



# VPN Tracker 365

## VPN Configuration Guide

SonicWALL

|`&\$%`Yei ]bi I`5;`UbX`Yei ]bi I`I`G5ž`bW`5`f][`hg`fYgYfj`YX"s

I`bXYf`W`dnf][`h`Uk`žh`]g`a`Ubi`U`a`UmbchVY`W`d]YXž]b`k`c`Y`cf`]b`dUfhžk`]h`ci`h`h`Y`k`f]hYb`W`bgYbhcZYei ]bi I`5;`cf`Yei ]bi I`I`G5ž`bW`M`i`f`f][`hg`h`c`h`h`Y`s  
gcZk`UfY`UfY`[`cj`YfbYX`Vmi`h`Y`UW`W`a`dUbn]b[`gcZk`UfY`]W`bgY`U[`fYYa`Yb`h`s

H`Y`Yei ]bi I`c[`c`]g`U`f`U`X`Y`a`Uf`\_`c`Z`Yei ]bi I`5;`UbX`Yei ]bi I`I`G5ž`bW`ž`fY[`]ghYfYX`]b`h`Y`I`"G"UbX`ch`Y`f`W`i`b`f]Yg"C`h`Y`f`d`f`c`X`i`W`UbX`W`a`d`U`b`m`b`U`a`Y`g`s  
a`Y`b`h`c`b`Y`X`Y`f`Y`]b`a`U`m`V`Y`f`U`X`Y`a`Uf`\_`g`U`b`X`#`c`f`f`Y[`]ghYfYX`f`U`X`Y`a`Uf`\_`g`c`Z`h`Y`]f`f`Y`g`d`Y`W`]j`Y`W`a`d`U`b`]Y`g`s

Yei ]bi I`g`U`U`U`U`j`Y`U`V`g`c`i`h`Y`m`b`c`U`]U`V`]m`Z`c`f`U`b`m`X`]f`Y`W`c`f`]b`X`]f`Y`W`ž`g`d`Y`W`U`c`f`c`h`Y`f`W`b`g`Y`e`i`Y`b`h`U`X`U`a`U`[`Y`g`]b`W`c`b`b`Y`W`]c`b`k`]h`h`Y`i`g`Y`c`Z`h`]g`X`c`W`a`Y`b`h`c`f`s  
U`b`m`W`U`b`[`Y`h`c`h`Y`f`c`i`h`Y`f`]b`[`Y`b`Y`f`U`ž`]b`W`X`]b`[`k`]h`c`i`h`]a`]h`U`h`c`b`ž`U`b`m`c`g`h`d`f`c`Z`]h`ž`V`i`g`]b`Y`g`g`ž`c`f`X`U`h`ž`Y`j`Y`b`]Z`Ye`i`]bi I`U`g`V`Y`Y`b`U`X`j`]g`Y`X`c`Z`h`Y`d`c`g`]V`]m`c`Z`s  
g`i`W`X`U`a`U`[`Y`g`s

9j`Y`f`m`Y`Z`c`f`h`U`g`V`Y`Y`b`a`U`X`Y`h`c`Y`b`g`i`f`Y`h`U`h`h`Y`]b`Z`c`f`a`U`h`c`b`]b`h`]g`a`U`b`i`U`]g`U`W`W`f`U`h`"Ye`i`]bi I`]g`b`c`h`f`Y`g`d`c`b`g`]V`Y`Z`c`f`d`f`]b`h`b`[`c`f`W`Y`f`]W`Y`f`f`c`f`g`s

F`Y`j`]g`Y`X`&`i`b`Y`&\$%`s

5`d`d`Y`ž`h`Y`5`d`d`Y`c`[`c`ž`]6`c`c`\_`ž`A`U`W`ž`A`U`W`C`G`ž`A`U`W`6`c`c`\_`ž`D`c`k`Y`f`6`c`c`\_`U`f`Y`f`U`X`Y`a`U`f`\_`g`c`Z`5`d`d`Y`7`c`a`d`i`h`Y`ž`b`W`ž`f`Y`[`]ghYfYX`]b`h`Y`I`"G"UbX`ch`Y`f`W`i`b`f]Yg"s

[k`k`k`"Ye`i`\]bi I`"W`a`\\_`s`](#)

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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. GcbJVK 5@@K 5B`D`5XXFYgg.'SSSSSSSS"SSSSSSSS"SSSSSSSS"SSSSSSSSs  
cf`<cghB Ua Y`"SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSs
2. GcbJVK 5@@@5B`BYtk cf\_.'SSSSSS"SSSSSS"SSSSSS"SSSSSS"/SSSSSS"SSSSSS"SSSSSS"SSSSSSs

## Firewall Identifier

3. I b]ei Y': ]fYk U``XYbh]Z]Yf.'SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSs

## Authentication

4. DFY!G\UFYX`?Ym'SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSs
5. L5I H<`l gYfbUa Y.'SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSs
6. L5I H<`DUggk cfX.'SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSs

# 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.

: ]bX'nci f'Gcb]WK 5@@g'Di V'j]WfK 5BŁ D'UXXfYgg'cf'\cghbUa Y'(1)"Mti 'k ]'s  
Z]bX'h ]g'i bXYf' **Network** '2' **Interfaces** žcf' ]b'hY'; 'cVUJDB '7' ]Ybhcbs  
K ]bXck g"s  
7cbZ[ i fY'h\Y'DFY!G\UFYX ?Ym(4) žcf'nci f'XYj ]W''H\ ]g' ]g'fYZffYX'hc'Ug'h\Ys  
G\UFYX'GYWYh'cb'h\Y'Gcb]WK 5@@'H\ ]g' ]g' ghUb'YI hfU'gyWw fY'dUggk cfXs  
k \ ]W'nci 'Vt'bz[ i fY'YgdYW]U'mžcf'nci f'Gcb]WK 5@@XYj ]W''Mti 'W]b'gYh'h ]gs  
i d'i bXYf' **VPN** '2' **Group VPN** '2' **General** '2' **Shared Secret**" s

**Tip:** Use Default Key for Simple Client Provisioning ]g'YbUV'YX'cb'h\Ys  
Gcb]WK 5@@z'bc'DFY!G\UFYX ?Ym]g'fYei ]fYX"s

Znci f'Gcb]WK 5@@i gYg'9I hYbXYX'5i h\Ybh]W]h]cb'fL5I H<Łžnci ''bYXX'h\Ys  
i gYfbUa Y'(5)'UbX'h\Y'dUggk cfX'(6)'cZU'i gYf'k \c' ]g'Ui h\cf]nYX'hc'UWw]ggs  
h\Y'JDB"s

## 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

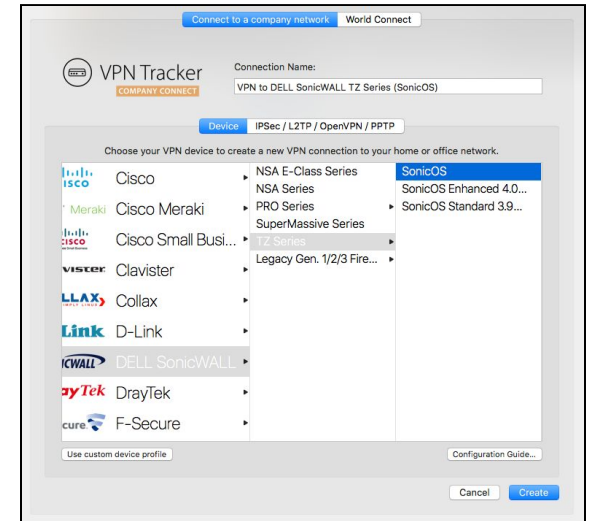
## Simple Configuration using Simple Client Provisioning

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

Click on the **+** icon in the top right corner of the VPN Tracker interface to add a new connection.

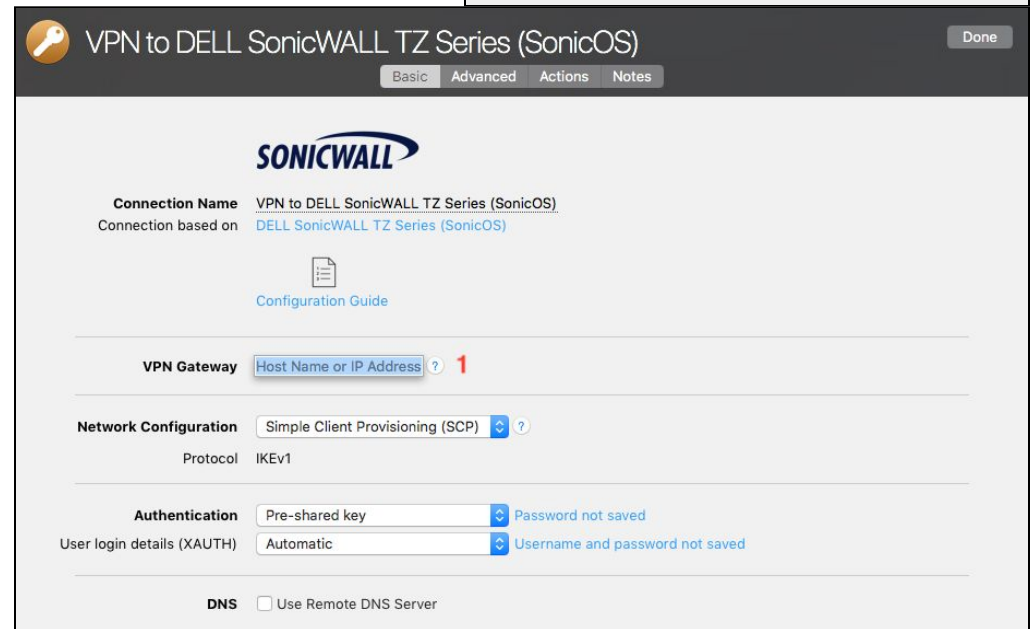
**Create a connection** to a device. Select **DELL SonicWALL** from the list of devices.



