OPENVPN CONFIGURATION SETUP FOR ETRACS REMOTE ACCESS

*A step-by-step guide for **eTRACS Remote Access** via **OpenVPN** configuration.*

Pre-requisite requirements:

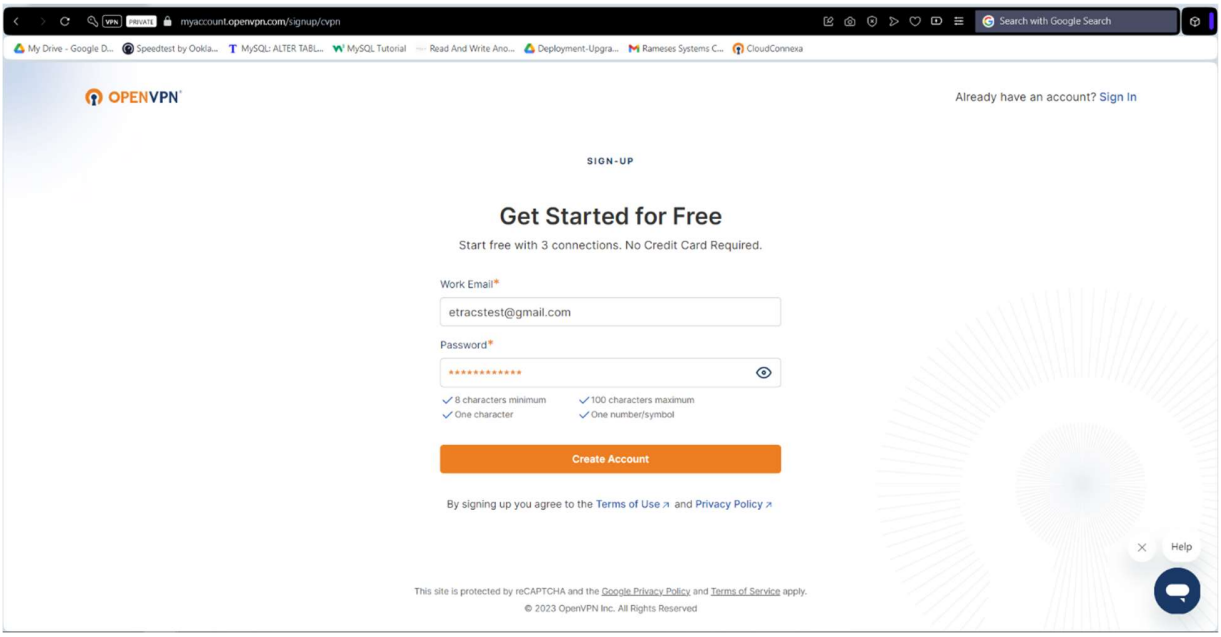
- Stable Internet Connection
- Gmail Account

PART ONE: OpenVPN Configuration

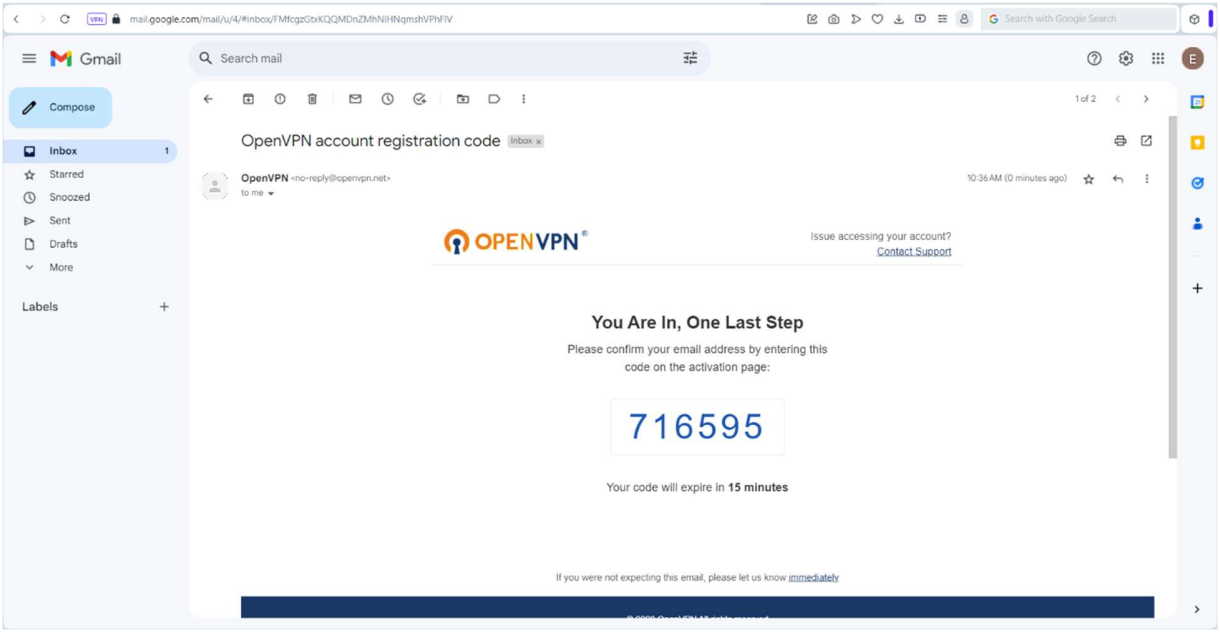
1. Create a separate Gmail account intended for OpenVPN.

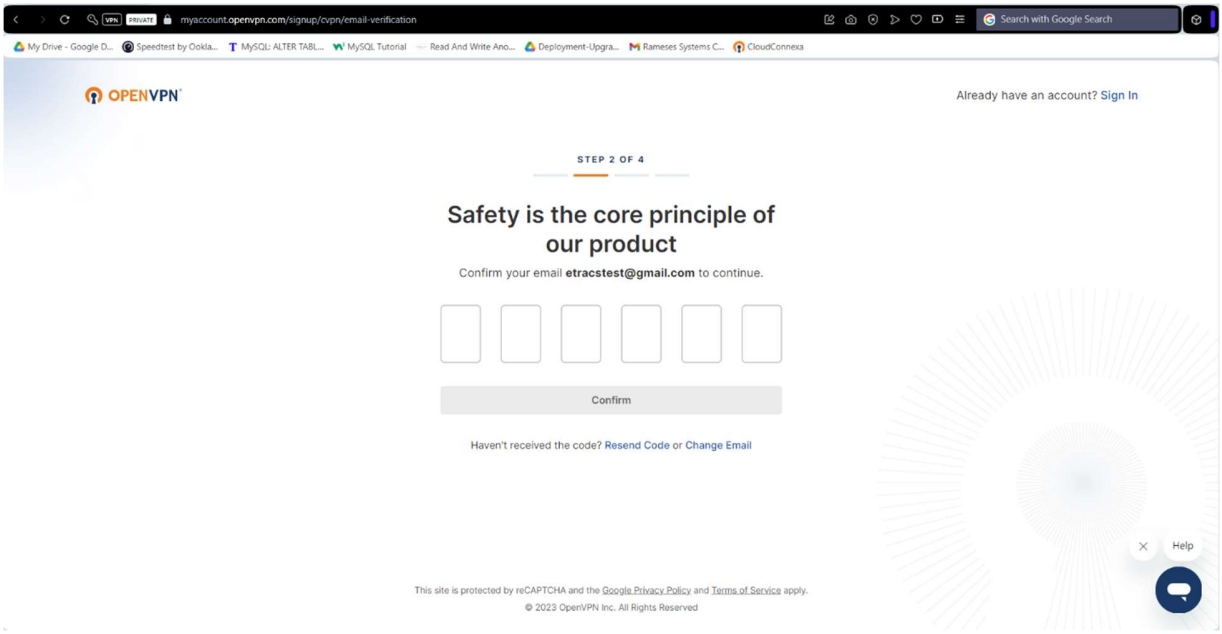
2. Create an account **in OpenVPN – CloudConnexa**. Signup using the newly created Gmail account.

