on the **NetXGATESSL VPN GUI Icon** (in system-tray applet), and a menu should appear and giving you the option to "**NetXGATE –SSLVPN Client Configuration**".Click Over it ..

NetXGATE-SSLVPN	I Client Cor	nfigurat	tion			
About				o∎	¢×	
Exit	ixit					
		-		100	S	

Pic-11

Will open below New window for 'SSL VPN Client Configuration'-



Pic 12

Navigate to Add Client , will Open a New Configuration window for Creating new Client profile ".

🖼 Add New Client					-11	
Configuration						
Client Name	1					
Primary Server		Port	1194			
Enable Alternate Se	rvers	Two Fac	ctor Authentication			
Alternate Server 1		Port				
Alternate Server 2		Port	-			
Protocol	UDP	Cipher	AES-128-CBC	~		
Auth Algorithm	SHA256	MTU	1500			
Certificate Bundle		Browse				
	4					
	Cre	ate C.	ancel			

Pic 13

- 1. Here Configure the **Client Name** details provided By IT team.
- 2. **Primary Server** Public IP which configured In NetXGATE device or. &
- 3. Port Default: 1194 or Shared by IT Team
- 4. **Protocol** Default: UDP or Shared by IT Team
- 5. **Two Factor Authentication** If Using any "Two Factor" Like SMS OTP or Google Authenticator- Check it, if Not leave it Blank
- 6. Authentication Default :SHA 256 or Shared by IT Team
- 7. Cipher Type Default: AES-128-CBC or Shared by IT Team
- 8. Certificate Bundle Upload Certificate File (.zip) shared by IT Team
- 9. Click on "Create" to save the configuration.

🕱 Add New Client			- 0	×	
Configuration Client Name vpritest 1 Primary Server networks of Enable Attenuite Servers 2 Attenuite Servers 1 112 100 100	ns.net Port Two Fac	1194			
Attende Server 2 Protocol UDP Auth Algorithm SHA256 Certificate Bundle C:\Usen\Ra	Port Port Cipher MTU keshP\Download Browse	AES-128-CBC V 1500		×	X Successfully saved configuration
	Create	Creating New	Connection. Client N	ame: vpntest1	ОК

This finished the installation and configuration of SSL VPN client on the user's machine.



Pic 16

Establish connection

Step 3.-

Login to access network resources or Internet

Right click on the **NetXGATE SSL VPN GUI Icon** (in system-tray applet), and Your connection will now appear in the NetXGATE SSL VPN Client menu and giving you the option to "**Connect**".



Pic 17

Double click on "Connect" and it will appear new Window for Password.

Enter here the SSL VPN Passwords which provided by your IT Team .

			00101017	010 70 0	21/1
Fri Dec 18 10:53:46 2020 Wi Fri Dec 18 10:53:46 2020 Wi Fri Dec 18 10:53:46 2020 Wi Fri Dec 18 10:53:46 2020 MA Fri Dec 18 10:53:47 2020 MA	AGAIN LESSLVEN 24.5 X80_644 adows versions: OpenSSL 1.1.0F 2 INAGEMENT: CTCP Socket lister ed hold release from manageme INAGEMENT: Client connected INAGEMENT: CMD tate on' INAGEMENT: CMD tate on' INAGEMENT: CMD by all on' INAGEMENT: CMD by ecount 1 INAGEMENT: CMD by ecount 1 INAGEMENT: CMD hold off' INAGEMENT: CMD hold release	vo+riningw32 [S5L (ope rigreater) 64bit 5 May 2017, LZO 2, 10 aing on [AF_INET]127.0.1 from [AF_INET]127.0.0. 5 5	0.1:25340 1:25340	U] [LZ4] [I	T AL
¢.		Nuver	TECCIVE	NOU)
		NetXGA	TESSLVPI	N GUI	,
Disconnect	Reconnect	NetXG/	TESSLVPI	N GUI Hide	,
Disconnect	Reconnect	NetXG#		N GUI Hide	,
Disconnect	Reconnect S vpntest1 Usemame: Password;	NetXGA		N GUI Hide	3

Pic-18

Note – If you Using Dual Authentication – For **SMS OTP**- User name as "SMS" and Password – which shared over OTP and For **Google Authenticator**- User name as "VPN" and Password as shown in Google Authenticator

Click "OK" Button.

Again You will get window for master Password .

Enter Pa	assword:	
1		
Save	e password	
-	OK	Cancel

Pic-19

Enter the password and click "OK" Button.

The icon turns yellow indicating that connection is in progress and turns green woment connection is established and IP is leased.



When you have successfully connected, you will see a similar bubble message like 'VPNtest1' is now connected'



Pic-20

Now you successfully connected the Secure VPN.

Similarly you will get also "CONNECTED, SUCCESS" msg like Below window.



Pic-21

You also Right click the Client icon and click "Disconnect" to disconnect the connection.

IP Address. 192.168.1.254 Subnet Mask 255.255.255.0 Default Gateway 192.168.1.1 DHCP Server 192.168.1.1 DNS Servers 12.21 Lease Obtained 12.24:33 PM Lease Expires PM
Ethernet adapter SSL TAP: Connection-specific DNS Suffix . : Description
C:\Documents and Settings\RAKESHP>ping 192.168.2.10 -t Pinging 192.168.2.10 with 32 bytes of data: Reply from 192.168.2.10: bytes=32 time=132ms TTL=64 Reply from 192.168.2.10: bytes=32 time=92ms TTL=64

After successful connection of Host PC .IPConfig/all will show the below type of details include virtual IP Report-

Routing table - At NetXGATE Server end.

```
Routing Policy:

0: from all lookup local

32766: from all lookup main

32767: from all lookup default

Routing Table: main

202.62.92.88/29 dev wan1 proto kernel scope link src 202.62.92.90

10.10.20.0/24 dev vpns1 proto kernel scope link src 10.10.20.1

192.168.2.0/24 dev lan1 proto kernel scope link src 192.168.2.10

default via 2010000.86 dev wan1
```

Pic-22

Verifying Client connection state- At SSL VPN Server End (For Admin Only)

Go to Status> VPN> SSL VPN Servers > Select the VPN server then click on Show Client.

Check SSL VPN server connection, here it will show the Active and Inactive Clients.

Dashboard Configu	iration	Stat	us	Reports Adminis	stration	_	_	_	_	Thu 23 Jan 2014	11:54:52 IST
Open All Close All	SSL	-VPN Serve	er Status								
💡 Status	8	Show Client	•								
System Info	V	ID	•	Name	Description	IP	Interf	ace	Protocol	Port	
Network	V	1		HO- Secure SSL VPN Server	sslvpn	10.10.10.1	vst1		UDP	1194	
SSL-VPN Servers SSL-VPN Clients POSec VPN	->	Client L	ist - Server:	HO- SSL VPN SERVE	R					💥 Disconn	ect Selected Client
Cisco VPN			Status	Common Name	Client	Location	VPN IP	Tx Bytes	Rx Bytes	Public IP	Connected At
GRE Tunnel			UP	Rakeshp 10003	Rakes	hp	10.10.10.16	4.78 MB	19.32 MB	102.72.133.230	2014-01-23 11:18
E 🔁 System			UP	DelhiBr - 10002	Delhi		10.10.10.12	2.86 MB	14.92 MB	100-71-010-10	2014-01-23 11:18
E C Services			UP	Mum -10006	Mum	bai	10.10.10.10	94.78 KB	27.08 KB	122.400-407-134	2014-01-23 11:53
E D Updates			UP	Hyd-10005	Hyd		10, 10, 10, 11	3.98 MB	13.25 MB	14443-09,114	2014-01-23 11:18
			DOWN	Kol -10012	Kolk	atta	(**)		(1+1)	× *	(14)

Pic-23