### Step Two: Configure the VPN connection

Configure the connection with the following settings:

- VPN Gateway:** Host Name or IP Address (1)
- Network Configuration:** Simple Client Provisioning (SCP)
- Protocol:** IKEv1
- Authentication:** Pre-shared key (Password not saved)
- User login details (XAUTH):** Automatic (Username and password not saved)
- DNS:**  Use Remote DNS Server



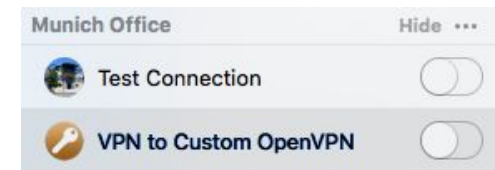
# Task Three - Testing the VPN connection

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\YW\_ZfghcZU`h Uhmci f]bhYfbYhVčbbYW]cb]g:k cf\_]b[ 'Ug]hg\ci 'X'VY"i gY'h\g]'b\_'Ug'U'hYghs  
[\Htd.##k k k "Yei \]bi l "Vča s](#)  
GhUfh'h\Y'J DB 'HfUW\_Yf" \*) 'Udd"s  
7]W\_'cb'h\Y'C b#C ZZg]XYf'hc'hi fb'cb'mci f'VčbbYW]cb"s



### IMPORTANT:

Zmci 'UFY'i g]b[ 'J DB 'HfUW\_Yf'Zcf'h\Y'Zfgh]ja Y'k ]h\mci f'W ffYbh' b'hYfbYhVčbbYW]cbž]hk ]`hYghmci f'VčbbYW]cb"K U]hZcf'h\Y'hYghhc'Vča d'YH"s

8YdYbX]b[ 'cb'mci f'gYhi džMci 'k ]`VY'dfca dhYX'hc'YbhYf'mci f'dfY!g\UfYX'\_Ym'Hc'gUj Y'h]a Y'Zcf'h\Y'Zi hi fYžVX\_YW'h\Y'Vcl' 'GhcFY]b?YmWU]b'hc'gUj Ys  
h\Y'dUggk cFX]b'mci f'\_YmWU]b'gc'mci 'UFY'bc'hUg\_YX'Zcf]hU[ U]b'k \Yb'VčbbYW]b[ 'h\Y'bYI h]ja Y"s

