

ISR (English)

- [E-mail](#)
 - [E-mail Configuration](#)
 - [E-mail system regulation](#)
 - [POP3 Configuration for Gmail](#)
- [Networks & Conectivity](#)
 - [Equipment Housting](#)
- [Security](#)
 - [Authentication & Account password](#)
- [Information Systems](#)
 - [Connection to Web and Home servers via FTP TLS / SSL](#)
 - [Personal Page Hosting Service](#)
- [Software](#)
 - [Microsoft Office 365 Education](#)
- [VPN](#)
 - [OpenVPN](#)
 - [OpenVPN Manual for Windows](#)
 - [OpenVPN Manual for Ubuntu](#)
 - [OpenVPN Manual for Android](#)
 - [OpenVPN Manual for iOS](#)
- [Wi-Fi](#)
 - [Wireless Network](#)

E-mail

E-mail Configuration

Incoming settings

Protocol	IMAP
Host name	imap.isr.uc.pt
Security	SSL
Port	993
Authentication Method	<i>Password</i> (normal)
Username	<your username> (for example, jsmith)
Password	<your password>

Outgoing settings

Protocol	SMTP
Host name	smtp.isr.uc.pt
Security	STARTTLS
Port	25
Authentication Method	<i>Password</i> (normal)
Username	<your username> (for example, jsmith)
Password	<your password>

Webmail

Use the address <https://webmail.isr.uc.pt>

E-mail system regulation

In order to combat the growing computer security threats, specifically in electronic mail systems, it has become essential to review and modify some rules and requirements that govern the operation of these systems.

SPF – Sender Policy Framework

Sender Policy Framework (SPF) is a mechanism that identifies which email servers are allowed to send email on behalf of your domain, through the DNS system.

Systems that send e-mail with a sender address @ isr.uc.pt will most likely be classified as Spam, if they are not on the list of authorized persons in the SPF records.

If you need a system or service that sends e-mail with sender @ isr.uc.pt, you should contact the ISR Informatics Office (informatica@isr.uc.pt), with a view to obtaining instructions on how to proceed.

Implications of this requirement

It is no longer possible to use alternative identities for sending mail. For example, you cannot use the DEEC or IT SMTP server (sending) to send e-mail with the sender @ isr.uc.pt. For this, you must set up an ISR account.

DKIM – DomainKeys Identified Mail

DomainKeys Identified Mail (DKIM) is a mechanism for validating and guaranteeing the integrity of the content of the email during its transport, with regard to its modification both in the content and in the headers. This mechanism also validates if the e-mail attachments, if any, have not been altered during transport from the sender to the recipient.

A digital signature of the issuing server is included in all emails sent.

This mechanism allows you to avoid spoofing attacks. Spoofing is a malicious technique of changing the sender of a message so that the victim opens emails, for example, with viruses or other malicious devices (phishing, etc.). This is because the malicious message arrives in the e-mail box with the sender of someone you know.

ISR systems implement the DKIM system, to increase security in e-mail.

Anti-Spam

The widespread use of e-mail as a form of everyday communication has made it an obvious target for malicious activities by malicious people. Mail sent in this context is called Spam.

The response of system administrators to this threat is systems and mechanisms whose function is to filter and block unsolicited and malicious messages, which are called anti-spam systems.

These systems are placed before the end server, where the mail is delivered and normally work transparently for the end user. Currently, all email service providers implement some type of anti-spam filter.

Due to its nature, there is no perfect anti-spam system. For this reason, the system may, in particular situations, retain an email, classifying it as Spam. There are ways to recover these emails, when considered a false positive, associated with mechanisms that allow this to not be repeated.

Due to the discontinuation of the Anti-spam service in operation at ISR, it became necessary to proceed with its replacement with a new one. This process was the subject of a careful study of the existing alternatives followed by a phase of laboratory tests, having opted for the MailCleaner solution.

MailCleaner Features

The MailCleaner system is based on a set of sophisticated filtering technologies that work together. End users have full control over the quarantine function: with a simple click, the user can delete or release any message held by the filter.

MailCleaner implements a number of complementary techniques for detecting and blocking Spam, combining artificial intelligence algorithms that are constantly adapting to the identification of ever-changing spammers' techniques.

The anti-virus filter built into MailCleaner filters messages for viruses, worms and suspicious attachments with potentially malicious content.

MailCleaner can recognize and classify newsletters. The user will only receive the newsletters that he / she really wants to receive and keep the rest in quarantine.

MailCleaner has an authenticated web interface for simplified self-service management of quarantined messages, black and white lists, among other features.

The address for Self Service is <https://antispam.isr.uc.pt>.

E-mail

POP3 Configuration for Gmail

Configuração POP3 para

Below are screenshots of the GMail POP3 client setup procedure for ISR email, for a better illustration of the process.

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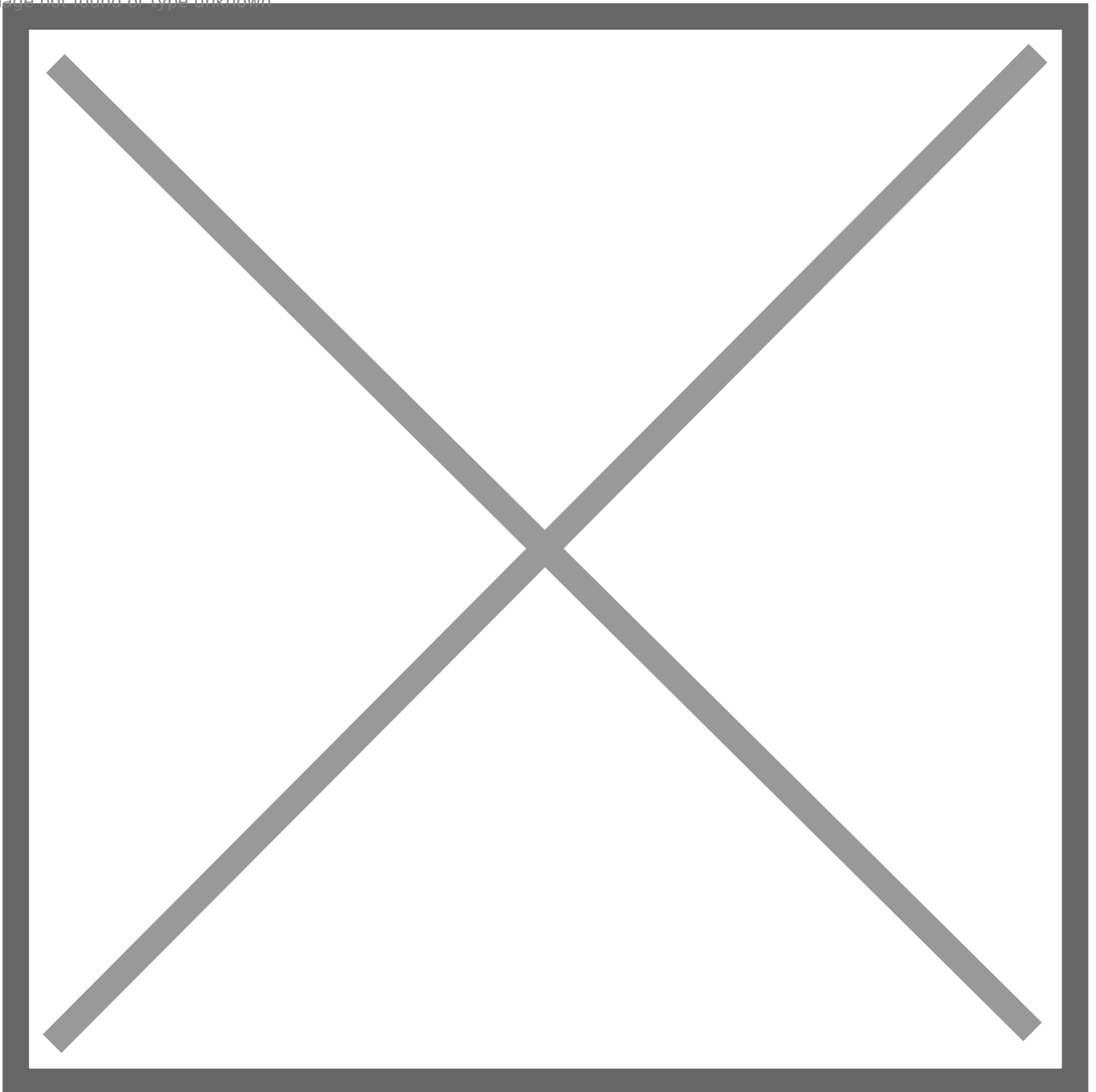


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In point 5, enter your ISR email address.

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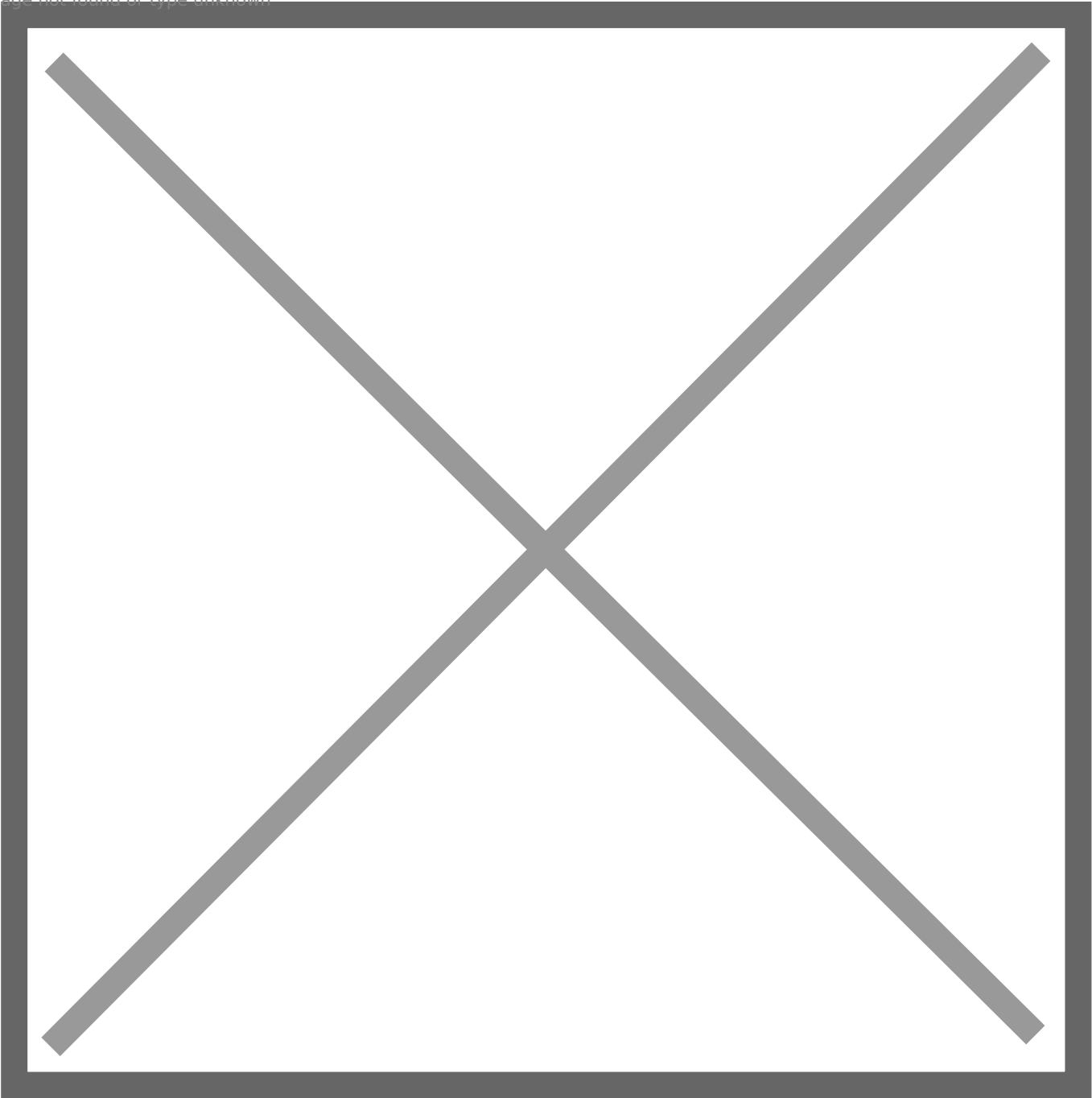
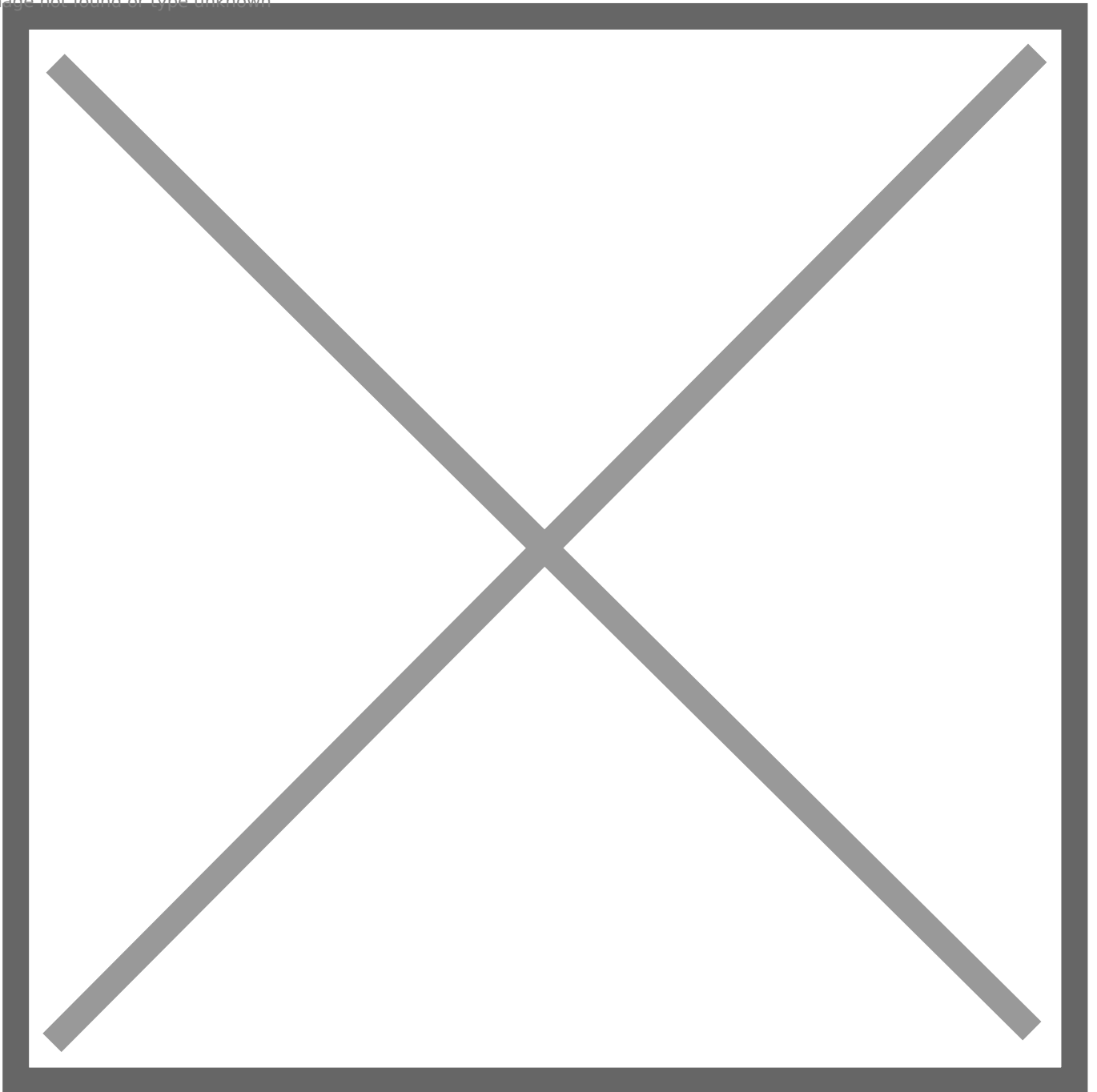


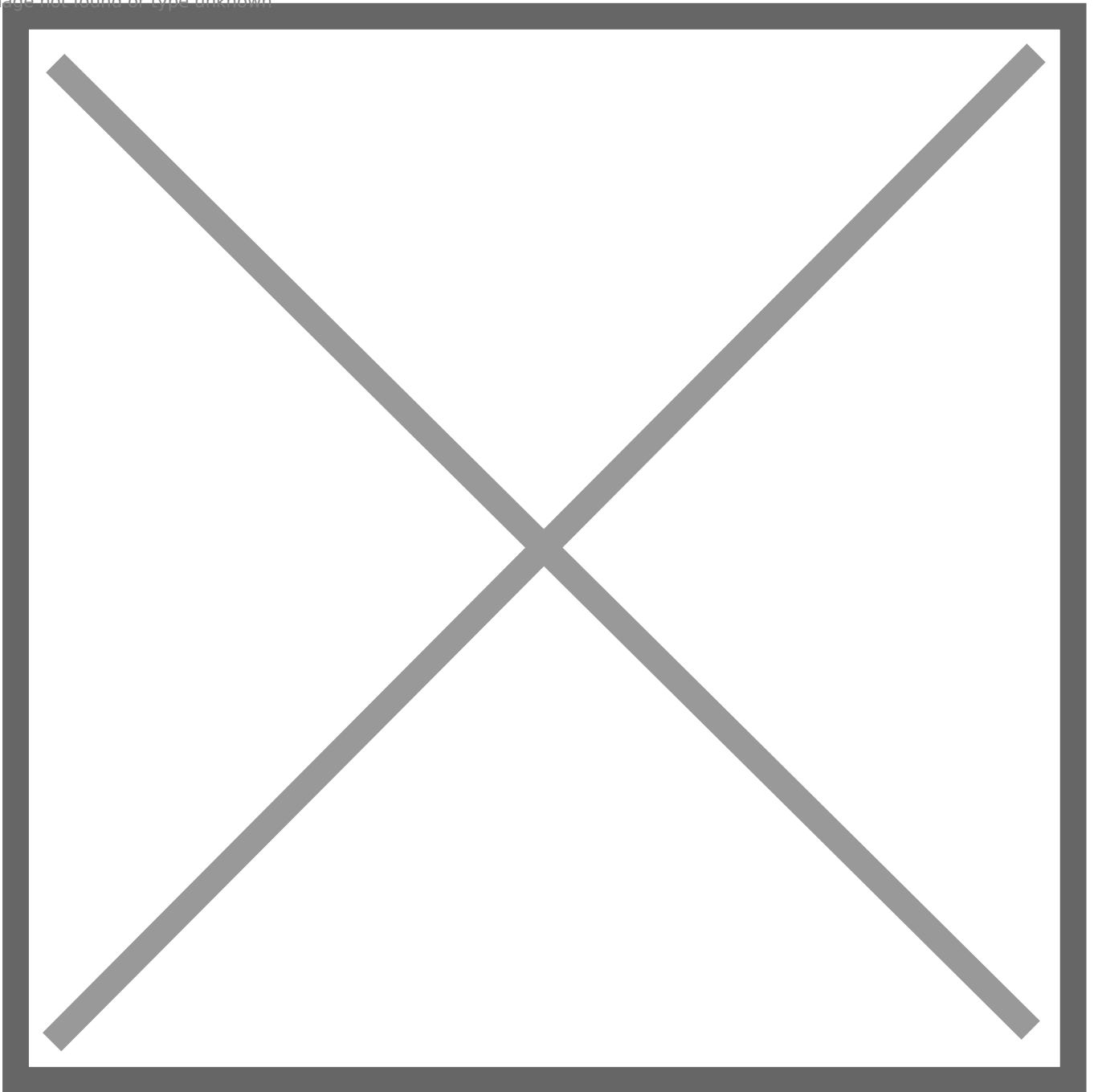
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In point 7, enter the password associated with your ISR account.

In point 8, enter pop3.isr.uc.pt and make sure that port 995 is selected in point 9.

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At this time, Gmail will get email from your ISR account at regular intervals.

Networks & Connectivity

Equipment Housting

Housing & Colocation service is available at the DEEC / ISR / IT Common Datacenter. This service is the colocation of the server or other computer equipment with network access.

Since the server is provided by the client, it will also be configured, administered and maintained (hardware) by the same. This way, its owner can install the software he wants as well as configure it carefully.

The space dedicated to this service has redundant connections to the network core and UPS connection and is physically limited, so new orders need to be checked for availability.

Benefits and Features

- Energy - UPS access, ensuring greater electrical safety and equipment stability
- Temperature Control - HVAC (Temperature and Humidity Control) system provides constant temperature and relative humidity control
- Network core connection - Direct network core connection for increased stability, superior access speed and low latency between applications and users
- Security - Limited Access Space Enables Greater Equipment Security

Owner Responsibilities

- Installation
- Configuration
- Maintenance
- Operation
- Backups
- Software Updates
- Problem solving
- Licensing

Anomalies and Problems

For security reasons, if anomalies are detected (viruses, malicious software, software malfunctions, etc.), security breaches (attacked accounts, etc.) or any other issues that have a potential impact on the remaining infrastructure, The equipment will be immediately disconnected from the network and delivered to the owner to correct the identified situations.

Security

Authentication & Account password

ISR Coimbra has a centralized authentication system, that is, a unique identification system, which allows all its users to access the various informed services, using the same authentication credentials - the same username and password.