   https://myaccount.openvpn.com/signup/cvpn

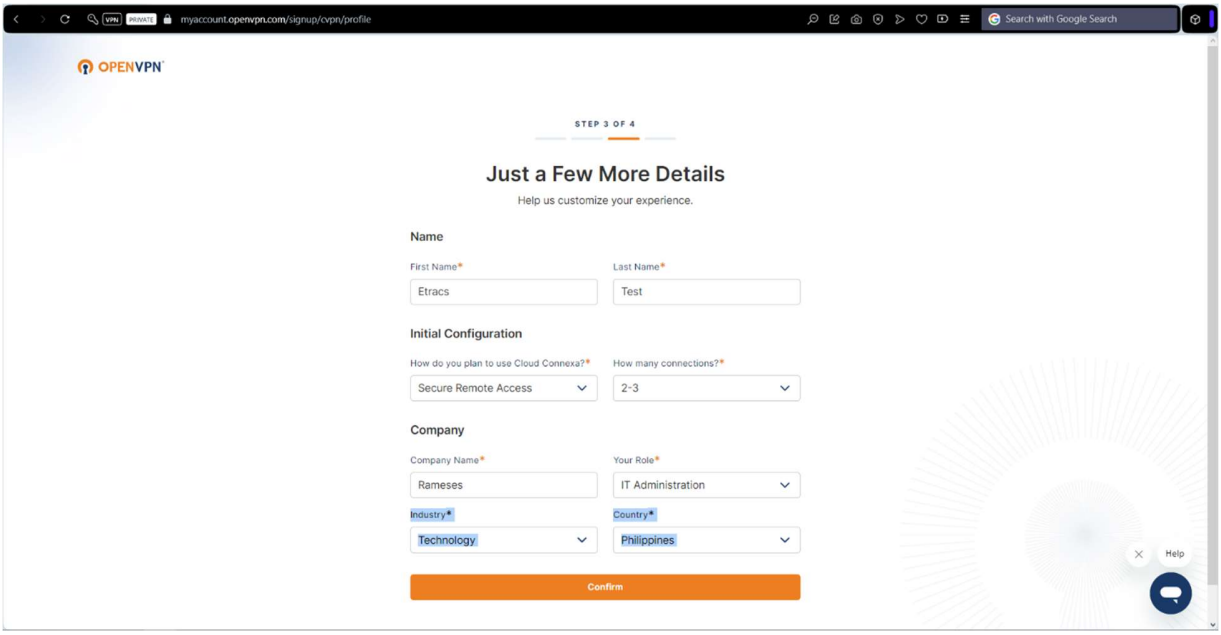


3. Open your Gmail Account, copy the OTP sent by OpenVPN and confirm your email to continue with the signup process.



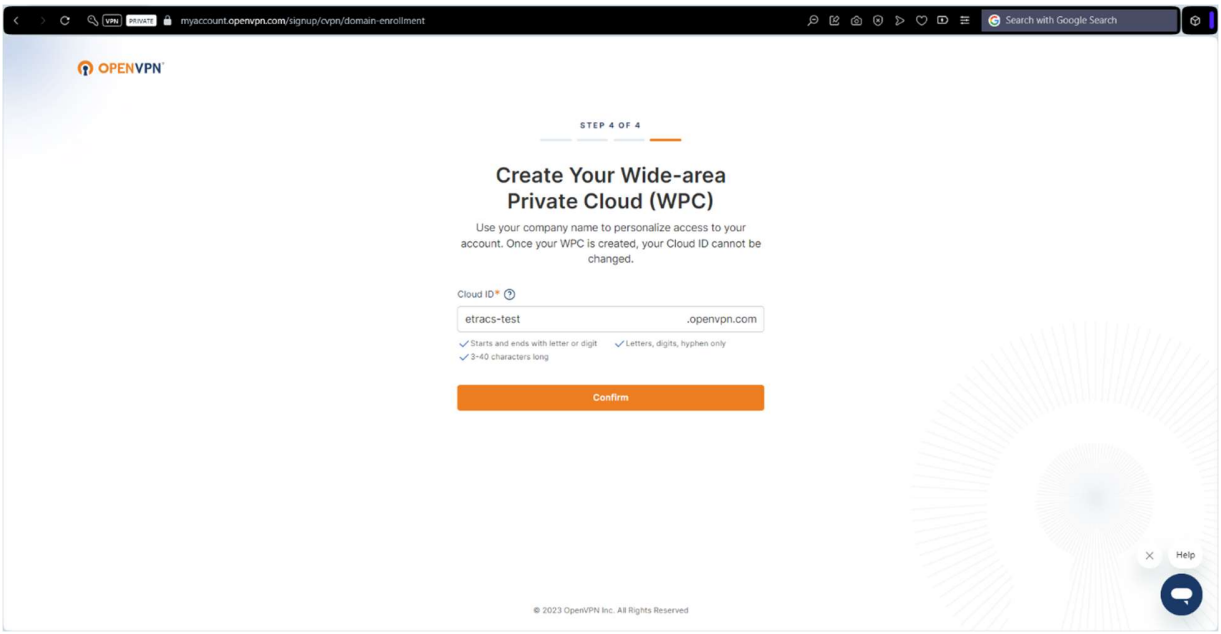


4. Continue with the signup process and fill-out the required fields accordingly.

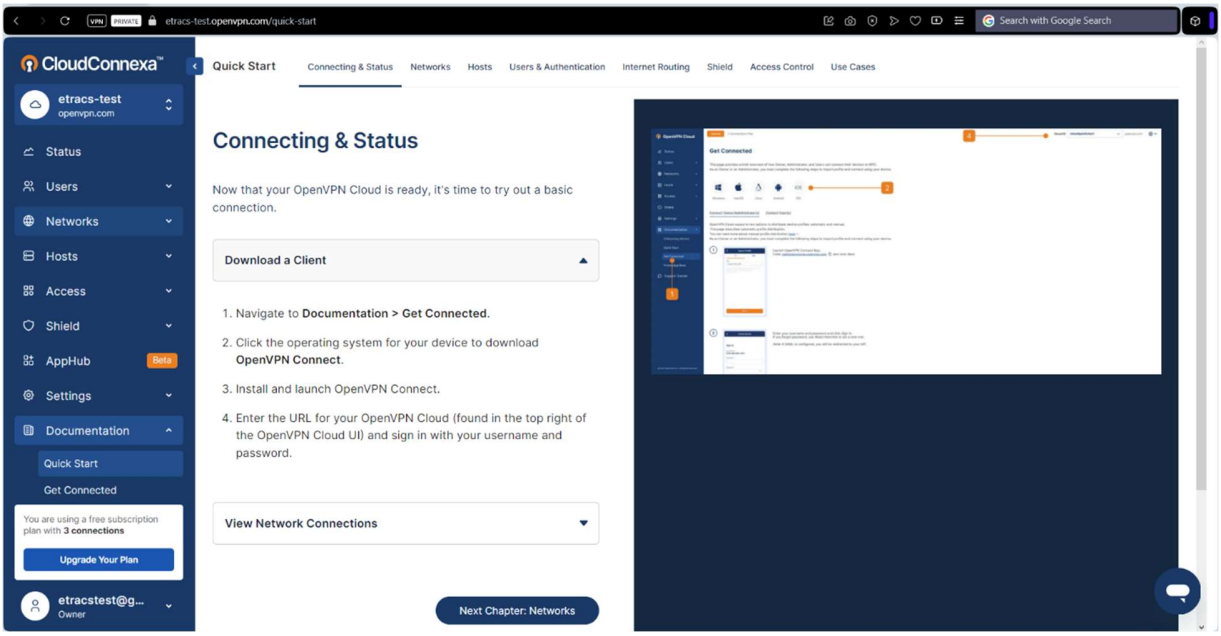


5. Create your Cloud ID. This will be the URL for your OpenVPN - CloudConnexa Account. Ideally, use your filipizen group naming convention.

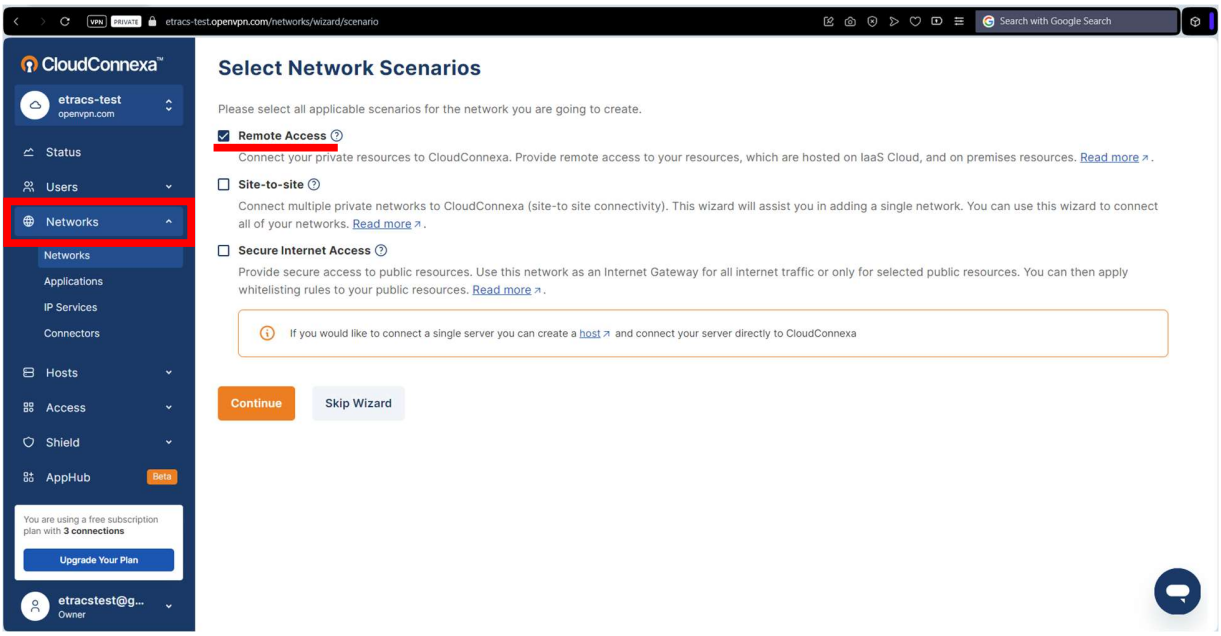
Ex: **bohol-tagbilaran.openvpn.com**



6. The Quick Start Page will appear after creating your OpenVPN – CloudConnexa Cloud ID.



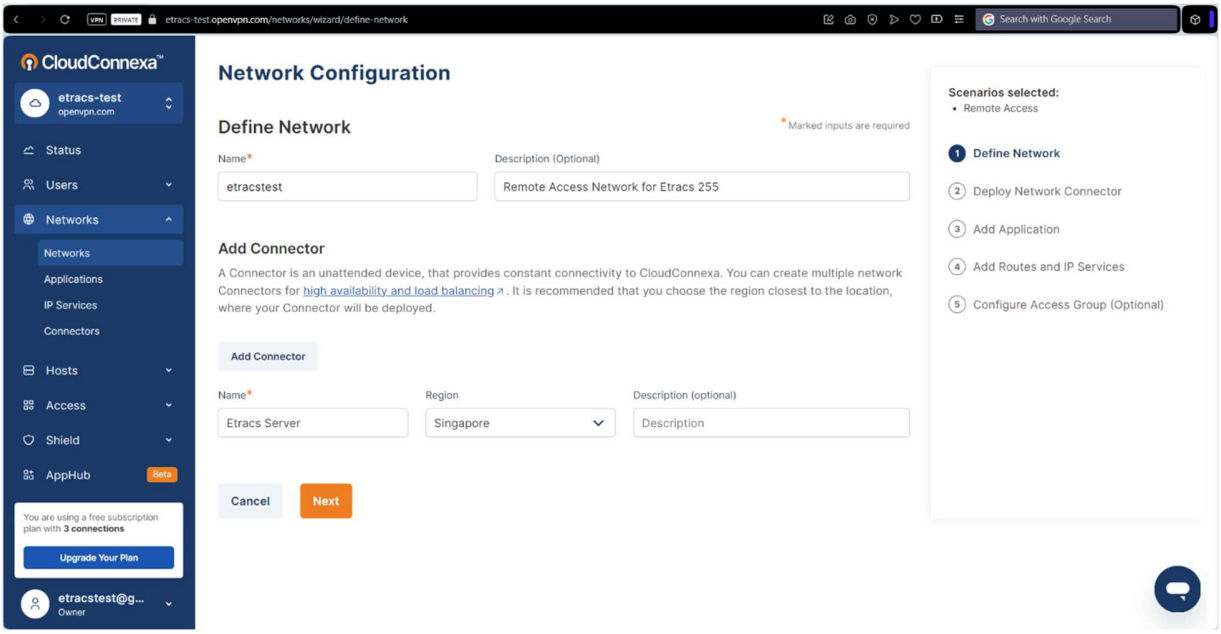
7. In the Left Side Panel, navigate to the **Networks** Option. Select **Remote Access** in Select Network Scenarios and Click **Continue**.



8. Define Network

Choose a name for your Virtual Network. You may also include a short description for your Virtual Network.

Ex: **Etracs - Tagbilaran**



Add Connector

Set a name for your connector. The connector will provide constant connectivity from your server to CloudConnexa. In this setup, the connector will be installed on the etracs server machine to maximize efficiency.

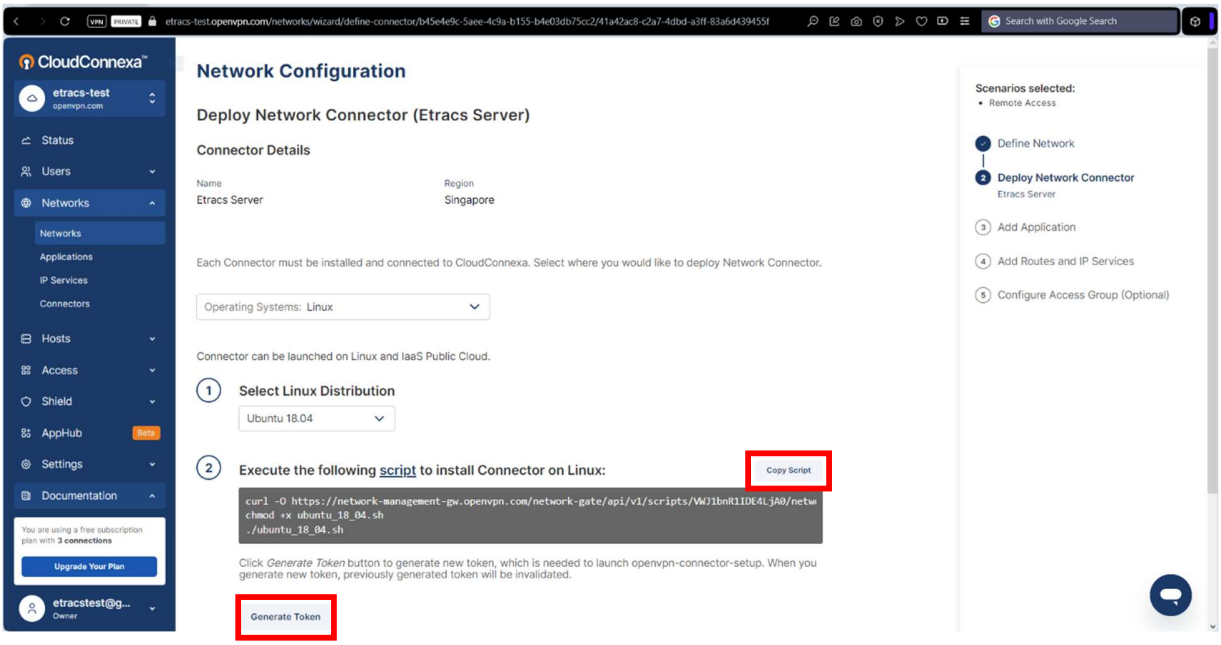
Ex: **Etracs Server**

Choose **Singapore** as your region. You may also add a short description for your connector to indicate the details of the server machine, the connector was installed.

9. Deploying Network Connector (Etracs Server)

Select the Operating System on which your connector will be installed. In a Standalone Linux and a Docker Environment, we will be dealing with **Linux Operating System**.

Select the Appropriate Linux Distribution from the drop-down list.



