



AG MacOS Standalone Array Client Administration Guide

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About Array Networks

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Engineered for the modern data center, Array Networks application, desktop and cloud service delivery solutions support the scalability, price-performance, software agility and leading-edge feature innovation essential for successfully transforming today's challenges in mobile and cloud computing into opportunities for mobilizing and accelerating business.

Contacting Array Networks

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Revision History

Date	Description
January 15, 2015	Initial official version.

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1 Installation

The installation package of the Standalone Array Client for MacOS can be downloaded by the administrator from the AG WebUI. Then, the administrator distributes the installation package to end users for installation and use.

1.1 Download the Installation Package

To download the Standalone Array Client for MacOS, the administrator should perform the following action:

Click the **Download Now** action link behind the desired in the **VPN Software Downloads** area of **Access Methods > VPN > SSL VPN** under the virtual site scope, as shown in the following figure.



Note:

MacOS uses two different Standalone Array Clients to run in UI mode and command line mode respectively. Please download the installation package of the Standalone Array Client in your desired running mode.

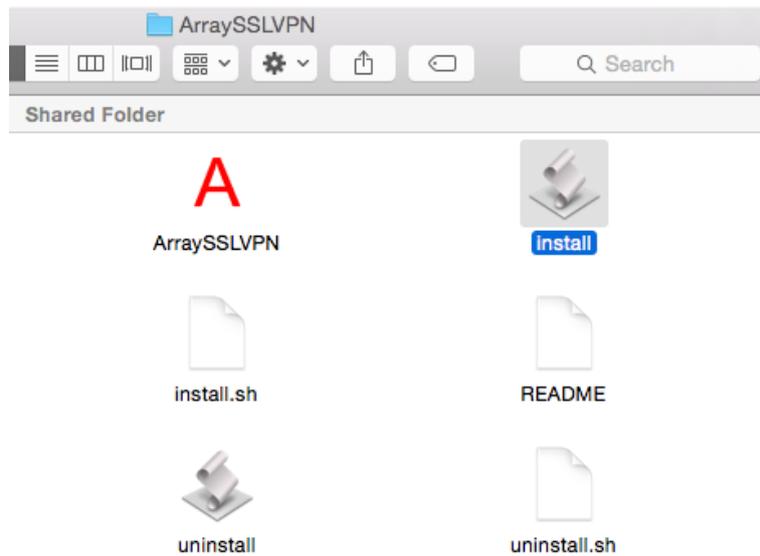
1.2 Install the Standalone Client on MacOS

After obtaining the installation package from the administrator, the end user can install the Standalone Array Client by following the installation process.

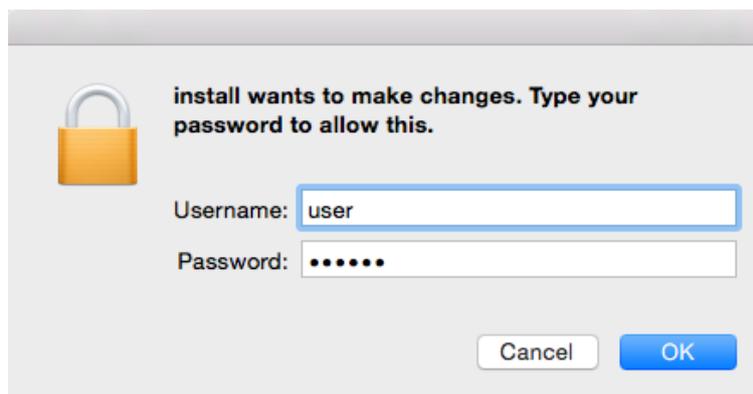
This section describes the installation process of the Standalone Array Client.

To install the Standalone Array Client on MacOS, the end user should perform the following steps:

1. Decompress the installation package for the Standalone Array Client (SSLVPNSetup_MacOS.zip) obtained from the administrator. This generates a directory named "ArraySSLVPN" in the current window.
2. In the **ArraySSLVPN** directory, double click the **install** file as shown in following figure.