Given the degree of criticality of this keyword, which allows access to multiple computer services, were used according to the following rules:

- A keyword must have at least eight characters and three different variants (uppercase, lowercase, numbers and punctuation);
- The password must be renewed periodically by the user.

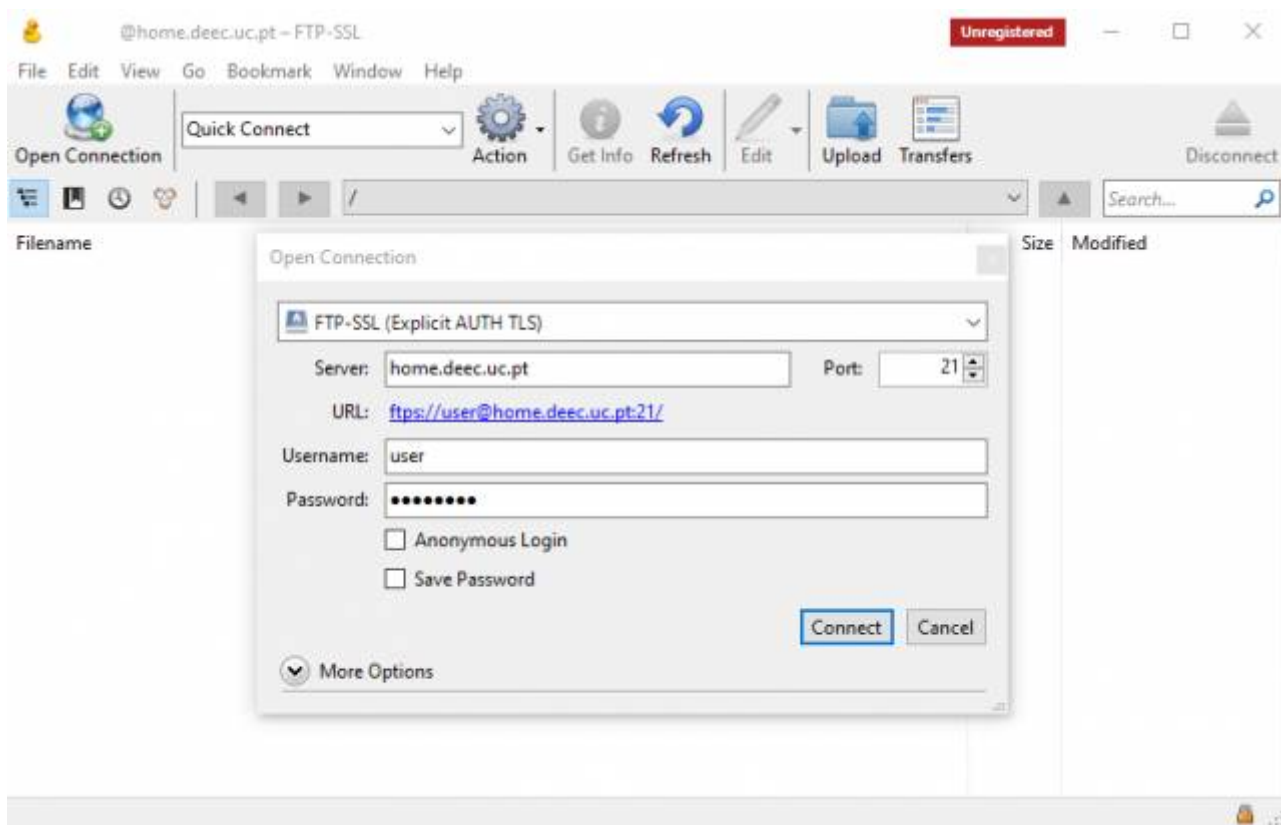
You can change your password at <https://password.isr.uc.pt>

Information Systems

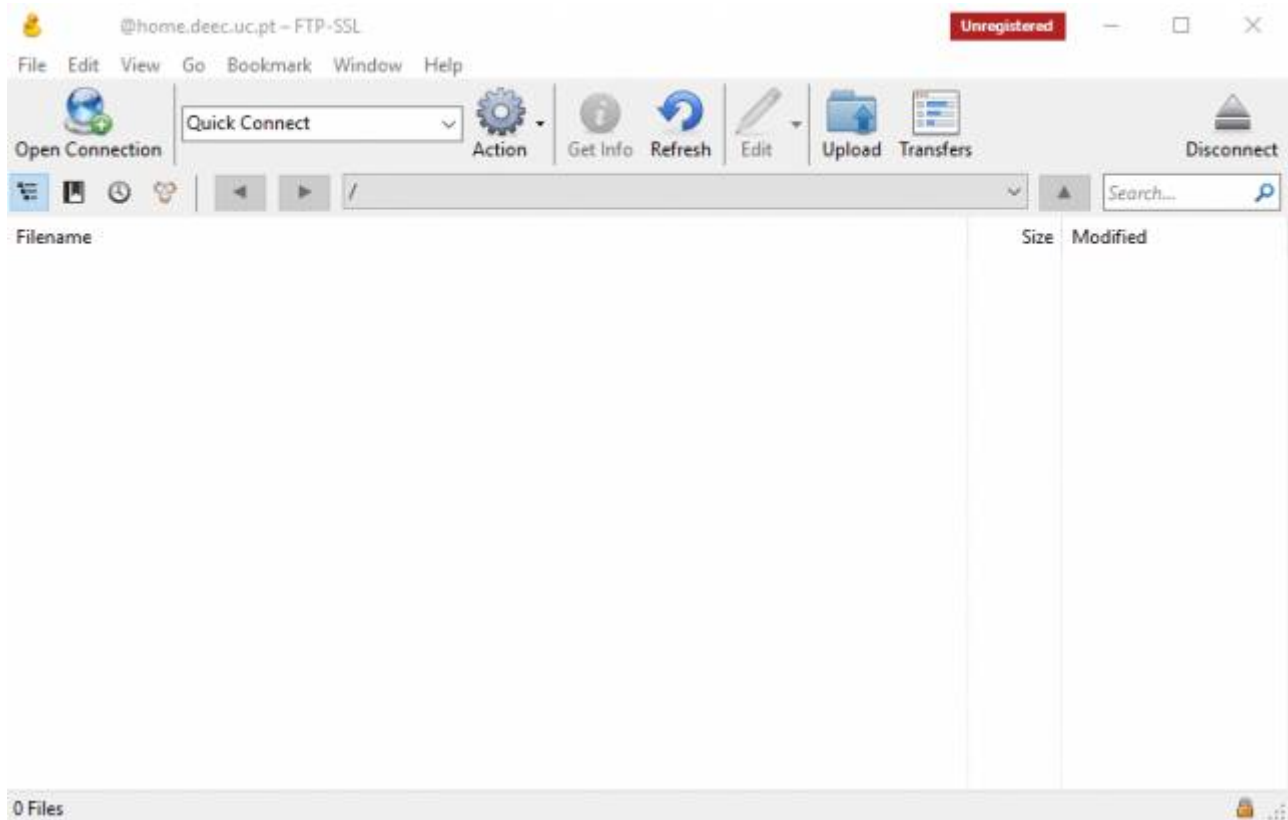
Connection to Web and Home servers via FTP TLS / SSL

This document presents the necessary steps to access via FTP TLS / SSL the servers web.isr.uc.pt and home.isr.uc.pt.

- 1 - Download and install Cyberduck. To download it click [here](#) (select Windows or Mac OSX).
- 2 - Open Cyberduck, click on Open Connection, select FTP-SSL (Explicit AUTH TLS) and then fill in the server address, as well as your user and password:



- 3 - After the connection is established, you can start transferring files between the server and your machine.



Personal Page Hosting Service

Presentation

ISR provides its employees with a service for the publication of personal web pages. This service is available through the URL <http://home.isr.uc.pt/~username>.

The materials hosted through this service are the responsibility of each user and reflect their individual vision. The published information does not represent the opinion or policy of the Institute of Systems and Robotics. Thus, the institution should not be associated with the users' view, expressed in the pages hosted on this service.

Personal website management

The access to the server, for editing the pages, is done through the SFTP protocol and your ISR credentials.

The table below shows the settings you should use in your usual SFTP client (we suggest [Cyberduck](#) for OSX and [WinSCP](#) for Windows).

Definition	Description	Value to be configured
Server	Endereço do servidor que aloja o serviço	home.isr.uc.pt
Protocol	Protocol for interaction with the server, for the manipulation of remote files	SFTP (SSH File Transfer Protocol)
Username	Username of the user to be connected to the server	ISR domain username
Password	Password of the user to be connected to the server	Password of the respective account
Path	Path in the file system, where the site is hosted	/home/isr/<username>/public_html

Location and Permissions

The website must be contained in a folder, named public_html, within your account. If it is not yet created, you must proceed with its creation.

In addition, you must ensure that the folder and all files contained have the correct permissions (755 - u = rwx, g = rx, o = rx), using the command below, using the SFTP client:

Previous Systems

Forwarders of previously published URLs have been created to ensure their smooth operation.

Thus <http://www.isr.uc.pt/~username> and <http://mail.isr.uc.pt/~username>, automatically point to <http://home.isr.uc.pt/~username>.

The sites were automatically copied from the old server (MAIL ISR). If for some reason you were using the ISO-8859-1 encoding and your page contains unformatted characters, you can create an .htaccess file, with the following content, / home / <username> / public_html, to solve the problem:

```
AddDefaultCharset iso-8859-1
```

Software

Microsoft Office 365 Education

Presentation

Office 365 Education Plus is available free of charge to students and employees enrolled at the University of Coimbra.

Install Office on a maximum of 5 PCs or Macs and on other mobile devices, including Android™, iPad® and Windows tablets.

Enjoy access to Office 365 services, such as 1TB online storage on OneDrive and Yammer.

To make the initial registration, use the link (use your @isr.uc.pt address for registration)

What's Included

Complete applications installed

Create reports and presentations with the latest versions of the applications you know so well and trust. It includes Word, Excel, PowerPoint, OneNote, Outlook, Publisher and Access.

Easy real-time collaboration

Work with your colleagues online and see each other's changes in real time with Office Online and OneDrive. The time for exchanging emails with outdated versions is a thing of the past.

Optimized note-taking tools

Type or write notes by hand, capture web pages, record audio / video, embed spreadsheets and more with OneNote, available on all your devices.

VPN

VPN

OpenVPN

OpenVPN offers a flexible VPN solution to ensure the security of communications data, whether to guarantee privacy on the Internet or remote access by employees to the internal resources of organizations.

