

MilesightVPN User Guide



Preface

Thanks for choosing MilesightVPN. As a web-based VPN monitoring and management platform, MilesightVPN establishes a virtual private network for communications between users and devices to offer a highly reliable, efficient and secure solution for connecting to machines remotely. This guide teaches you how to configure and operate the MilesightVPN. You can refer to it for detailed functionality and configuration.

Readers

This guide is intended for the following users:

- Distributors
- Network Planners
- On-site technical support and maintenance personnel
- Network administrators responsible for network configuration and maintenance

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Revision History

Date	Doc Version	Description
Aug. 29, 2018	V.1.0	Initial version
Mar. 25, 2020	V.1.1	Optimize the installation steps
Jun. 3, 2021	V 2.0	Replace Brand to MilesightVPN
Sept. 2, 2021	V 2.1	Support Ubuntu 20.04
		1. Logo Change
Dec. 9, 2021	V 2.2	2. Add uninstall commands and network
		tool detection

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Introduction

MilesightVPN, based on WEB service design, addresses the increasing demand for bandwidth and wireless remote data access and establishes a secure and reliable VPN tunnel for users and remote devices to ensure the security of data transmission. It also solves the problem of the lack of public network IP for routers in mobile cellular network, and implements local direct access to remote devices. Basic usage of MilesightVPN are as follows:



1. MilesightVPN works as OpenVPN server. Note that OpenVPN server needs to have public IP.

2. Milesight routers or CPEs work as OpenVPN client and connect with MilesightVPN.

3. The control station can be a laptop or other devices also working as OpenVPN clients. After establishing connection with the MilesightVPN, control station can remotely access to the devices that connected with Milesight routers or CPEs.

Compatibility

The following Milesight IoT products support connection and management with MilesightVPN:

- UR Series Router
- UF51 5G CPE

System Requirements

Hardware

It's suggested to use the server which suit following requirements:

For 500 devices

- CPU: 2 Cores, 2.0 GHz
- RAM: 16 GB
- Disk: 512 GB
- Bandwidth: ≥100MBps

For 1000 devices

- CPU: 8 Cores, 3.2 GHz
- RAM: 32 GB
- Disk: 1 TB
- Bandwidth: ≥100MBps

Software

- Operating System: Ubuntu Server 20.04
- Browser: Chrome, Firefox

Installation

Requirements

- Ubuntu Server
- MilesightVPN Software Package
- WinSCP
- Putty (or other SSH tool)

Package Upload

Following steps are based on WinSCP tool. You can also use other tools to upload packages.

1. Download the MilesightVPN package from Milesight IoT website, then extract and check files:

depend_install_urvpn.sh	1 KB
milesight_vpn_2.0.1_amd64.deb	52,833 KB
milesight_vpn_md5	1 KB

2. Open WinSCP and set up a session between WinSCP and server.

Se WinSCP			- 🗆 ×
🔃 🕄 🗣 Synchronize 🔳 🧬 💽 🕇	A Login		
🚅 New Session	Login		
Prew Session Prew Session Destine D	New Site harry⊕192.168.22.114	Session File protocol: SFTP Host name: 192.168.22.113 User name: Password: harry Save Agvanced	mands Session Options Remote Help
<	Tools ▼ Manage ▼	🔁 Login 🔻 Close Help	>
0 B of 339 MB in 0 of 57	1 hidden		
Not connected.			

3. Select the MilesightVPN folder and click "Upload", select the server path and click "OK" to upload.

- D-1 - Harry@152.100.22.115 - WINSC	CP	- 🗆 X
🕀 🕃 🍃 Synchronize 🔳 🐙 💽	🏟 📦 Queue 🔹 Transfer Settings Default 🔹 🥩 -	
📮 harry@192.168.22.113 × 🛒 New	v Session	
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🕞 Upload	Properties New • I + - V I Download • * I + * Local N	Mark Files Commands Session Options Remote Help
D:\		· · ·
Name		Size Changed
CloudMusic	Upload file 'Milesight/PN' to remote directory:	2020/11/26 21:01:33
iVMS-4200alarmPicture	/home/harry/*.*	2021/5/25 15:51:32
KMSnico Install	Transfer settings	2021/3/23 13/3/132
Lanova Drivers	Transfer type: Binary	
Adiania - Lawoni		
	Transfer in <u>b</u> ackground (add to transfer queue)	
OpenVPIN	Transfer settings	
Program Files		
Program Files (x86)	Do not show this dialog box again	
SVN	又件夹	
D:\ - harry@192,168,22,113 - WinS(CP	- 🗆 X
🛄 📪 🕞 Synchronize 🔳 🖓 💽	🚳 🚳 Queue 🛪 Transfer Settings Default	
harry@19216822113 X	v Section	
	7 Session	
🖬 D: T 📴 T 🔽 T 🔷 T 🔿 T 🔳		🛛 🏠 💋 🔯 Find Files 📴
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📮 harry@192.168.22.113 × 📑 New Session									
_ D: • 🚰 • 🟹 • 💠 • 🔶 • 🗈 🗈 🏠 🏖	2			harry 🔹 🚰 🔹	▼ • ← • → • € 🔽	🏠 🎜 🔍 Find Files 🔒			
Upload 🝷 🖉 Edit 🔹 🗙 🛃 🕞 Properties 🛛	😤 Nev	w - 🛨 🖃 🟹		Download 🝷	» 🛨 » Local Mar	k <u>F</u> iles <u>C</u> ommands <u>S</u> essio	n <u>O</u> ptions	<u>R</u> emote	<u>H</u> elp
D:\				/home/harry/	- 10				
Name CloudMusic iVMS-4200alarmPicture KMSpico_Install LenovoDrivers MilesightVPN OpenVPN Program Files Program Files (x86) SVN Users	Size	Type 文件夹 文件夹 文件夹 文件夹 文件共奏 文件共奏 文件件夹 文件件夹 文件件夹 文件件夹 文件件夹 文件件夹 文件件夹 文件件夹 文件件夹 文件件夹 文件中央 文件中奏 文子中中奏 文子中中奏 文文中	^	Name MilesightVPN VPN	^	Size	Changed 2020/11/2 2021/6/3 2021/5/2	26 21:01:3 17:29:04 5 15:51:32	3

MilesightVPN Installation

1. Log in the server via Putty. You can also use other SSH tools.

- Session	Basic options for your PuTTY	session		
 Logging Terminal Keyboard Bell Features Window Appearance Behaviour Translation Selection Colours Colours Connection Data Proxy Telnet Rlogin SSH Serial 	Specify the destination you want to con Host <u>Name</u> (or IP address) 192.168.22.113	nect to <u>P</u> ort 22		
	Connection type: ○ Ra <u>w</u> ○ <u>T</u> elnet ○ Rlogin ● <u>S</u> SH ○ Serial Load, save or delete a stored session Saved Sessions			
	Default Settings Loriot SSH Steve AWS Y2E AWS	Load Sa <u>v</u> e Delete		
	Close window on exit: Always Never Only or	n clean exit		

2. Ensure the netwrok tool is installed in the server. You can type *ifconfig* to check it. If not found, excute *apt install net-tools* to install it.



3. Run following commands under MilesightVPN directory.

chmod +*x depend_install_urvpn.sh* ./*depend_install_urvpn.sh*



4. Install DeviceHub software. Take the 2.0.1 version as example, please type following command:

dpkg -i milesight_vpn_2.0.1_amd64.deb

It will take about 10 minutes to complete the installation and there will show following message when the installation complete.



Note:

If you need to upgrade to V2.0.1 from V1.0.19, please backup the VPN database and uninstall the old version program, then install new version. More details about backup and restore please contact Milesight technical support.

MilesightVPN Uninstallation

If you need to uninstall the MilesightVPN, run following commands:

sudo	rm	/etc/init.d/milesight_vpn.sh	/etc/init.d/urvpn-server.sh
/etc/init.d/urvpr	_watchdog_sta	rt.sh	
sudo rm -rf /mile	esight_vpn		
sudo dpkg -P mi	lesight-vpn		
sudo apt-get ren	nove mysql*		
sudo rm -rf /mile sudo dpkg -P mi sudo apt-get ren	esight_vpn lesight-vpn nove mysql*	1.31	

Services and Ports

In order to ensure the security and unblocked communication, here are ports for services:

Port	Protocol	Description
18080	TCP	HTTP Service
18443	TCP	HTTPS Service
1194	TCP	OpenVPN Service

Expand Manage Devices

The number of available managing devices can be checked in "Device" tab. Maximum number of managing devices is 25 by default. Please refer to following steps to expand manage devices.

1. Log in MilesightVPN and go to "VPN" tab, then click "Create&Download" to download license info file.

- 2. Contact Milesight sales or technical support and send the license info file.
- 3. Get expand license from Milesight and click "Browse" to import the license.
- 4. Click "save" to save the settings and the max manageable devices will change.

Milesight		*		2 -
VPN Certifica	te			
		For your device security, please change	e the default password	
Listen IP				
Protocol	UDP	~		
Port	1194			
Client Subnet	10.8.0.0/16			
Subnet Allocation Method	Manual	~		
Ping Interval	60	S		
Ping Restart	150	S		
Compression	LZO	~		
Encryption	BF-CBC	~		
Authorization Code	8yQQ4ykw25			
License		Create & D	ownload Browse	

General Settings

Login MilesightVPN

After installation, type <u>https://server ip:18443</u> or <u>http://server ip:18080</u> to visit the login page.

Default username: admin Default password: password



Device

Display the information about Milesight devices connected to MilesightVPN. You can modify the "Name" and "Remote Subnet" when the subnet allocation method is "Manual".

Milesig	ght		ţ.	\$			💄 adı	min
Device	Control							
			F	or your device security, plea	se change the default passw	ord		
Clear	Managing/Max Mar	nageable: 0/25					Search	Q
Name	\$ Statu	us 🕈 Serial	Number \$	Virtual IP	Real IP 🛊	Remote Subnet 🖨	Time 🔺	Historical
				No matching	records found			

Device Information					
ltem	Description				
Name	Show the name of device. Users can click it to change the name.				
Status	Show the connection status of device.				
Serial Number	Show the serial number of device.				
Virtual IP	Show the virtual IP of device.				
Real IP	Show the real IP address of device's WAN port/cellular.				

Remote subnet	Show the subner it to change it.	et segment an	ld mask of de	evices. Us	sers can cli	ick
Time	Show the conne	ected time of	the control d	evice.		
View	Online Time - 2021-06-03 19:12:22	Storical statist Historical sta Offline Time \$	tics record. atistics(Clear All) Duration \$ 000 000 05m 48s	Receive \$ 3K	Х Transmit \$ ЭК	
Clear	Click to clear di	sconnect dev	ice records.			

Control

Display the information about control devices (PC, laptop, etc.) connected to MilesightVPN. You can modify the "Name" and "Remote Subnet" when the subnet allocation method is "Manual".

1	f ilesig	ht		ŧ	\$				💄 admin	
	Device	Control								
				l E	or your device s	ecurity, please change the	default password			
	Clear							Sea	rch	Q
	N	ame 💠	Stat	us \$	١	/irtual IP 🌢	Real IP 🛊		Time *	
					N	lo matching records four	nd			

Control Information					
ltem	Description				
Name	Show the name of the control device.				
Status	Show the connection status of control device.				
Virtual IP	Show the virtual IP of device.				
Real IP	Show the real IP address of control device.				
Time	Show the connected time of the control device.				
Clear	Click to clear disconnect device records.				

VPN

Configure basic VPN settings and import expand license. After changing VPN settings, please re-connect the Milesight devices to make it take effect.

M ilesight		\$ _	🙎 admin
VPN Certifica	te		
	For your device security, please	change the default password	5
Listen IP			
Protocol	UDP	~	
Port	1194		
Client Subnet	10.8.0.0/16		
Subnet Allocation Method	Manual	~	
Ping Interval	60	S	
Ping Restart	150	S	
Compression	LZO	~	
Encryption	BF-CBC	~	
Authorization Code	8yQQ4ykw25		
License		Cre	eate & Download Browse

Save

VPN		
Item	Description	Default
Listen IP	Enter the IP address of the MilesightVPN.	Null
Protocol	Select communication protocol (TCP/UDP).	UDP
Port	Service port	1194
Client Subnet	Set the segment and the mask of the virtual addresses pool.	10.8.0.0/ 16
Subnet Allocation Method	Select from "Manual" or "Auto" options. Manual: Modify remote subnet manually from the Device page Auto: Configure remote subnet automatically via "Subnet Behind Client".	Manual
Subnet Behind Client	Configure Milesight device subnet.	Null
Ping Interval	Set the Ping interval (in second)	60
Ping Restart	Reconnection interval (in second)	150
Compression	Select from "None" or "LZO" options. LZO: Lempel-Ziv-Oberhumer (or LZO) is a lossless algorithm that compresses data to ensure high decompression speed.	LZO
Encryption	Select from "NONE", "BF-CBC", "DES-EDE3-CBC", "AES-128-CBC", "AES-192-CBC" and "AES-256-CBC".	BF-CBC
Authorization Code	Input the Authorization Code for Milesight device connection (5 to 31 alphanumeric combinations)	Random
License	Import the license for expanding manage devices.	/

Certificate

After clicking "Create & Download", it will generate a unique ovpn file with certificate for control devices to connect to MilesightVPN.