3. In the pop-up window, input the username and password as shown in following figure.



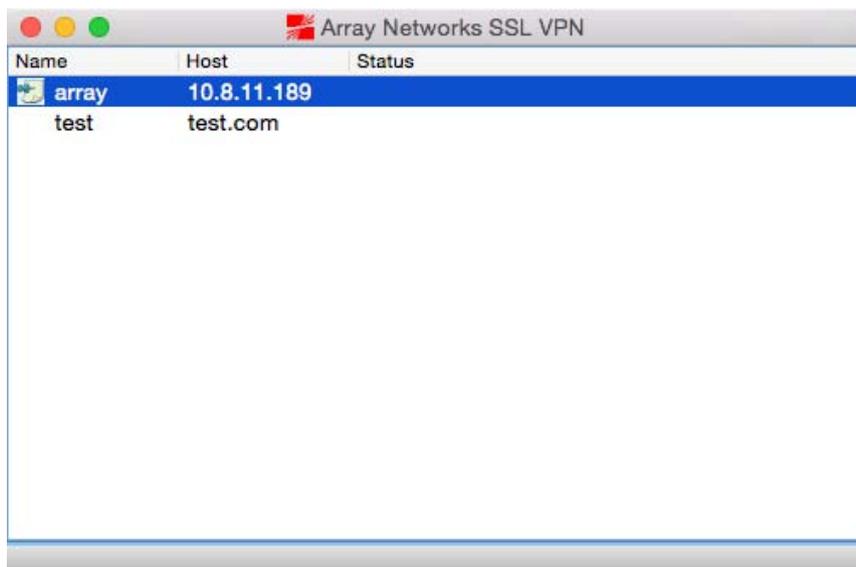
4. Click the **OK** button to finish the installation as shown in following figure.



2 How to Use the Standalone Array Client for MacOS

The administrator can use this chapter to give their end users instructions on how to use the Standalone Array Client. This section uses the Standalone Array Client running in UI mode as an example.

After opening the Standalone Array Client, the end user will see the following main window.



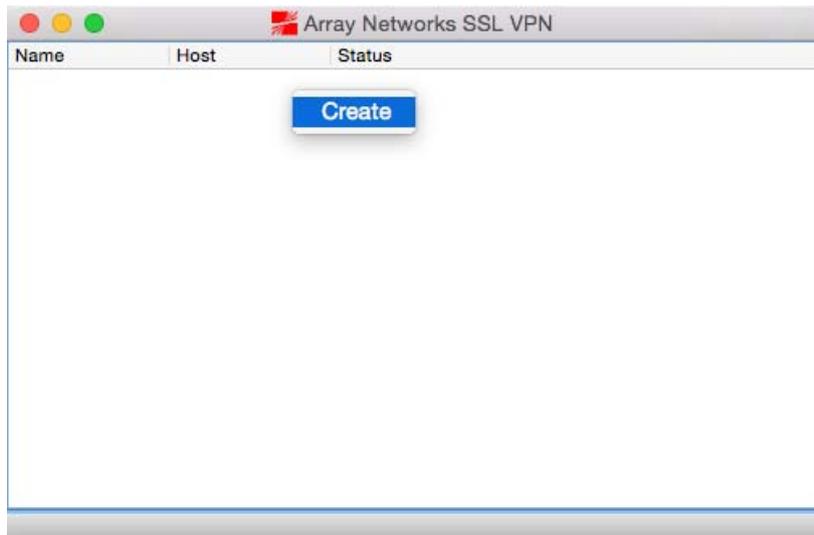
The main window displays the profiles have been created. Each profile entry is consisted of three columns: Name, Host and Status.