10. Login to your etracs server via **Git Bash** or **Terminal.**

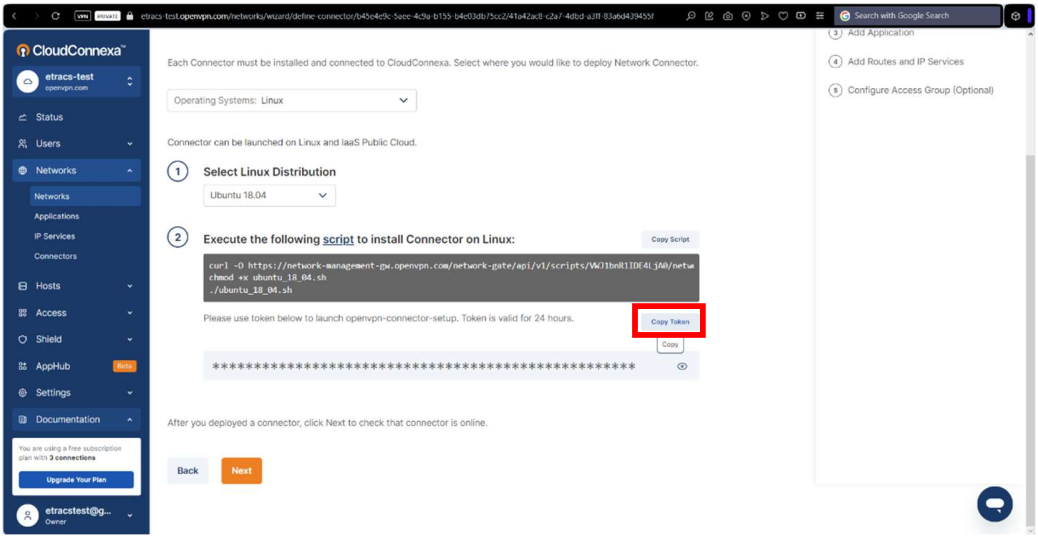
Execute the generated script to install Connector on your Linux Server.

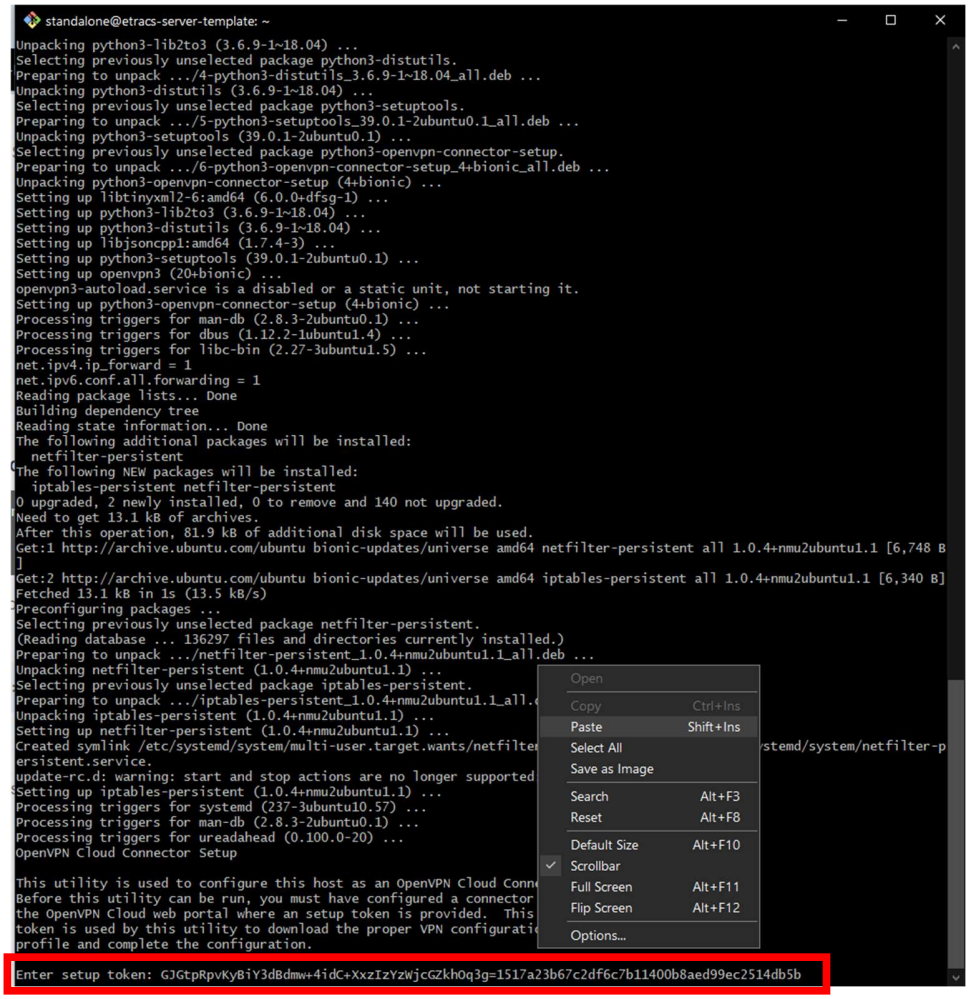
You may click on the **Copy Script** button on the upper right portion of the script to copy the script directly on your clipboard.

Wait for the download and installation to finish.

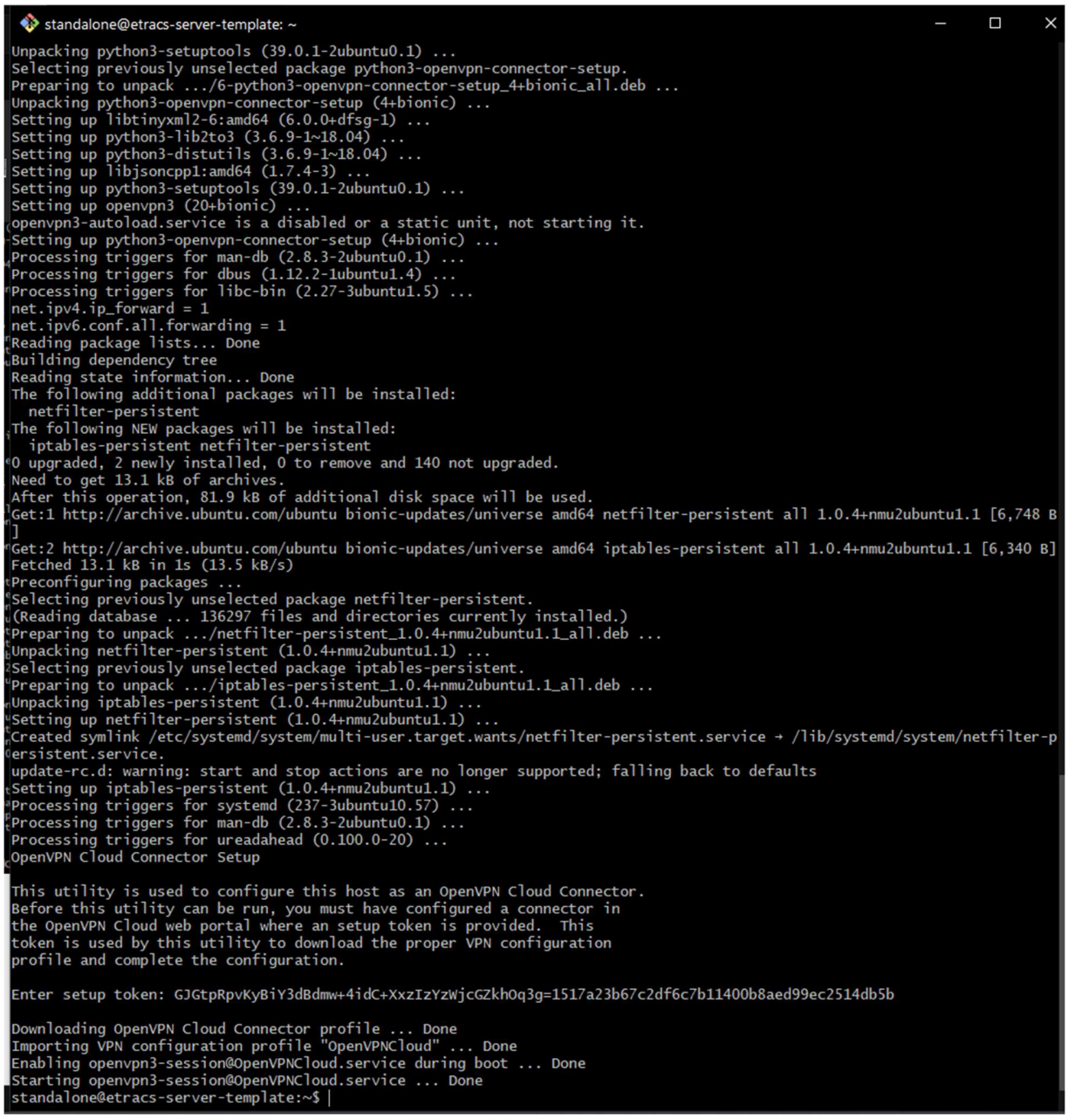
Press **Y** then **ENTER** when prompted to continue the installation of the OpenVPN Connector.

11. Go back to the OpenVPN – CloudConnexa Network Configuration page in your browser and click on the **Generate Token** button. Click on the **Copy Token** button on the right portion to copy the token and paste it on your **Git Bash** or **Terminal**.



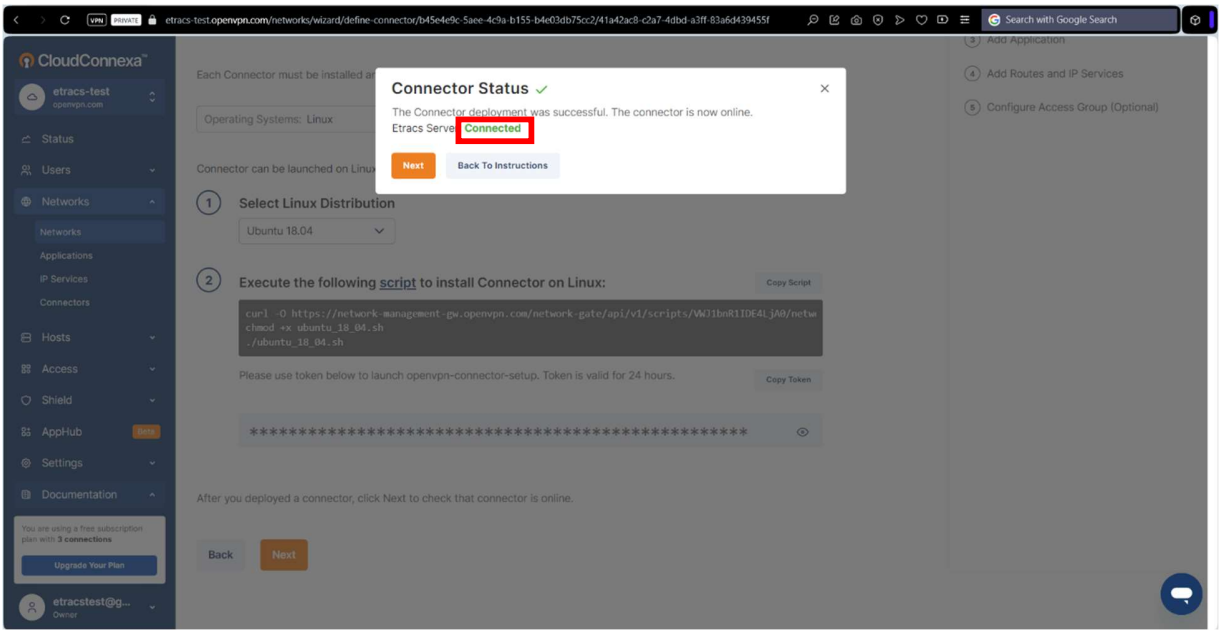


12. Wait until configuration is finished.



13. After the Connector has been successfully installed in the Linux Environment, go back to the **Network Configuration** page on your browser and click on **Next**. A pop-up dialog box will appear showing the Connector Status. If the Connector is already **Connected**, you may now proceed by clicking on **Next.**

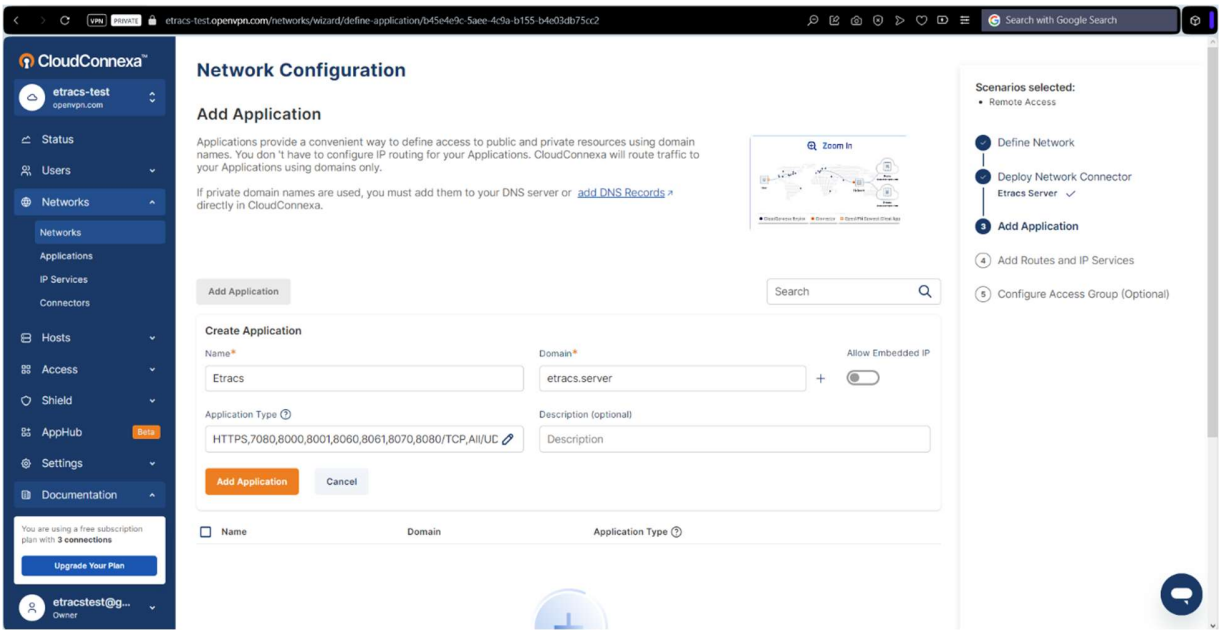
Otherwise, if the Connector Status is **Offline**, close the pop-up dialog box and wait for a few seconds before clicking on **Next**, again.



