



# **CMKL Virtual Private Network (VPN) Connection Manual**

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IT Department, CMKL University

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# Contents

<b>1</b>	<b>Introduction</b>	<b>2</b>
<b>2</b>	<b>VPN Support Status</b>	<b>2</b>
<b>3</b>	<b>VPN Configuration on Windows 10 or later</b>	<b>3</b>
<b>4</b>	<b>VPN Configuration on Mac OS X or later</b>	<b>5</b>

# 1 Introduction

The IT Department at CMKL University was established to support students, faculty, and staff in their academic and operational endeavors by providing seamless and reliable services and resources. Accordingly, accessibility to these assets is of significant importance. However, certain services and resources are hosted exclusively on-premise and require users to be physically present on campus to access them. This constraint may limit effective utilization and reduce overall accessibility.

A Virtual Private Network (VPN) is a widely adopted networking solution that enables users to securely access internal networks from external environments via authenticated and authorized connections. Previously, without VPN access, all external connection attempts were blocked by the campus security infrastructure. With VPN access, however, users are prompted to authenticate using their CMKL credentials and can establish a secure virtual connection to the internal network. Once successfully connected, users can access internal services and resources remotely, as if they were on campus.

In earlier implementations, users were required to install dedicated VPN software—such as Cisco AnyConnect or F5 Access—to manage network configurations and connections. However, modern operating systems now allow users to easily configure VPN connections directly on their devices, eliminating the need for additional software. Recognizing this advancement, CMKL has adopted this modernized approach in alignment with current trends in enterprise networking.

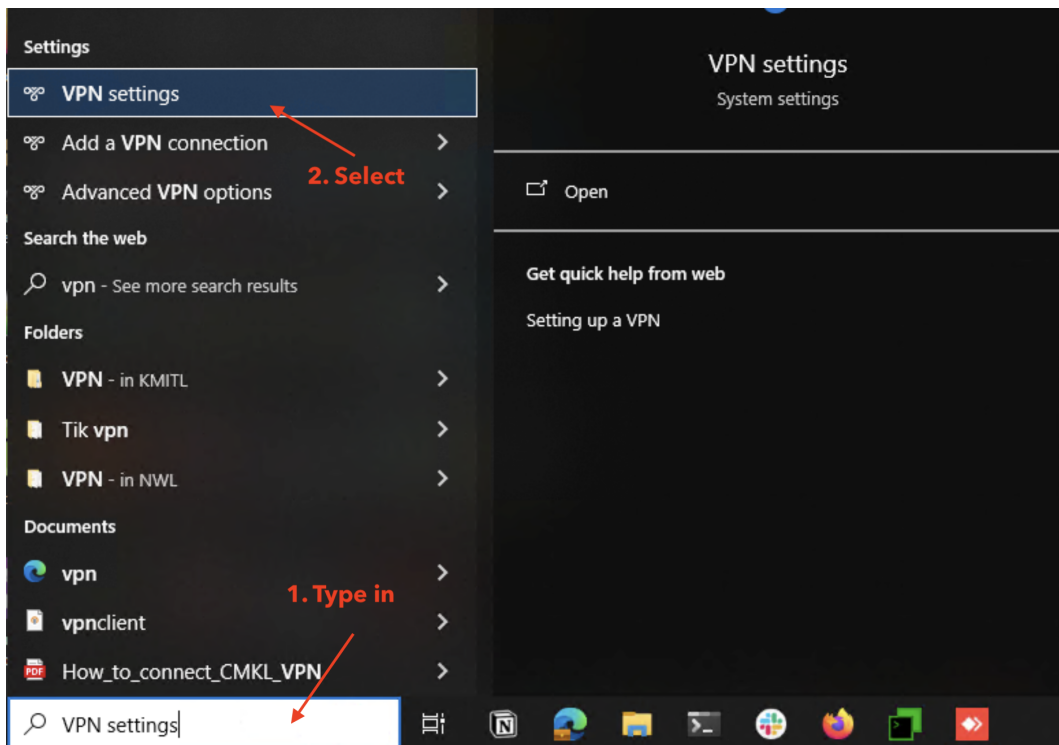
This document serves as a technical guide for connecting devices running Windows or macOS to the CMKL internal network via VPN. Please follow the instructions provided below to configure your device and activate the VPN whenever you wish to access internal CMKL resources. If you prefer to use an external VPN client, you may continue to do so; however, you must manually configure the connection settings as specified in this guide.