2.1 Create a Profile

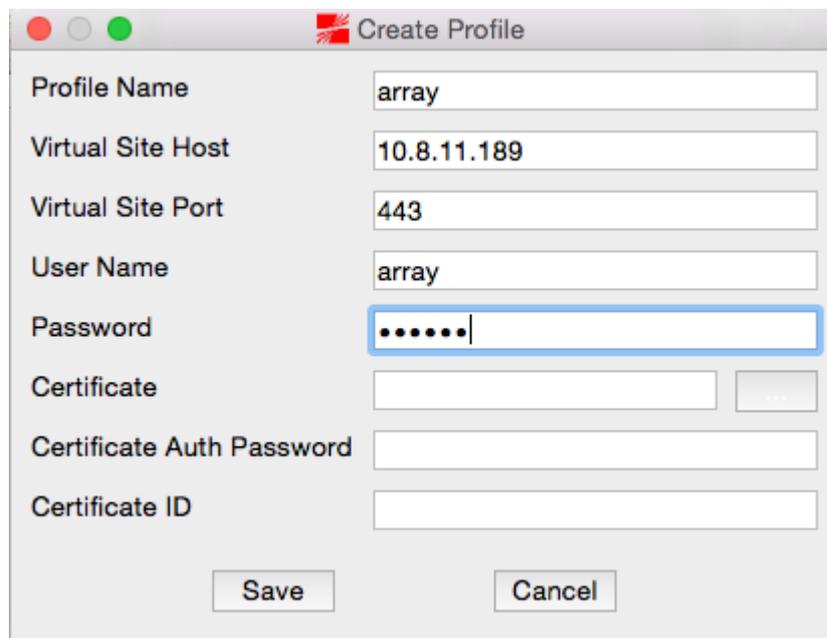
The end user should create a profile for the virtual site before accessing it. The profile records the information about the virtual site, such as the site name and VPN server.

To create a profile for a virtual site, the end user should do as follows:

1. Right-click on the blank area in the main window and select **Create** as shown in the following figure.



2. In the **Create Profile** window, specify the parameters as required and click the **Save** button, as shown in the following figure.



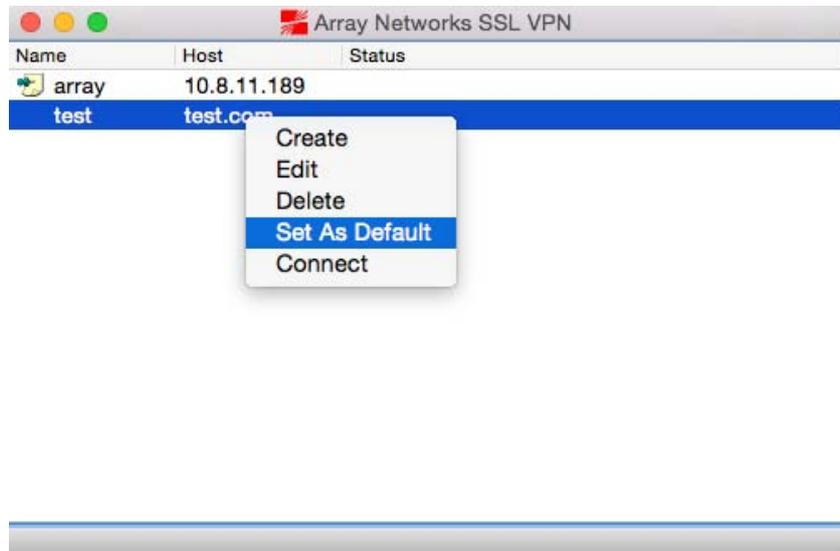
The screenshot shows the "Create Profile" window. It contains the following fields and values:

- Profile Name: array
- Virtual Site Host: 10.8.11.189
- Virtual Site Port: 443
- User Name: array
- Password: [masked with dots]
- Certificate: [empty] [Browse]
- Certificate Auth Password: [empty]
- Certificate ID: [empty]

Buttons: Save, Cancel

Parameter	Meaning
Profile Name	Specifies the general description of the profile.
Virtual Site Host	Specifies the domain name or IP address of the virtual site. For the shared virtual site, the end user needs to contain the alias name in the Virtual Site Host text box when creating a profile, for example www.example_test.com/alias1.
Virtual Site Port	Specifies the port number of the virtual site.
User Name	Specifies the username to be used to access the virtual site and connect VPN.
Password	Specifies the password to be used to access the virtual site and connect VPN.