## 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'XYgW]dh]cb'cZh\Y'dfcV'Ya 'UbX'Ubmi'fci V'Yg\cch]b[ 'ghYdg'h\Uhm'ci '\Uj'Y'U'fYUXmiHJ_Yb"s
5'JDB 'HfUW_Yf'HYWX,b]W]'Gi ddcfhFYdcfh'f'c[ '2'HYWX,b]W]'Gi ddcfhFYdcfh'f's
8Yj ]W'a cXY'UbX'h\Y'Z]fa k UfY'j Yfg]cb'fi bb]b[ 'cb']h's
GWfYYbg\c]hg'cZh\Y'JDB 'gYh]b[ g'cb'nci f'JDB '[ UhYk Um's
```

**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.



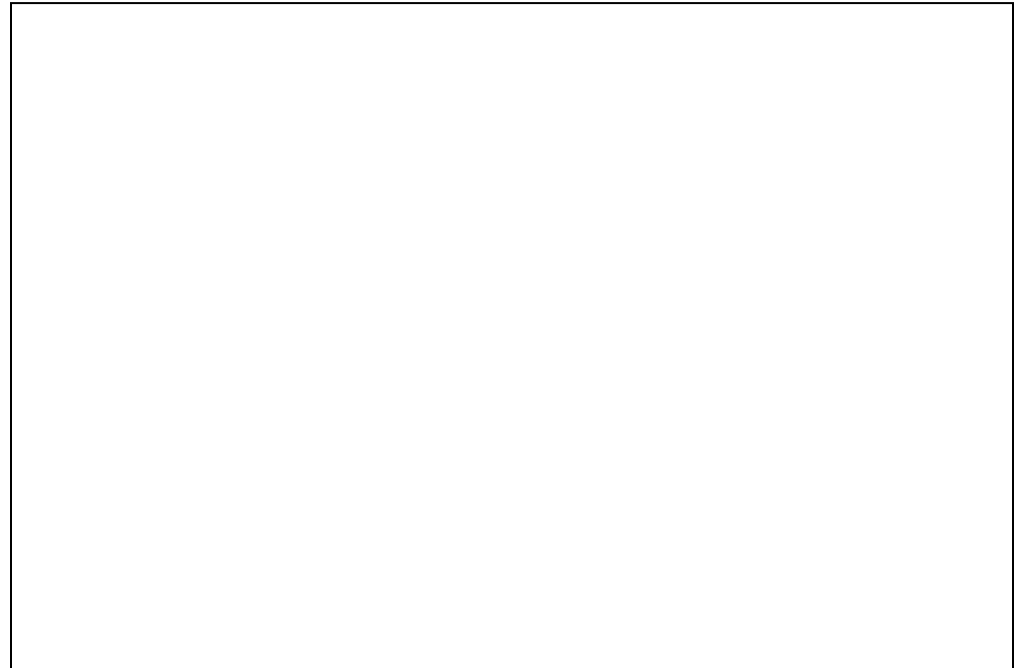
# Manual Configuration

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

7cbbYWhc'mci f'Gcb]VK 5@@g'k YV ]bHYfZUW's  
; c'hc' BYtk cf\_ '2' bHYfZUWg" s  
K f]h'Xck b'h\Y' D'UXXfYgg'cZh\Y'YI hYfbU'fk 5B E]bHYfZUW'Ug'(1)'UbX'h\Ys  
@5B'BYtk cf\_Ug'(2)'cb'mci f'7cbZ[i fUH]cb'7\YW\_]gh"ss

**Tip:** Zmci f'Gcb]VK 5@@]g'fYUWUV'Y'h'fci [ \ 'U'di V`]W\cghbUa Y'fB'ntb8B'G'c'fs  
Z] YX'\cghbUa Y'z'k f]h'h'g'Xck b'Ug'(1)"



## Step Two: Enable VPN on your SonicWALL

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

In **VPN Global Settings**, enable **Enable VPN**.

Click on **Unique Firewall Identifier** (3) to set a unique identifier.

