

REMOTE CONNECTION VIA VPN (LINUX-UBUNTU)

1 REQUIREMENTS FOR USING THE VPN

To connect a computer that is not part of the PCB network to the Park's VPN, the following is needed:

- That the computer is connected to the internet
- Administrator permission on the computer
- Have a strong two-factor authentication set up for your username

2 INSTALLING THE OPENCONNECT VPN CLIENT

With the introduction of two-factor validation, the VPN client has to open a browser in which the user authentication will be carried out. The Ubuntu 22.04 LTS version already includes the packages in its repositories that integrate this entire process. To install the necessary packages, execute the commands:

sudo apt update (to update the repository sources) sudo apt install network-manager-openconnect-gnome

3 SETTING UP THE VPN

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Once you have the installed client you must set up the VPN connection following this procedure:



• Within the network section add a new VPN connection

Q Settings =	Network
😚 Network	
Bluetooth	Wired +
Background	Connected - 10000 Mb/s
Appearance	VPN +
A Notifications	Not set up
Q Search	
🕒 Multitasking	Network Proxy Off
iii Applications	



• Select the Openconnect client option

Cancel	Add VPN
Multi-proto Compatible wi	col VPN client (openconnect) ith Cisco AnyConnect, Juniper Network Connect and Junos Pulse, and PAN GlobalProtect SSL VPNs.
OpenVPN Compatible wi	ith the OpenVPN server.
Point-to-Po Compatible wi	int Tunneling Protocol (PPTP) ith Microsoft and other PPTP VPN servers.
Import from	n file

- Enter the name you wish to give to this connection, and as a protocol you must select "Palo Alto Networks GlobalProtect". As a Gateway, enter the VPN portal that applies to you:
 - vpnp.pcb.ub.es for public environments
 - vpne.pcb.ub.es for private companies
 - o vpnirb.pcb.ub.es for the IRB

Leave all of the other options as default and then you can add the settings

tity IPv4 IPv6	-		
Name PCB test			
General			
VPN Proto	Palo	Alto Networks GlobalP	rotect ~
Gate	way	vpntest.pcb.u	ıb.es
CA Certific	ate	(None)	ē
Pr	оху		
Allow security scann	ner trojan (CSD)		
Trojan (CS	D) Wrapper Script		
Re	ported OS		
Certificate Authentica	ation		
Use	r Certificate	(None)	ē
	Private Key	(None)	ē
Use FSID for key pas	ssphrase		
Prevent user from n	nanually accepting inv	alid certificates	
Software Token Autho	entication		
Token Mod	e Disable	ł	~
		То	ken Secre



4 CONNECTING THE VPN

We can see this process in the video <u>https://youtu.be/C9Jno5aBER4</u> Once we have configured the settings to connect the VPN, we need to deploy the VPN section in the top right-hand side of the desktop and select the Connect option.

		🛃 🌒 🕛
	4 0	0
	🖧 Wired Connected	>
	🖾 VPN Off	~
	Connect	
	VPN Settings	
	(^T) Balanced	>
	O Settings	
	🔒 Lock	
- Ar	也 Power Off / Log Out	>

A window will open in which you will have to select the "Login" option. If the "Login" button is greyed out you must click on the "Connect" button first.

	Connect to \	/PN "PCB te	est" ×
VPN host	vpntest.pcb	.ub.es ~	Connect
Autom	atically start	connecting r	next time
Sel	ect a host to f	etch the log	in form
Save	passwords	Cancel	Login
☐ Save p	passwords	Cancel	Login



This will open the validation page where you will have to introduce your PCB services' username and password as well as the number that will simultaneously generate the two-factor validation you have set up for your username.



Once correctly validated, check that the gateway is correct and click on the "Login" button again.

		Connect to VPN "PCB test"		>
/PN host	vpntest.pcb.ub.e	'S	~	Connect
Autom	natically start conn	ecting next time		
Login s	Successful!			
GATEWA	Y.	Please select GlobalProtect gateway	VPNTEST.PC	BUB FS V
Save	passwords		Cancel	Login
Log				
				Close



Now an error message will appear because the SAML authentication is in progress, you must then click on the "Login" button for a third time.

PN host vpntest.pcb.ub.es Connect Automatically start connecting next time Unexpected 512 result from server SAML REDIRECT authentication in progress SAML REDIRECT authentication in progress Save passwords Cancel Login Login		Connect to VPN PCB test		1
Automatically start connecting next time Unexpected 512 result from server SAML REDIRECT authentication in progress Save passwords Cancel Login	/PN host vpntest.pc	b.ub.es	~	Connect
Unexpected 512 result from server SAML REDIRECT authentication in progress Save passwords Cancel Login	Automatically star	t connecting next time		
SAML REDIRECT authentication in progress Save passwords Cancel Login	0	Unexpected 512 result from serve	er	
Save passwords Cancel Login		SAML REDIRECT authentication in progres	is	
Save passwords Cancel Login				
Save passwords Cancel Login				
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Save passwords Cancel Login				
Save passwords Cancel Login				
Save passwords Cancel Login				
Save passwords Cancel Login				
Save passwords Cancel Login				
Save passwords Cancel Login				
Save passwords Cancel Login				
Log				
Log	Save passwords		Cancel	Login
	Log			

You will now be connected to the VPN and have access to the internal resources on the PCB network.

5 DISCONNECTING THE VPN

To disconnect the VPN, you just need to open the VPN section in the top right-hand side of the desktop again and select "Turn Off".

