



VPN Tracker 365

VPN Configuration Guide

SonicWALL

PRO Series, SuperMassive Series, TZ Series, NSa Series, NSa E-Class, NSsp Series, NSv Series

{`&\$&\$`Xdh`ahk`5;`TaWXdh`ahk`HF5ž`aV`5_eZ[`gf`eXfXeI`XW`r

HaWKeVbcl`eZ[`g`J]`žg`V`~`TahT`_`Ti`'abgUX`Vbc`XWž`a`j`[`b`X`'be`'a`c`Tegžj`_g`bhgg`X`j`e`gg`Xa`Vbaf`Xagb`YXdh`ahk`5;`'be`Xdh`ahk`HF5ž`aV`"Lbhe`eZ[`gf`'g`'g`Xr`fb`Yg`TeX`TeX`Zbi`Xea`XWUI`'g`X`TWb`'c`Tal`'a`Z`'fb`Yg`TeX`_V`Xaf`X`TZe`XX`'Xag`r

G[`X`Xdh`ahk`_b`Zb`'f`T`'ge`TWX`'Te`^`b`Y`Xdh`ahk`5;`'TaWXdh`ahk`HF5ž`aV`"že`XZ`f`g`Xe`XW`'a`'g`X`H`"F`"Ta`Wb`g`Xe`Vb`h`a`g`e`Xf`"B`g`Xe`'ceb`Wh`Vg`Ta`WVb`'c`Tal`'a`T`'Xfr`'Xag`ba`XW[`Xe`X`a`~`Ti`'UX`'ge`TWX`'Te`^`f`Ta`W`#`be`e`XZ`f`g`Xe`XW`ge`TWX`'Te`^`f`b`Y`g`Xe`e`Xf`c`XV`g`l`X`'Vb`'c`Ta`Xf`"r

Xdh`ahk`f[`T`_`Ti`X`TUfb`_hg`X`_`ab`_`T`U`_`g`_`'be`Tal`'We`XV`g`be`'a`We`XV`gž`f`c`XV`T`_`be`'bg`Xe`Vbaf`Xdh`Xag`T`_`W`'TZXf`'a`Vbaa`XVg`ba`j`_g`'g`X`hf`X`b`Y`g`'f`'Wb`Vh`'Xag`ber`Tal`'V[`Ta`Z`'g`'g`X`'eb`hg`Xe`'a`Z`Xa`Xe`T`_ž`'a`V`_h`Wa`Z`j`_g`bhg`_`_g`T`g`ba`ž`Tal`_b`f`g`c`eb`Y`g`ž`U`h`f`'a`X`f`f`ž`be`W`T`g`ž`Xi`Xa`'V`Xdh`ahk`[`Tf`'U`X`Xa`'TW`'f`X`W`b`Y`g`X`'c`b`f`f`U`_`g`'b`Y`f`h`V[`'W`'TZXf`"r

9i`XeI`'XY`b`eg[`Tf`'U`X`Xa`"`TWX`'g`'Xaf`he`X`'g`T`g`g`X`'a`'Ye`'T`g`ba`'a`'g`'f`~`TahT`_`f`'TW`he`T`g`"Xdh`ahk`'f`'ab`ge`X`f`c`baf`U`_`X`'Y`be`'c`e`a`g`a`Z`'be`V`_`Xe`V`T`_`Xee`b`e`"r

EXi`f`XWA`bi`X`'UXe`&\$&\$`r

5cc`_X`žg`X`5cc`_X`_b`Zb`ž`6bb`^`ž`@`TV`ž`@`TV`B`F`ž`@`TV`6bb`^`ž`Cb`j`Xe`6bb`^`Te`X`'ge`TWX`'Te`^`f`b`Y`5cc`_X`'7b`'c`hg`Xe`ž`aV`"že`XZ`f`g`Xe`XW`'a`'g`X`H`"F`"Ta`Wb`g`Xe`Vb`h`a`g`e`Xf`"r

[j`j`j`"Xdh`ahk`Vb`_m](#)

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Introduction

My VPN Gateway Configuration Checklist

Throughout this guide there will be certain pieces of information which are needed later on for configuring VPN Tracker. This information is marked with red numbers so it is easier for you to reference. Print out this checklist and use it to keep track of your device settings.

IP Addresses

1. Fba\WJ 5?? J 5A ' C'5W\Xff. ~~RRRRRRR'RRRRRRR'RRRRRRR'RRRRRRR~~
be< bfgAT` X` ~~RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR~~
2. Fba\WJ 5?? ?5A 'A Xg' be^: ~~RRRRRR'RRRRRR'RRRRRR'RRRRRR #RRRRR'RRRRR'RRRRR'RRRRR~~

Firewall Identifier

3. Ha`dhX': \Xj T_`WXag\Xe. ~~RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR~~

Authentication

4. CeX!F[TeXW>XI. ~~RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR~~
5. K5HG< 'HfXeaT` X. ~~RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR~~
6. K5HG< 'CTffj' beW' ~~RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR~~

Task One - SonicWALL Configuration

With Simple Client Provisioning, setting up your SonicWALL device is really straightforward and should only take you a couple of minutes:

Step One: Gather configuration information

You'll need this information to set up VPN Tracker. Use the Configuration Checklist on the previous page to keep a note of this for the VPN Tracker setup later on in the guide.

```
: \aWI bhe'FbaWJ 5?? f'ChU_\V'fj 5A E' C'TWwXff' be[ bfgaT' X'(1)"Lbh'j \_r
YaWg' f'haWKe' Network '2' Interfaces žbe'a' g' X'; _bUT_ CA '7_Xagbar
J \aWbj f'r
7baYžheX'g' X'CeXIF[ TeXW>XI '(4)'be'l bhe'Wxi 'WX"G[ f' f'eYXæXWg' Tf'g' Xr
F[ TeXWFXVeXg' ba'g' X'FbaWJ 5??"G[ f' f' ]hfgTa' XkgeT' fXVheX'cTffj' beWf
j [ \V[ 'l bh' VbaYžheX'XfcXVT_ 'be'l bhe'FbaWJ 5?? WXi WX"Lbh'VTa' fXg'g' f'r
hc'haWKe' VPN '2' Group VPN '2' General '2' Shared Secret" r
```

Tip: Y Use Default Key for Simple Client Provisioning f' XaTU_XWba'g' Xr
FbaWJ 5??žab'CeXIF[TeXW>XI f' eXdh'eXWr

```
Yl bhe'FbaWJ 5?? hfXf' 9kgXaWXW5hg' XagVTg'ba' fK5HG< lžl bh' _aXXWg' Xr
hfXeaT' X'(5)'TaWg' X'cTffj' beW(6)'bYT' hfXe'j [ b' f' Th'g' be'WXWg' TWXffr
g' X' CA"r
```

Step Two: Insert this information to VPN Tracker

You can now use this information to skip ahead to Task Two and start the Simple Client Provisioning configuration for your SonicWALL device within VPN Tracker.

Task Two - Configuration in VPN Tracker

Simple Configuration using Simple Client Provisioning

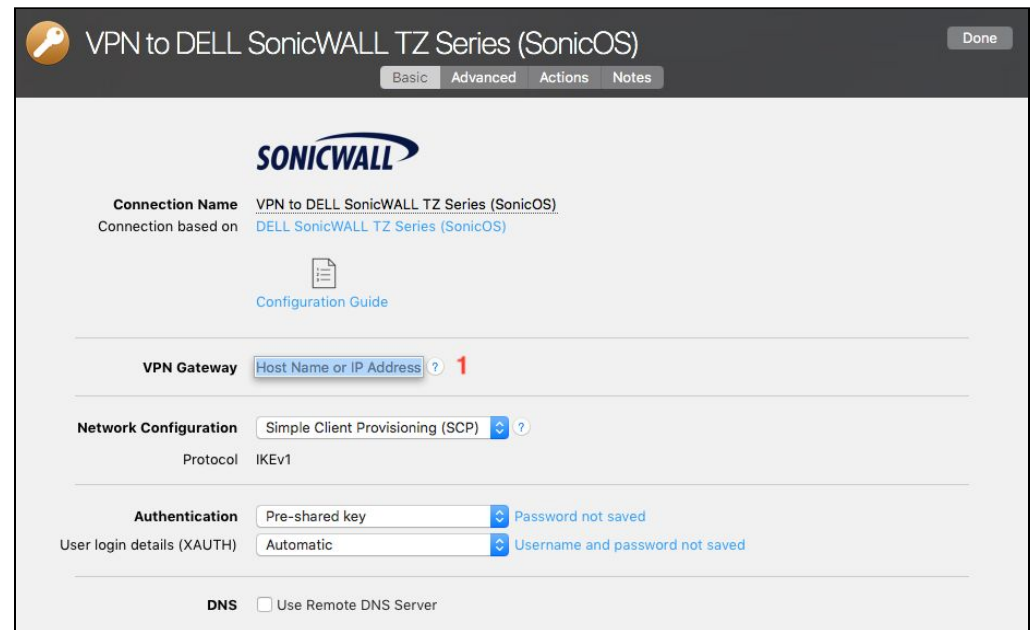
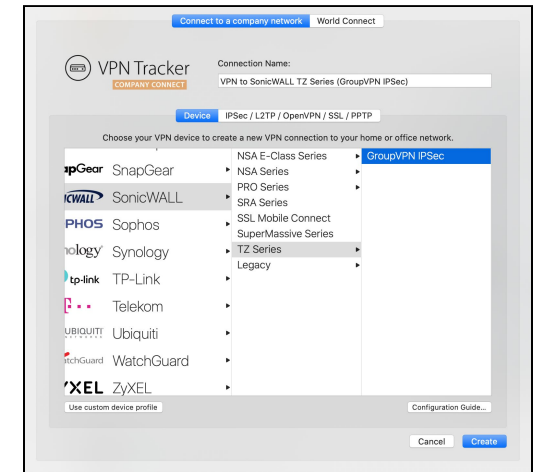
With Simple Client Provisioning, all of your device's settings are automatically transmitted to VPN Tracker 365, which makes configuration very straightforward.

Step One: Add a connection

B cXa`l CA `GeTV^Xe" *) "r
7_V^ba` Create a connection žbe`V_V^ba`g` X`Ž`a`g` X`Ubgb` `X`g`VbeaXe`bYg` X`Tcc`j` `a`Wbj` "r
FX_XVg`SonicWALL`Yeb` `g` X`f`g`r
FX_XVgl`bhe` `bWX`fX`Z`"GMF`XeXf`r

Step Two: Configure the VPN connection

; b`g`g` X` Basic`" gT`U`r
VPN Gateway: `9ag`Xe`l`bhe`WXi`WXf` C`TW`Xff` [XeX` (1)r
Network Configuration: `@T`X`fheX` SonicWALL Simple Client
Provisioning `f`fX`XVg`Wf`
7_V^` Done` r



Task Three - Testing the VPN connection

In order to test your connection, you will need to connect from a different location.

For example, if you are setting up a VPN connection to your office, try it out at home, or from an Internet cafe, or go visit a friend.

Connect to your VPN

7[XV^`YefgbYT_d TgI bhe`agXeaXgVbaaXVgba`f`j be^aZ`Tf`gf[bh_WUX`"HfX`g`f`_a^Tf`T`gXfgr
[ccp.## j j "Xdh`ahk"Vb`r
FgTegf X I CA `GeTV^Xe` *) `Tcc`r
7_V^`ba`g`X`B a#B Yf_VXe`g`ghea`ba`l bhe`VbaaXVgba`r



IMPORTANT:

YI bh`TeX`hf`aZ`l CA `GeTV^Xe`Ybe`g`X`Yefgg` X`j`g`l bhe`VheeXag`agXeaXgVbaaXVgba`z`g`j`_g`Xf`g`l bhe`VbaaXVgba`"J`T`g`Ybe`g`X`g`Xf`g`b`Vb`c`X`g`r

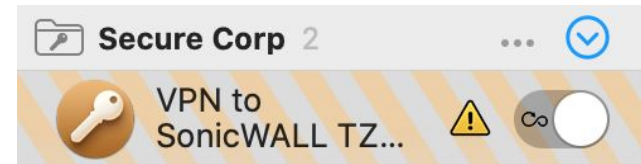
8XcXaWaZ`ba`l bhe`fXg`c`z`Lbh`j`_l`UX`c`eb`c`g`XW`g`b`Xag`Xe`l bhe`ce`X`l`f`[TeXW^XI` (4) Tf`j`X`_Tf`l bhe`K5HG<`hf`XeaT`X` (5) TaWcTffj`beW` (6) "Gb`f`Ti`Xr`g`X`Ybe`g`X`Yh`gheX`z`V`[XV^`g`X`Ub`k`F`g`be`X`a`>X`l`V`[T`a`g`b`f`Ti`X`g`X`c`Tffj`beW`a`l bhe`^X`l`V`[T`a`f`b`l`bh`TeX`abgTf`^XW`Ybe`g`T`Z`T`a`j`[Xa`VbaaXVgbaZ`g`Xr`aXkgg`X`r

Connected!

Connecting may take a couple of seconds. If the On/Off button turns blue that's great – you're connected! Now is a great time to take a look at the [VPN Tracker Manual](#). It shows you how to use your VPN and how to get the most out of it.

Troubleshooting

In case there's a problem connecting, a yellow warning triangle will show up. Click the yellow warning triangle to be taken to the log.



The log will explain exactly what the problem is. Follow the steps listed in the log.

TIP: Press Cmd-L to open the log in a new window. That way, you can have the log side-by-side with your VPN configuration while making changes to troubleshoot a problem.

VPN Tracker Manual

The [VPN Tracker Manual](http://www.vpntracker.com/support) contains detailed troubleshooting advice. Answers to frequently asked questions (FAQs) can be found at: <http://www.vpntracker.com/support>

Technical Support

If you're stuck, the technical support team at equinix is here to help. Contact us via <http://www.vpntracker.com/support>

Please include the following information with any request for support:

```
5'WXfVecgba'bYg'X'cebU_X`'TaWTal`gebhU_Xf[bbgaZ'fgXcf'g]Tglbh'[TiX'T_eXTW`gT^Xa"r
5'I CA`GeTV^XeGXV[ aVT_FhccbegEXcbegf?bZ'2'GXV[ aVT_FhccbegEXcbeg"r
8Xi\X" bWX_TaWg'X'Ye`j TeX'iXef'ba'ehaa'aZ'ba`gr
FVeXXaf[bg'bYg'X'I CA`fXggaZf'ba'l bhe'l CA`ZTg'j TI"r
```

IMPORTANT: A Technical Support Report contains the settings and logs necessary for resolving technical problems. Confidential information (e.g. passwords, private keys for certificates) is not included in a Technical Support Report.

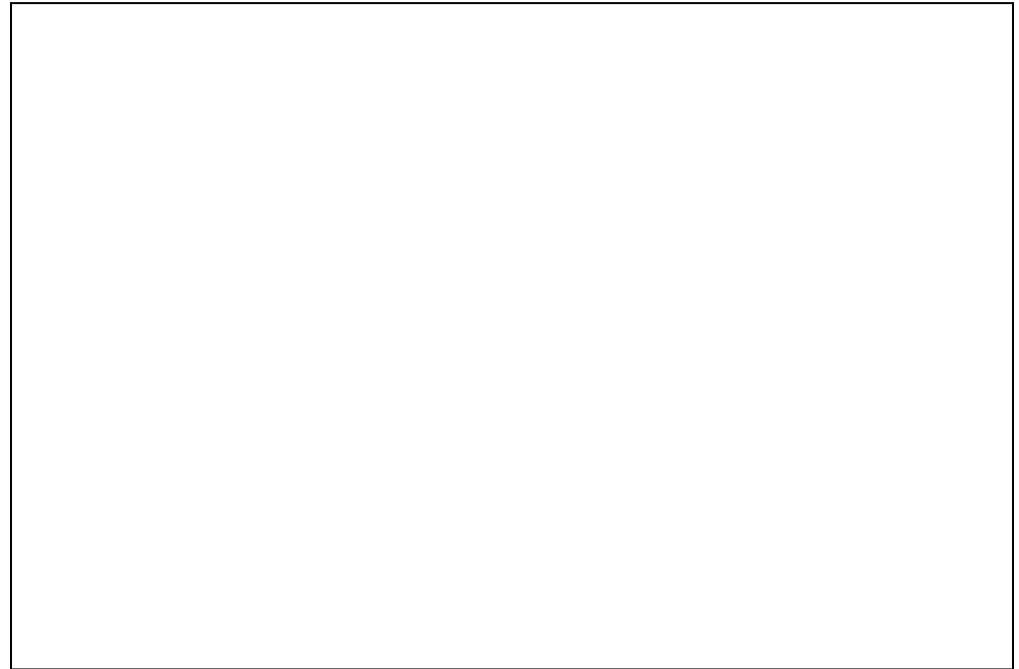
Manual Configuration

This is only recommended for experienced users who don't have Simple Client Provisioning set up on their device.

Step One: WAN IP and LAN Network

7baaXVgdp`l bhe`FbaWJ 5?? f`j XU`agXeYTVXr
; b`gdp`A Xg be^`2` agXeYTVXF" r
J`e`gX`Wbj`a`g`X`C`TW`eXff`b`Yg`X`XkgXeaT`fJ 5A`E`agXeYTVX`Tf`**(1)**TaWg`Xr
?5A`A`Xg be^`Tf`**(2)**ba`l bhe`7baYZheTgba`7[XV^`f`g`r

Tip: Yl bhe`FbaWJ 5??`f`eXTV[TU_X`g`ebhZ[`T`chU`V`[bfgaT` X`fBl a8A`F`ber
YkXW[bfgaT` XlZj`e`g`g`f`Wbj`a`Tf`**(1)**"



Step Two: Enable VPN on your SonicWALL

Click on **Connectivity > VPN > Base Settings**.

Click on **VPN Global Settings** and check **Enable VPN**.

Click on **Unique Firewall Identifier** and click on the **(3)** icon to edit it.

Tip: The Unique Firewall Identifier is a 12-character hexadecimal string. It must be unique across all SonicWALL devices in the network.

Step Three: Set up GroupVPN

Click on **VPN Policies** and click on **WAN Group VPN**.

Click on **Configure** to set up the policy.

VPN Global Settings

Enable VPN

Unique Firewall Identifier: **3**

View IP Version: IPv4 IPv6

VPN Policies

Refresh Interval (secs) Items per page Items to 3 (of 3)

#	Name	Gateway	Destinations	Crypto Suite	Enable	Configure
<input type="checkbox"/> 1	WAN GroupVPN			ESP: 3DES/HMAC SHA1 (IKE)	<input checked="" type="checkbox"/>	  
<input type="checkbox"/> 2	WLAN GroupVPN			ESP: 3DES/HMAC SHA1 (IKE)	<input type="checkbox"/>	  
<input type="checkbox"/> 3	SGMS-C0EAE4CEBB7C	4.16.47.170	 10.100.140.52 - 10.100.140.52	ESP: AES-128/HMAC SHA256 (IKEv2)	<input checked="" type="checkbox"/>	 

ADD

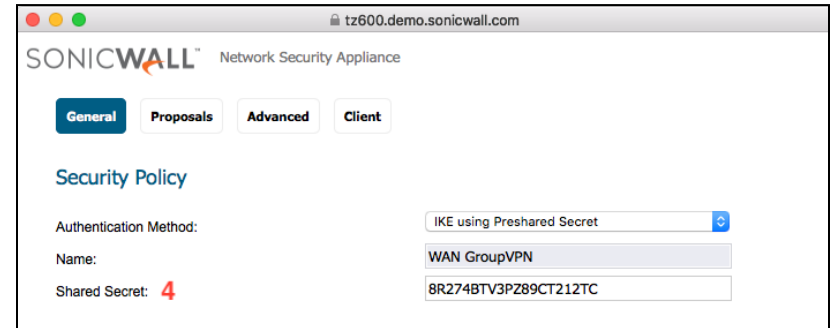
DELETE

DELETE ALL

Site To Site Policies: 1 Policies Defined, 1 Policies Enabled, 50 Maximum Policies Allowed
 GroupVPN Policies: 3 Policies Defined, 1 Policies Enabled, 25 Maximum Policies Allowed

