# Template:Connecting to the office network remotely from your home via VPN (OpenVPN)

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## Configuration overview and prerequisites

#### **Prerequisites:**

- One RUTxxx router of any type (In this article RUTX11 will be used)
- A Public Static or Public Dynamic IP addresses
- At least one end device with Windows 10

The topology above depicts the OpenVPN scheme. - The router with the Public IP address (*RUTX11*) acts as the **OpenVPN server** and the **Windows 10 device** acts as a **client**. OpenVPN connects the networks of **RUTX11** and **Windows 10 clients**.

When the scheme is realized, home workers will be able to reach the corporation's internal network with all internal systems, allowing working from home to be possible.

### Configuring OpenVPN from the client-side

#### **TLS Certificates**

- Firstly generate TLS certificates on your Windows Computer, you can find instructions on how to do it here.
- After you've successfully generated TLS certificates you will need to create a **.ovpn** file for storing client configurations. Simply open any text editor and follow <u>this</u> tutorial.
- Important: in your .ovpn file certificates you will need to copy are:
- In <ca> </ca> paste whole certificate from /easy-rsa/pki/ca.crt
- IN <cert></cert> paste whole certificate from /easy-rsa/pki/issued/"your\_client\_name".crt
- And in the last section <key></key> paste whole private key from /easy-rsa/pki/private/"your client name".key
- One more thing to change in your .ovpn file is to change the IP address to your router's **public** IP address



 Now you can Save and Import your .ovpn file to the OpenVPN client by right-clicking on OpenVPN GUI in the hidden icons tray and navigating to Import → Import File.



Do not connect yet to your VPN client, we still have to configure the server.

## Configuring OpenVPN from the server-side

Login to the router's WebUI and navigate to the Services → VPN → OPENVPN page and do the following: 1. Enter a custom configuration name × 2. Select Role: Server. 3. Click the Add button. 4. Click the Edit button next to the newly created OpenVPN instance. 1. Enable OpenVPN instance. 2. Change Authentication to TLS 3. Change Encryption to AES-256-GCM 256 4. Change Keep alive to 5 105. In Virtual network IP address type: × 192.168.15.0 6. Virtual network netmask select: 255.255.255.0 7. Leave everything else default 1. The last thing left to do is to upload Certificates, firstly upload Certificate authority (ca.crt file) 2. Upload Server certificate (server.crt file) × 3. Upload Server key (server.key file) 4. Now upload Diffie Hellman parameters (dh.pem file) 5. Press SAVE & APPLY button

## Connecting to the OpenVPN server

If everything was configurated correctly your OpenVPN server should be **Active**:

Now let's try to connect from a **client** to the **server**.

On your Windows machine right-click on **OpenVPN GUI** → Select your client → Press Connect



If the connection was successful then you will get the following notification:



To test if the connection is working properly on your Windows machine open **CMD** and type ping **192.168.15.1** (server's VPN IP) you should get a similar response:

