How to Configure the Barracuda VPN Client for macOS

https://campus.barracuda.com/doc/78154116/

After installing the Barracuda VPN Client for macOS, configure your VPN connection settings. In the Barracuda VPN Client, your VPN connection settings are saved in a VPN profile. You can create a new VPN profile or edit an existing profile. The Barracuda VPN client offers support for numerous authentication methods (username/password, X.509 certificate, Barracuda Personal License, and SAML). For information on how to configure authentication schemes on the CloudGen Firewall, see Authentication in the Barracuda CloudGen Firewall documentation.

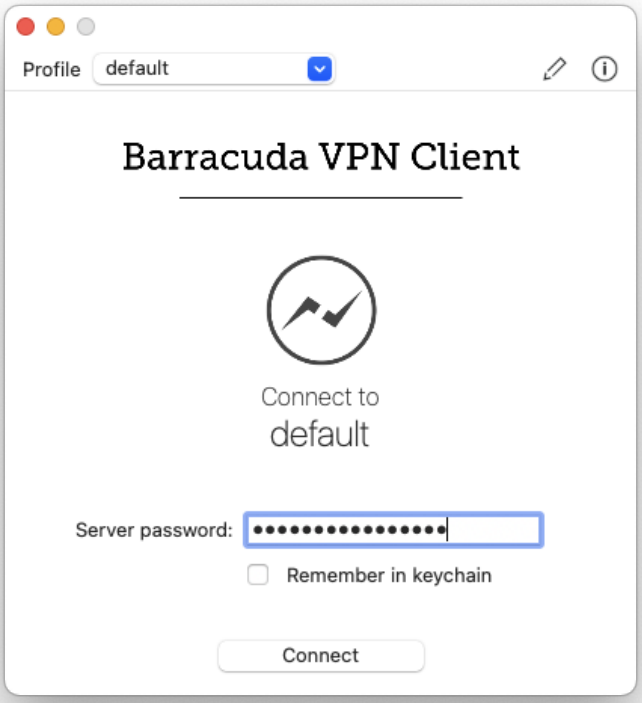
Before You Begin

For special characters in user credentials to work, the codepage must be configured to support UTF-8 on the Barracuda CloudGen Firewall. For more information, see Step 1 in How to Configure Offline Firewall Authentication in the CloudGen Firewall documentation.

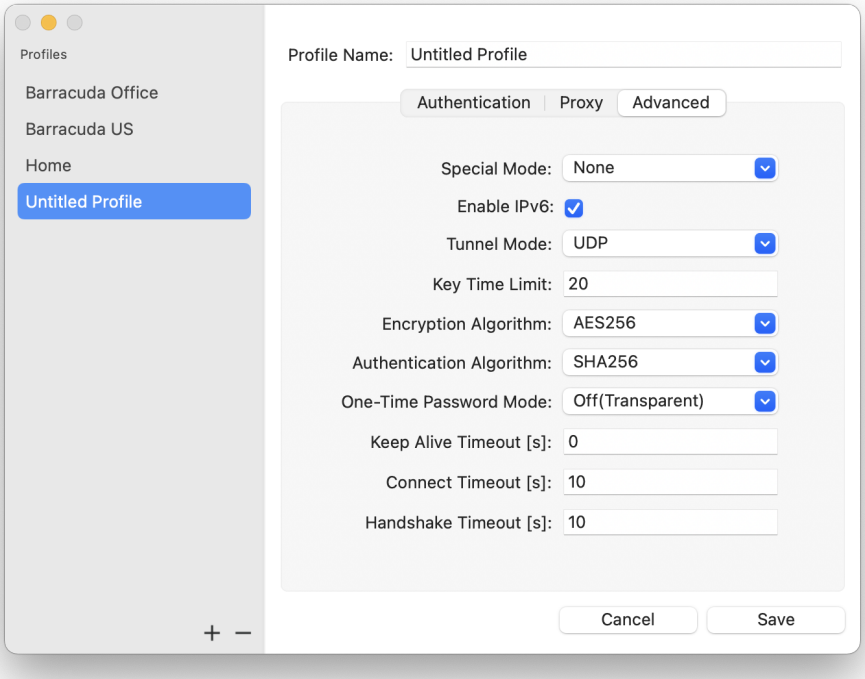
Configure the VPN Client

In the **Barracuda VPN Configuration** window, you can specify the settings for a new VPN profile or edit the settings for an existing VPN profile. You can also delete or rename a selected profile on this page.

1. Launch the Barracuda VPN Client. You can access it through the Finder and the Launchpad. It resides in the **Applications** folder. (If the client has been downloaded from the Barracuda Download Portal, it must first be moved from the **Downloads** folder to the **Applications** folder.)



2. Click the pen icon next to the **Profile** drop-down list. The Barracuda VPN configuration window opens.

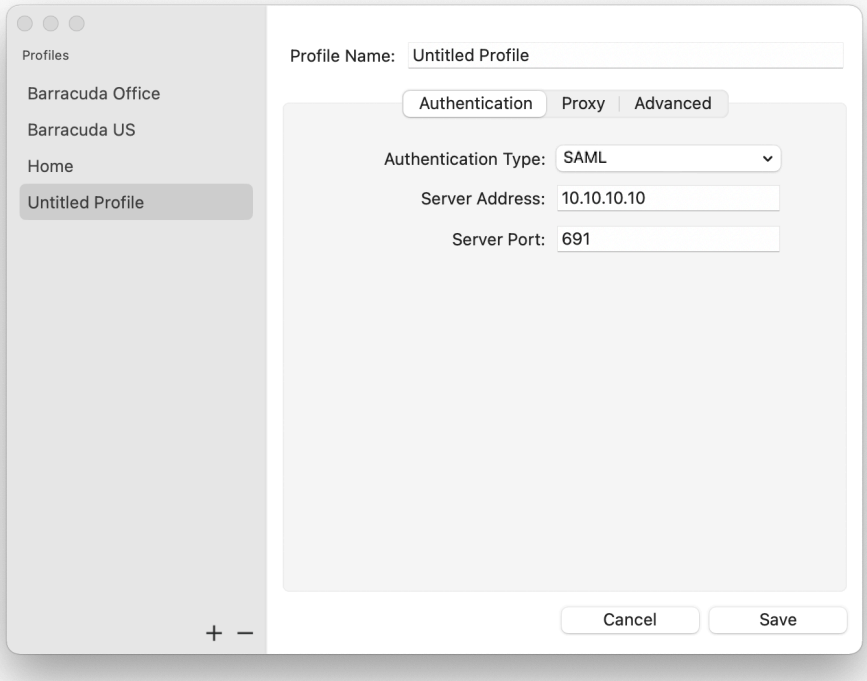


3. To edit an existing VPN profile, select the profile from the list. To add a new profile,

click the **+** sign at the bottom of the profile list. To delete a selected profile, click the **-** sign. Clicking **Cancel** during the configuration process discards any changes.

Imported licenses will remain in the file system at /Users/username/Library/Group Containers/group.com.barracuda.Barracuda-VPN-Client/.barracudavpn/license/
Imported certificates will remain in the file system at /Users/username/Library/Group Containers/group.com.barracuda.Barracuda-VPN-Client/.barracudavpn/ca/

4. Click the **Authentication** tab and specify the following settings:
   - Select the **Authentication Type** from the drop-down list.
   - **Server Address** – Enter the IP address or host name of the VPN server. You can also enter a comma-delimited list of VPN servers.
   - **Server Port** – Enter the VPN server port.



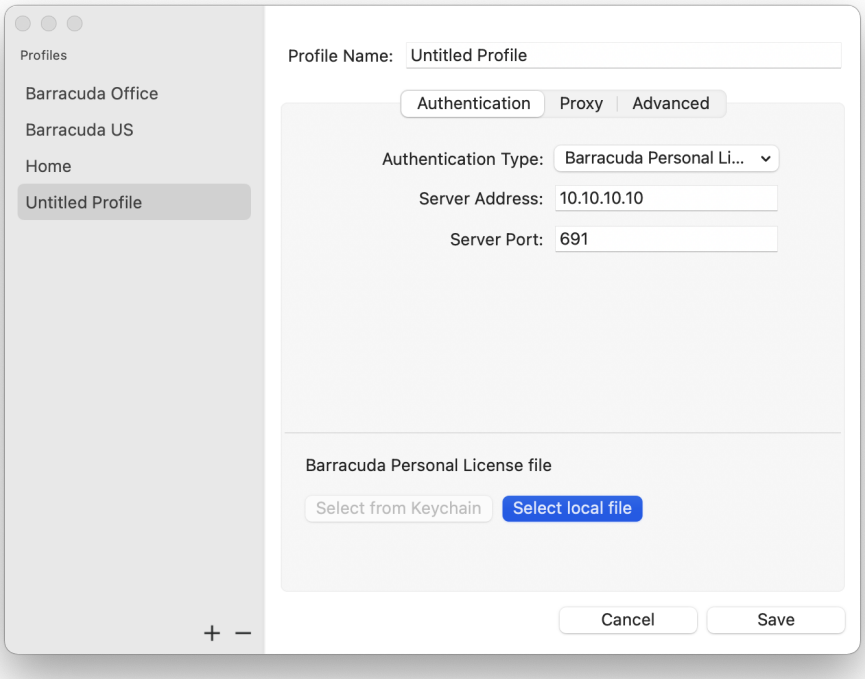
5. If a proxy is required, click the **Proxy** tab and configure the following settings:
   - **Proxy Type** – Select one of the following types:
     - **No Proxy**
     - **HTTP** (disables all tunnel modes except TCP)
     - **Socks4** (disables all tunnel modes except TCP)
     - **Socks5**
   - **Proxy Server** – The IP address or host name of the proxy server.
   - **Proxy Port** – The proxy server port. Examples for common port numbers are *3128* or *8080*. Your network administrator can provide you with the correct port number.
   - **Proxy User** – The username to authenticate at the proxy server.

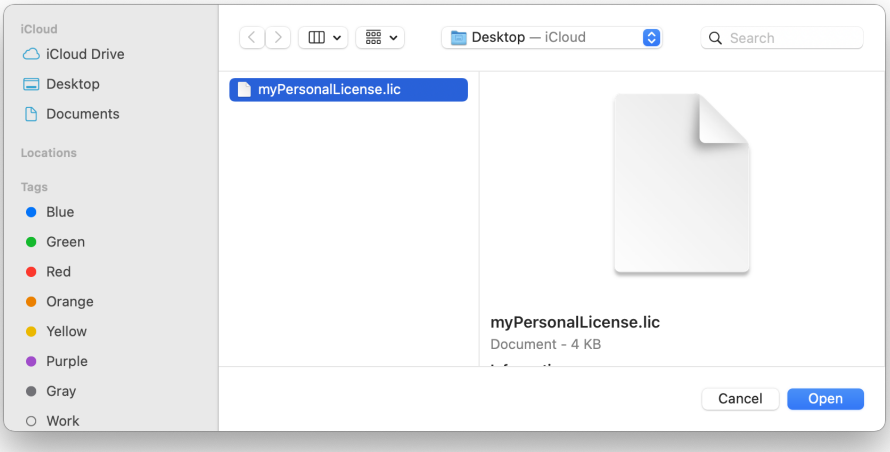
     The IP address and port number are required. In some cases, the username is also required. If the server requires a password, you are prompted for it when you initiate a VPN connection. The proxy server's password cannot be set in the profile configuration. It must be set in the main window. The password is not stored locally

unless you select the **Save in Keychain** check box.