**Tip:** The unique identifier must be a 16-character hexadecimal string.

## Step Three: Set up GroupVPN

In **VPN Policies**, click on **WAN Group VPN**.

Click on **Configure**.

### 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

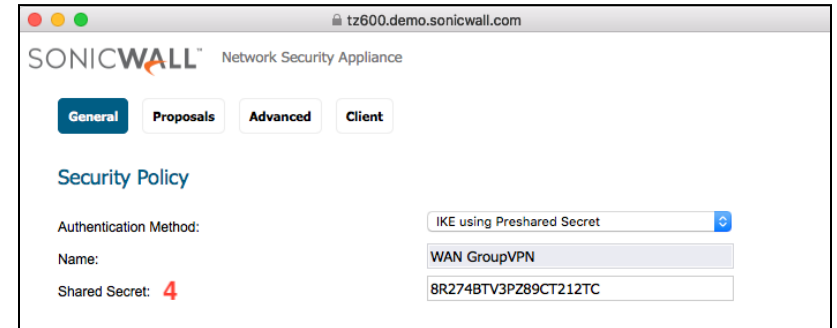
DELETE

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

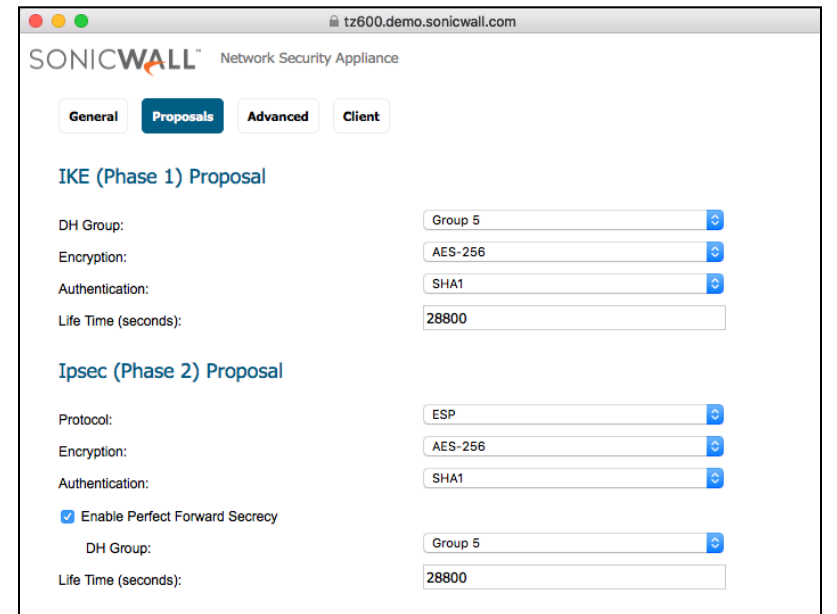
## General Settings

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



## Proposals

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



## Advanced

Zmci "\Uj Y'@&HD'W]Ybhg'Vt'bbYW]b[ 'hc'mci f'XYj ]W'zVX'YW' h'Y'Vcl 'hc'YbUV'Y' **Accept Multiple Proposals for Clients.** 'C'h'Yfk ]gY'zmc'i 'W]b''YUj'Y'h\]g'V'Ub\_'s

: cf'h'Y' **Client Authentication** 'gY'W]cb'zVX'YW' h'Y'Vcl 'hc' **Require authentication of VPN clients by XAUTH.** 'H\]g'[i ]XY'k ]''Uggi a Y'h'Uh'L5l H< ]g'VY]b[ 'i gY'X's

Mci 'W]b'bck 'W'ccg'Y'U'i gY'f[ fci d'zcf'mci f'L5l H< 'i gY'fg''H'Y'XYZ]i 'h[ fci d'\Y'fY' ]gs **Trusted Users** 'H\]g'a Y'Ubg'U''i gY'fg]'b'h\]g[ fci d'\Uj'Y'U'W'W'gg'hc'h'Y'J'DB's

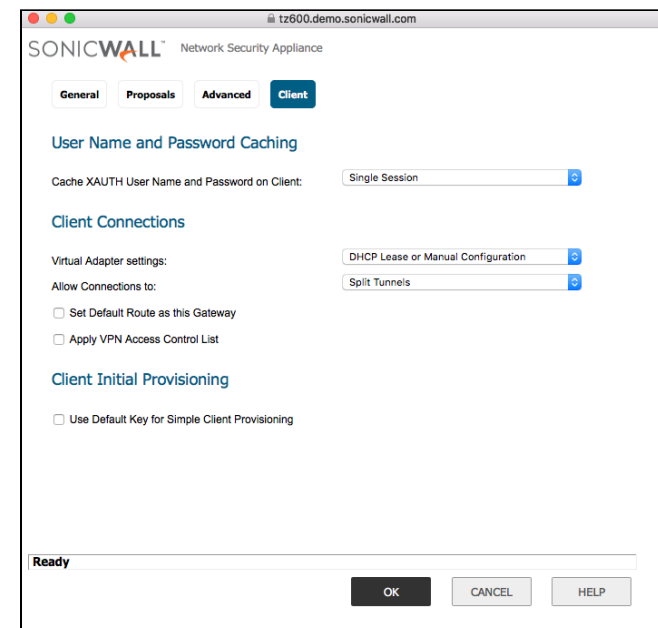