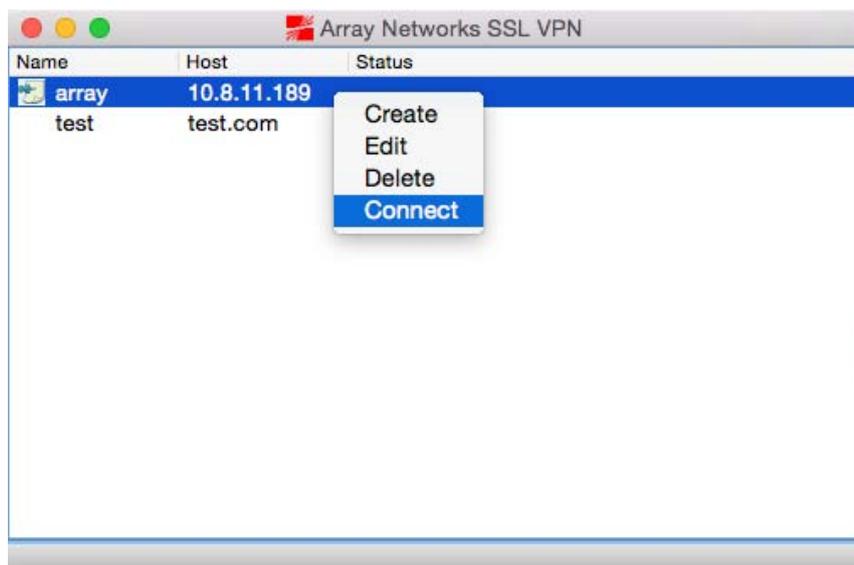
Parameter	Meaning
Certificate	Specifies the path of the client certificate to be imported from the Finder.
Certificate Auth Password	Specifies the password of the client certificate
Certificate ID	Specifies the name of the client certificate.



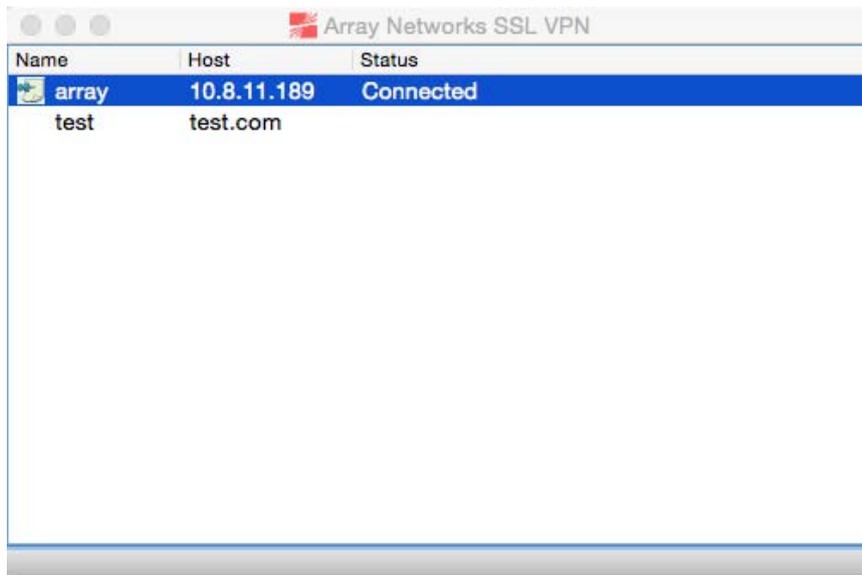
2.2 Connect to the VPN Server

To connect to the VPN server, the end user should do as follows:

1. Select the profile of the VPN server to be accessed, right-click the profile and select the **Connect** button, as shown in the following figure.



2. Wait for the Array Client to connect to the VPN server. After the VPN server is connected, "Connected" will be displayed in the Status column, as shown in the following figure.

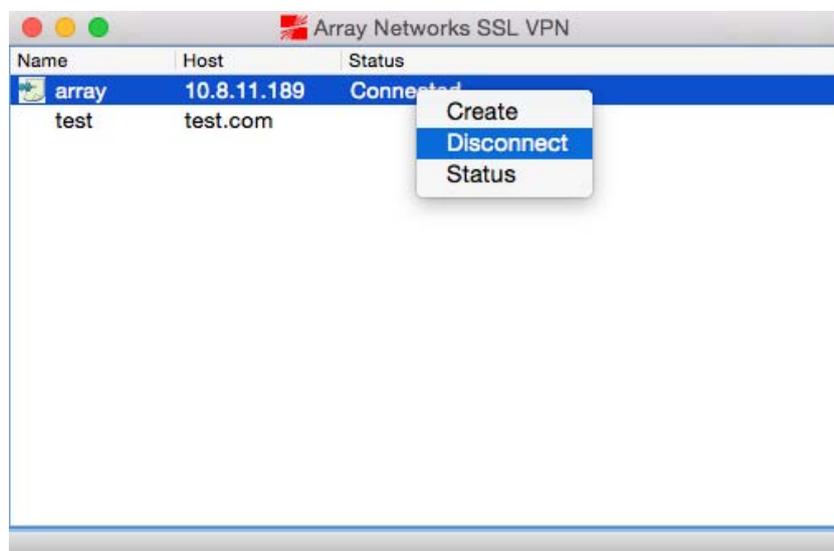


Alternatively, the end user can connect to the VPN server by double-clicking the profile.

