Configuración del Túnel L2TP entre un Equipo Windows y un Router Cisco

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Introducción

Este documento describe cómo configurar un túnel L2TP (Layer 2 Tunneling Protocol) entre una máquina de Windows y un router Cisco.

Prerequisites

Requirements

Cisco recomienda que tenga conocimiento de que windows machine puede hacer ping a la dirección IP de la interfaz física en el router.

Componentes Utilizados

Este documento no tiene restricciones específicas en cuanto a versiones de software y de hardware.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Configurar

Diagrama de la red

En este documento, se utiliza esta configuración de red:



Configuraciones

Configuración del agregador:

Se muestra un ejemplo de la configuración en el Agregador:

```
interface GigabitEthernet0/0/1
ip address 192.168.1.1 255.255.255.0
negotiation auto
    interface Loopback100
end
ip address 172.16.1.1 255.255.255.255
end
    vpdn enable
vpdn-group 1
 ! Default L2TP VPDN group
accept-dialin
protocol 12tp
virtual-template 1
no 12tp tunnel authentication
                               interface Virtual-Template1
ip unnumbered Loopback100
peer default ip address pool test
ppp authentication chap callout
ppp ipcp dns 4.2.2.1 4.2.2.2
     ip local pool test 10.1.1.2 10.1.1.100
end
```

Configuración y configuración de Windows Machine

Complete estos pasos:

Paso 1. Abra **Network and Sharing Center** y haga clic en **Set up a new connection or network** como se muestra en esta imagen.

Control Panel Home View your basic network information and set up connections Change adapter settings Change adapter settings Change adapter settings ADMIN-PC Network 5 Internet OMIN-PC Network 5 Internet Connect or disconnect Image: Network 5 Access type: Internet Connection 5 Change your networking settings Connection or network: Image: Set up a new connection or network: Set up a new connection or network: Set up a new connection or network: Set up a new connection or network: Set up a new connection or network: Set up a new connection or network: Set up a new connection or network: Set up a new connection or network: Set up a new connection or network: Set up a new connection or network: Set up a new connect to a network Connect or reconnect to a network Connect or reconnect to a network Connect or reconnect to a network Connect or reconnect to a network Connect or network computers, or change sharing settings. Choose homegroup and sharing options Access files and printers located on other network computers, or change sharing settings. Toubleshoot problems Diagnose and repair network problems, or					
Control Panel Home View your basic network information and set up connections See full map Change adapter settings Internet Internet See full map Change advanced sharing settings Network 5 Internet See full map ADMIN-PC (This computer) Network 5 Internet Connect or disconnect View your active networks Connect or disconnect Internet Connect or disconnect View your networking settings Network 5 Access type: Internet Connection 5 Change your networking settings Set up a new connection or networks Set up a new connection or networks Set up a wireless, broadband, dial, p, ad hoc, or VPN connection; or set up a router or access point. See also Connect or nectooned to a wireless, wired, dial-up, or VPN network connection. Internet Connect or hetwork computers, or change sharing settings. See also Choose homegroup and sharing options Access files and printers located on other network computers, or change sharing settings. See also Toubleshoot problems Diagnose and repair network problems, or get troubleshooting information. Windows Firewall Nindows Firewall Network problems, or get troubleshooting information.	💽 🗢 👯 « Network and Inte	ernet Network and Sharing Center	- - i i j	Search Control Panel	٩
Change adapter settings Change advanced sharing settings Set full map ADMIN-PC (This computer) View your active networks Image advanced sharing settings Image advanced sharing set	Control Panel Home	View your basic network information	n and set	up connections	0
Windows Firewall	Change adapter settings Change advanced sharing settings	View your basic network information ADMIN-PC (This computer) View your active networks Network 5 Work network Change your networking settings Set up a new connection or network Set up a wireless, broadband, dia p, point. Set up a wireless, broadband, dia p, point. Connect to a network Connect to a network Connect or reconnect to a wireless, w Choose homegroup and sharing option Access files and printers located on of Troubleshoot problems Diagnose and repair network problem	n and set	UP CONNECTIONS Internet Con Cess type: Internet nnections: Local Area VPN connection; or set up b, or VPN network connect k computers, or change sh publeshooting information.	See full map anect or disconnect Connection 5 a router or access ion. aring settings.
	Windows Firewall				

Paso 2. Seleccione Connect to a Workplace y haga clic en Next

₽	
🌀 🐏 Set Up a Connection or Network	
Choose a connection option	
Connect to the Internet Set up a wireless, broadband, or dial-up connection to the Internet.	
Set up a new network Configure a new router or access point.	
Connect to a workplace Set up a dial-up or VPN connection to your workplace.	
Set up a dial-up connection Connect to the Internet using a dial-up connection.	
Nex	t Cancel

Paso 3. Seleccione Usar mi conexión a Internet (VPN)



Paso 4. Introduzca la dirección IP del agregador (en este caso, 192.168.1.1), asigne un nombre a la conexión (en este caso dando el nombre como VPDN) y haga clic en **Siguiente**.

		- • ×							
🕝 🔚 Connect to a Workplace									
Type the Internet add	ress to connect to								
Your network administrator	can give you this address.								
Internet address:	192.168.1.1								
Destination name:	VPDN								
Use a <u>s</u> mart card									
Allow other people to use this connection									
This option allows ar	yone with access to this computer to use this connection.								
Don't connect now;	just set it up so I can connect later								
	<u>N</u> e	t Cancel							

Paso 5. Introduzca el nombre de usuario y la contraseña y haga clic en Connect

📀 🗽 Connect to a Workplace	2	
Type your user name	and password	
<u>U</u> ser name:	cisco]
<u>P</u> assword:	•••••]
	Show characters Remember this password	
<u>D</u> omain (optional):		
		Connect Cancel

Paso 6. Verifique el nombre de usuario y la contraseña



Paso 7. Podría fallar por primera vez, como se muestra en esta imagen.

🚱 🌆 Connect to a Workplace	_ • X
Connection failed with error 800	
I	
The remote connection was not made because the attempted VPN tunnels failed. The VPN server might be unreachable. If this connection is attempting to use an L2TP/IPsec tunnel, the security parameters required for IPsec negotiation might not be configured properly.	* *
→ Iry again	
Set up the connection anyway	
Diagnose the problem	
	Cancel

Paso 8. Haga clic en **Configurar la conexión de todos modos** y abra la **ficha Redes**.



Paso 9. Haga clic con el botón derecho del ratón en la conexión (aquí VPDN) y haga clic en **Propiedades**. Verifique la dirección IP del Agregador (aquí 192.168.1.1)

VPDN Properties								
General Options Security Networking Sharing								
Host name or IP address of destination (such as microsoft.com or 157.54.0.1 or 3ffe:1234::1111):								
192.168.1.1								
- First connect								
Windows can first connect to a public network, such as the Internet, before trying to establish this virtual connection.								
Dial another connection first:								
See our online <u>privacy statement</u> for data collection and use information.								
OK Cancel								

Paso 10. Navegue hasta **Opciones > Configuración PPP** y verifique los ajustes, como se muestra en esta imagen.

VPDN Properties							
General Options Security Networking Sharing							
Dialing options Display progress while connecting Prompt for name and password, certificate, etc. Include Windows logon domain							
PPP Settings							
Enable LCP extensions Enable software compression Negotiate multi-link for single-link connections OK							
PPP Settings							
OK Cancel							

Paso 11. Navegue hasta Security >Type of VPN >Layer 2 Tunneling Protocol with IPsec, como se muestra en esta imagen.

VPDN Properties								
General Options Security Networking Sharing								
Type of VPN:								
Automatic								
Automatic Point to Point Tunneling Protocol (PPTP) Laver 2 Tunneling Protocol with IPsec (L2TP/IPSec) Secure Socket Tunneling Protocol (SSTP)								
Authentication								
© Use Extensible Authentication Protocol (EAP)								
Allow these protocols EAP-MSCHAPv2 will be used for IKEv2 VPN type. Select any of these protocols for other VPN types.								
Unencrypted password (PAP)								
Challenge Handshake Authentication Protocol (CHAP)								
Microsoft CHAP Version 2 (MS-CHAP v2)								
<u>A</u> utomatically use my Windows logon name and password (and domain, if any)								
OK Cancel								

Paso 12. Seleccione la opción **No encryption allowed** en el menú desplegable Data encryption (Cifrado de datos):