## 2 VPN Support Status

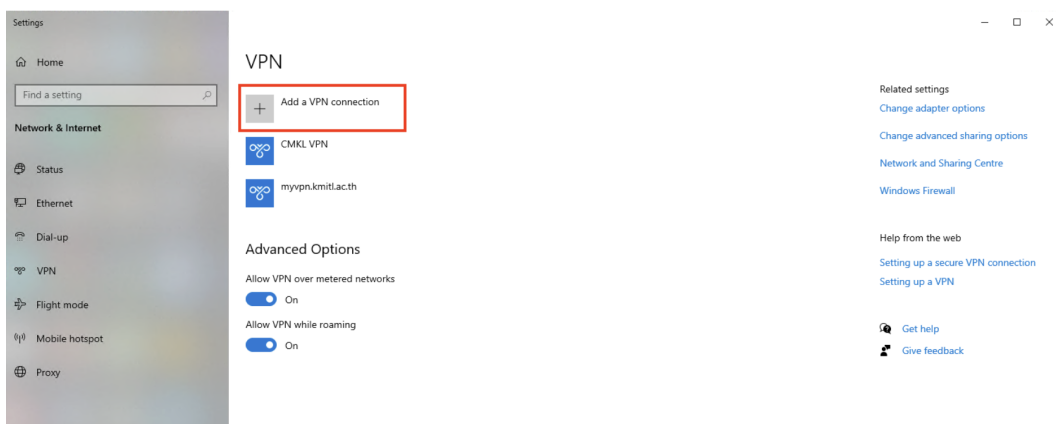
- **L2TP/IPSec** -  Available
- **Cisco AnyConnect** -  Deprecated

### 3 VPN Configuration on Windows 10 or later

1. On your home screen, search for "VPN settings" in your search bar and choose the "VPN settings" under the Settings section, as shown in the figure below.



2. After you selected the "VPN settings", the screen below will pop up on your screen.



3. Select the "Add a VPN connection" button on the top of the screen and the following form will pop up on your screen.

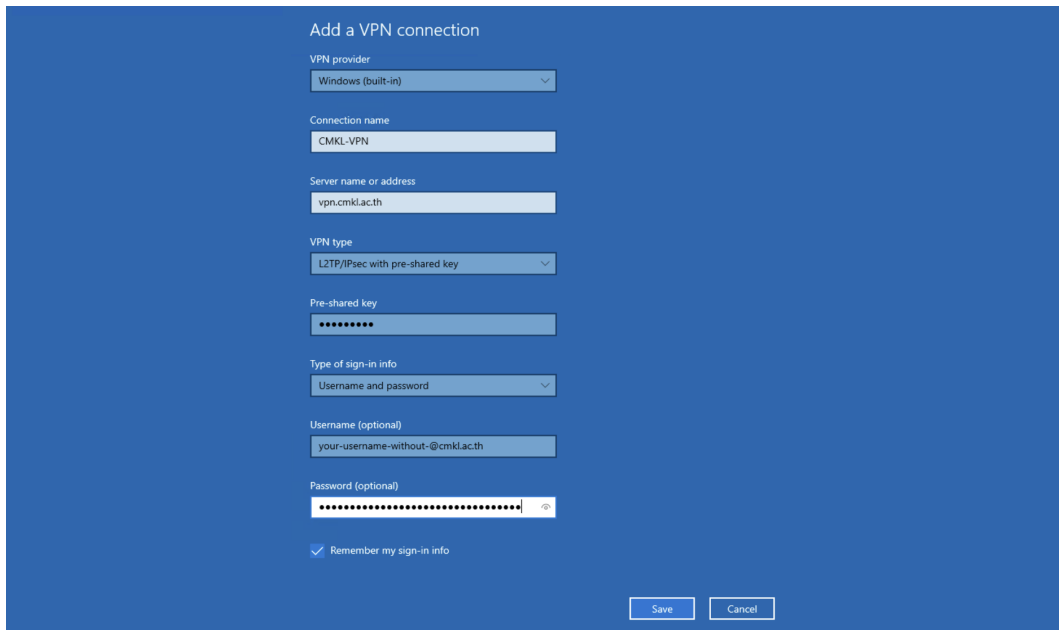
The screenshot shows the 'Add a VPN connection' dialog box. It has a blue background and contains the following fields and options:

- VPN provider:** A dropdown menu.
- Connection name:** A text input field.
- Server name or address:** A text input field.
- Type of sign-in info:** A dropdown menu with 'Username and password' selected.
- Username (optional):** A text input field.
- Password (optional):** A text input field.
- Remember my sign-in info:** A checked checkbox.
- Buttons:** 'Save' and 'Cancel' buttons at the bottom right.

4. Fill in the following information into the form and click the "Save" button at the bottom of the screen.

Name	Values
VPN Provider	Windows (Built-in)
Connection Name	CMKL-VPN
Server Name or Address	vpn.cmkl.ac.th
VPN Type	L2TP/IPsec with pre-shared key
Pre-Shared Key	@cmkl#vpn
Type of Sign-In Info	Username and Password
Username	[Your CMKL Wi-Fi account name without @cmkl.ac.th]
Password	[Your CMKL Wi-Fi password]
Remember my sign-in info	<input checked="" type="checkbox"/>

After clicking the "Save" button, you will return to the "VPN settings" screen. Then, you can select the "CMKL-VPN" connection on the list and click the "Connect" button to initiate the VPN connection.

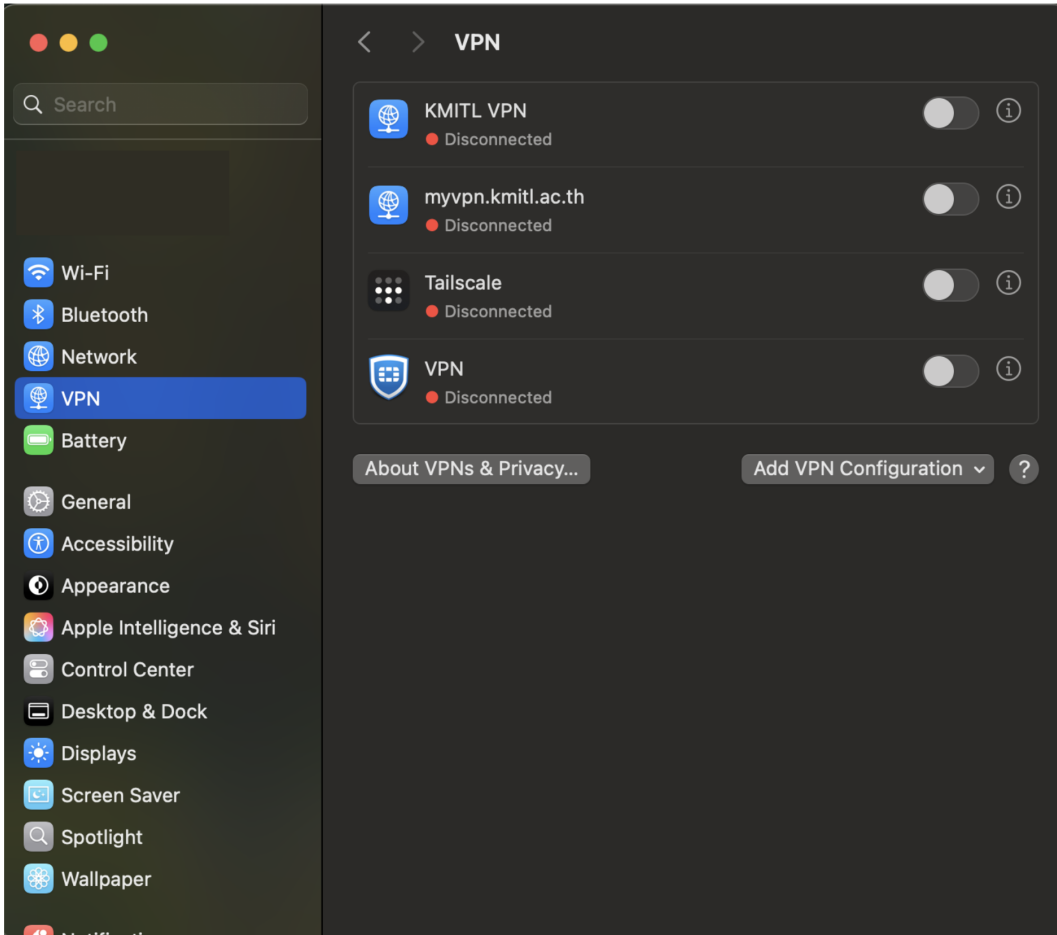


## 4 VPN Configuration on Mac OS X or later

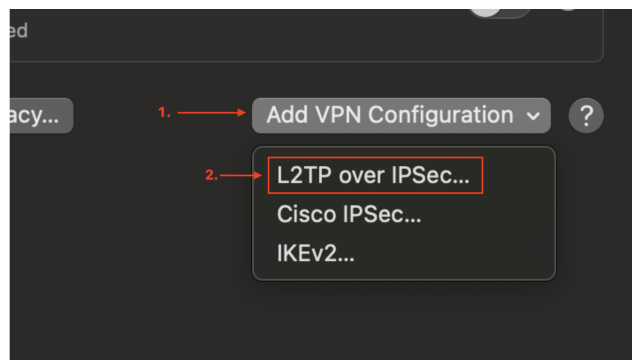
1. On your screen, open the launchpad to see the list of applications. Then, select the "System Settings" application.