14. Add Application

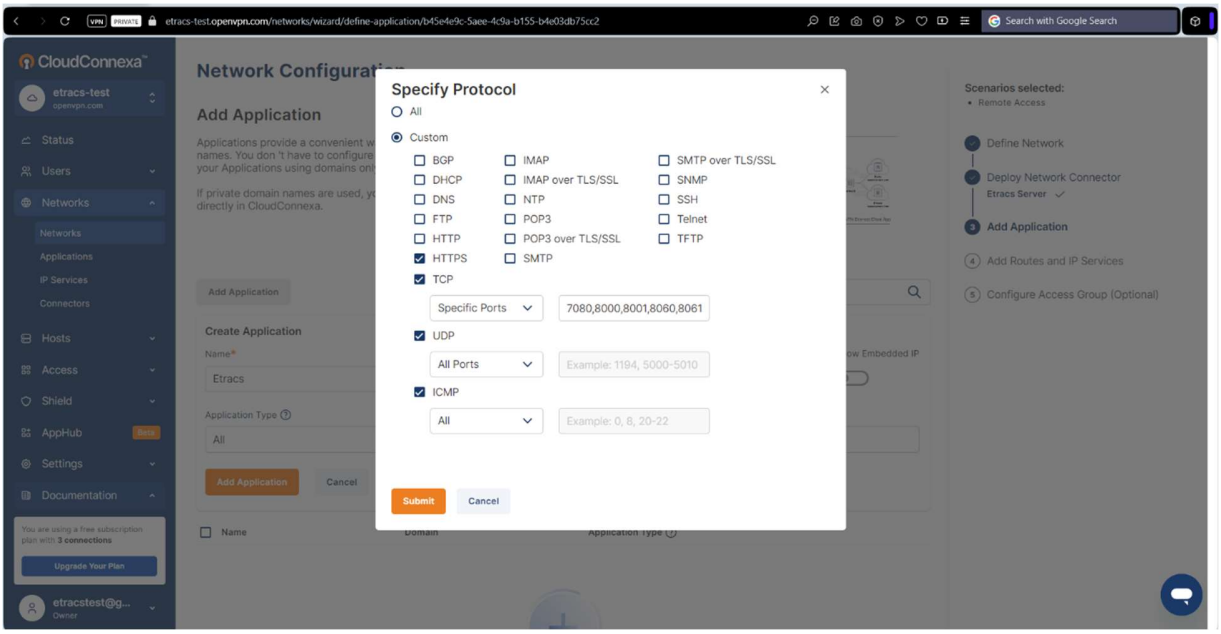
Create an application named **Etracs** and set a domain to access the application in the future. The domain will be used to access the application (etracs server) instead of using its IP address.

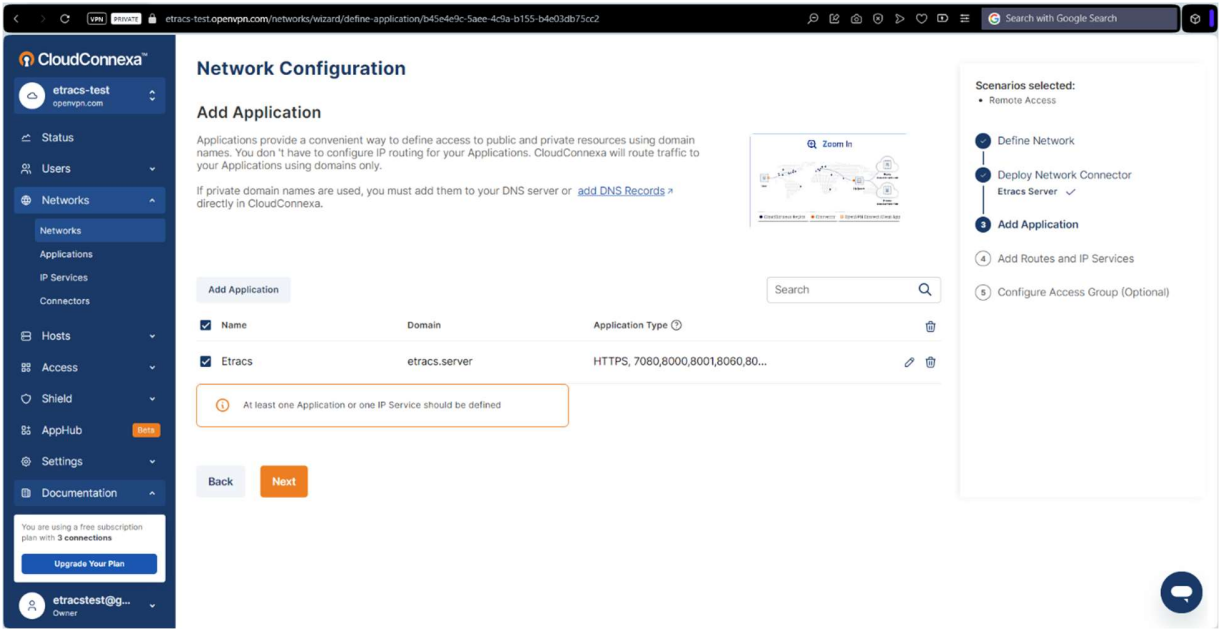
Ex: **etracs.server**



In the **Application Type** field, select the following options to specify the protocols to be used.
For **TCP**, these are the ports to be used for etracs: ***7080,8000,8001,8060,8061,8070,8080,8095.***

You can add a short description to provide details of your Application/Etracs Server. Once done, click **Add Application** to proceed.



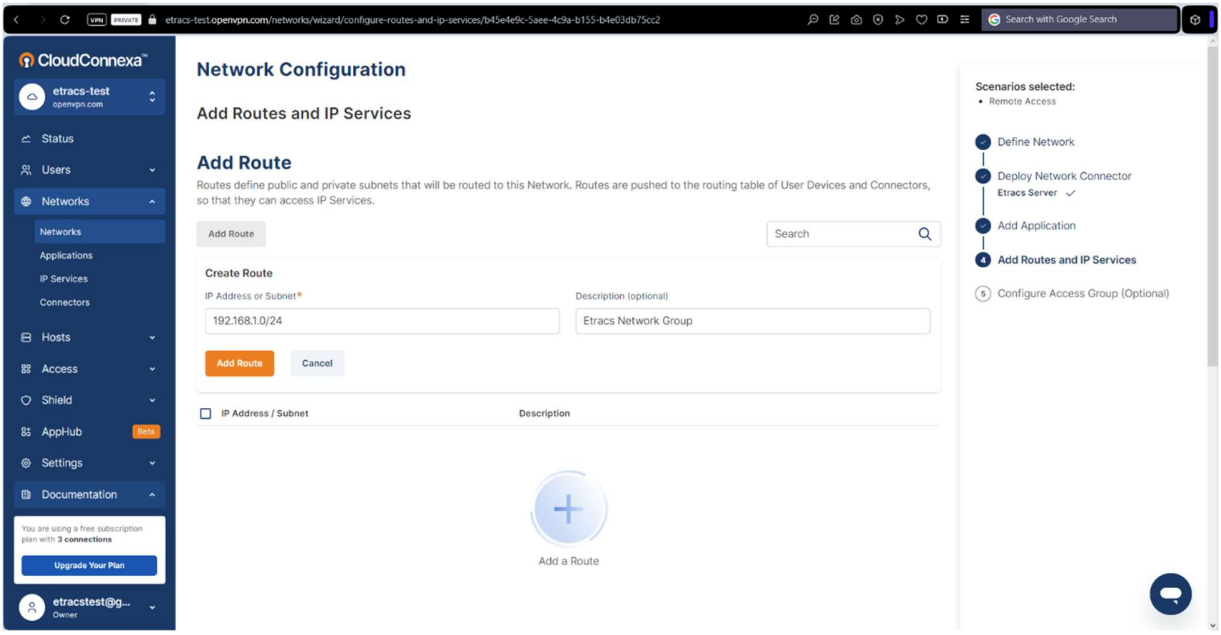


Verify the Application created. You can edit the Application configurations using the pencil tool on the right portion.

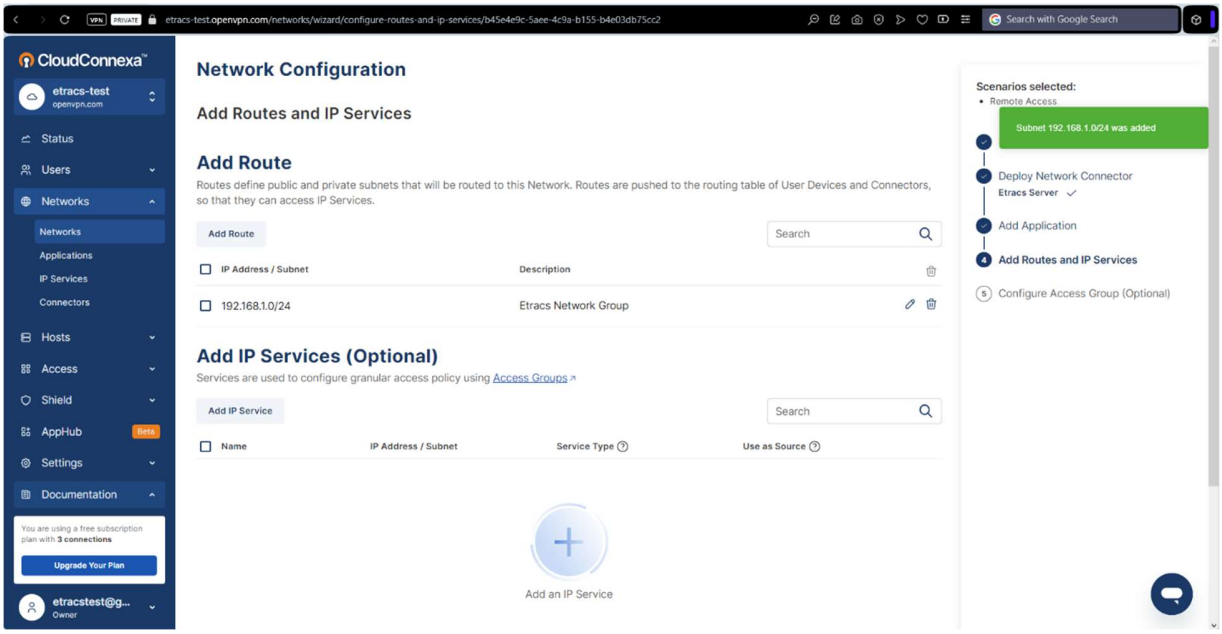
15. Add Route

Enter the IP address of the etracs server. CloudConnexa will automatically convert your input IP Address into the Subnet/Network Group of your server.