VPDN Properties
General Options Security Networking Sharing
Type of VPN:
Layer 2 Tunneling Protocol with IPsec (L2TP/IPSec)
Advanced settings
Require encryption (disconnect if server declines)
No encryption allowed (server will disconnect if it requires encryption
Optional encryption (connect even if no encryption) Require encryption (disconnect if server declines) Maximum strength encryption (disconnect if server declines)
P <u>r</u> operties
Allow these protocols
Unencrypted password (PAP)
Challenge Handshake Authentication Protocol (CHAP)
Microsoft CHAP Version 2 (MS-CHAP v2)
Automatically use my Windows logon name and password (and domain, if any)
OK Cancel

Paso 13. Desmarque Microsoft CHAP Version 2 y haga clic en Aceptar.

VPDN Properties									
General Options Security Networking Sharing									
Type of VPN:									
Layer 2 Tunneling Protocol with IPsec (L2TP/IPSec)									
Advanced settings									
No encryption allowed (server will disconnect if it requires encry									
Authentication									
Use Extensible Authentication Protocol (EAP)									
· · · · · · · · · · · · · · · · · · ·									
Properties									
Allow these protocols									
Unencrypted password (PAP)									
Challenge Handshake Authentication Protocol (CHAP)									
Microsoft CHAP Version 2 (MS-CHAP v2)									
Automatically use my Windows logon name and									
password (and domain, ir any)									
OK Cancel									

Paso 14. Abra network (aquí VPDN) y haga clic en Connect (Conectar).



Paso 15. Introduzca el nombre de usuario y la contraseña y haga clic en Conectar

See Connect VPDN
User name: cisco
Password:
Do <u>m</u> ain:
Save this user name and password for the following users:
⊘ Me o <u>n</u> ly
Anyone who uses this computer
Connect Cancel Properties <u>H</u> elp

Verificación

Paso 1. Vuelva a abrir la ficha **Networks**, seleccione la red (denominada VPDN en este ejemplo) y verifique que el estado sea Connected (Conectado).



Paso 2. Abra el símbolo del sistema y ejecute el comando ipconfig /all.

PPP a	adapte	r VPD	N:											
C	onnect	ion-s	pec:	ifi	ic	D١	IS	Sı	lff	i>	¢	-	=	
D	escrip	tion		-	-	-	-	-	-	-	-	-		VPDN
P	hysica	l Add	res	s .	-	-	-	-	-	-	-	-		
D	HČP En	abled	L	-	-	-	-	-	-	-	-	-	=	No
- Au	utocon	figur	atio	DN	Еп	ıal)]e	ed	-	-	-	-		Yes
I	Pv4 Ad	drēss		-	-	-	-	-	-	-	-	-	-	10.1.1.9(Preferred)
S	ubnet	Mask		-	-	-	-	-	-	-	-	-	-	255.255.255.255
D	efault	Gate	way	-	-	-	-	-	-	-	-	-		0.0.0
D	NS Ser	vers		-	-	-	-	-	-	-	-	-		4.2.2.1
														4.2.2.2
N	etBIOS	over	Tc	piŗ).	-	-	-	-	-	-	-	:	Enabled

La dirección IPv4 y el servidor de nombres de dominio (DNS) son asignados por el agregador después de completar la fase PPP Internet Protocol Control Protocol (IPCP).

Paso 3. Ejecute el comando debug ppp negotiation y los otros comandos show en Aggregator:

```
Aggregator#

*Apr 12 06:17:38.148: PPP: Alloc Context [38726D0C]

*Apr 12 06:17:38.148: ppp11 PPP: Phase is ESTABLISHING

*Apr 12 06:17:38.148: ppp11 PPP: Using vpn set call direction

*Apr 12 06:17:38.148: ppp11 PPP: Treating connection as a callin
```