2.3 Disconnect from the VPN Server

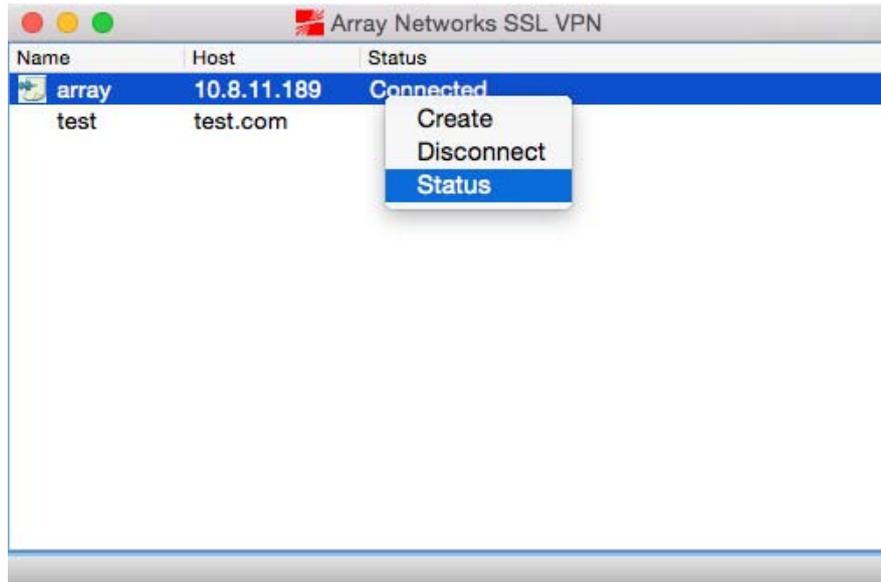
To disconnect the Array Client from the connected VPN server, the end user should perform the following actions:

- Right-click the connected profile and select the **Disconnect** button, as shown in the following figure.



2.4 View VPN Status

To view the information about the status and network resources of the current VPN connection, the end user should right-click the connected profile and select the **Status** command from the prompted menu, as shown in the following figure.



The **Status** window will be displayed.



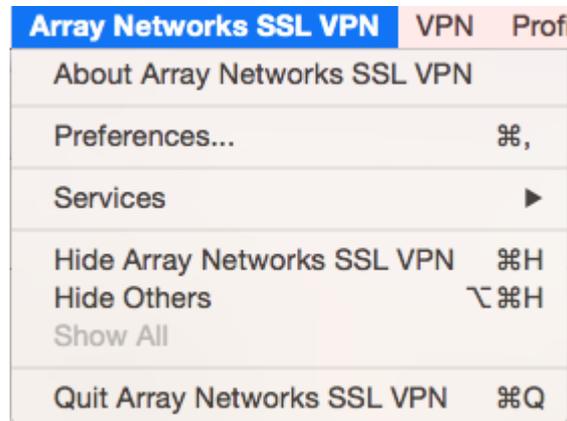
Item	Meaning
Assigned IP	The IP address assigned to the Array Client by the VPN server. The IP address is in the Netpool authorized to the end user.
Tunnel Mode	The mode of the tunnel. It must be full tunnel or split tunnel.
Subnet List	The subnet list in case of the split tunnel.
DNS Server	The DNS servers used to resolve domain names on the SSL VPN tunnel.
DNS Search Domain	The DNS domain suffixes.

2.5 Configure Global Options (Optional)

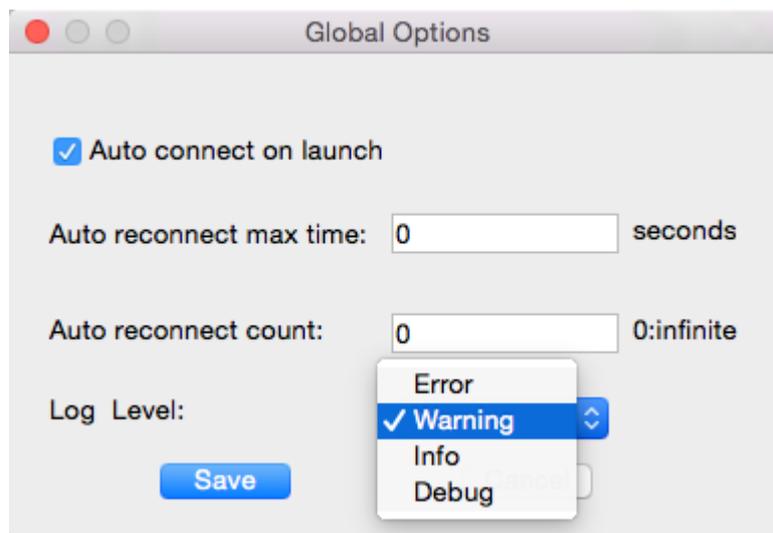
When the Standalone Array Client is started, the following figure will be displayed on the left top of the MacOS Window.



Click the **Array Networks SSL VPN** button and select **Preferences** as shown in following figure.



The **Global Options** window will be displayed.



Parameter	Meaning
Auto connect on launch	Enables the Array Client to automatically connect to the VPN server in the default profile when the Array Client starts up.
Reconnect parameters	The system does not support Reconnection now. The VPN connection is lost when the network environment changes.
Log Level	Sets the VPN output log level. Please refer to 2.7 View Log for details.

2.6 Manage a Profile

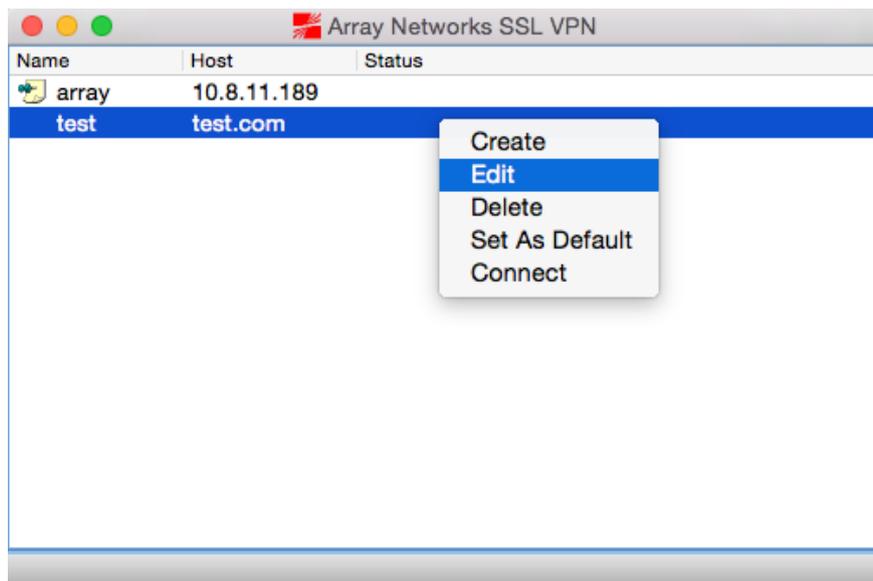
After a profile has been created, the end user can perform the following actions on the profile:

- Edit the profile
- Delete the profile

- Set the profile as default: when a profile is set as the default profile, an icon  will be displayed before the profile name. The Array Client will use the default profile to connect the VPN server when **Auto connect on launch** is enabled.

To edit/delete an existing profile or setting it as the default profile, the end user should perform the following action:

Right-click the profile and select **Edit**, **Delete** or **Set As Default** from the prompted menu as shown in following figure.