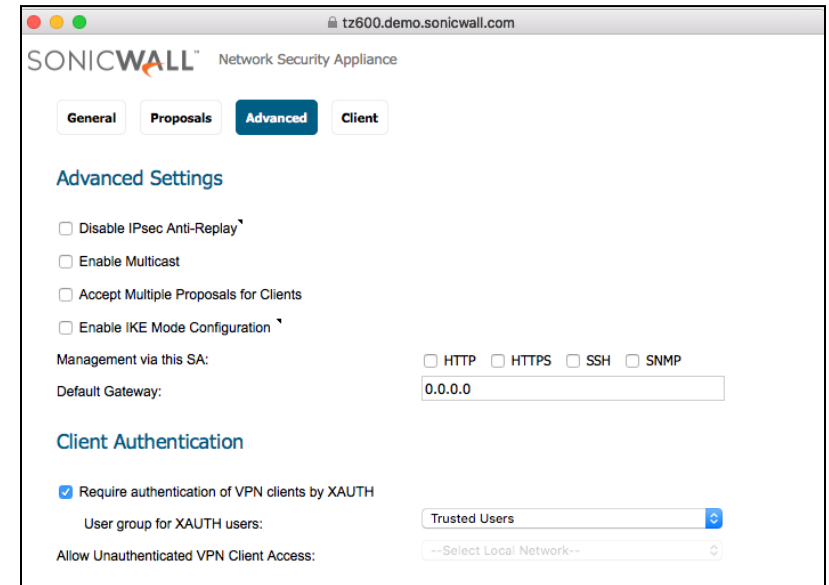
## Client

I bXY'f' **User Name and Password Caching** 'gY'Y'W'i **Single Session** 'cf' **Always** 'hc'Uj'c]Xs d'fca dhg'zcf'mci f'L5l H< 'i gY'fb'Ua Y'Ub'X'd'Uggk c'fX'z'Ug'k Y''Ug'dc'gg]V'Y'X]g'Vt'bbY'W]g'k \Y'bs fY'\_Ym]b[ 'h'Y'J'DB 'Vt'bbY'W]cb's

: cf' **Virtual Adapter settings** 'z'k'Y'fY'W'ta a Y'b'X' **DHCP Lease or Manual Configuration** 's C'b'mi gY' 'B'cb'Y' ]Z'h'Y'fY' 'U'fY' 'c'h'Y'f'J'DB 'i gY'fg'k \c' 'U'fY' 'b'ch'i ]g]b[ 'J'DB 'H'F'U'W'Y'f'k \c' 'fY' 'm'c'bs h\]g'gY'h]b[ 's

H'Y' 'c'h'Y'f'gY'h]b[ g'W]b'f'Ya U]b' 'i b'W'X'Y'W'Y'X''H'Y'm'U'fY' 'b'c'h'b'Y'Y'X'Y'X' 'z'c'f'h'Y' 'W't'b'Z[ 'i f'U'h]c'bs k ]h' 'J'DB 'H'F'U'W'Y'f's

7']W'\_ **OK** 'hc' 'a' c]Y' 'c'b' 'hc' 'h'Y' 'b'Yl' high'Y'd's



## Step Four: Configure DHCP over VPN

Click on VPN > DHCP over VPN

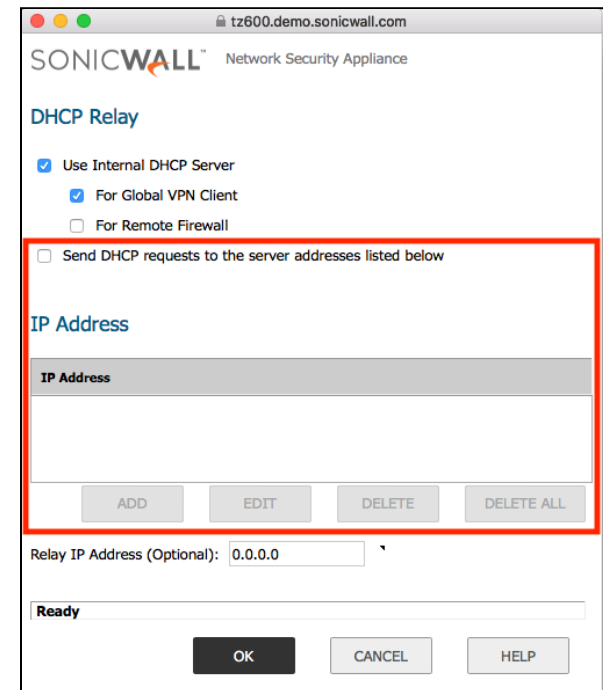
Click on Central Gateway > Configure...

Click on Use Internal DHCP Server.

Click on For Global VPN Client.

**Tip:** Send DHCP requests to the server addresses listed below

Click on OK



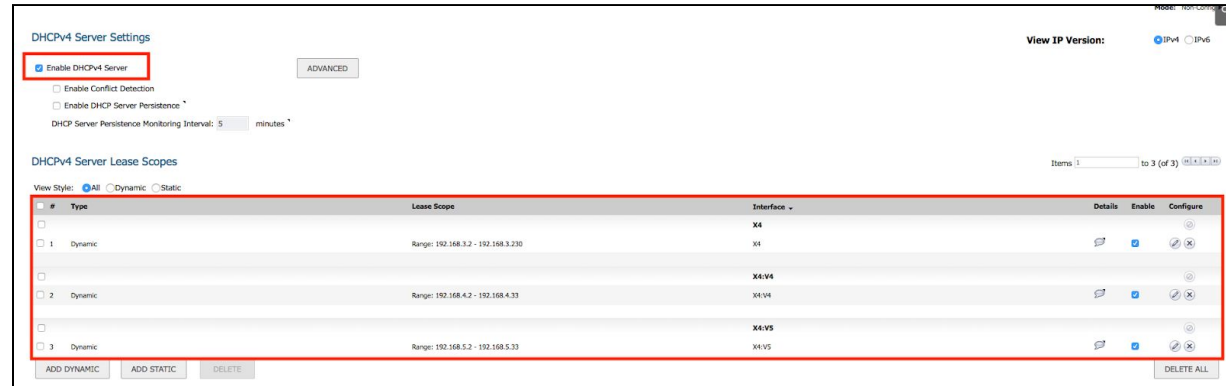