*Apr 12 06:17:38.148: ppp11 PPP: Session handle[A600000B] Session id[11] *Apr 12 06:17:38.148: ppp11 LCP: Event[OPEN] State[Initial to Starting] *Apr 12 06:17:38.148: ppp11 PPP: No remote authentication for call-in *Apr 12 06:17:38.148: ppp11 PPP LCP: Enter passive mode, state[Stopped] *Apr 12 06:17:38.607: ppp11 LCP: I CONFREQ [Stopped] id 0 len 21 *Apr 12 06:17:38.607: ppp11 LCP: MRU 1400 (0x01040578) *Apr 12 06:17:38.607: ppp11 LCP: MagicNumber 0x795C7CD1 (0x0506795C7CD1) *Apr 12 06:17:38.607: ppp11 LCP: PFC (0x0702) *Apr 12 06:17:38.607: ppp11 LCP: ACFC (0x0802) *Apr 12 06:17:38.607: ppp11 LCP: Callback 6 (0x0D0306) *Apr 12 06:17:38.608: ppp11 LCP: O CONFREQ [Stopped] id 1 len 10 *Apr 12 06:17:38.608: ppp11 LCP: MagicNumber 0xF7C3D2B9 (0x0506F7C3D2B9) *Apr 12 06:17:38.608: ppp11 LCP: O CONFREJ [Stopped] id 0 len 7 *Apr 12 06:17:38.608: ppp11 LCP: Callback 6 (0x0D0306) *Apr 12 06:17:38.608: ppp11 LCP: Event[Receive ConfReq-] State[Stopped to REQsent] *Apr 12 06:17:38.615: ppp11 LCP: I CONFACK [REQsent] id 1 len 10 *Apr 12 06:17:38.615: ppp11 LCP: MagicNumber 0xF7C3D2B9 (0x0506F7C3D2B9) *Apr 12 06:17:38.615: ppp11 LCP: Event[Receive ConfAck] State[REQsent to ACKrcvd] *Apr 12 06:17:38.615: ppp11 LCP: I CONFREQ [ACKrcvd] id 1 len 18 *Apr 12 06:17:38.615: ppp11 LCP: MRU 1400 (0x01040578) *Apr 12 06:17:38.615: ppp11 LCP: MagicNumber 0x795C7CD1 (0x0506795C7CD1) *Apr 12 06:17:38.616: ppp11 LCP: PFC (0x0702) *Apr 12 06:17:38.616: ppp11 LCP: ACFC (0x0802) *Apr 12 06:17:38.616: ppp11 LCP: O CONFNAK [ACKrcvd] id 1 len 8 *Apr 12 06:17:38.616: ppp11 LCP: MRU 1500 (0x010405DC) *Apr 12 06:17:38.616: ppp11 LCP: Event[Receive ConfReq-] State[ACKrcvd to ACKrcvd] *Apr 12 06:17:38.617: ppp11 LCP: I CONFREQ [ACKrcvd] id 2 len 18 *Apr 12 06:17:38.617: ppp11 LCP: MRU 1400 (0x01040578) *Apr 12 06:17:38.617: ppp11 LCP: MagicNumber 0x795C7CD1 (0x0506795C7CD1) *Apr 12 06:17:38.617: ppp11 LCP: PFC (0x0702) *Apr 12 06:17:38.617: ppp11 LCP: ACFC (0x0802) *Apr 12 06:17:38.617: ppp11 LCP: O CONFNAK [ACKrcvd] id 2 len 8 *Apr 12 06:17:38.617: ppp11 LCP: MRU 1500 (0x010405DC) *Apr 12 06:17:38.617: ppp11 LCP: Event[Receive ConfReq-] State[ACKrcvd to ACKrcvd] *Apr 12 06:17:38.618: ppp11 LCP: I CONFREQ [ACKrcvd] id 3 len 18 *Apr 12 06:17:38.618: ppp11 LCP: MRU 1500 (0x010405DC) *Apr 12 06:17:38.618: ppp11 LCP: MagicNumber 0x795C7CD1 (0x0506795C7CD1) *Apr 12 06:17:38.618: ppp11 LCP: PFC (0x0702) *Apr 12 06:17:38.618: ppp11 LCP: ACFC (0x0802) *Apr 12 06:17:38.618: ppp11 LCP: O CONFACK [ACKrcvd] id 3 len 18 *Apr 12 06:17:38.618: ppp11 LCP: MRU 1500 (0x010405DC) *Apr 12 06:17:38.618: ppp11 LCP: MagicNumber 0x795C7CD1 (0x0506795C7CD1) *Apr 12 06:17:38.618: ppp11 LCP: PFC (0x0702) *Apr 12 06:17:38.619: ppp11 LCP: ACFC (0x0802) *Apr 12 06:17:38.619: ppp11 LCP: Event[Receive ConfReq+] State[ACKrcvd to Open] *Apr 12 06:17:38.621: ppp11 LCP: I IDENTIFY [Open] id 4 len 18 magic 0x795C7CD1MSRASV5.20 *Apr 12 06:17:38.621: ppp11 LCP: I IDENTIFY [Open] id 5 len 24 magic 0x795C7CD1MSRAS-0-ADMIN-PC *Apr 12 06:17:38.621: ppp11 LCP: I IDENTIFY [Open] id 6 len 24 magic 0x795C7CD1Z8Of(U3G.cIwR<#! *Apr 12 06:17:38.626: ppp11 PPP: Queue IPV6CP code[1] id[7] *Apr 12 06:17:38.626: ppp11 PPP: Queue IPCP code[1] id[8] *Apr 12 06:17:38.640: ppp11 PPP: Phase is FORWARDING, Attempting Forward *Apr 12 06:17:38.640: ppp11 LCP: State is Open *Apr 12 06:17:38.657: Vi3.1 PPP: Phase is ESTABLISHING, Finish LCP *Apr 12 06:17:38.657: Vi3.1 PPP: Phase is UP *Apr 12 06:17:38.657: Vi3.1 IPCP: Protocol configured, start CP. state[Initial] *Apr 12 06:17:38.657: Vi3.1 IPCP: Event[OPEN] State[Initial to Starting] *Apr 12 06:17:38.657: Vi3.1 IPCP: O CONFREQ [Starting] id 1 len 10 *Apr 12 06:17:38.657: Vi3.1 IPCP: Address 172.16.1.1 (0x0306AC100101) *Apr 12 06:17:38.657: Vi3.1 IPCP: Event[UP] State[Starting to REQsent] *Apr 12 06:17:38.657: Vi3.1 PPP: Process pending ncp packets *Apr 12 06:17:38.657: Vi3.1 IPCP: Redirect packet to Vi3.1 *Apr 12 06:17:38.657: Vi3.1 IPCP: I CONFREQ [REQsent] id 8 len 34 *Apr 12 06:17:38.657: Vi3.1 IPCP: Address 0.0.0.0 (0x03060000000) *Apr 12 06:17:38.657: Vi3.1 IPCP: PrimaryDNS 0.0.0.0 (0x81060000000)