OpenVPN Manual for Windows

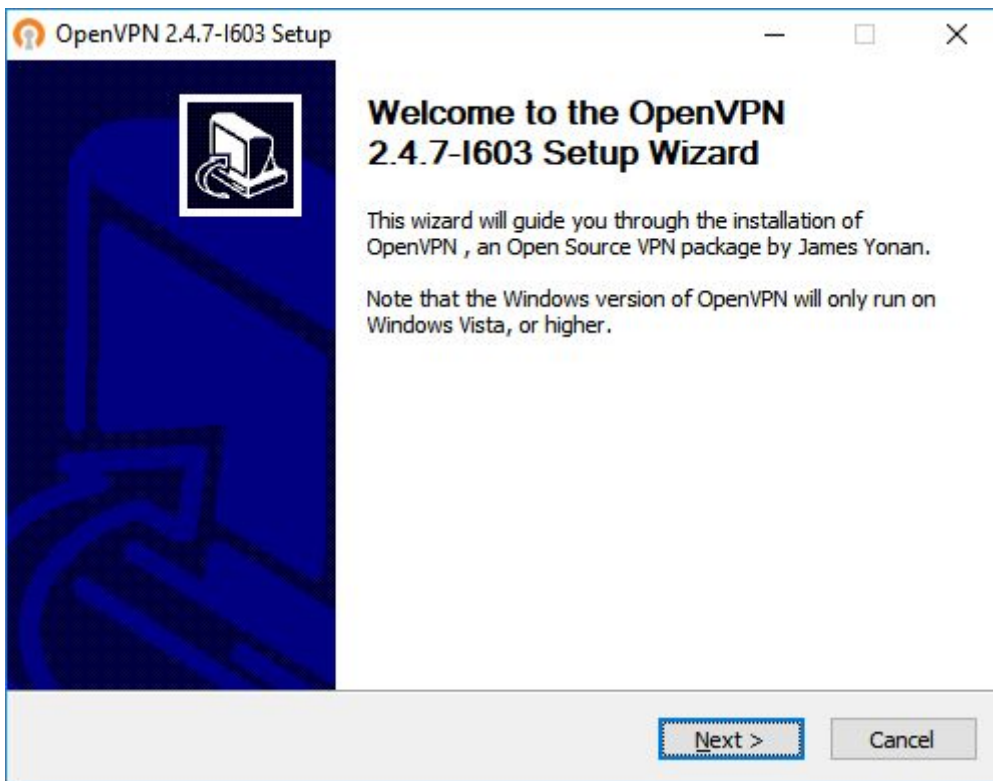
To use this service you need a @isr.uc.pt account

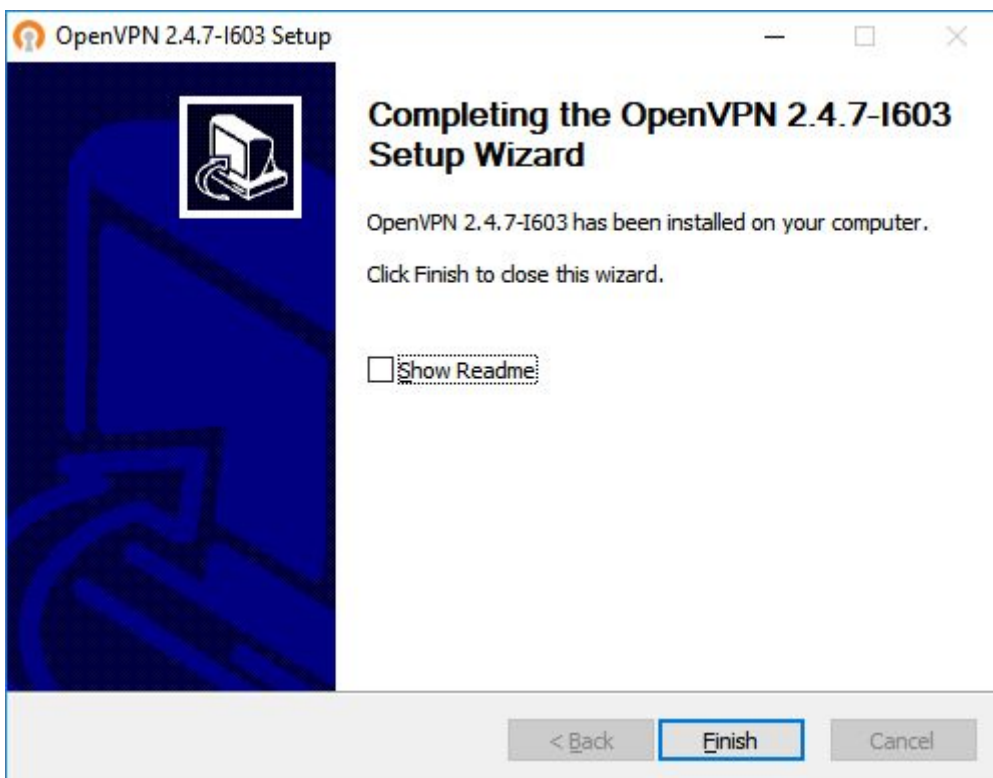
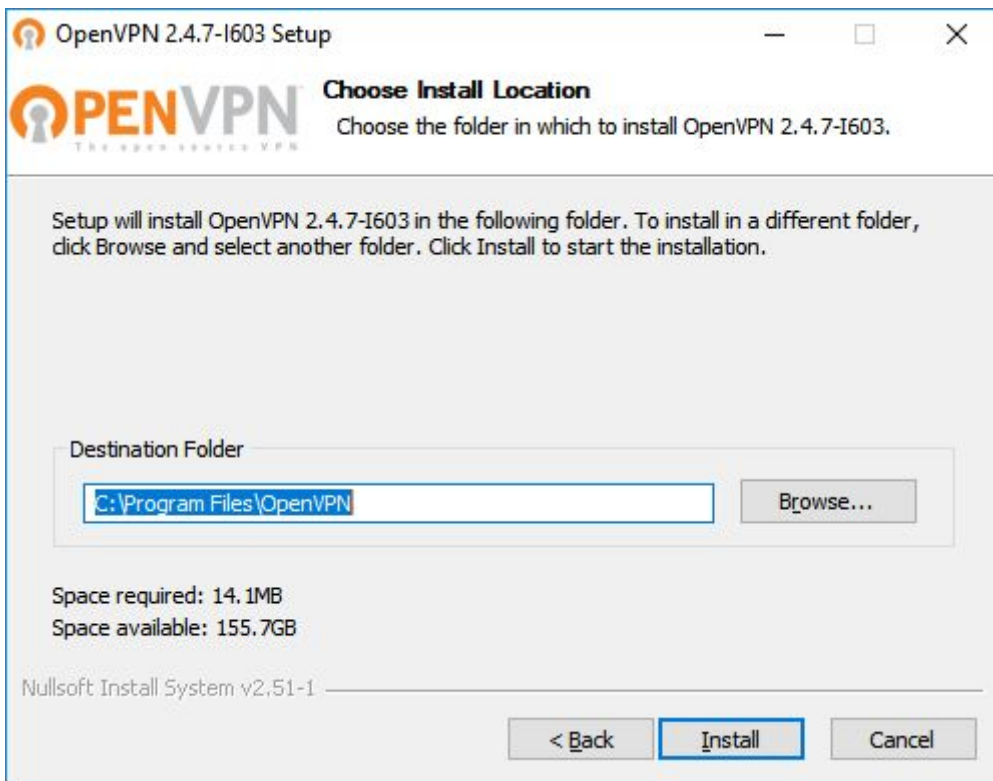
Installation

To download OpenVPN just go [here](#), and below you will find the respective download.

SOURCE TARBALL (GZIP)	GnuPG Signature	openvpn-2.4.7.tar.gz
SOURCE TARBALL (XZ)	GnuPG Signature	openvpn-2.4.7.tar.xz
SOURCE ZIP	GnuPG Signature	openvpn-2.4.7.zip
WINDOWS INSTALLER (NSIS)	GnuPG Signature	openvpn-install-2.4.7-i603.exe

Then, perform the respective installation.





Configuration

Download configuration file [ISR.opvn](#) and move it to "**C:\Program Files\OpenVPN\config**".

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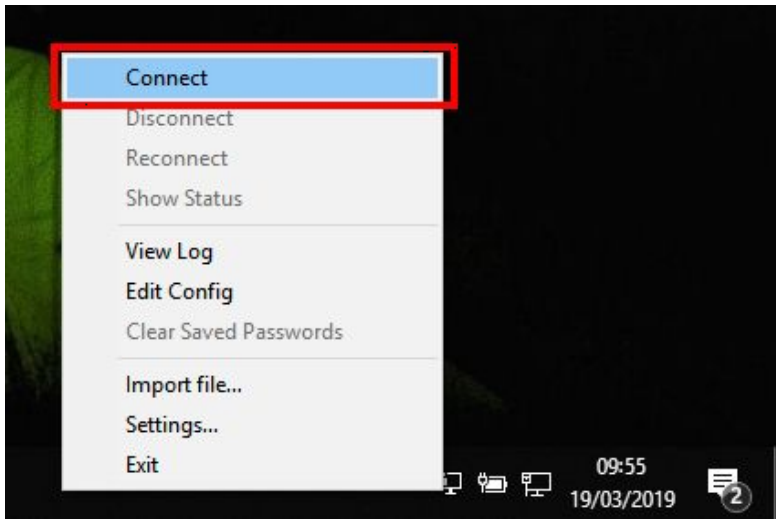


Connection

To finish, you will have to start the program “OpenVPN GUI” which, with its execution, will show an icon of a monitor with a lock on your task bar.



With the right side of the mouse over the icon, click on Connect and enter the credentials.



OpenVPN Manual for Ubuntu

OpenVPN Installation, Configuration and Execution Manual on Ubuntu
18.04.2 LTS

Introduction:

This document will present, step by step, the installation, configuration and execution of OpenVPN on the Ubuntu operating system.

Preparation:

Before starting the installation and configuration of OpenVPN on your computer, you should check the following point:

Have an account for the configuration of OpenVPN, which is requested from the Management Office of the Computer Network.

Installation:

To use *OpenVPN* just run the following command “**\$ sudo apt-get install network-manager-openvpn-gnome**”.

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When the installation is complete, restart the network-manager service.

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Configuration:

For configuration, you must download [ISR.ovpn](https://www.isr.ovpn). Use the mouse to go to the network manager icon to go to “**Edit Connections ...**”, then “**Add a new connection**” and create a connection with “**Import a saved VPN configuration...**”.