## Step Five: Check your DHCP Server Settings

Go to System Setup > Network > DHCP Server

Make sure the **Enable DHCP Server** checkbox is checked

Configure the **dynamic range of IP addresses**

for each interface (e.g., 192.168.3.2 - 192.168.3.230)



## Step Six: Add a VPN User

Go to Users > Local Users & Groups

Click **Local Users** > **Add User**

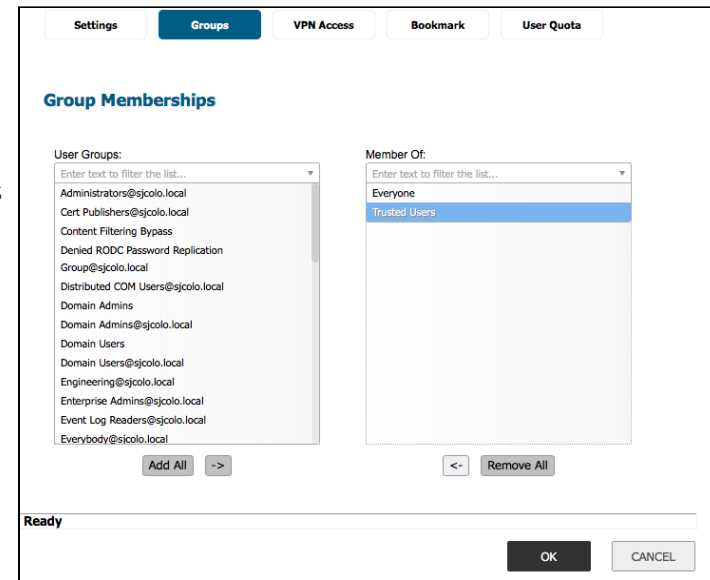
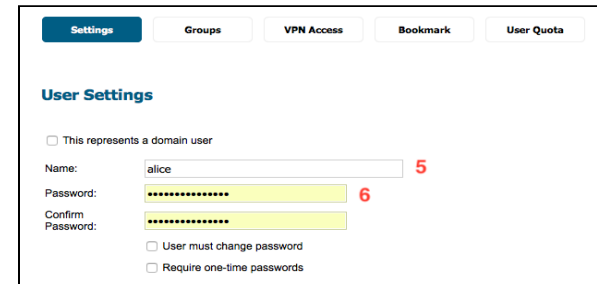
Enter the **Name** (e.g., alice) and **5** for the number of users.

Click **Uggk** (6) to add the user to the group.

Click **Groups** to select the group.

Select **Trusted Users** from the list of user groups.

Click **Ok** to save the user.



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## 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.

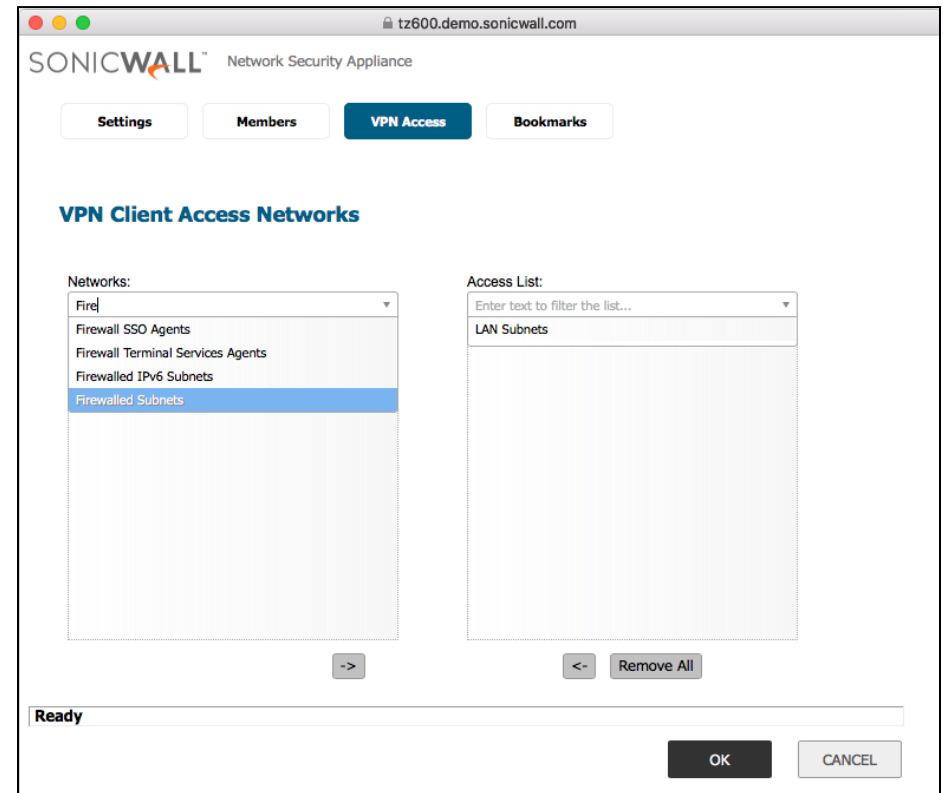
Click on **Users > Local Groups**

Click on **Configure** for **Trusted Users**

Click on **VPN Access**

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

Click **Ok**



## Manual Configuration in VPN Tracker 365

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