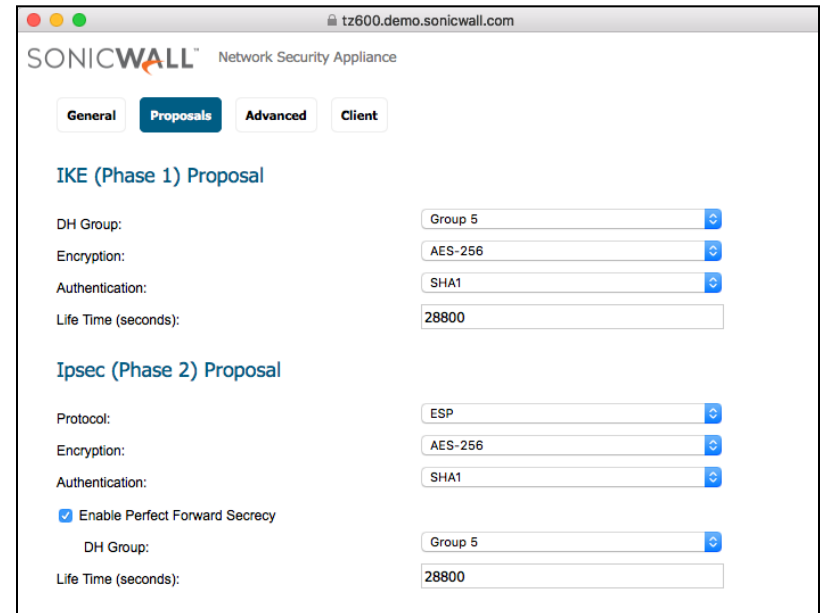
General Settings

Authentication Method: IKE using Preshared Secret
Name: WAN GroupVPN
Shared Secret: 4



Proposals

DH Group: Group 5
Encryption: AES-256
Authentication: SHA1
Life Time (seconds): 28800
Perfect Forward Secrecy: Enabled
DH Group: Group 5
Life Time (seconds): 28800



Advanced

YI bh' [Ti X' ?&GC V_Xagf VbaaXVgaZ' gb' l bhe'Wki V\XzV[XV^'g' X' Ubk' gb' XaTU_X' Accept Multiple Proposals for Clients. B' g' Xej V\XZl bh' VTa' _XTi X' g' V' U_Ia^'r

: be' g' X' Client Authentication f'XVg'baZ'V[XV^'g' X' Ubk' gb' Require authentication of VPN clients by XAUTH. 'G[V' Zh'VW'j V' _Tffh' X' g' TgK5HG< V' U_XaZ' hfXWr

Lbh' VTa' 'abj V[bb'FX' T' hfXe' Zebhc' 'ybe' l bhe' K5HG< 'hfXef' "G[X' WXYTh' g' Zebhc' '[XeX' 'fr Trusted Users" 'G[V' X' Taf' T' _hfXef' 'a' g' V' Zebhc' '[Ti X' TWXff' gb' g' X' I' CA' r

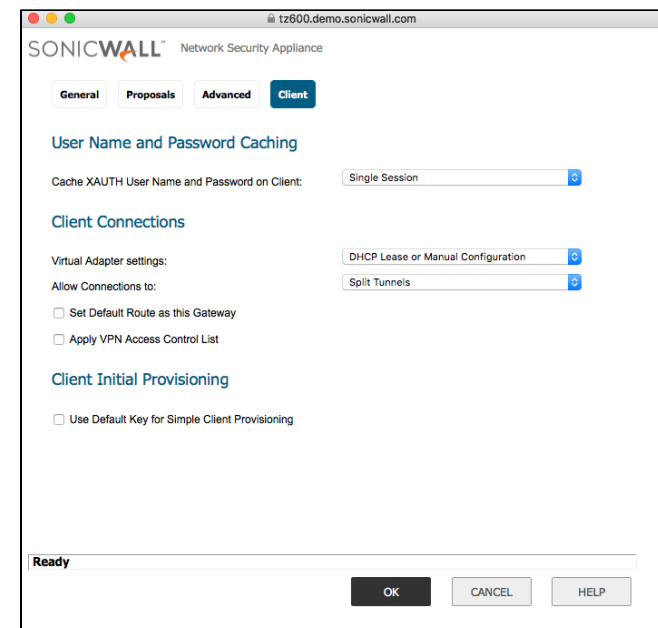
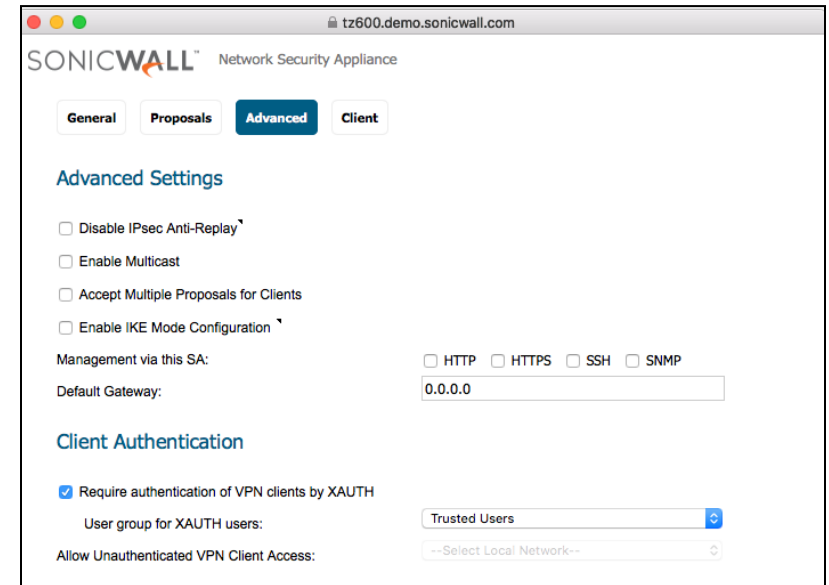
Client

HaW'Xe' User Name and Password Caching f'X_XVg' Single Session 'be' Always 'gb' Ti b'Wf' ceb' c'g' 'ybe' l bhe' K5HG< 'hfXeaT' X' Ta' Wc' Tffj' be' W' Tf' j' X' _Tf' c' bff' U_X' Wf' VbaaXVg' j' [Xar' eX^'XI 'a' Z' g' X' I' CA' VbaaXVg'ba' r

: be' Virtual Adapter settings z' j' X' e'XVb' ` XaW' DHCP Lease or Manual Configuration" r Ba_ 'hfX' A' baX' V' g' XeX' TeX' 'bg' Xe' l CA' 'hfXef' j' [b' TeX' 'abgh' 'a' Z' I' CA' 'GeTV^'Xe' j' [b' e'X_ 'bar' g' V' f'X'gg' a' Z' r

G[X' 'bg' Xe' f'X'gg' a' Z' f' VTa' 'eX' T' a' 'haV[XV^'XW'G[XI' TeX' 'abga' XXW'W' 'ybe' g' X' Vba' YZ' he' T' g' bar' j' 'g' I' CA' 'GeTV^'Xe' r

7_ V^' OK' 'gb' bi X' 'ba' 'gb' g' X' a' X' kg' f' g' c' r



Step Four: Configure DHCP over VPN

Configure DHCP over VPN

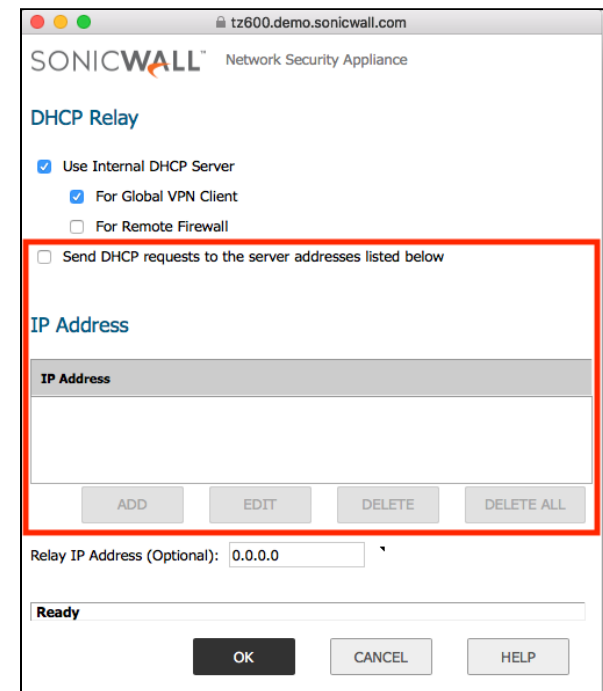
Central Gateway Configure...

Use Internal DHCP Server.

For Global VPN Client.

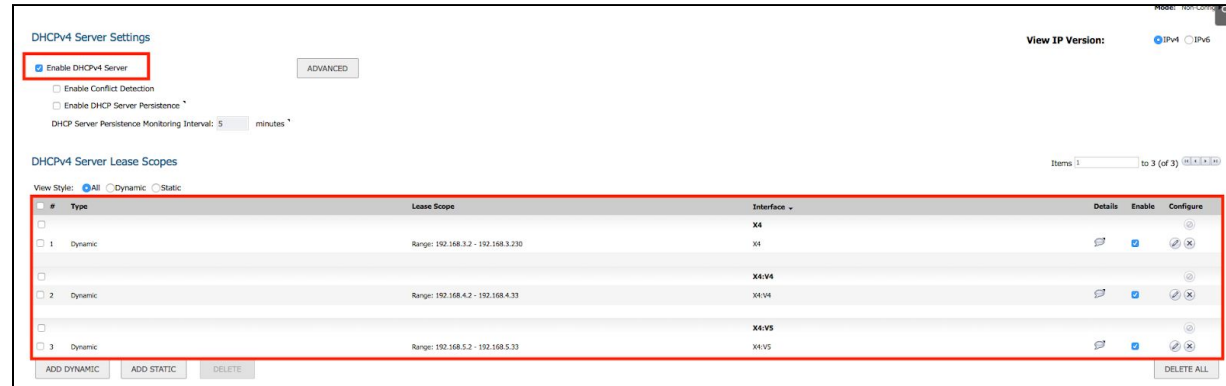
Tip: Send DHCP requests to the server addresses listed below