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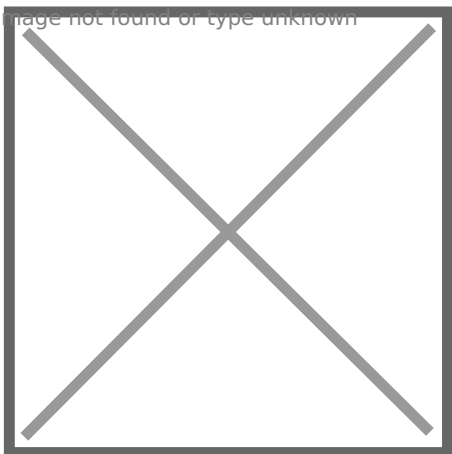


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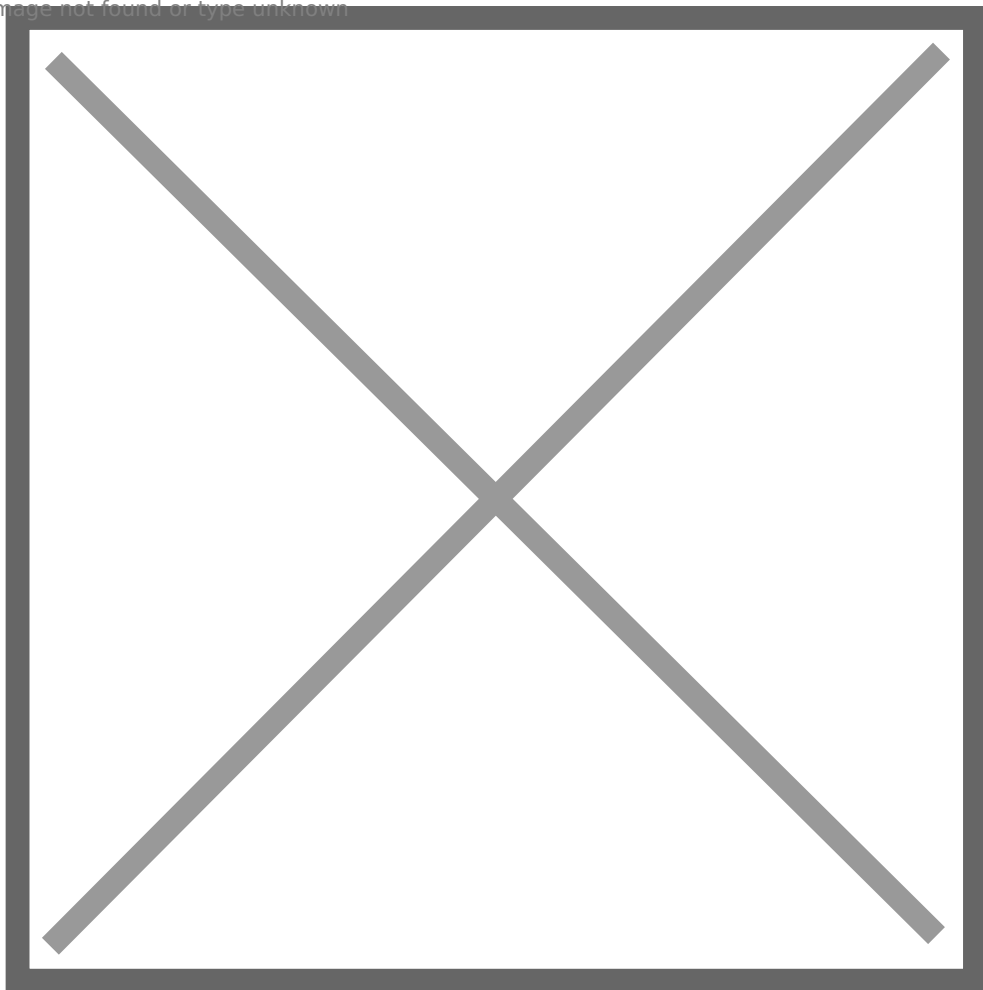


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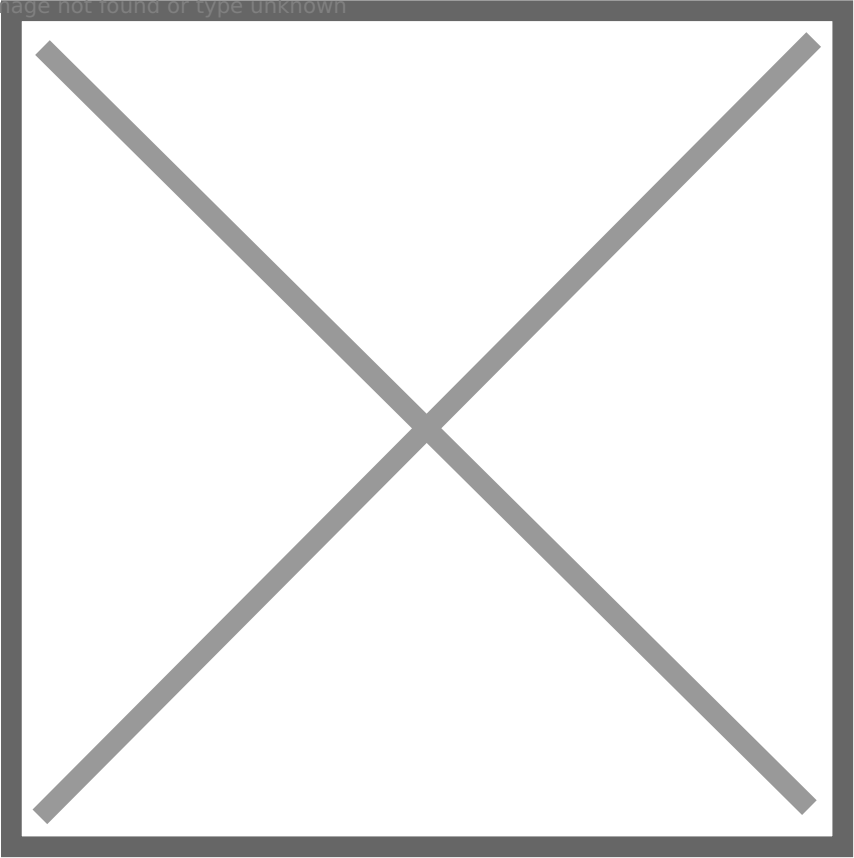


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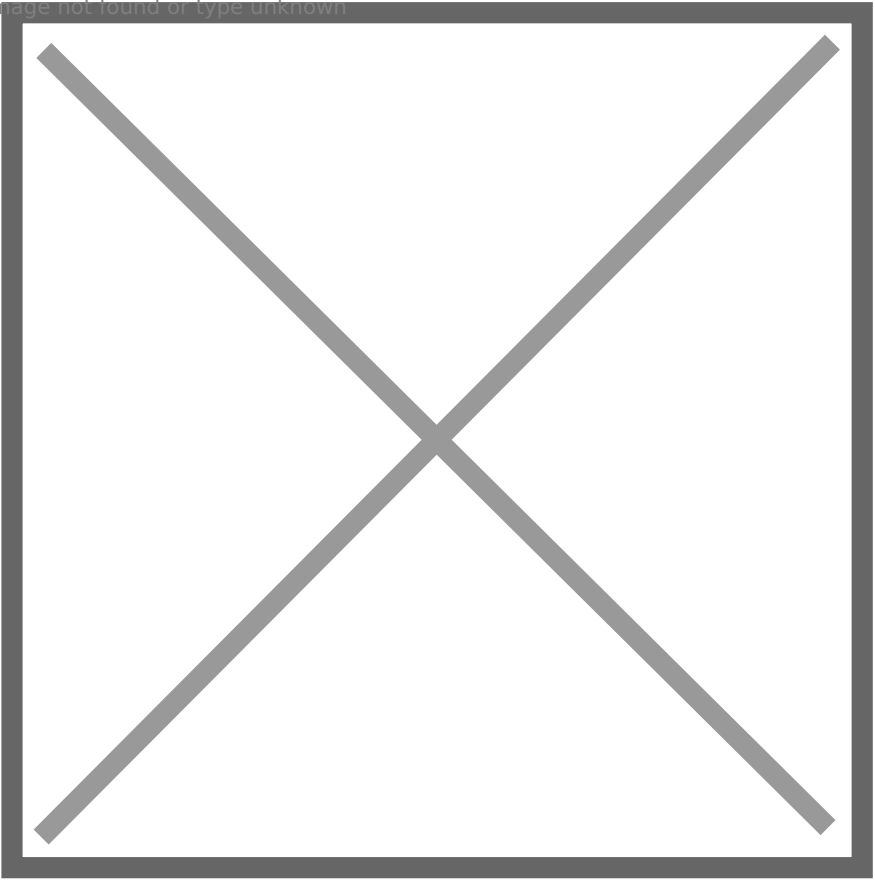
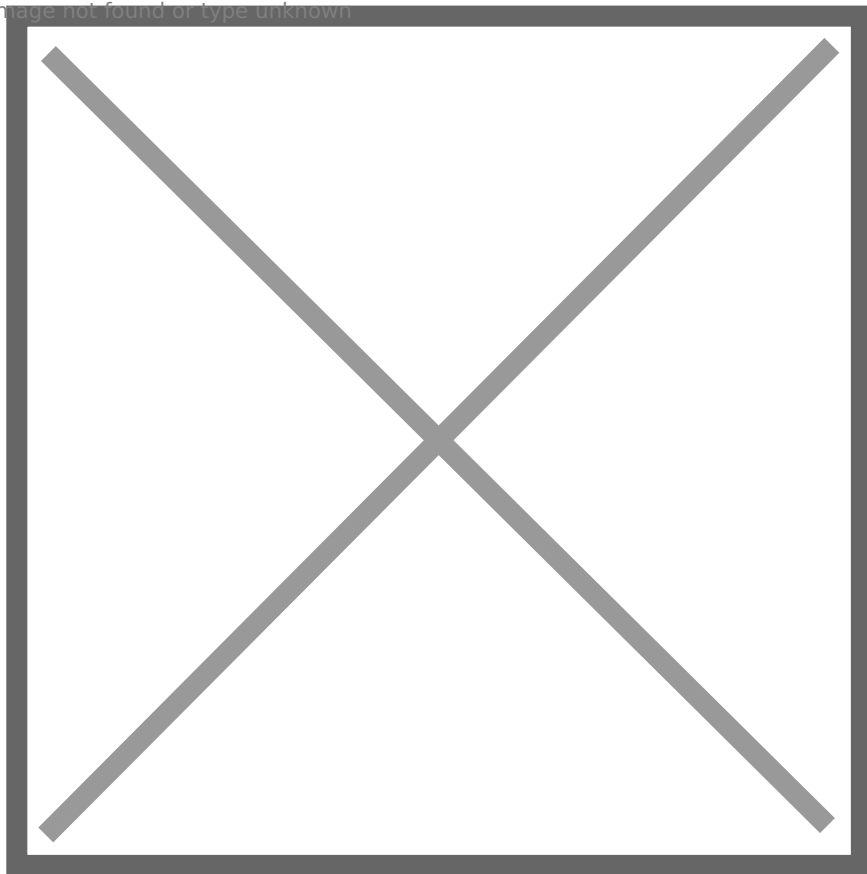