Ex: **192.168.1.0/24**



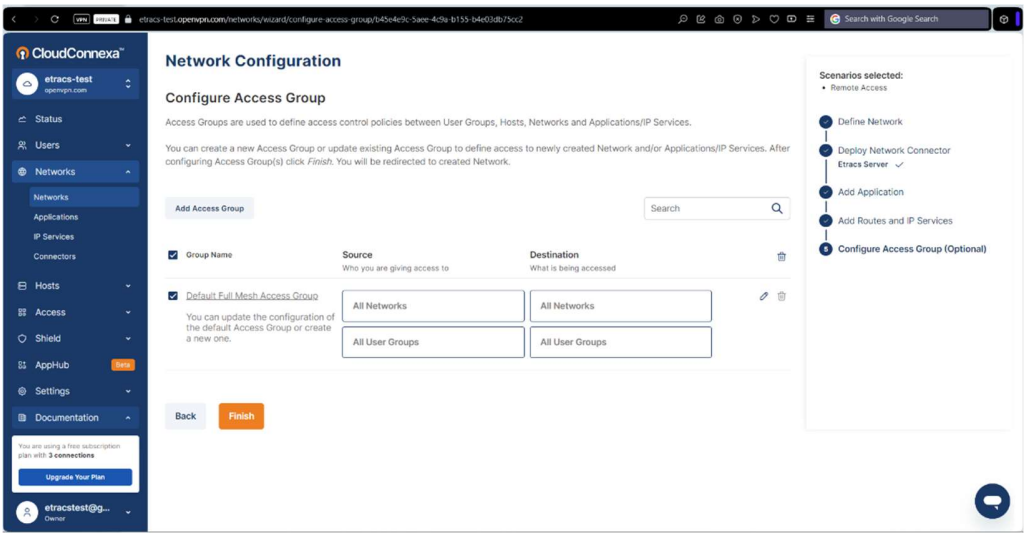
You can add a short description to specify the details of the IP Address. Once done, click on the **Add Route** button to create the route. Verify that the Subnet was added into the Routes list.



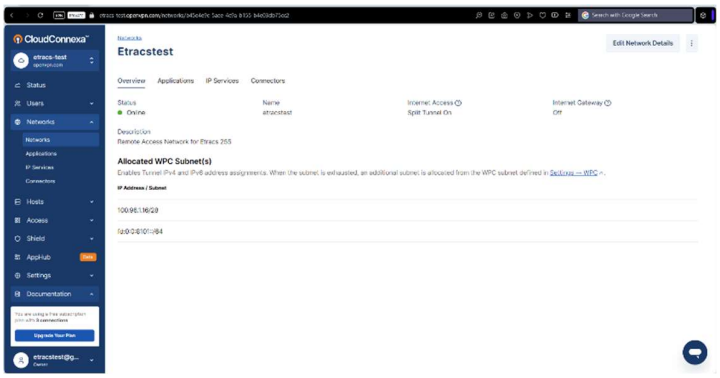
16. **Configure Access Group**

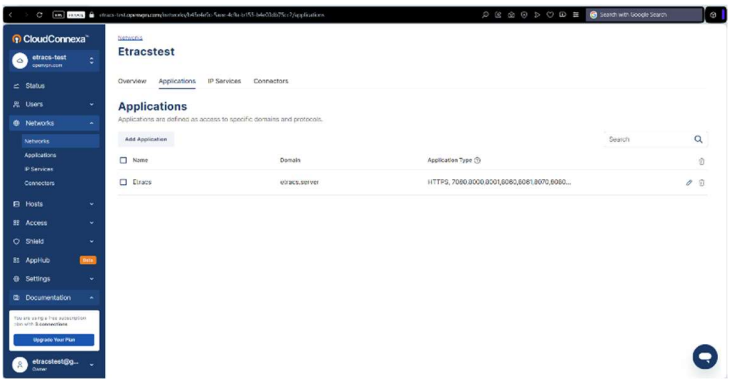
Select the **Default Full Mesh Access Group** and click on **Finish** to proceed.

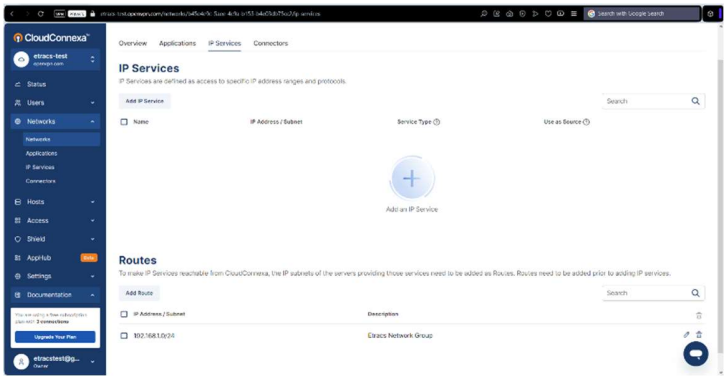
Alternatively, you may also create an access group for specific users.

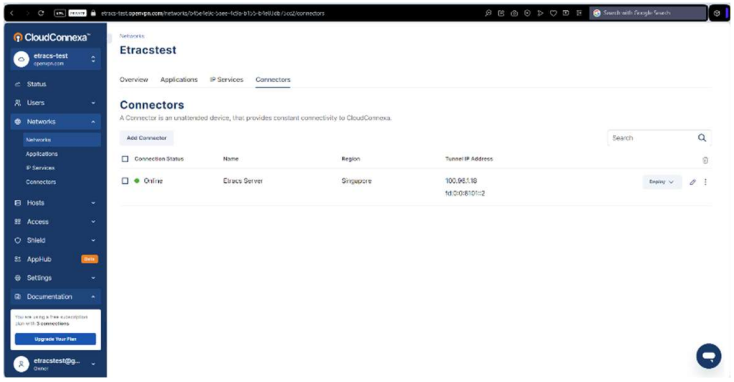


17. Verify the configurations.

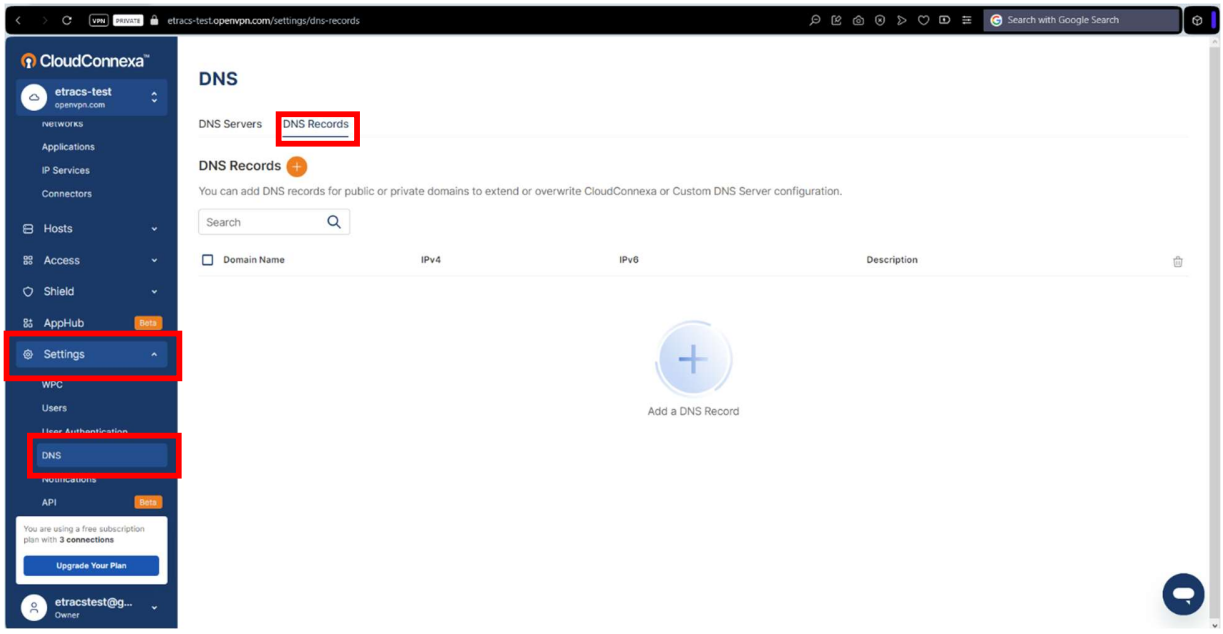








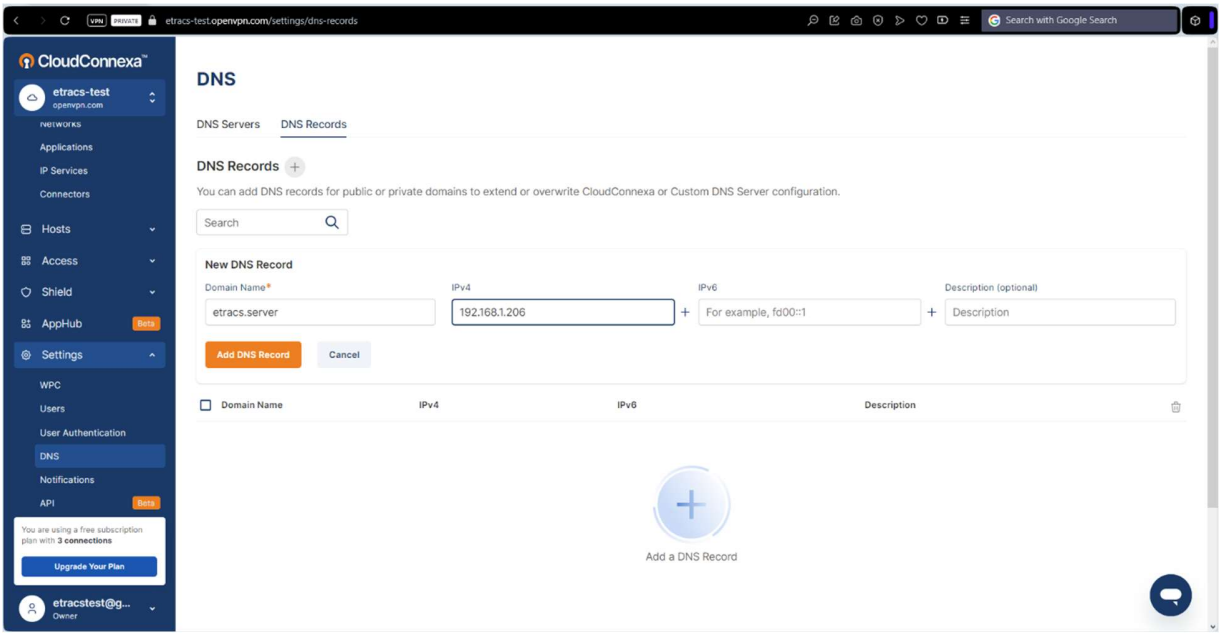
18. After verifying the configurations, on the left side pane, navigate to the **DNS** tab under the **Settings** Option.



19. Click on **DNS Records** and a DNS Record by clicking on the **+** Button.

    Input the domain name set for the etracs application and the IP address of the etracs server machine.

    Click on the **Add DNS Record** button.



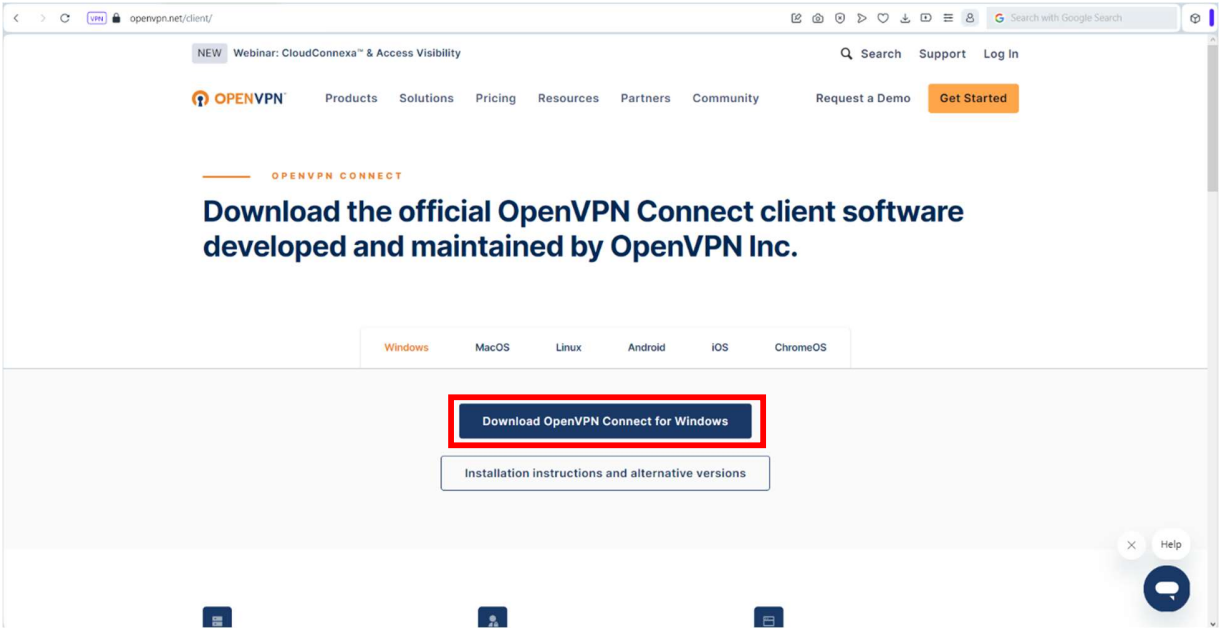
Verify that the DNS Record was added with the correct domain name and IPv4 Address.