M ilesight		\$	💄 admin
VPN Certificate			
	F	or your device security, please change the default password	
Certificate Name			
Create & Download			

Account

You can edit the information about user account on this page.

Milesight	📑 茔 💠 上 admin
Account	Tool
	For your device security, please change the default password
User Name	admin
Old Password	
New Password	
Confirm New Password	
Save	
Account	
ltem	Description
Username	Enter a new username. You can use characters such as a-z, 0-9, "_", "-", "\$". The first character can't be a number.
Old Password	Enter the old password.
New Password	Enter a new password to change the password.
Confirm New Password	Enter the new password again.

Ping Tool

Ping tool is used for checking network connection between MilesightVPN and other devices.



Application Example

Connect Milesight Devices to MilesightVPN

1. Ensure the network between routers and MilesightVPN platform is normal.

2. Go to "System -> Device Management -> MilesightVPN" page to fill in MilesightVPN server information.

- Server: MilesightVPN server address or domain name
- **Port:** 18443 (Fixed)
- Authorization Code: this code can be found on VPN page of MilesightVPN server
- Device Name: user-define name

System 👻	Device Management	Milesight VPN
General Settings	Milesight VPN Setting	
Phone & SMS	Server	192.168.22.113
	Port	18443
User Management	Authorization Code	8yQQ4ykw25
SNMP	Device Name	test
ААА	Connoct	
Device Management	Connect	
Events	Milesight VPN Status	
Industrial	Status	Disconnected
	Local IP	-
Maintenance	Remote IP	_
APP 🕨 🗸	Duration	

3. Click "Connect" and after a while, you can check it shows "connected".

Device Management	Milesight VPN
Milesight VPN Setting	
Server	192.168.22.113
Port	18443
Authorization Code	8yQQ4ykw25
Device Name	test
Disconnect Milesight VPN Status	
Status	Connected
Local IP	10.8.0.2
Remote IP	10.8.0.1
Duration	30s

Router connection status can also be checked on MilesightVPN web GUI.

Milesig	ght 🧮	ŧ	*				💄 adm	'n
Device	Control							
				For your device security, please chang	ge the default password			
Clear	Managing/Max Manageable: 1/	25					Search	Q
	Name \$	Status 🔷	Serial Number \$	Virtual IP 🛊	Real IP \$	Remote Subnet \$	Time *	Historical
	test	Connected	6223B1327384	10.8.0.2	192.168.22.130:54635	192.168.2.0/24	2021-06-03 20:26:12	View

Note: time synchronization is needed between MilesightVPN and routers.

4. Go to "Network -> Firewall -> Security" to enable remote access services if you need to remotely access routers. You can also change service ports here.

Status	Security	ACL	Port Mapping	DMZ	MAC Binding Cus	tom Rules
Network 👻	Prevent Attack					
Interface	DoS/DDoS Prote	ection				
DHCP	Access Service	Control				
Firewall	Servi	ce	Port	Local	Remote	
QoS	HTT	Р	80			
VPN	HTTF	PS	443			
IP Passthrough	TELN	ET	23			
	SSH	1	22			
Routing	FTF		21			
VRRP						

Connect Control Device to MilesightVPN

This example mainly introduces how to connect a Windows10 laptop to the MilesightVPN platform.

- 1. Install OpenVPN software. You can select either <u>OpenVPN Connect</u> or <u>Community OpenVPN</u> as OpenVPN client.
- 2. After installation, open Windows Service Manager to ensure OpenVPN services are running.

	G 📑 🚺 📷 🕨 🔳 II I					
🧟 Services (Local)	Services (Local) OpenVPNService Stop the service Restart the service	Name Network Connections Network Connectivity Assis Network List Service Network Location Awareness Network Setup Service Network Store Interface Ser Office 64 Source Engine	Description Manages o Provides Dir Identifies th Collects an The Networ This service Saves install The Offline	Status Running Running Running Running	Startup Type Manual Manual (Trig Manual Automatic Manual (Trig Manual Manual (Trig	Log ' Loci Loci Loci Neb Loci Loci Loci
		OpenSSH Authentication A OpenVPN Interactive Service OpenVPN Legacy Service	Agent to ho	Running	Disabled Automatic Manual	Loci Loci Loci
		CopenVPNService		Running	Manual	Loci
		Parental Controls Parental Controls Payments and NFC/SE Man Peer Name Resolution Prot Peer Networking Grouping Peer Networking Identity M Performance Counter DLL Performance Logs & Alerts Physics	Helps the C Enforces pa Manages pa Enables serv Enables mul Provides ide Penformanc	Running	Manual Manual (Trig Manual Manual Manual Manual Manual	Loci Loci Loci Loci Loci Loci Loci

3. Go to "Certificate" page of MilesightVPN, fill in a certificate name, click "Create & Download" to download the certificate.



Note:

1) If there is not Milesight VPN server IP address in the certificate, check if you fill in Listen IP in VPN page of MilesightVPN.

2) If you use default certificate, all traffic will pass VPN tunnels and the laptop may not access the Internet. In order to define a specific tunnel and not affect normal Internet access, please open the certificate and change "redirect-gateway defl" to "route 192.168.0.0 255.255.0.0" (192.168.0.0 is the subnet of Milesight routers).

```
comp-lzo
cipher BF-CBC
dev tun100
remote 192.168.22.113 1194
proto udp
resolv-retry 0
nobind
up-delay
verb 3
keepalive 60 150
topology subnet
client
redirect-gateway defl
<ca>
```

- 4. Run OpenVPN software with the certificate.
 - 1) If you use Community OpenVPN, put the certificate under "OpenVPN/config" folder.

Valick access Quick access Quick access Desktop Desktop Downloads Downl	🚽 👻 🛧 📘 🗃 This P	PC > Local Di	isk (C:) → Program Files → OpenVPN	 config 				ى ~	Search config	
Desktop # BEADMEbd: 9/4/2018 1:31 PM Teet Document: 1 KB Downloads # Image: Company of textpp.org/n 9/4/2018 1:31 PM Open/VPN Config 7 KB IP Downloads # Image: Company of textpp.org/n 9/4/2018 1:31 PM Open/VPN Config 7 KB IP Downloads # Image: Company of textpp.org/n 9/4/2018 1:31 PM Open/VPN Config 7 KB IP Downloads # Image: Company of textpp.org/n 9/4/2018 1:31 PM Open/VPN Config 7 KB IP Lesson 2 Image: Company of textpp.org/n Image: Company of textp	4 Quidenne		Name	Date modified	Туре	Size		2 items		
December of testepn.ovpn 9/4/2018 1:31 PM Open/VPN Config 7 KB Documents * Pictures * Lesson 2 Lesson 3 Lesson 3 Lesson 4 Le	P Quick access		README.txt	9/4/2018 1:31 PM	Text Document		1 KB			
Bocuments ■ Pictures Lesson 2 Lesson 3 Lesson 4 Lesson 4 Lesso	Desktop Downloads	*	n testvpn.ovpn	9/4/2018 1:31 PM	OpenVPN Config		7 KB			
➡ Pictures	Documents	*								
Lesson 2 Lesson 3 Uualink Video	E Pictures	А.								
Lesson 3	Lesson 2									
Ursalink Video	Lesson 3									
	Ursalink Video									

then run OpenVPN GUI, select this file to click Connect.



2) If you use OpenVPN Connect, run the software and import the certificate, then connect device to MilesightVPN.

OpenVPN Connect	- ×	OpenVPN Connect	- >
< Im	port Profile	Profiles	1
URL	FILE	CONNECTED	
Drag and drop You can import	o to upload .OVPN profile. t <mark>only one profile</mark> at a time.	OpenVPN Profile 192.168.22.113 [control-test]	
		DISCONNECTED	~
E	OVPN	CONNECTION STATS 4.2KB/s	
	- -		
(BROWSE	oR (c	

Devices Communication

Method 1: Virtual IP Access

Users can use virtual IP: http port to access router from laptop.

Device C	Control						
		F	or your device security, pl	ease change the default password	0		
Clear Mana	aging/Max Manageable	e: 1/25				Search	Q
Name 🖨	Status 🖨	Serial Number 🖨	Virtual IP 🖨	Real IP 🖨	Remote Subnet 🖨	Time 🔺	Historical
test	Connected	6223B1327384	10.8.0.2	192.168.22.130:54635	192.168.2.0/24	2021-06-03 20:26:12	View



Milesight IoT

A Not secure | 10.8.0.2/login.html

	3
	English
Milesiaht	
Username	

If you need to access the devices under router subnet, you can add a port mapping rule in router web GUI and use virtual IP: port to access the device.

Method 2: Real IP Access

Users can use real subnet IP (bridge0) to access router from laptop. For that ensure the subnet is different from your laptop and laptop routing table should include the subnet.

Not secure 192.168.2.1/login.html		
		Englist
	Milesight	
	Lusemame	
	Password	
	Login	
	END	