2. Browse to the "VPN" settings from the left navigation pane.



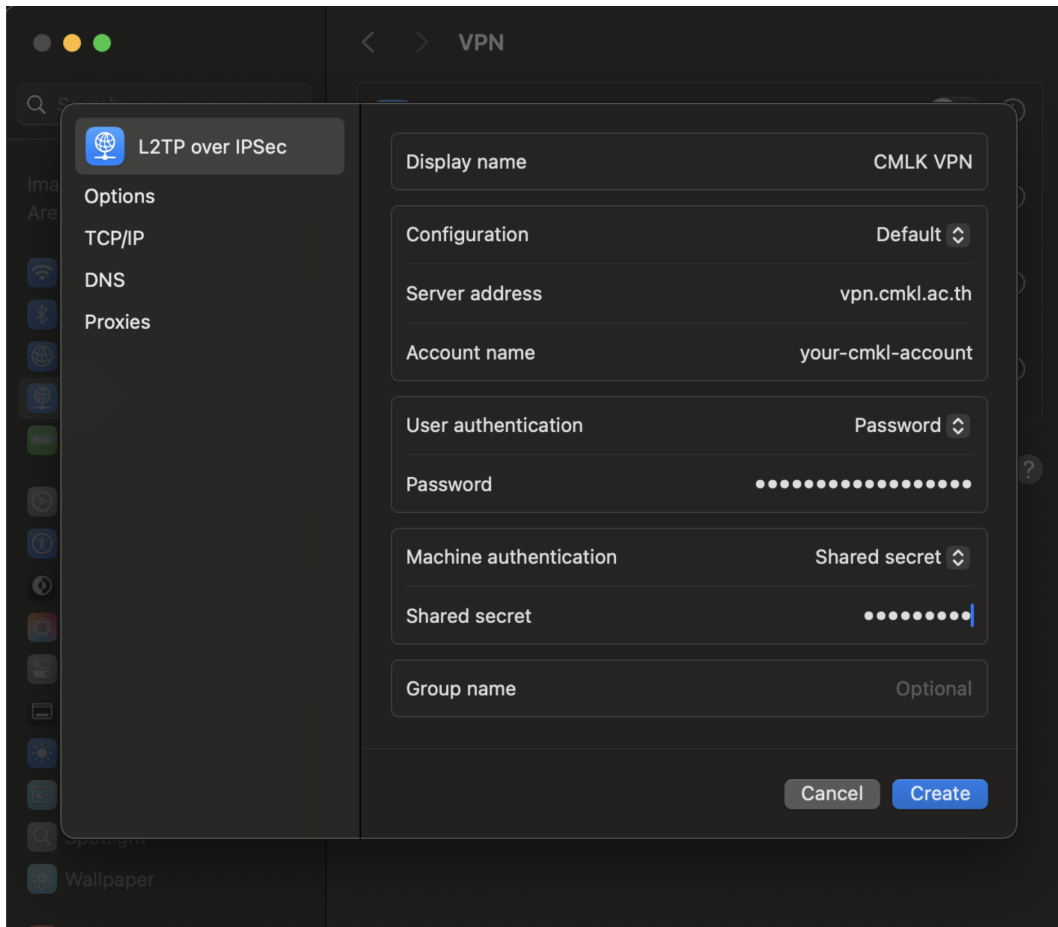
3. Select the "Add VPN Configuration" button at the bottom of the setting screen and then choose "L2TP over IPsec..." from the dropdown list, as shown in the figure below.



4. The "Add VPN Configuration" form will pop up on your screen as shown below.

5. Fill in the following information into the form and click the "Create" button at the bottom of the form.

Name	Values
Display Name	CMKL-VPN
Configuration	Default
Server Address	vpn.cmkl.ac.th
Account Name	[Your CMKL Wi-Fi account name without @cmkl.ac.th]
User Authentication	Password
Password	[Your CMKL Wi-Fi password]
Machine Authentication	Shared Secret
Shared Secret	@cmkl#vpn
Group Name	–Leave it blank–



6. After clicking the "Create" button, you will return to the "VPN" settings screen as shown below. Then, you can select the "CMKL-VPN" connection and turn the switch on for initiating the VPN connection.