PART TWO: Client Installation

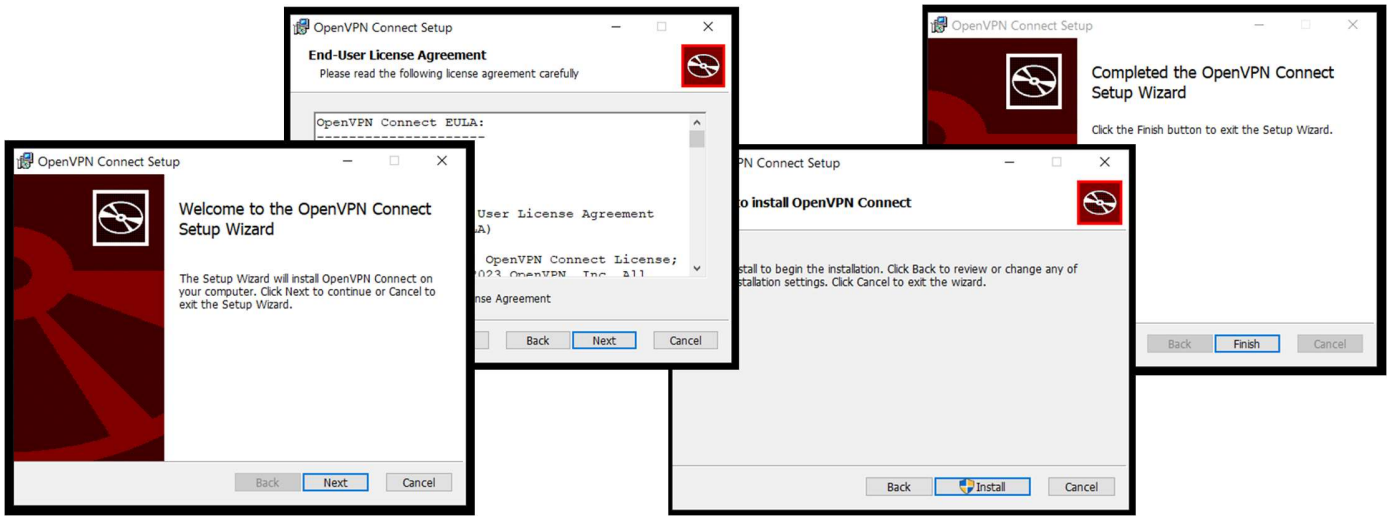
1. **Download OpenVPN Connect Client Software**

   Click on **Download OpenVPN Connect for Windows** button to download the Client software for Windows or choose an alternative version for another operating system/windows version.

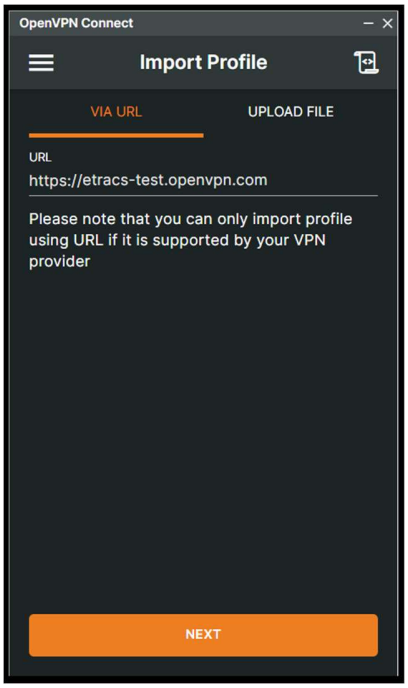
   https://openvpn.net/client/

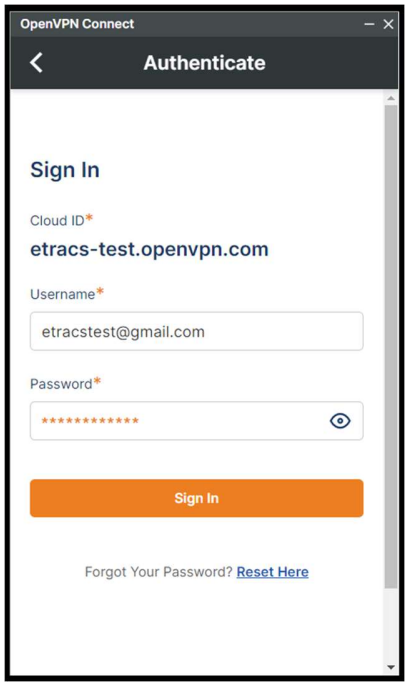


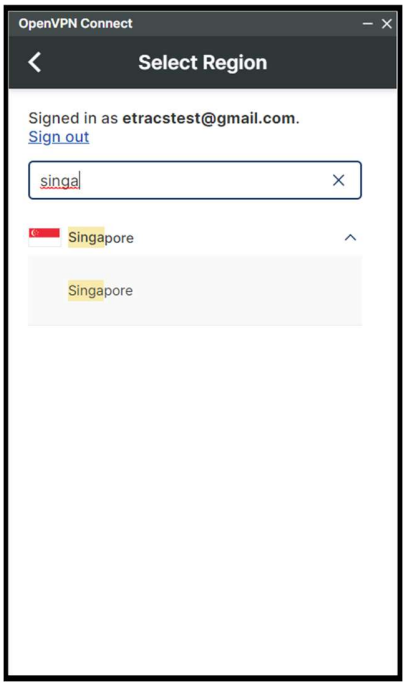
2. Complete the Installation Process.



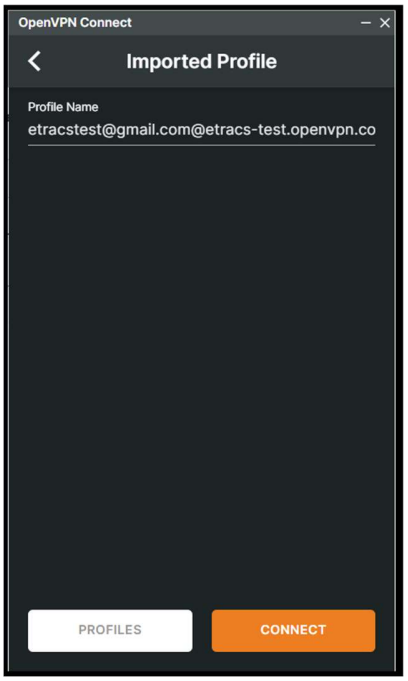
3. Run the OpenVPN Connect Client Application. Input the Cloud ID / URL you created earlier and click on the **Next** button. Sign in into the OpenVPN and select **SINGAPORE** as region.

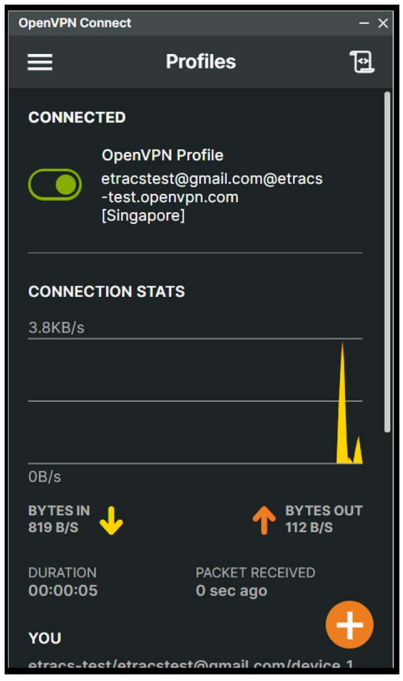






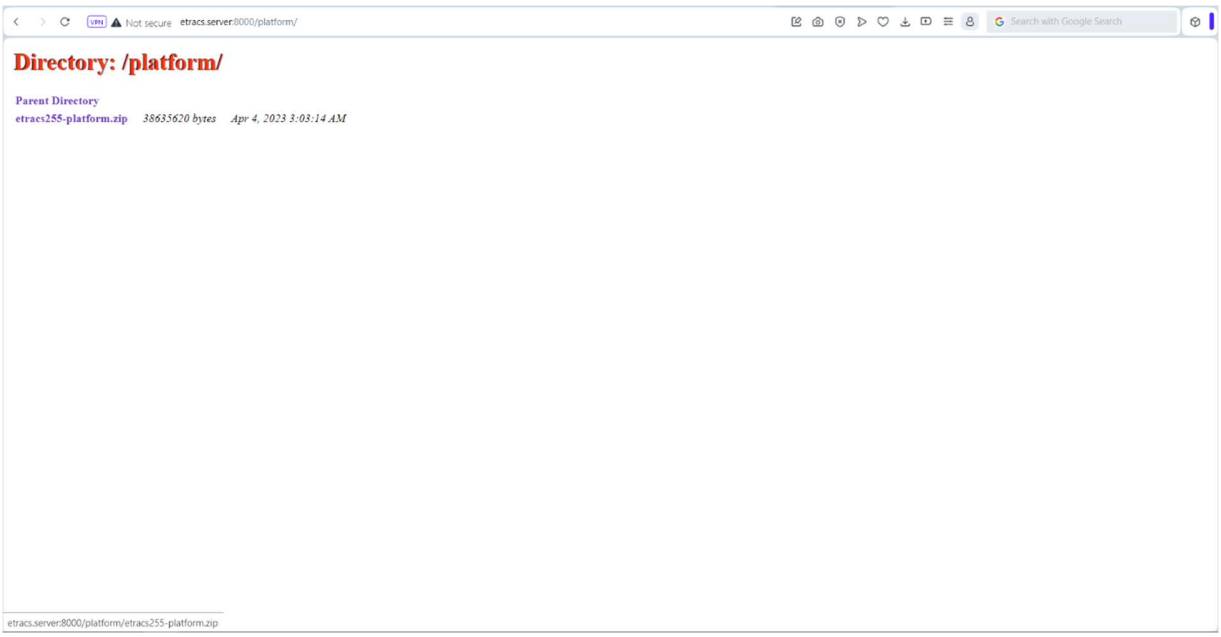
4. Connect to the Imported Profile. Wait for the OpenVPN Connect Client to connect to your virtual network.





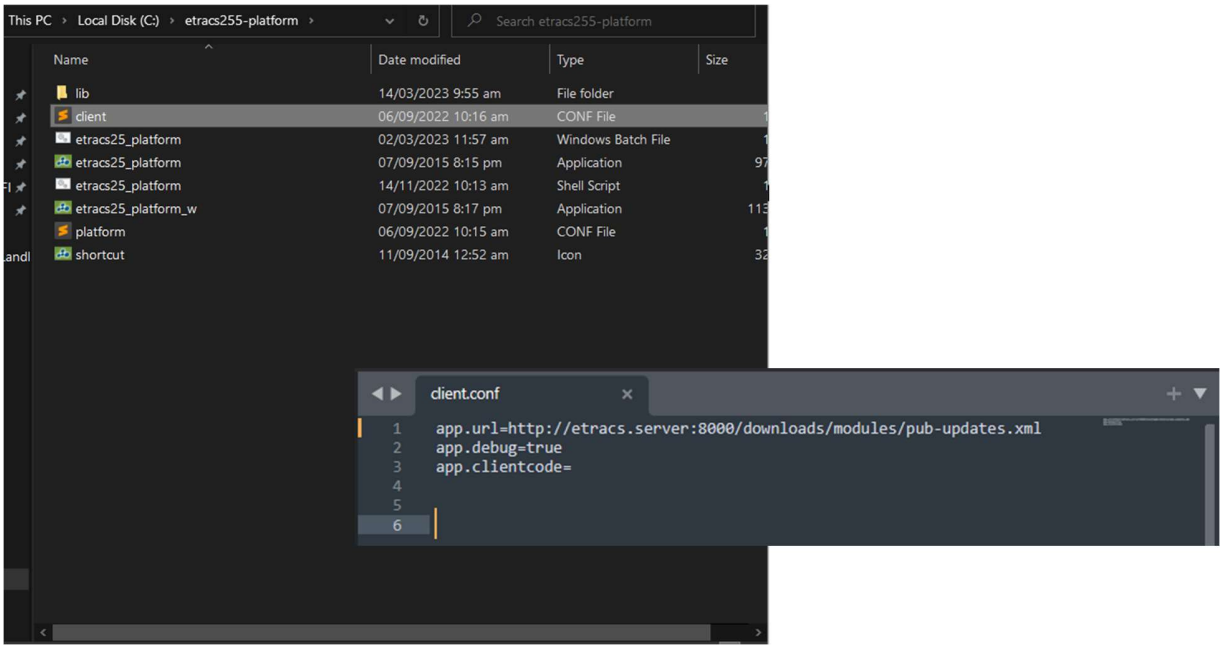
5. Once connected. Proceed to the etracs client installation. Use the domain name you set earlier as the URL/IP Address for the etracs server.

   Ex: http://etracs.server:8000/platform/



6. Extract the etracs255-platform.zip file into **(C:) Drive**.

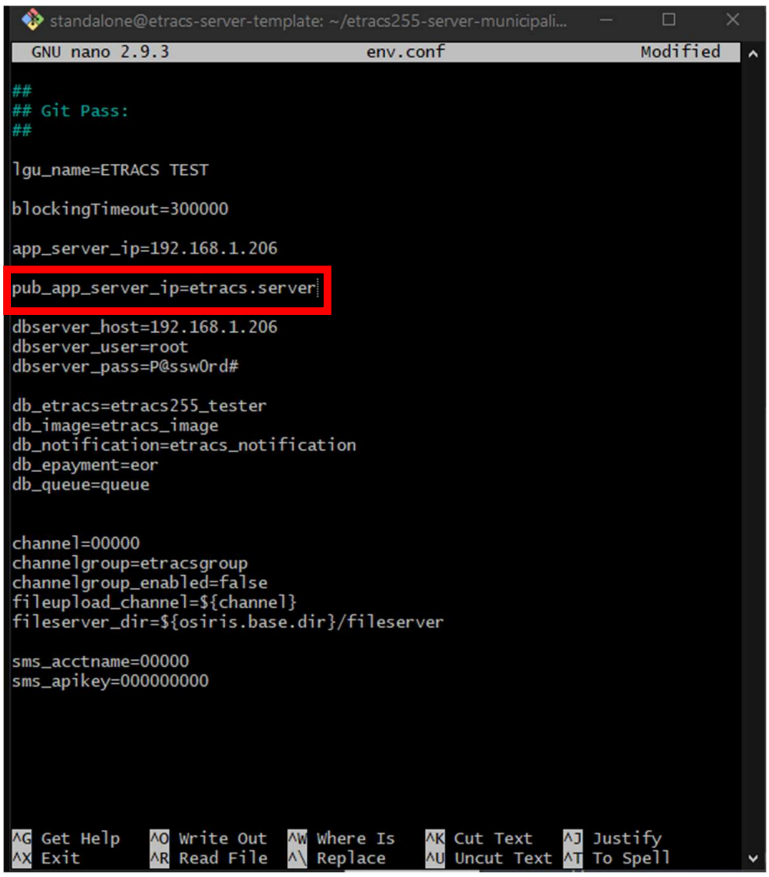
   Open the folder and edit the **client.conf** file. Change the IP address into the domain name you set earlier. Change the **updates.xml** into **pub-updates.xml.** Save changes.



7. Go back to your etracs server on your **Terminal** or **Git Bash** session. Edit the env.conf file in the docker/_custom dir for docker environment, or {Server_DIR}/bin for standalone linux.

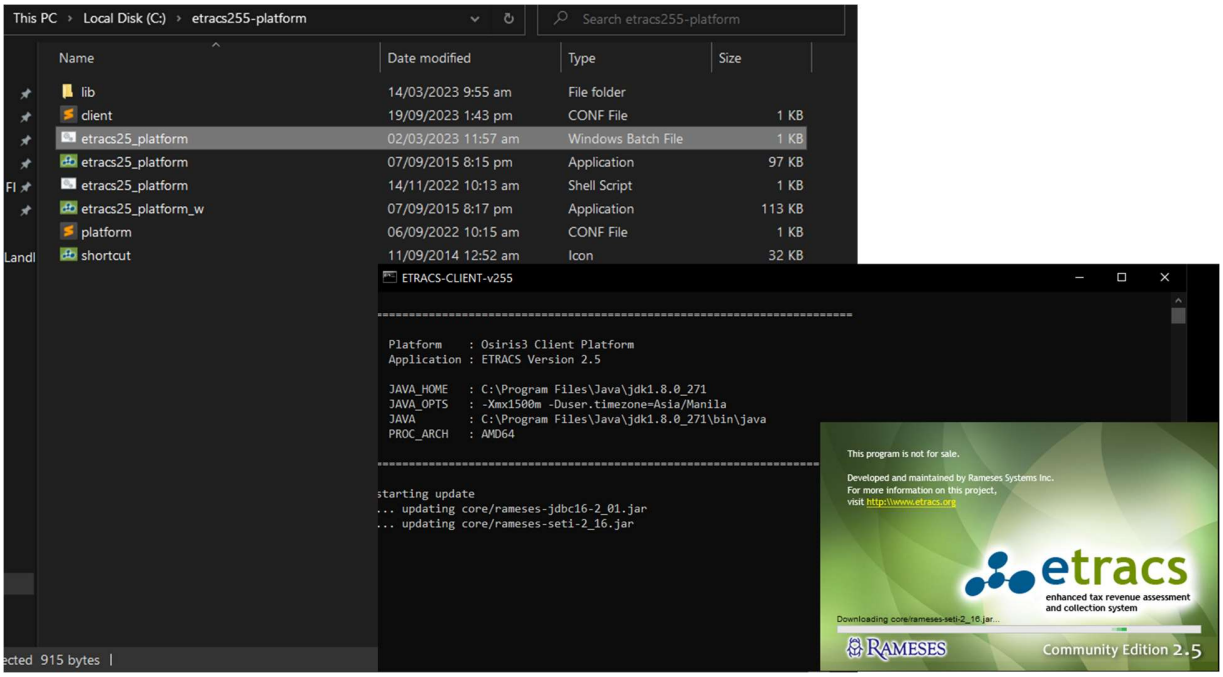
   Edit or add the **pub_app_server_ip** into the domain name.

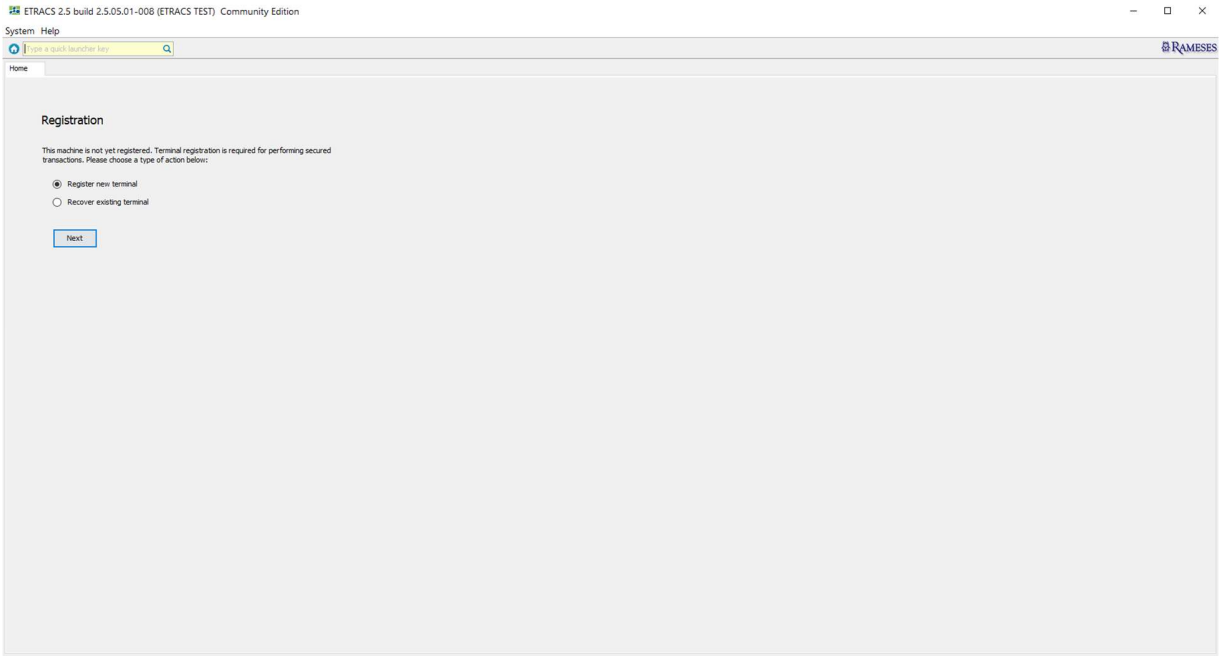
   Ex: **pub_app_server_ip=etracs.server**



Restart the etracs server for the changes to take effect. **Inform the LGU before restarting the server**.

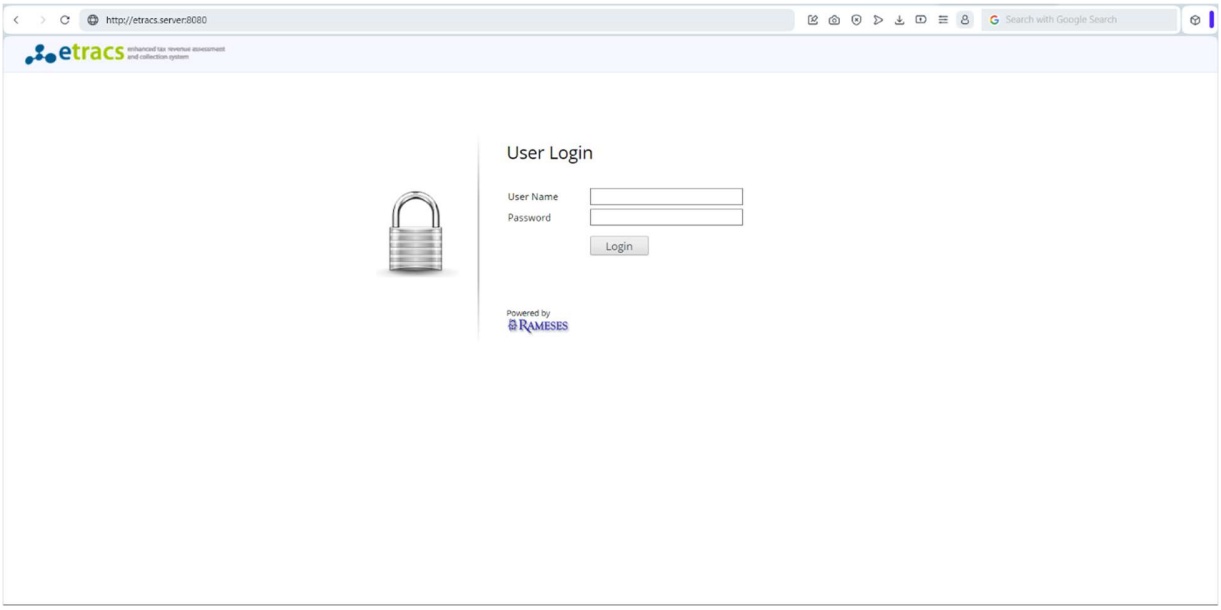
8. Run the **etracs25_platform.bat** Windows Batch File. Wait for the client to update the jars.



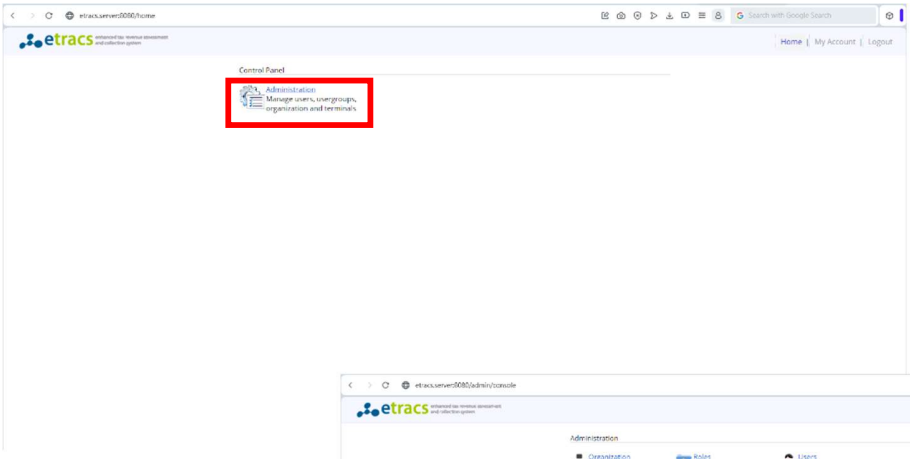


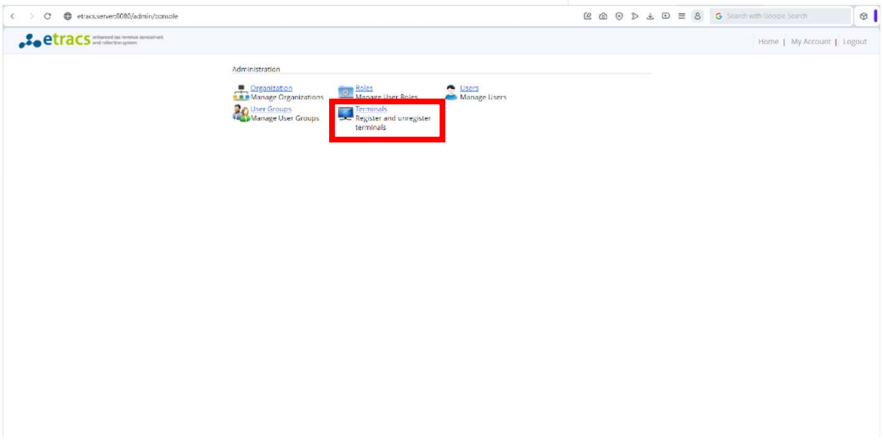
9. Register the New Terminal. Go to your browser and login into the etracs web portal using the domain name.

Ex: http://etracs.server:8080

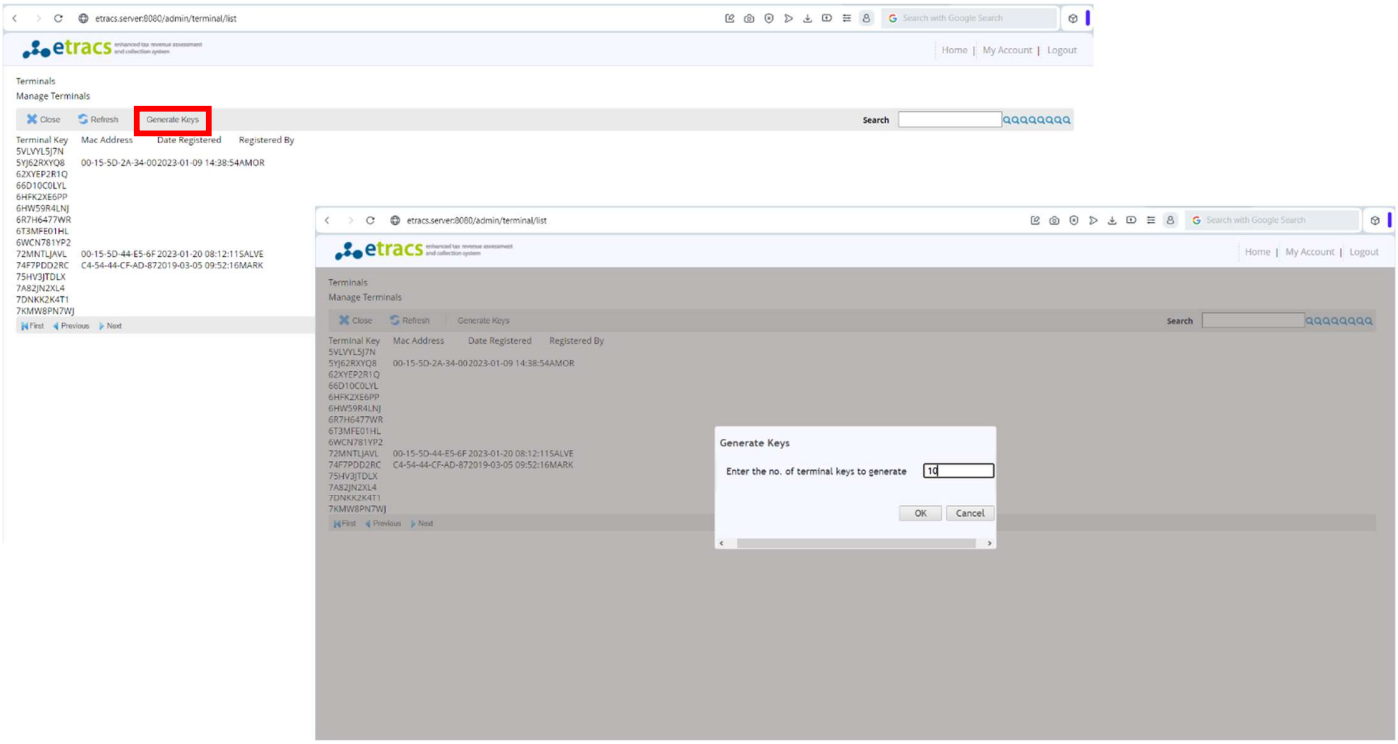


10. Navigate to **Administration > Terminals**

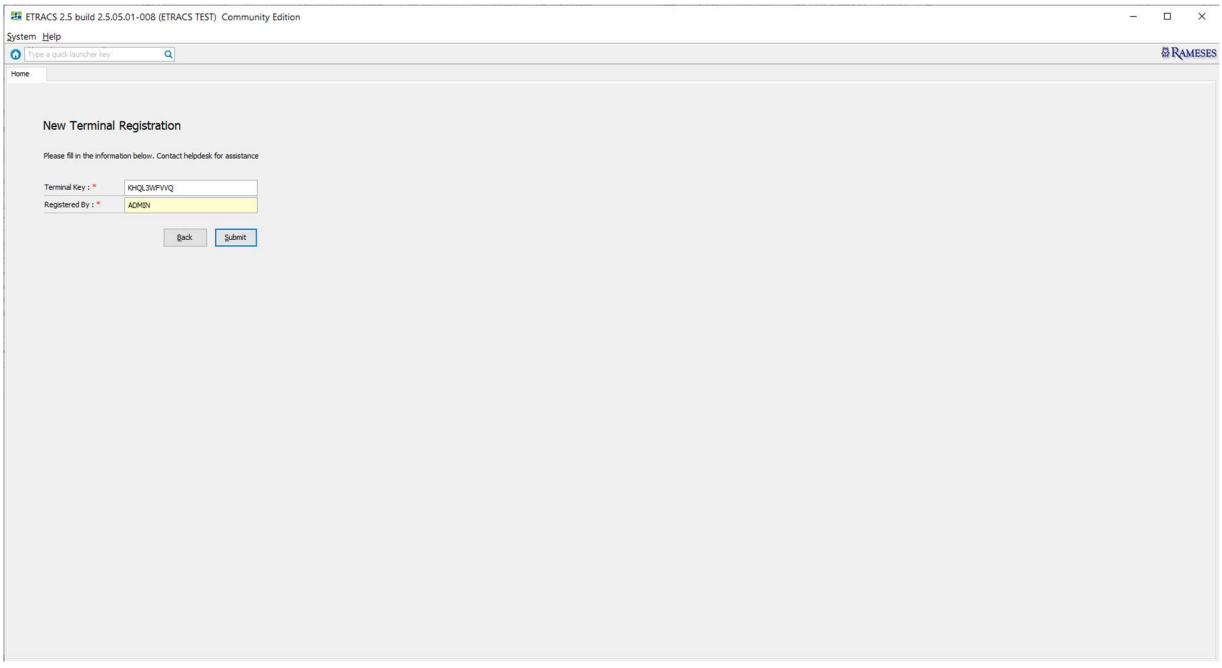




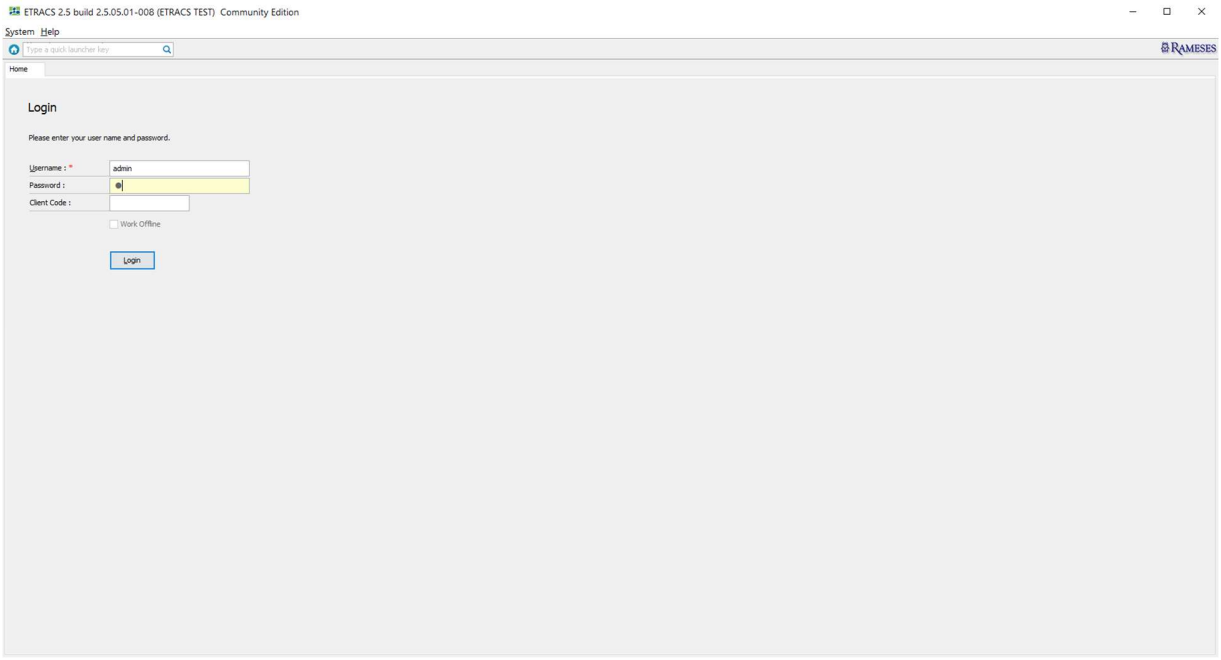
11. Copy a Terminal Key or Generate a new one.

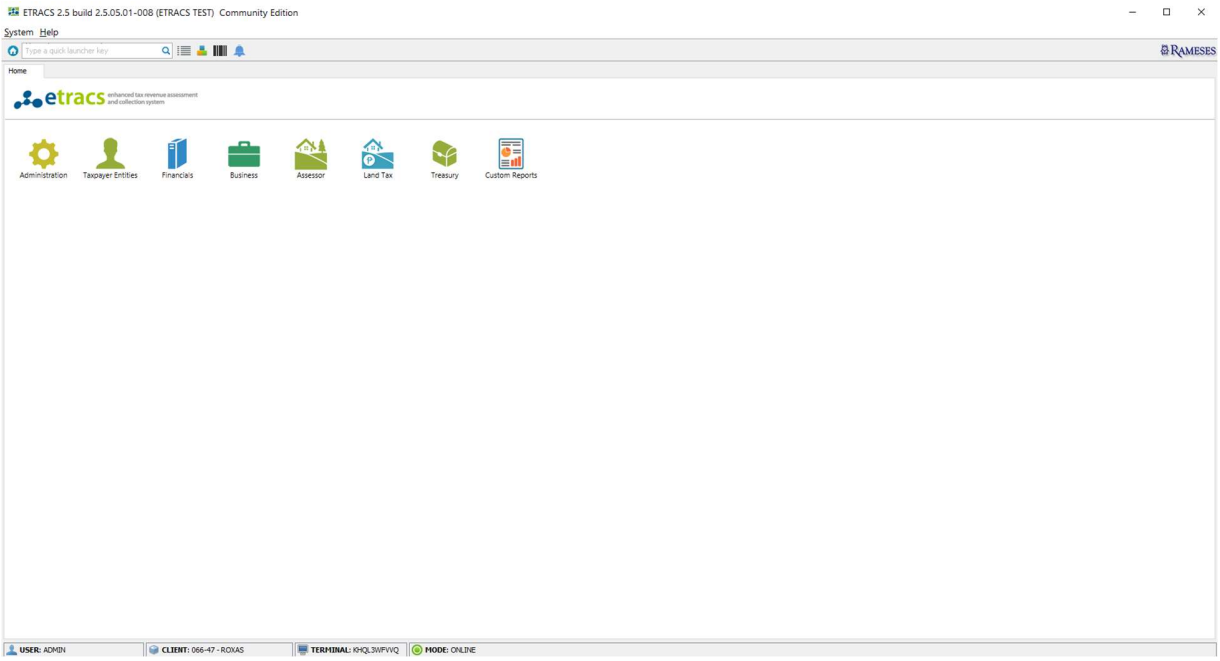


12. Paste the copied Terminal Key into the New Terminal Registration Window and click **Submit**.



13. **Login** to Etracs.





You have successfully connected to the Etracs Server via Remote Access using **OpenVPN**.