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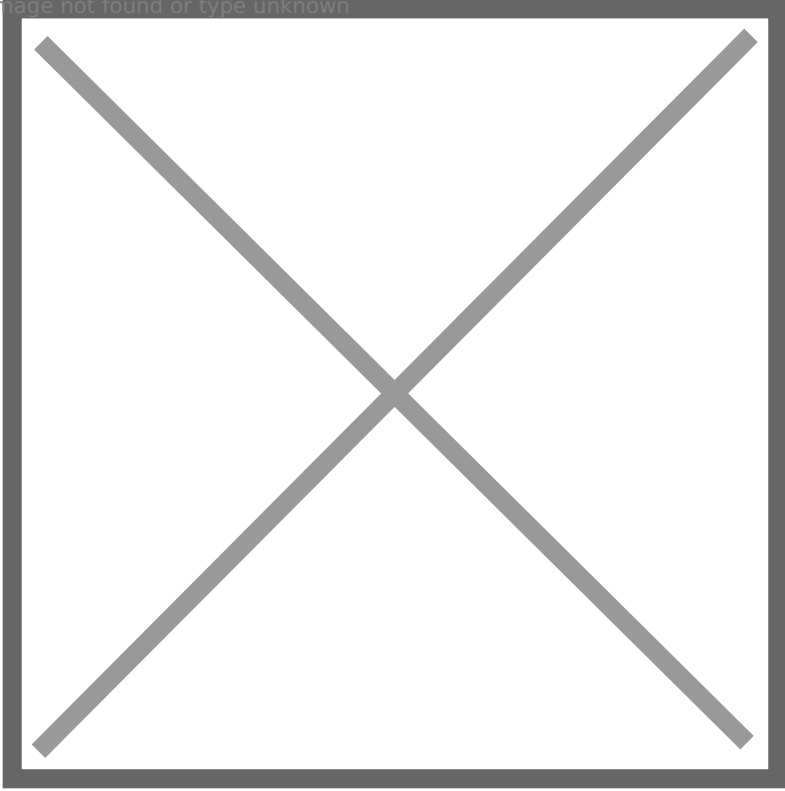


Then select the ISR.ovpn file and enter the IT credentials. If you want, you can change the Connection name to an easier name to identify the ISR VPN.

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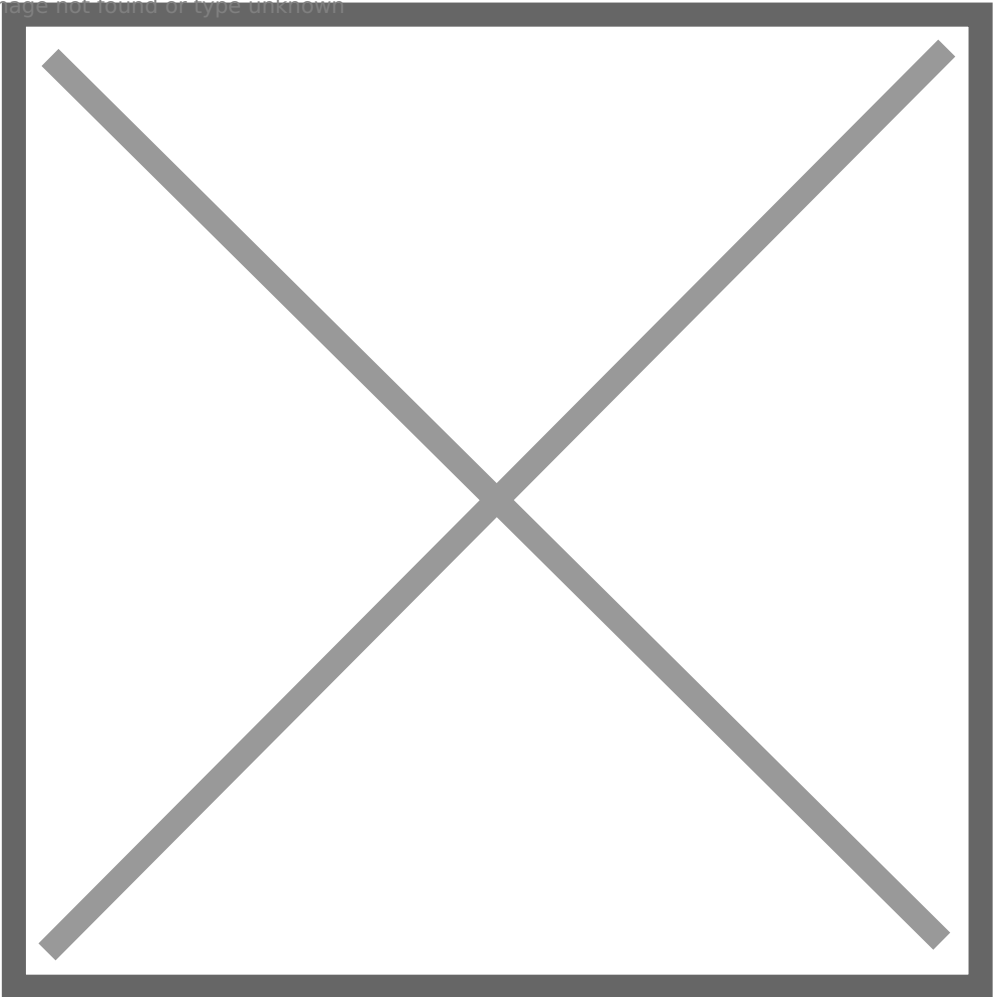
Execution:

Finally select the network manager icon, go to VPN Connections and select the created VPN.

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OpenVPN Manual for Android

OpenVPN Installation, Configuration and Execution Manual on Android

Introduction:

This document will present, step by step, the installation, configuration and execution of OpenVPN on Android operating systems.

Preparation:

Before starting the installation and configuration of OpenVPN on your SmartPhone, you should check the following point:

- Have an account for the configuration of OpenVPN, which is requested from the Management Office of the Computer Network

Installation:

To download OpenVPN just go to the Google Store and download the following application “[OpenVPN Connect – Fast & Saf SSL VPN Client](#)”.

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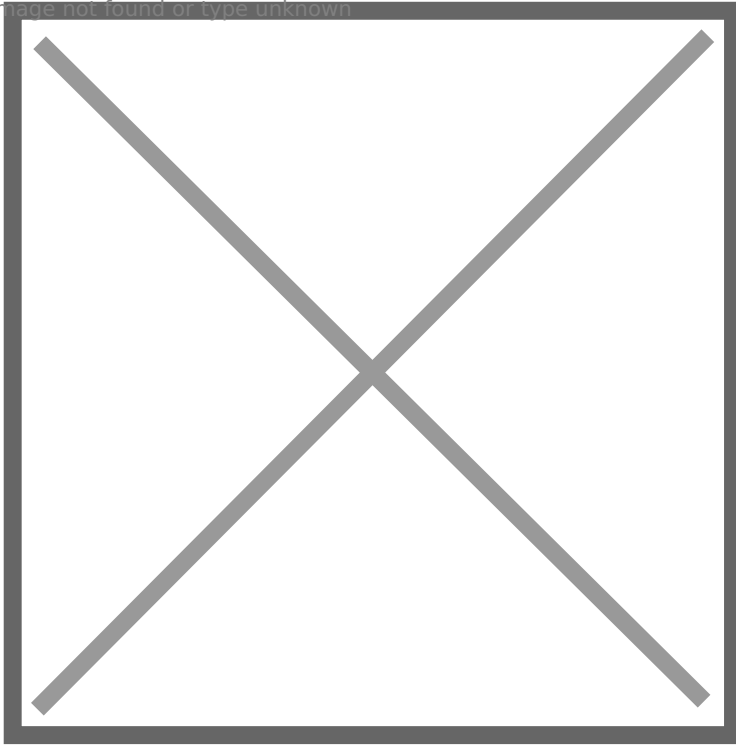
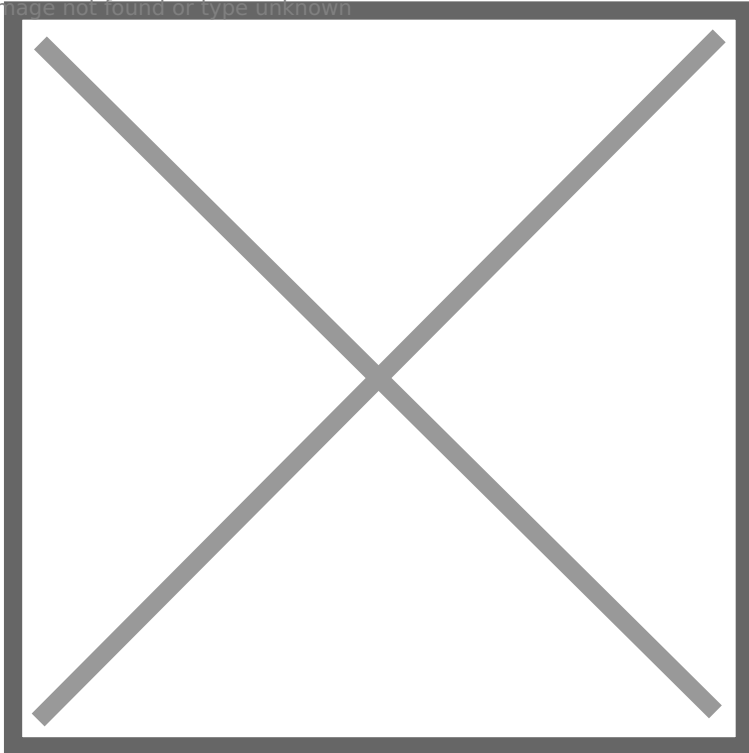


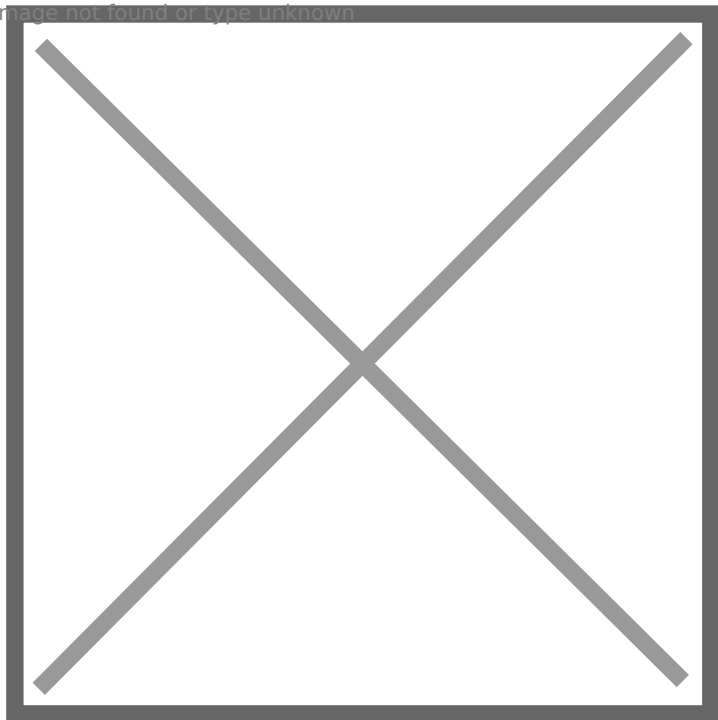
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Configuration and Execution:

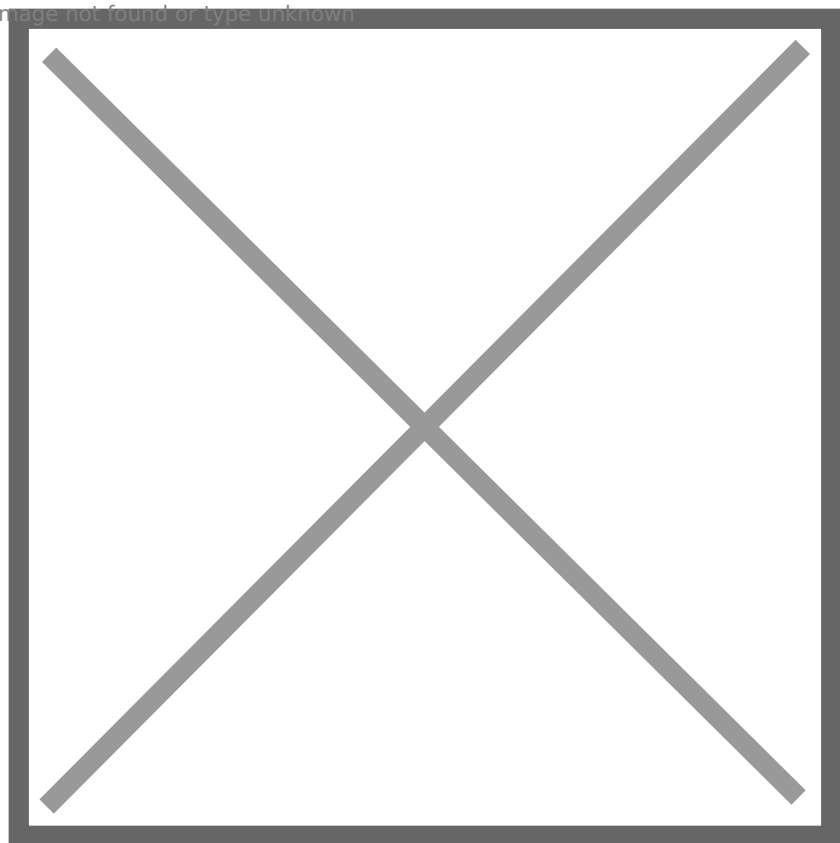
For your configuration, you must download the [ISR.ovpn](#) file. Then go to “OVPN Profile”.

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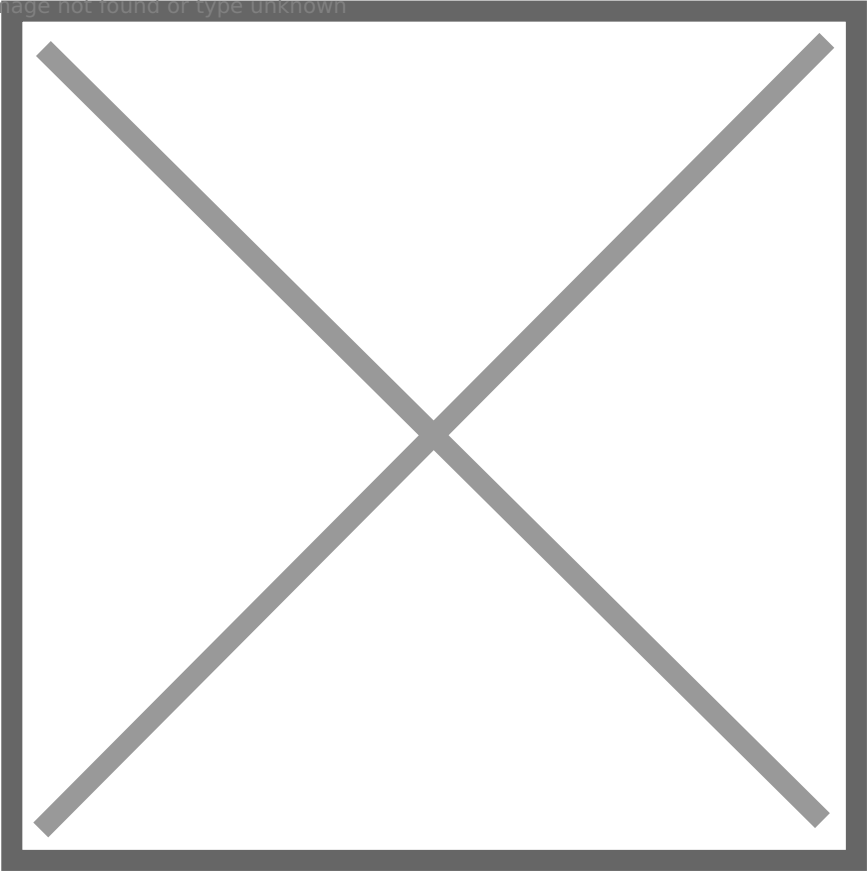
Go to the file directory, select it and do "Import".

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To finish, you will have to insert the credentials obtained by the Management Office of the Computer Network and make "ADD".

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OpenVPN Manual for iOS

OpenVPN Installation, Configuration and Execution Manual on iOS

Introduction:

This document will present, step by step, the installation, configuration and execution of OpenVPN on the iOS operating system.

Preparation:

Before starting the installation and configuration of OpenVPN on your iPhone, you should check the following point:

- Have an account for configuring the VPN, which is requested at the Computer Network Management office.

Installation:

To download OpenVPN just go to the AppStore and download the following application "[OpenVPN Connect](#)".

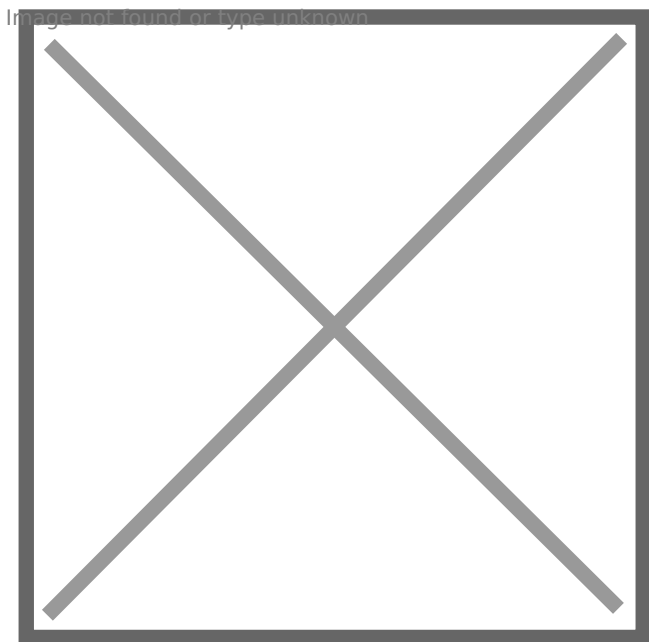


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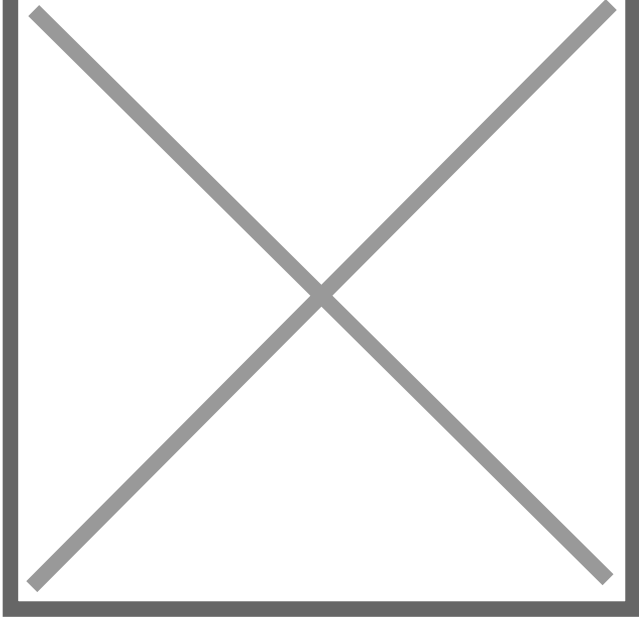
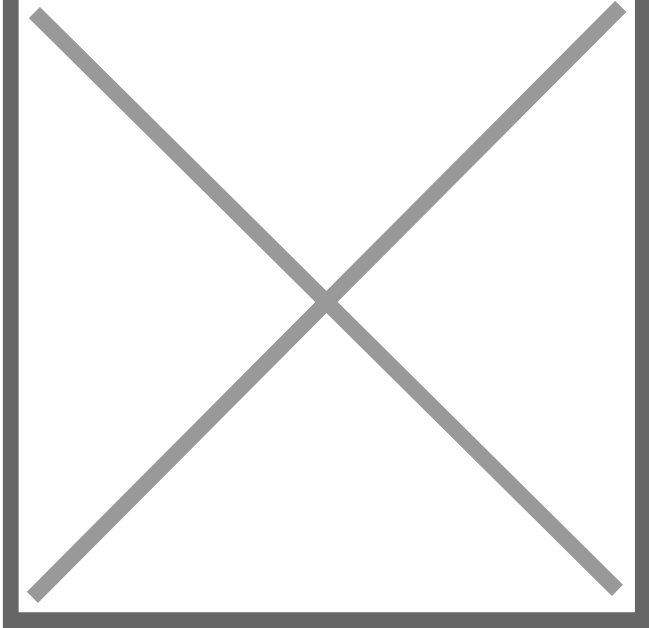


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Configuration:

For your configuration, you must download the [ISR.ovpn](#). Then, open the application, select the “OVPN Profile” option and accept the policies.

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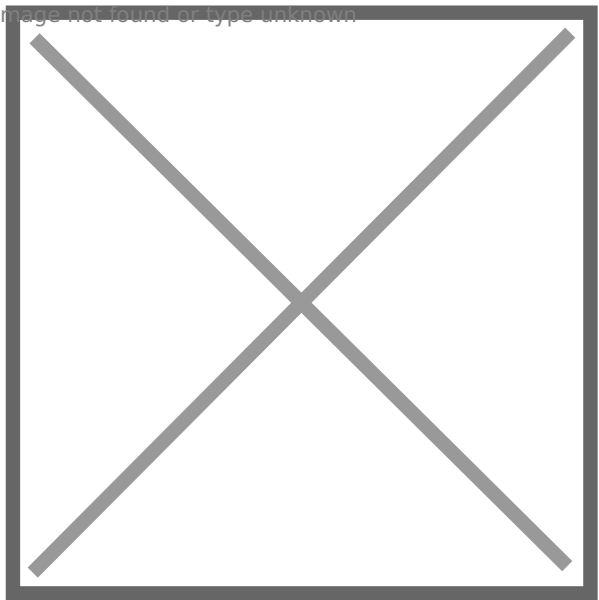
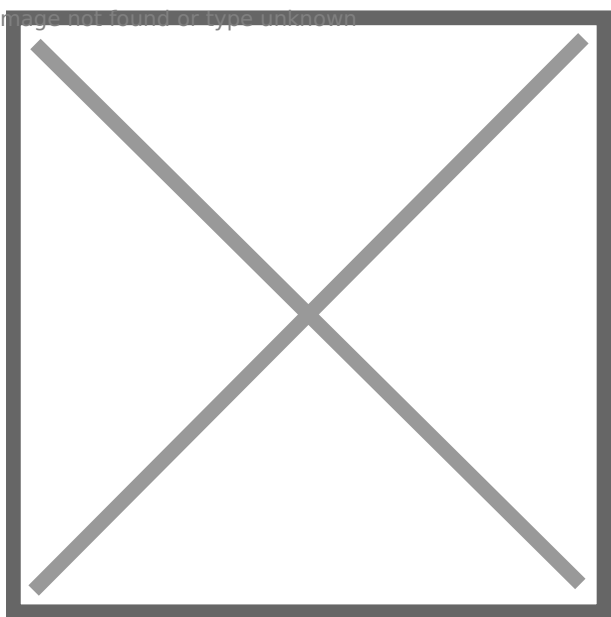


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To add the ovpn file, just open the Files application, go to the downloaded file's directory and open it with OpenVPN.

