## ???????? L2TP/IPsec ??? VPN ??????

## Для Windows 8, 10, 11

1. Откройте Панель управления (Control panel) как показано на скриншоте и кликните на Центр управления сетями и общим доступом (Network and Sharing center)

<b>9</b>	All Control Panel Items	- 🗆 🗙		
	All Control Panel Items 🔸	✓ 🖒 Search Control Panel 🔎		
Adjust your computer's settings		View by: Small icons 🔻		
P Action Center	Add features to Windows 8	🧒 Administrative Tools		
🛃 AutoPlay	💶 Color Management	Credential Manager		
Date and Time	🔣 Default Programs	🚔 Device Manager		
na Devices and Printers	🕎 Display	🕲 Ease of Access Center		
🎇 Family Safety	🗞 File History	🔀 Flash Player (32-bit)		
📔 Folder Options	💦 Fonts	🤣 HomeGroup		
🔒 Indexing Options	😒 Internet Options	📖 Keyboard		
😪 Language	📨 Location Settings	Mouse		
🚆 Network and Sharing Center	📟 Notification Area Icons	Performance Information and Tools		
Personalization	📰 Phone and Modem	🗃 Power Options		
Programs and Features	🌮 Recovery	🔗 Region		
🐻 RemoteApp and Desktop Connections	🛋 Sound	Speech Recognition		
Storage Spaces	🔞 Sync Center	1🛃 System		
🖳 Taskbar	📧 Troubleshooting	🎎 User Accounts		
vm VMware Tools	🐌 Windows 7 File Recovery	Windows Defender		
🔗 Windows Firewall	🐼 Windows Update			

**2**. В открывшемся окне нажмите **Создание и настройка подключения или сети** (Set up a new connection or network).

¥	Network and Sharing Center	- 🗆 🗙			
(e) → ↑ 💆 « All Control Panel Items → Network and Sharing Center ∨ C Search Control Panel P					
Control Panel Home	View your basic network information and set up connections				
Change adapter settings	View your active networks				
Change advanced sharing settings	Network 2 Public network	Access type: No Internet access Connections: I Ethernet			
	Public network         Change your networking settings         Image: Set up a new connection or network         Set up a broadband, dial-up, or VPN connection; or set up a router or access point.         Image: Set up a broadband, dial-up, or VPN connection; or set up a router or access point.         Image: Set up a broadband, dial-up, or VPN connection; or set up a router or access point.         Image: Set up a broadband, dial-up, or VPN connection; or set up a router or access point.         Image: Set up a broadband, dial-up, or VPN connection; or set up a router or access point.         Image: Set up a broadband, dial-up, or VPN connection; or set up a router or access point.         Image: Set up a broadband, dial-up, or VPN connection; or set up a router or access point.         Image: Set up a broadband, dial-up, or VPN connection; or set up a router or access point.         Image: Set up a broadband, dial-up, or VPN connection; or set up a router or access point.         Image: Set up a broadband, dial-up, or VPN connection; or set up a router or access point.         Image: Set up a broadband, dial-up, or VPN connection; or set up a router or access point.         Image: Set up a broadband, dial-up, or VPN connection; or set up a router or access point.         Image: Set up a broadband, dial-up, or VPN connection; or set up a router or access point.         Image: Set up a broadband, dial-up, or VPN connection; or set up a router or access point.         Image: Set up a broadband, dial-up, or VPN connection; or set up a router or acce				
See also					
HomeGroup					
Windows Firewall					

**3**. В этом окне нажмите **Подключение к рабочему месту (Connect to a workplace)**, затем нажмите Далее.

-	□ ×
📀 👰 Set Up a Connection or Network	
Choose a connection option	
Connect to the Internet Set up a broadband or dial-up connection to the Internet.	
Set up a new network Set up a new router or access point.	
Connect to a workplace Set up a dial-up or VPN connection to your workplace.	
Next	Cancel

4. Здесь выберите пункт Использовать мое подключение к Интернету (Use my Internet connection (VPN).

-	<b>X</b>
📀 🌆 Connect to a Workplace	
How do you want to connect?	
<ul> <li>Use my Internet connection (VPN)</li> <li>Connect using a virtual private network (VPN) connection through the Internet.</li> </ul>	
i 🕘 ip	-
Dial directly Connect directly to a phone number without going through the Internet.	
ing ing	
	Cancel

**5**. В пункте Адрес в Интернете введите данные, интерфейса ASA's WAN или FQDN. Имя объекта назначения заполните произвольно, можете оставить предложенное Windows 8 название. Нажмите **Создать**.