OK



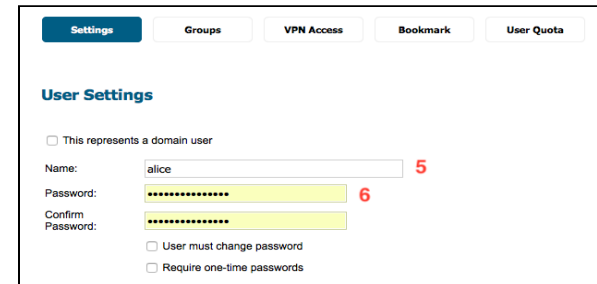
Step Five: Check your DHCP Server Settings

Go to System Setup > Network > DHCP Server
 Enable DHCP Server
 dynamic range of IP addresses



Step Six: Add a VPN User

Go to Users > Local Users & Groups
 Local Users > Add User
 Name: alice (5)
 Password: [masked] (6)
 User must change password
 Require one-time passwords

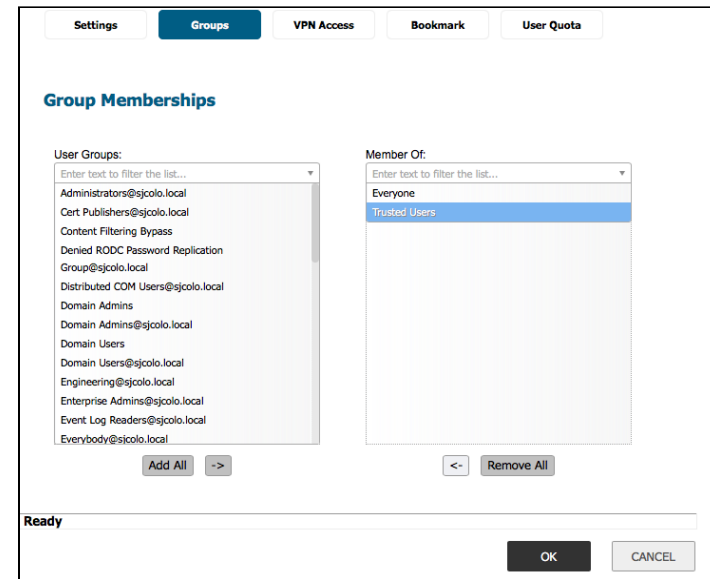


Name: alice (5)
 Password: [masked] (6)
 User must change password
 Require one-time passwords

Go to Groups

Trusted Users

OK



Step Seven: Configuring VPN Access Lists

The VPN Access list determines the networks that users can access through VPN. Access lists can be set up for each user individually or for the entire group. This is what we will be doing.

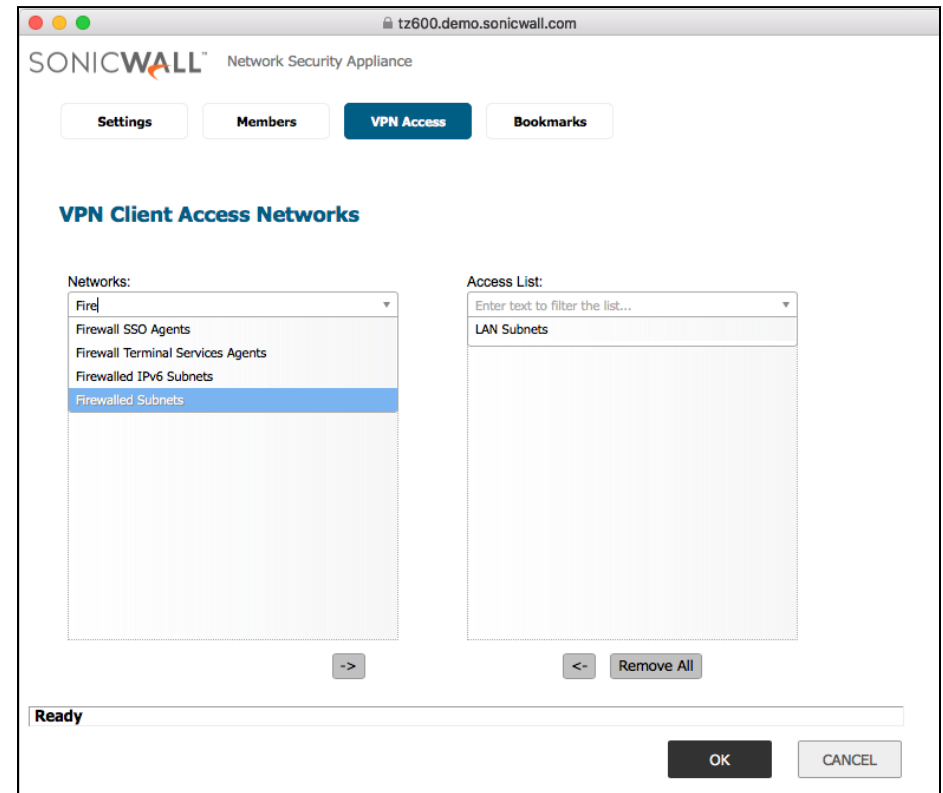
Click on **Users > Local Groups**.