*Apr 12 06:17:38.657: Vi3.1 IPCP: PrimaryWINS 0.0.0.0 (0x82060000000) *Apr 12 06:17:38.657: Vi3.1 IPCP: SecondaryDNS 0.0.0.0 (0x83060000000) *Apr 12 06:17:38.657: Vi3.1 IPCP: SecondaryWINS 0.0.0.0 (0x84060000000) *Apr 12 06:17:38.657: Vi3.1 IPCP AUTHOR: Done. Her address 0.0.0.0, we want 0.0.0.0 *Apr 12 06:17:38.657: Vi3.1 IPCP: Pool returned 10.1.1.9 *Apr 12 06:17:38.657: Vi3.1 IPCP: O CONFREJ [REQsent] id 8 len 16 *Apr 12 06:17:38.658: Vi3.1 IPCP: PrimaryWINS 0.0.0.0 (0x82060000000) *Apr 12 06:17:38.658: Vi3.1 IPCP: SecondaryWINS 0.0.0.0 (0x84060000000) *Apr 12 06:17:38.658: Vi3.1 IPCP: Event[Receive ConfReq-] State[REQsent to REQsent] *Apr 12 06:17:38.658: Vi3.1 IPV6CP: Redirect packet to Vi3.1 *Apr 12 06:17:38.658: Vi3.1 IPV6CP: I CONFREQ [UNKNOWN] id 7 len 14 *Apr 12 06:17:38.658: Vi3.1 IPV6CP: Interface-Id F0AA:D7A4:5750:D93E (0x010AF0AAD7A45750D93E) *Apr 12 06:17:38.658: Vi3.1 LCP: O PROTREJ [Open] id 2 len 20 protocol IPV6CP (0x0107000E010AF0AAD7A45750D93E) *Apr 12 06:17:38.672: Vi3.1 IPCP: I CONFACK [REQsent] id 1 len 10 *Apr 12 06:17:38.672: Vi3.1 IPCP: Address 172.16.1.1 (0x0306AC100101) *Apr 12 06:17:38.672: Vi3.1 IPCP: Event[Receive ConfAck] State[REQsent to ACKrcvd] *Apr 12 06:17:38.672: Vi3.1 IPCP: I CONFREQ [ACKrcvd] id 9 len 22 *Apr 12 06:17:38.672: Vi3.1 IPCP: Address 0.0.0.0 (0x03060000000) *Apr 12 06:17:38.672: Vi3.1 IPCP: PrimaryDNS 0.0.0.0 (0x81060000000) *Apr 12 06:17:38.672: Vi3.1 IPCP: SecondaryDNS 0.0.0.0 (0x83060000000) *Apr 12 06:17:38.672: Vi3.1 IPCP: O CONFNAK [ACKrcvd] id 9 len 22 *Apr 12 06:17:38.672: Vi3.1 IPCP: Address 10.1.1.9 (0x03060A010109) *Apr 12 06:17:38.672: Vi3.1 IPCP: PrimaryDNS 4.2.2.1 (0x810604020201) *Apr 12 06:17:38.672: Vi3.1 IPCP: SecondaryDNS 4.2.2.2 (0x830604020202) *Apr 12 06:17:38.672: Vi3.1 IPCP: Event[Receive ConfReq-] State[ACKrcvd to ACKrcvd] *Apr 12 06:17:38.747: Vi3.1 IPCP: I CONFREQ [ACKrcvd] id 10 len 22 *Apr 12 06:17:38.747: Vi3.1 IPCP: Address 10.1.1.9 (0x03060A010109) *Apr 12 06:17:38.747: Vi3.1 IPCP: PrimaryDNS 4.2.2.1 (0x810604020201) *Apr 12 06:17:38.747: Vi3.1 IPCP: SecondaryDNS 4.2.2.2 (0x830604020202) *Apr 12 06:17:38.747: Vi3.1 IPCP: O CONFACK [ACKrcvd] id 10 len 22 *Apr 12 06:17:38.748: Vi3.1 IPCP: Address 10.1.1.9 (0x03060A010109) *Apr 12 06:17:38.748: Vi3.1 IPCP: PrimaryDNS 4.2.2.1 (0x810604020201) *Apr 12 06:17:38.748: Vi3.1 IPCP: SecondaryDNS 4.2.2.2 (0x830604020202) *Apr 12 06:17:38.748: Vi3.1 IPCP: Event[Receive ConfReq+] State[ACKrcvd to Open] *Apr 12 06:17:38.768: Vi3.1 IPCP: State is Open *Apr 12 06:17:38.769: Vi3.1 Added to neighbor route AVL tree: topoid 0, address 10.1.1.9 *Apr 12 06:17:38.769: Vi3.1 IPCP: Install route to 10.1.1.9

Aggregator#show	caller ip				
Line	User	IP Address	Local Number	Remote Number	<->
Vi3.1	-	10.1.1.9	-	-	in
Aggregator#show ip interface brief exclude un					
Interface	IP-2	Address	OK? Method Status	I	Protocol
GigabitEthernet	0/0/1 192	.168.1.1	YES manual up	up	
Loopback100	172	.16.1.1	YES manual up	ι	ıp

Paso 4. Verifique si la máquina Windows puede alcanzar la red remota detrás de Aggregator (en este caso, la interfaz Loopback 100)

```
C:\Users\admin>ping 172.16.1.1

Pinging 172.16.1.1 with 32 bytes of data:

Reply from 172.16.1.1: bytes=32 time=1ms TTL=255

Reply from 172.16.1.1: bytes=32 time<1ms TTL=255

Reply from 172.16.1.1: bytes=32 time<1ms TTL=255

Reply from 172.16.1.1: bytes=32 time<1ms TTL=255

Ping statistics for 172.16.1.1:

Packets: Sent = 4, Received = 4, Lost = 0 <0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

Troubleshoot

Actualmente, no hay información específica de troubleshooting disponible para esta configuración.

Información Relacionada

- Introducción a VPDN'
- <u>TSoporte técnico y documentación Cisco Systems</u>