			- 🗆 🗙
€	Connect to a Workpl	ace	
	Type the Internet addr	ess to connect to	
	Your network administrator of	an give you this address.	_
	Internet address:	172.16.1.2	
	Destination name:	L2TP VPN	
	Use a smart card		
	Remember my crede	ntials	
	🎯 🗌 Allow other people to	use this connection	
	This option allows an	yone with access to this computer to use this connection.	
		Create	e Cancel

6. Теперь войдите в пункт Панель управления и найдите подпункт Центр управления сетями и общим доступом (Network and Sharing center). Слева, как показано на скриншоте выберите Изменить параметры адаптера.

壁	Network and Sharing Ce	enter – 🗆 🗙
🛞 🏵 🔻 🕇 🚆 « All Contr	ol Panel Items    Network and Sharing Center	✓ C Search Control Panel
Control Panel Home Change adapter settings Change advanced sharing settings	View your basic network informative view your active networks  Network 2 Public network  Change your networking settings  Set up a new connection or network Set up a broadband, dial-up, or View  Troubleshoot problems Diagnose and repair network problems	tion and set up connections          Access type:       No Internet access         Connections:       Image: Ethernet         Drk       PN connection; or set up a router or access point.         Dems, or get troubleshooting information.

**7**. В появившейся панели щелкните правой кнопкой мыши по Вашему VPN-подключению и выберите пункт **Свойства**.

E No	etwo	rk Connections	-		x
( ) → ↑ 👰 « Network and Internet → Network Connections → ↓ ♂ Search Network Con					,o
Organize 🔻 Start this connection Rename this con	nnecti	on Delete this connection »	₩ <b>=</b> ₩ <b>=</b> ▼		0
Ethernet Network 2 vmxnet3 Ethernet Adapter	8 8 8 8 9 8 9 8 9 8 9 8 9 8 9	Connect / Disconnect Status Set as Default Connection Create Copy Create Shortcut Delete Rename Properties			

8. Найдите вкладку Безопасность (Security). И из списка Тип VPN выберите – Протокол L2TP (Layer 2 Tunneling Protocol with IPsec (L2TP/IPsec)). Нажмите Доволнительные параметры (Advanced settings).

L2TP VPN Properties					
General Options Security Networking Sharing					
Type of VPN:					
Layer 2 Tunneling Protocol with IPsec (L2TP/IPsec)					
Data encryption:					
Require encryption (disconnect if server declines)					
Authentication					
O 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, if any)					
OK Cancel					

**9**. Введите предварительный ключ, указанный в туннельной группе **DefaultRAGroup**, и нажмите **OK**. В этом примере C!Sc0@123 используется в качестве предварительного общего ключа.

Advanced Properties
L2TP
Use preshared key for authentication
Key: C!sc0@123
O Use certificate for authentication
✔ Verify the Name and Usage attributes of the server's certificate
OK Cancel

**10.** Выберите метод аутентификации как **Разрешить эти протоколы** и убедитесь, что только

Установите флажок Microsoft CHAP Version 2 (MS-CHAP v2) и нажмите OK.

L2TP VPN Properties				
General Options Security Networking S	haring			
Type of VPN:				
Layer 2 Tunneling Protocol with IPsec (L2TP	P/IPsec) ♥			
Data encryption:	Advanced settings			
Require encryption (disconnect if server decl	lines) 🗸			
Authentication Use Extensible Authentication Protocol (EAP)				
	Properties			
Allow these protocols				
Challenge Handshake Authentication	Protocol (CHAP)			
Microsoft CHAP Version 2 (MS-CHAP	v2)			
Automatically use my Windows log password (and domain, if any)	gon name and			
OK Cancel				

**11**. В разделе **Сетевые подключения (Network connections)** щелкните правой кнопкой мыши адаптер L2TP VPN и выберите **Подключить/Отключить (**Connect/Disconnect).



12. Появится значок сетей и нажмите Подключиться (Connect) к L2TP VPN-подключению.

2	Network Connections	Networks	
<ul> <li>(e) → ↑ (figure with the second secon</li></ul>	ternet → Network Connections v C Rename this connection Delete this connection »	Connections	
Ethernet Network 2	L2TP VPN Disconnected	Network 2	Limited 『구
vmxnet3 Ethernet Adapter	WAN Miniport (L2TP)	L2TP VPN	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
			<u>C</u> onnect

13. Введите учетные данные пользователя и нажмите ОК.



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