Click on **Configure Trusted Users**.

Click on **VPN Access**.

Click on **Access List** and select **LAN Subnets** from the **Firewall Subnets** list.

Click **Ok**.



Manual Configuration in VPN Tracker 365

Use this configuration if your device does not support Simple Client Provisioning...

; b'ð'g' X' Basic" gTU"r
r

A Xkgð' VPN Gateway žXagXeI bheWXi WXf' C'TWwXff' (1)

: be' Network Configuration žfX_XVg' DHCP over VPN r

: be' Topology žfX_XVg' Host to Network. r

YI bh'fX_XVg'W DHCP over VPN 'I bh'VTa' _XTi X'g' X'Ub'k'aXkgð' Local Address X' cg"r

A Xkgð' Remote Networks 'I bh'VTa'XagXe'g' X'eX' bg'iaXg' be^ff'El bh'j Tag'ð' TWXff'i T'g' X'I CA 'VbaaXVg'ba"G['f'f'g'cVT' _'g' X'FbaWJ 5?? f'?5A r aXg' be^ (2)"r

Tip: 5WXff' ð'g' X'aXg' be^ff'É' hfgUX'cXe' g'XW'a'g' X'K5HG< 'hfXef'I CA r 5WXff'?f'g'r

HaWke' Authentication 'XagXeI bhe'CeXIF[TeXW>XI #F[TeXWF XVeXg(4)"r

G[XažXagXeI bhe'K5HG< 'hfXeaT' X' (5) TaWcTffj' beW(6)"r

6I' Remote Identifier žXagXe'g' X'FbaWJ 5?? f'Ha'dhX: 'exj T' _WXagVXe(3)"r

The screenshot displays the SonicWall VPN configuration page for a Dell SonicWALL TZ Series (SonicOS) device. The page is titled "VPN to DELL SonicWALL TZ Series (SonicOS)" and includes a "Done" button in the top right corner. The configuration is organized into several sections:

- Connection Name:** VPN to DELL SonicWALL TZ Series (SonicOS). Connection based on: DELL SonicWALL TZ Series (SonicOS). A "Configuration Guide" link is provided.
- VPN Gateway:** Host Name or IP Address. A red "1" indicates an error.
- Network Configuration:**
 - Protocol: IKEv1
 - Topology: Host to Network
- Remote Networks:** Network Address. A red "2" indicates an error.
- Authentication:**
 - Pre-shared key: Password not saved. A red "4" indicates an error.
 - User login details (XAUTH): Automatic. Username and password not saved. A red "5 & 6" indicates an error.
- Identifiers:**
 - Local: Fully Qualified Domain Name (FQDN). GroupVPN.
 - Remote: Fully Qualified Domain Name (FQDN). Unique Firewall Identifier. A red "3" indicates an error.
- DNS:** Use Remote DNS Server (checkbox).

Remote DNS Setup (Advanced)

This point is **optional**. VPN Tracker can use DNS servers on the remote network of the VPN to look up host names of resources on the remote network of the VPN.

Requirements

If you or your organization operate a DNS server on your Sophos device's network, VPN Tracker can use it to look up the host names of internal resources (e.g. for turning intranet.ny.example.com into the IP address 192.168.13.94).

Remote DNS is entirely optional for Host to Network connections. You can always use IP addresses instead of host names, that's just less convenient.

DNS Server

To set up remote DNS, you need to know the IP address(es) of the DNS server(s) that you want to use. You can get this from your administrator.

My DNS Server: _____

Domain

VPN Tracker can use the remote DNS server for all DNS lookups (All Domains) or just for some domains (Search Domains). If you want VPN Tracker to use the remote DNS servers only for some domains (e.g. everything ending in "ny.example.com"), write down these domains here:

Search Domains: _____

Setup in VPN Tracker

Remote DNS can be set up in VPN Tracker without making any changes to your device.

7_√^ba`l bhe`l CA`VbaaXVgbar

7_√^` **Configure** `TaWZb`g`g` X` **Basic** `gTUr

7[XV^`g` X`Ubk` **Use Remote DNS Server** r

A bj` `√_`a`l bhe`a`Ye` Tgba`Ye`b` `Tubi X`Ye` **DNS Servers** `TaW` **Search Domains** `g`VbaYZheX`Ye`l bhe`a`Xg` be`^`r