6. Click the **Authentication** tab.
7. In the **License Settings** section, import your licenses and certificates.

   If you selected **Public Key** or **User + Pass only** from the **Authentication Type** list, a certificate cannot be imported. If you selected **X509 Cert**, **X509 Cert + User/Pass**, or **User + Pass only** from the **Authentication Type** list, a license file cannot be imported.
8. To import a license, click **Select local file** and choose a license.





9. To import a locally saved certificate, click **Select local file** and choose a certificate. Otherwise, click **Select from keychain** if your certificate has already been imported to Apple's keychain.
10. Click **Save**.

Your VPN profile configuration is saved to a plain text ASCII file: /Users/username/Library/Group\ Containers/group.com.barracuda.Barracuda-VPN-Client/.barracudavpn/barracudavpn.conf

Configure Advanced Settings

In the **Advanced** section, you can specify more detailed settings for the Barracuda VPN Client. In this section, not all settings are mandatory. Some settings depend on the proxy type for the VPN profile. To access the advanced settings, click the **Advanced** tab.

> Be careful when configuring the settings in this section. Otherwise, the client may function incorrectly. If you are unsure about how to configure an advanced setting, consult your network administrator.

In this section, you can specify the following settings:

- **Special Mode** – To deactivate tunnel probing, select **Silent**. For normal operation, select **None**.
  This setting is dependent on the VPN server.
- **Source IP** – The IP address that is assigned to the client for the TAP device.
  This setting is dependent on the VPN server.
- **Enable IPv6** – Select to enable IPv6 traffic.
- **Tunnel Mode** – The protocol to be used for tunnel traffic. The available options depend on the chosen proxy type.
  - **TCP** – Uses TCP for tunneling. This setting is required if the gateway is configured to expect the client connection on port 443, or if the connection should be established via HTTP proxy.
  - **UDP** – (default) Uses UDP for tunneling for increased performance.
  - **Hybrid** – Uses a combination of UDP and TCP. TCP traffic is tunneled via UDP and UDP user traffic is tunneled via TCP.
  - **Optimized** – Uses a performance-optimized combination of UDP and TCP. All user traffic is tunneled as UDP (as in UDP mode) and VPN session information is sent through TCP for increased reliability.

  If you selected **Socks4** or **HTTP** from the **Proxy Type** list, you can only select **TCP**.
- **Encryption Algorithm** – The tunnel encryption method. You can select **AES128**, **AES256**, **CAST**, **BlowFish**, **3DES**, **DES**, **AESCTR125**, or **AESCTR256**.
  The selected option must be supported by the VPN server.
- **Authentication Algorithm** – The hash algorithm to be used. You can select **MD5**, **SHA1**, **SHA256**, **SHA512**, or **GCM**.
  The selected option must be supported by the VPN server.
- **One-Time Password Mode** – Enables / disables One-Time Password (OTP) extensions.
  - **On (Static)** – If selected, the user can enter the OTP in advance, before connecting. This

mode supports multiple credentials. The additional password input field maps to the **Secondary Authentication Scheme** as specified in Firewall Admin. For more information, see How to Configure Multi-Factor Authentication Using Time-based One-time Password (TOTP).
    - **Off (Transparent)** – Select this option for OTP environments that are fully transparent to VPN, such as Azure MFA with Approve/Decline, SMS Passcode, etc.
- **Keep Alive Timeout [s]** – The interval in seconds to send keepalive signals.
- **Connect Timeout [s]** – Adjust this value to give users enough time to complete the process.
- **Handshake Timeout [s]** – Time in seconds until a handshake request times out.

After configuring your VPN profiles, you can start using your VPN connections. Continue with How to Establish a VPN Connection Using Barracuda VPN Client for macOS.

Figures

1. connect_client.png
2. vpn_conf.png
3. select_auth_file.png
4. select_local_file.png
5. pers_lic.png

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