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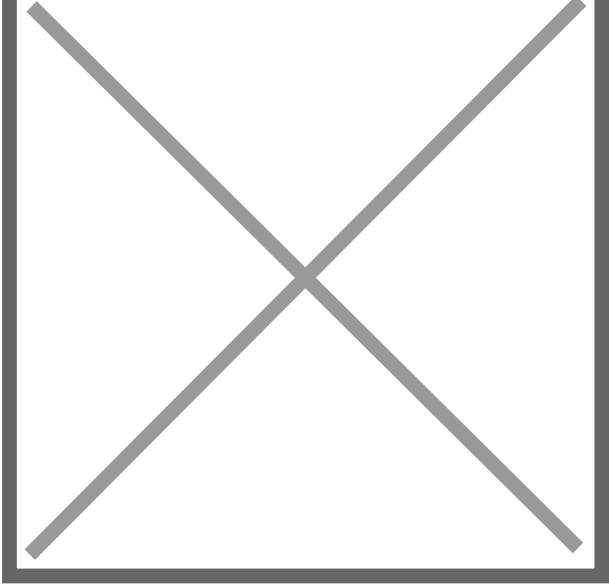


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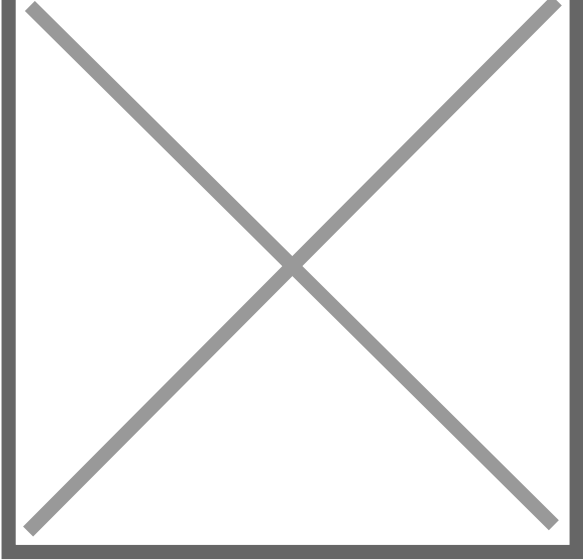
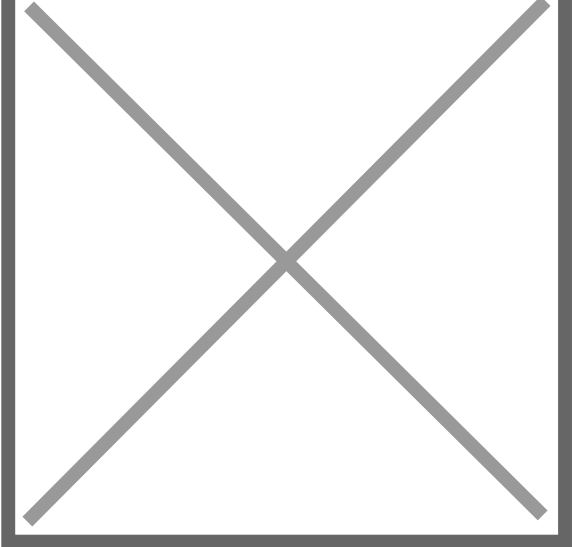
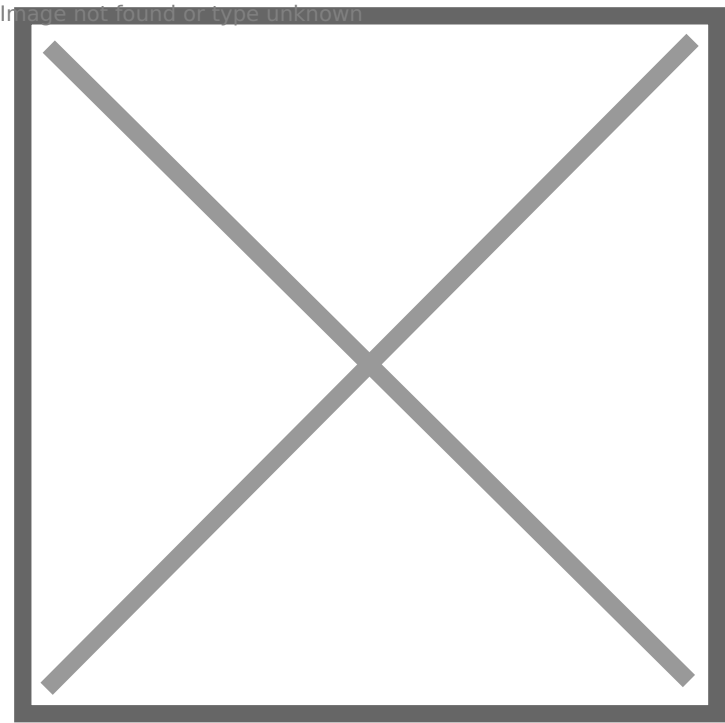
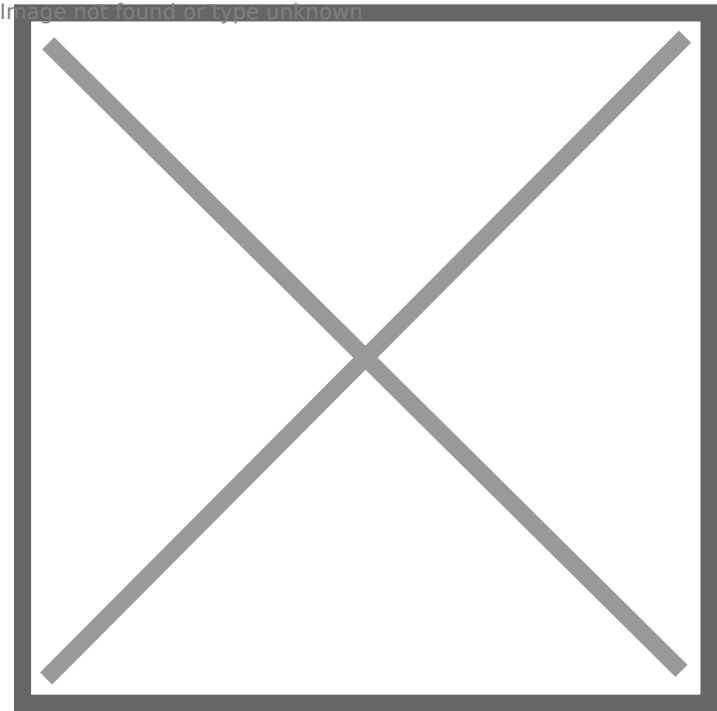


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Execution:

Finally, select “ADD” and enter the credentials and select “ADD” again. If you want, you can change the Title to an easier name to identify to the ISR VPN.



Wi-Fi

Wireless Network

In addition to the EDUROAM network, ISR has other wireless networks of its own, within the ISR's IT infrastructure, which cover most laboratories, providing addressing and local resources.

For this purpose, there are 5 Access Points installed at strategic points in the building.

ISR

The ISR network provides addressing and local resources, in the 10.231.0.0 / 16 range.

Regarding technical configurations, the settings to be used for network access are as follows:

Definition	Description	Value to be configured
Wireless Type	Types of wireless networking technology that supports wireless networking	802.11 a/b/g/n Bandwidth up to 450Mbps per space Support for 2.4GHz and 5GHz frequencies
SSID	Wireless Network Name	ISR-Coimbra
Wireless Protection	Wireless Encryption System Type	WPA 2 (AES/CCMP, Dynamic)
Authentication (802.1X)	Method of authenticating a device / user to a protected network	EAP-PEAP + MSCHAPv2
Certificate Validation	Digital Certificate Verification and Validation System	Do not check / disable
Login	Login of the user who wants to connect to the network	ISR.UC.PT domain email address (e.g., user@isr.uc.pt)
Password	Password of the user who wants to connect to the network	Password of the respective account
Anonymous Identity	Anonymous user login, for the first encryption layer	anonymous@isr.uc.pt

In case of difficulty, you can contact the Helpdesk service, through the usual channels.

ISR-Robots

The ISR-Robots network provides addressing and local resources, in the 10.234.0.0 / 16 range. This network should be used in situations where it is intended to test with devices without 802.1X support, such as robots, appliances, etc.

Regarding technical configurations, the settings to be used for network access are as follows:

Definition	Description	Value to be configured
Wireless Type	Types of wireless networking technology that supports wireless networking	802.11 a/b/g e 802.11 a/b/g/n/ac Bandwidth up to 450Mbps per space Support for 2.4GHz and 5GHz frequencies
SSID	Wireless Network Name	isr-robots
Wireless Protection	Wireless Encryption System Type	WPA 2 com validação de MAC Address
Authentication	Method of authenticating a device / user to a protected network	To access this network, you must request it through this helpdesk@isr.uc.pt

In case of difficulty, they can contact the Helpdesk service, through the usual channels(helpdesk@isr.uc.pt).

EDUROAM

The UC wireless network is part of the Eduroam network and can be used by all teachers, students and employees who have an email account at a UC organization or any other institution that has joined the Eduroam network. Likewise, UC users, when visiting Eduroam institutions, in Portugal or abroad, will be able to access their wireless networks without any change in the configuration of their equipment.

The EDUROAM network is available in the main public areas of DEEC.

The use of the UC wireless network is regulated by the UC network, RCTS network usage rules and applicable law.

More information:

[Eduroam wireless network at UC](#)

IMPORTANT TECHNICAL NOTE: If you use an authentication account for the @ isr.uc.pt domains, you must disable the option to check encryption certificates.

Configuration support files for Mac OS X and iOS devices

[Wireless ISR network with account @ isr.uc.pt](#)

[EDUROAM Wireless Network with account @ isr.uc.pt](#)