Connecting to the office network remotely from your home via VPN (OpenVPN) using RUTX

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Configuration overview and prerequisites

Prerequisites:

- One RUTX router of any type
- 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 this 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 10 5. 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:

