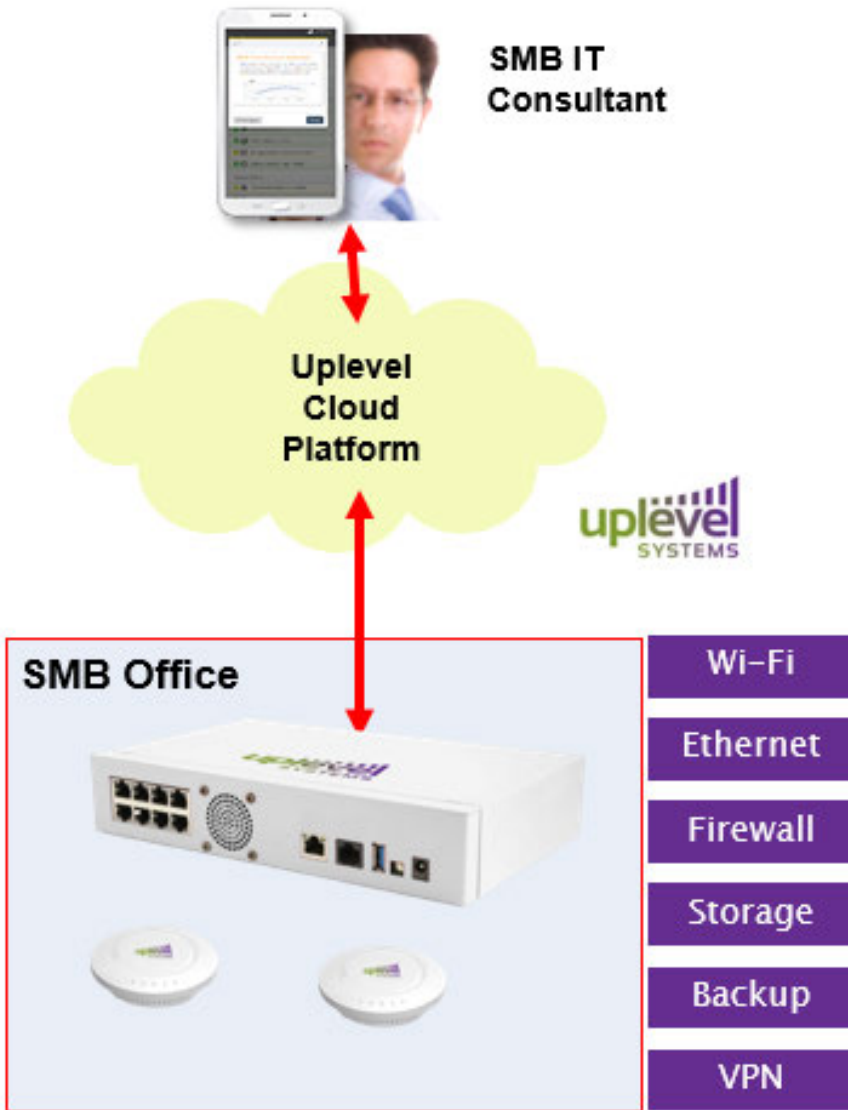


Remote Access VPN

Introduction





“SMB IT-in-a-Box”

Made for Managed Service Providers

- Cloud managed from any web-enabled device
- See entire customer base /status from one screen
- 100% subscription - no hardware, maintenance or support fees

Built for Small Business Customers

- Includes key infrastructure technologies
 - Firewall, Wi-Fi, storage and backup, site-to-site VPN

Now supports: Remote Access VPN!



Remote access for end customers

- Business owner working from home
- Mobile workforce (sales, etc.)
- As low as \$17 per month, supporting up to 50 concurrent connections

Remote access for MSP

- Secure access for remote device and network management
 - Replace LogMeIn and/or TeamViewer with RDP or VNC
- For MSP use only – One connection per customer
- Bundled with base system



Benefits



Feature	Benefit
Simple to set up	Configure VPNs in less than 1 minute
Affordable	10x less expensive than Sophos VPN
No static IP addresses	<ul style="list-style-type: none"> • No need to pay ISPs for a static IP • VPN feature can pay for itself
Windows, MacOS, iOS, Android	Support all business client device types
Uses native VPN client	No need to install software on client devices
Test onsite	<ul style="list-style-type: none"> • Easy & fast to validate • Configure laptops & train users while in the office
Integrates with Uplevel groups	Extends customer security over VPN
L2TP and SSTP supported	<ul style="list-style-type: none"> • Simple, certificate-free client deployments (L2TP), or • Anywhere access, even through VPN-blocking firewalls, that often exist in multitenant unit environments (SSTP)

Price Comparison (15 Users)



Company	Upfront Cost	VPN Subscription & Maintenance (Monthly)	Static IP (Monthly)	Total Monthly Price
Uplevel Systems	\$0	\$17	\$0	\$17
SonicWALL	\$300	\$0	\$15	\$23
Sophos	\$1,220	\$69	\$15	\$118

Uplevel VPN:

- No upfront costs
- Lowest monthly costs
- Lowest total cost

Complete Unbox solution costs less than Sophos VPN feature alone!

Monthly prices are calculated by amortizing any fixed costs over 3 years.

Ease of Use Comparison



Company	Number of Network Configuration Steps	Works with Native Client
Uplevel Systems	2	Yes
SonicWALL	18	Yes
Sophos	35	Not really

Unbox is the easiest VPN solution, by far!

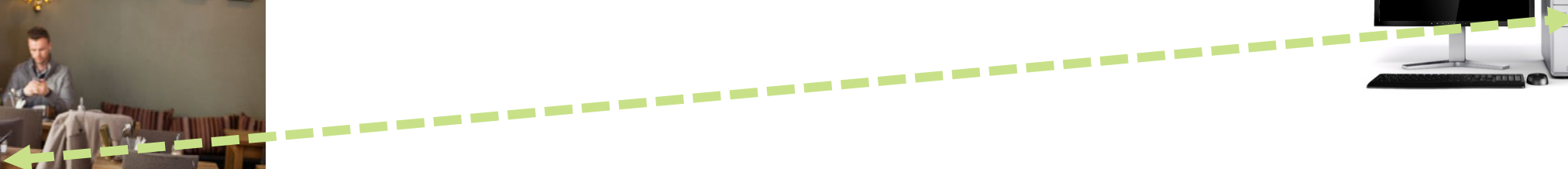
Config Sources: <https://support.sonicwall.com/kb/sw11407>

https://www.sophos.com/en-us/medialibrary/PDFs/documentation/utm90_Remote_Access_Via_SSL_geng.pdf

Coffee Shop



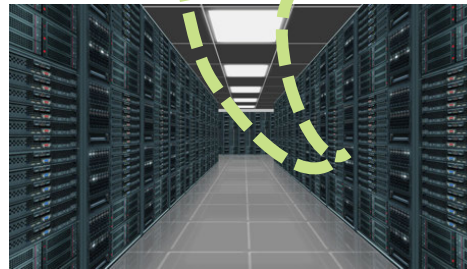
Server at Small Business



Coffee Shop



Server at Small Business



Uplevel Server at AWS



For business users:

- Can access group resources (printers, storage, desktops, servers, etc.) per their group setting

For MSP:

- Connect at **Boss** group – provides full access to all onsite resources

Configuration

← To Dashboard

👁 Overview

📱 Devices

📶 Wi-Fi

🔒 VPN

💾 Storage

📶 Ethernet

🛡 Firewall

📝 Site Settings

Enable Enable VPN

Connection Information

Server: [REDACTED]

Shared Key: [REDACTED]

Users

sergey-test



Click add

uplevel SYSTEMS Michael Rathon - Sergey Office

- To Dashboard
- Overview
- Devices
- Wi-Fi
- VPN**
- Storage
- Ethernet
- Firewall
- Site Settings

Enable VPN

Connection Information

Server: [REDACTED]
Shared Key: [REDACTED]

Users

sergey-test

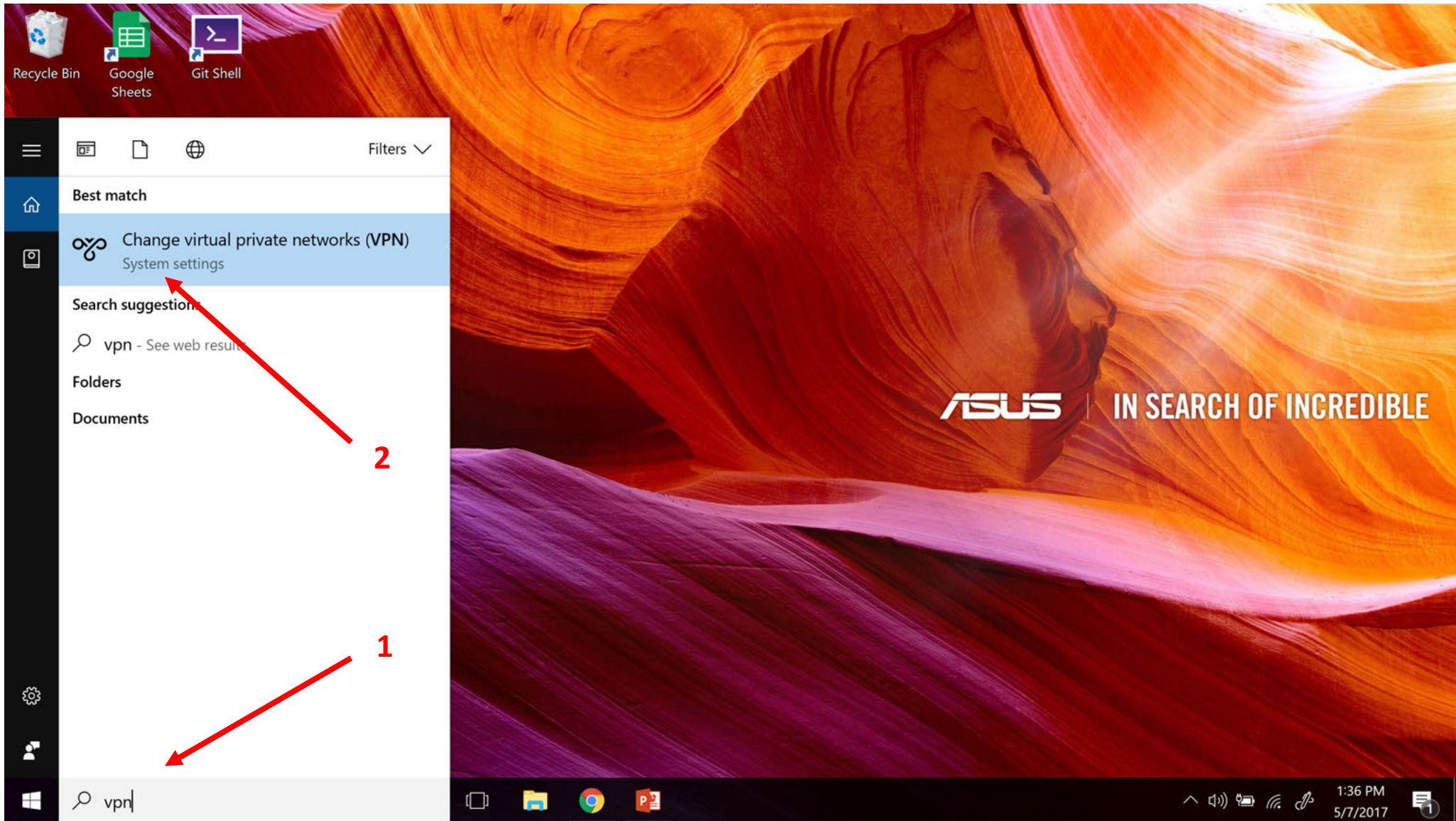
Enable this user

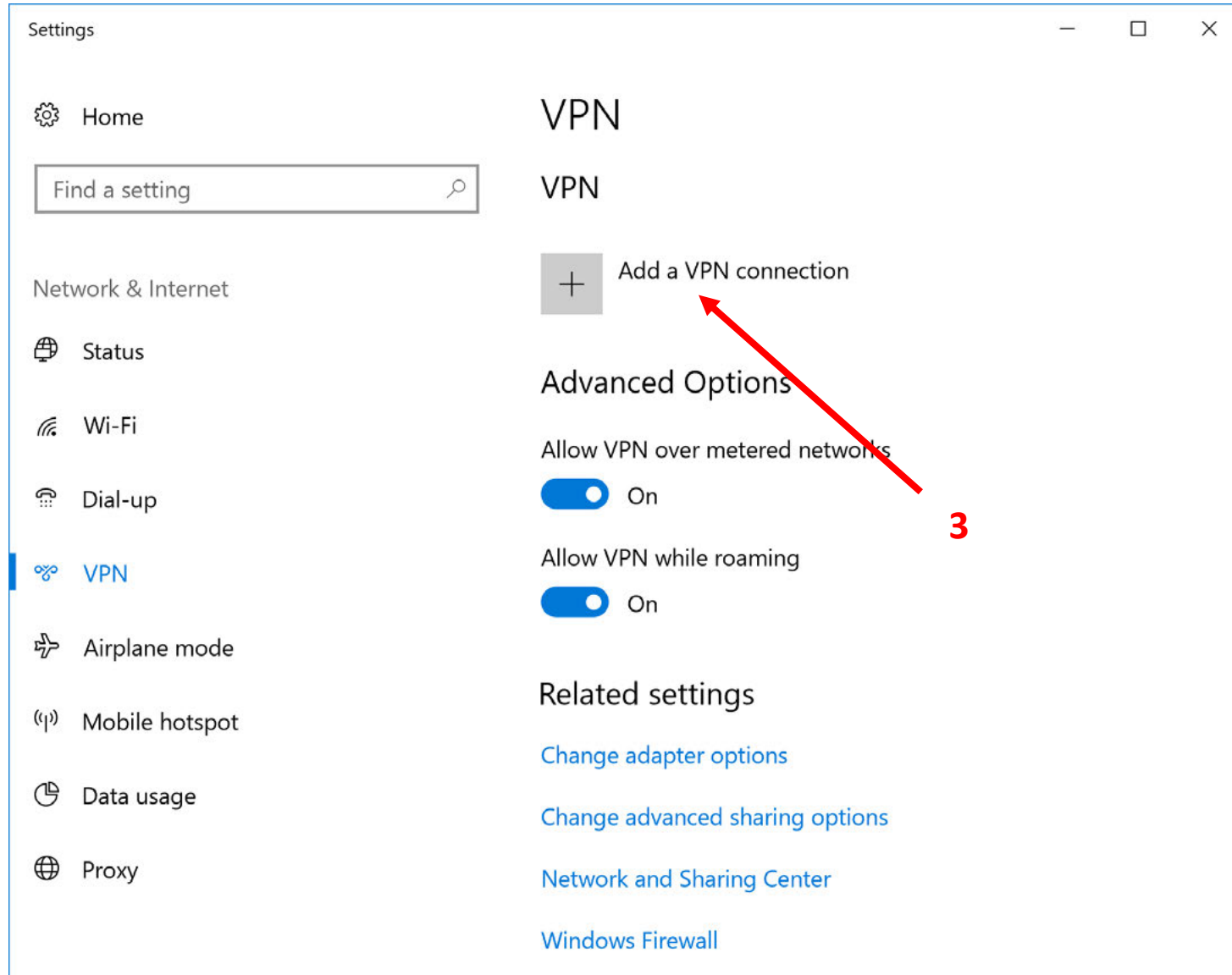
User Name **Password** **Member of**

Boss_Remote_Access e4dw2j2o [eye icon] [refresh icon] Boss

Cancel Save

Specify Username, password, and group





Michael Rathon - Sergey Office

Enable VPN

Connection Information

Server: [REDACTED]

Shared Key: [REDACTED]

Users

sergey-test

Enable this user

User Name: Boss_Remote_Access Password: e4dw2j2o Member of: Boss

Cancel Save

Settings

Add a VPN connection

VPN provider: Windows (built-in)

Connection name: Remote Boss

Server name or address: [REDACTED]

VPN type: L2TP/IPsec with pre-shared key

Pre-shared key: [REDACTED]

7 Scroll Down

5

Save Cancel

Michael Rathon - Sergey Office

Enable VPN

Connection Information

Server: [REDACTED]

Shared Key: [REDACTED]

Users

sergey-test

Enable this user

User Name	Password	Model
Boss_Remote_Access	e4dw2j2o	Boss

8

9

Settings

Add a VPN connection

Pre-shared key

.....

Type of sign-in info

User name and password

User name (optional)

Boss_Remote_Access@Boss

Password (optional)

.....

Remember my sign-in info

Save Cancel

Add @Boss to UserName to identify security Group in SMB Network

The screenshot shows the Windows 10 Settings application with the VPN settings page open. The left sidebar shows the 'VPN' category selected. The main content area displays the 'VPN' settings, including an 'Add a VPN connection' button, a list of installed connections (Remote Boss), and 'Advanced Options' for metered networks and roaming. A red arrow points to the 'Remote Boss' connection with the number '10' next to it.

Settings

Home

Find a setting

Network & Internet

Status

Wi-Fi

Dial-up

VPN

Airplane mode

Mobile hotspot

Data usage

Proxy

VPN

VPN

+ Add a VPN connection

Remote Boss

Advanced Options

Allow VPN over metered networks

On

Allow VPN while roaming

On

Related settings

[Change adapter options](#)

[Change advanced sharing options](#)

The screenshot shows the Windows 10 Settings application with the 'VPN' section selected in the left-hand navigation pane. The main content area displays the 'VPN' settings for a connection named 'Remote Boss'. A red arrow points to the 'Connect' button, which is labeled with the number '11'. Below the connection name, there are three buttons: 'Connect', 'Advanced options', and 'Remove'. The 'Advanced Options' section is visible below, showing two settings: 'Allow VPN over metered networks' and 'Allow VPN while roaming', both of which are currently turned 'On'. The 'Related settings' section at the bottom includes a link for 'Change adapter options'.

Settings

Home

Find a setting

Network & Internet

Status

Wi-Fi

Dial-up

VPN

Airplane mode

Mobile hotspot

Data usage

Proxy

VPN

+ Add a VPN connection

Remote Boss

Connect Advanced options Remove

Advanced Options

Allow VPN over metered networks On

Allow VPN while roaming On

Related settings

[Change adapter options](#)

11

The screenshot shows the Windows 10 Settings application with the VPN section selected. The left sidebar lists various settings categories, with 'VPN' highlighted. The main pane displays the 'VPN' settings, including a search bar, a list of network types, and a list of VPN connections. The 'Remote Boss' connection is shown as 'Connected'. Below this, there are 'Advanced options' and 'Related settings' sections.

Settings

Home

Find a setting

Network & Internet

Status

Wi-Fi

Dial-up

VPN

Airplane mode

Mobile hotspot

Data usage

Proxy

VPN

+ Add a VPN connection

Remote Boss
Connected

Advanced options Disconnect

Advanced Options

Allow VPN over metered networks
 On

Allow VPN while roaming
 On

Related settings

[Change adapter options](#)

SUCCESS!

Competitive Screenshots

The screenshot shows the SonicWALL Network Security Appliance configuration interface. The 'Proposals' tab is selected. Two proposal configurations are visible, both highlighted with red boxes:

- IKE (Phase 1) Proposal:**
 - DH Group: Group 2
 - Encryption: 3DES
 - Authentication: SHA1
 - Life Time (seconds): 28800
- Ipsec (Phase 2) Proposal:**
 - Protocol: ESP
 - Encryption: 3DES
 - Authentication: SHA1
 - Enable Perfect Forward Secrecy
 - Life Time (seconds): 28800

At the bottom, there is a 'Ready' status bar and buttons for 'OK', 'Cancel', and 'Help'.

IKE (Phase 1) Proposal

DH Group : Group 2

Encryption : 3DES

Authentication : SHA1

Life Time (seconds) : 28800

Ipsec (Phase 2) Proposal

Phase 2

Protocol : ESP

Encryption : 3DES

Authentication : SHA1

Life Time (seconds) : 28800

Select **Enable Perfect Forward Secrecy** if you want an additional Diffie-Hellman key exchange as an added layer of security. Select Group 2 from the DH Group menu.

One Sample Sophos Config Step



Cryptographic Settings

Encryption algorithm:

Authentication algorithm:

Key size:

Server certificate:

Key lifetime: seconds

These settings control the cryptographic parameters for all SSL VPN connections.

In the *Cryptographic Settings* section, make the following settings:

This section controls the encryption parameters for all SSL VPN remote access clients.

Encryption algorithm: Supported algorithms are (all in Cipher Block Chaining (CBC) mode): *DES-EDE3 168bit (3DES)*, *AES (Rijndael) 128bit/192bit/256bit*, and *Blowfish (BF)*.

Authentication algorithm: Supported algorithms are *MD5 128bit* and *SHA1 160bit*.

Key size: The key size (key length) is the length of the Diffie-Hellman key exchange. The longer this key is, the more secure the symmetric keys are. The length is specified in bits. You can choose between a key size of 1024 or 2048 bits.

Server certificate: Select a local SSL certificate to be used by the SSL VPN server to identify itself against the clients (in this example: *Local X.509 Cert*—this certificate is automatically preset).

Key lifetime: Enter a time period after which the key will expire. The default is 28,800 seconds.