; c'hc'h\Y' Basic" hUV"s  
S

B\I htc' VPN Gateway žYbhYf'mci f'XYj ]W'g' D'UXXFYgg'(1)

: cf' Network Configuration žgY'YWhi DHCP over VPN s

: cf' Topology žgY'YWhi Host to Network. s

Zmci 'gY'YWhYX' DHCP over VPN 'mci 'WJb''YUj Y'h\Y'Vcl 'b\I htc' Local Address 'Ya dhms

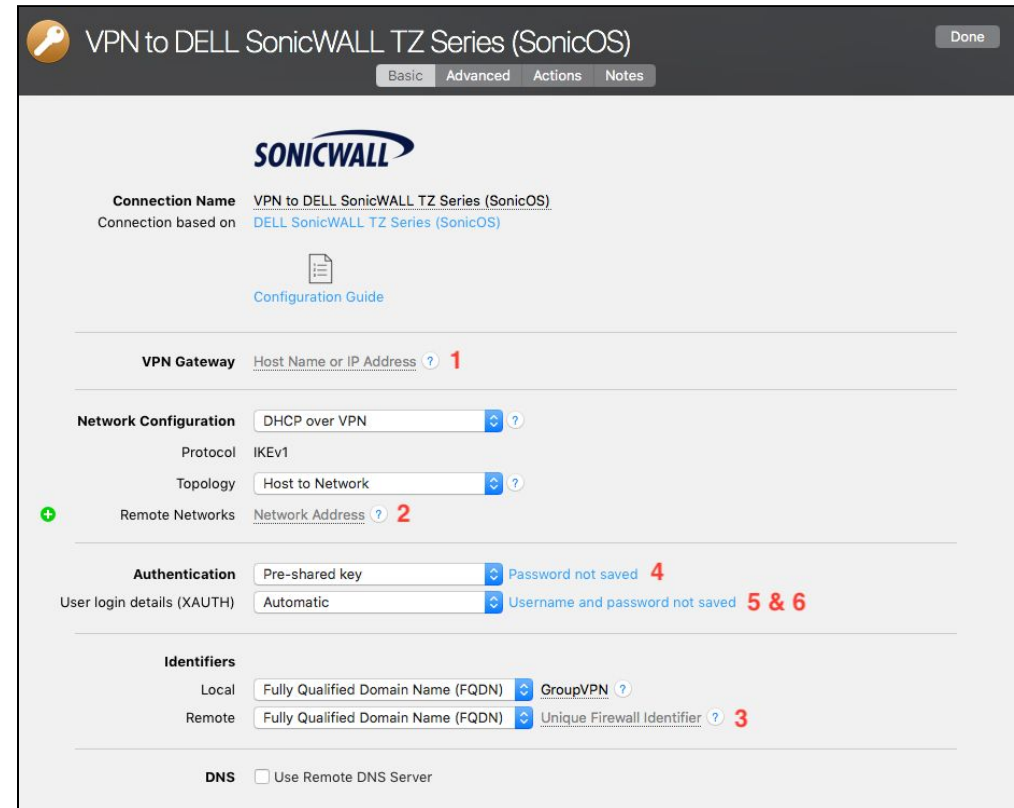
B\I htc' Remote Networks 'mci 'WJb'YbhYf'h\Y'fYa chY'bYrk cf\_fgl'mci 'k Ubhs hc 'UWY'gg'j ]U'h\Y'J DB 'Vc'bbYWhj'cb''H\j'g'hmd]W''mh\Y'Gcb]WK 5@g'@5B s bYrk cf\_(2)"ss

Tip: 5WY'gg'hc'h\Y'bYrk cf\_fgl'Èa i gh'VY'dYfa ]hYX'j'b'h\Y'L5I H<'i gYf'g'J DB s 5WY'gg'@gh's

I bXYf' Authentication 'YbhYf'mci f'DfY!G\UFYX ?Ym#G\UFYX 'GYWYh(4)"s

H\YbžYbhYf'mci f'L5I H<'i gYfbUa Y'(5) 'UbX'dUggk cfX'(6)"s

6m Remote Identifier žYbhYf'h\Y'Gcb]WK 5@g'i b]ei Y: ]fYk U'' XYbh]žYf'(3)"s





## 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]W'cb'mei f'JDB'W'bbYW'cbs

7]W' **Configure** 'UbX'[c'hc'h'Y' **Basic** 'hUVs

7\YW'h'Y'Vcl' **Use Remote DNS Server** s

Bck'Z''b'mei f'bZ'fa Uh'cb'Z'ca 'UVcj'Y'Z'f' **DNS Servers** 'UbX' **Search Domains** 'hc'W'cbZ'[i f'Y'Z'f'mei f'bYtk cf\_'s