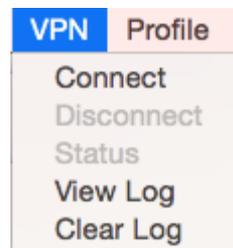


2.7 View Log

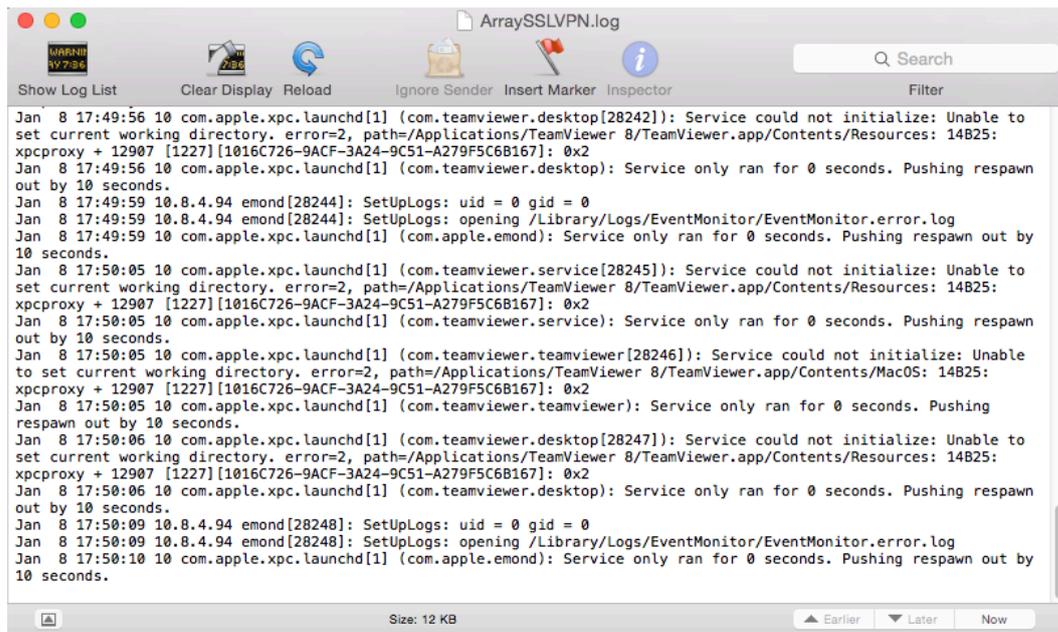
When the Standalone Array Client is started, the following figure will be displayed on the left top of the MacOS Window.



Click the **VPN** button and select **View Log** as shown in following figure.



This automatically launches the system's own Console to show VPN logs, as shown in following figure.



```

Jan  8 17:49:56 10 com.apple.xpc.launchd[1] (com.teamviewer.desktop[28242]): Service could not initialize: Unable to
set current working directory. error=2, path=/Applications/TeamViewer 8/TeamViewer.app/Contents/Resources: 14B25:
xpcproxy + 12907 [1227][1016C726-9ACF-3A24-9C51-A279F5C6B167]: 0x2
Jan  8 17:49:56 10 com.apple.xpc.launchd[1] (com.teamviewer.desktop): Service only ran for 0 seconds. Pushing respawn
out by 10 seconds.
Jan  8 17:49:59 10.8.4.94 emond[28244]: SetUpLogs: uid = 0 gid = 0
Jan  8 17:49:59 10.8.4.94 emond[28244]: SetUpLogs: opening /Library/Logs/EventMonitor/EventMonitor.error.log
Jan  8 17:49:59 10 com.apple.xpc.launchd[1] (com.apple.emond): Service only ran for 0 seconds. Pushing respawn out by
10 seconds.
Jan  8 17:50:05 10 com.apple.xpc.launchd[1] (com.teamviewer.service[28245]): Service could not initialize: Unable to
set current working directory. error=2, path=/Applications/TeamViewer 8/TeamViewer.app/Contents/Resources: 14B25:
xpcproxy + 12907 [1227][1016C726-9ACF-3A24-9C51-A279F5C6B167]: 0x2
Jan  8 17:50:05 10 com.apple.xpc.launchd[1] (com.teamviewer.service): Service only ran for 0 seconds. Pushing respaw
n out by 10 seconds.
Jan  8 17:50:05 10 com.apple.xpc.launchd[1] (com.teamviewer.teamviewer[28246]): Service could not initialize: Unable to
set current working directory. error=2, path=/Applications/TeamViewer 8/TeamViewer.app/Contents/MacOS: 14B25:
xpcproxy + 12907 [1227][1016C726-9ACF-3A24-9C51-A279F5C6B167]: 0x2
Jan  8 17:50:05 10 com.apple.xpc.launchd[1] (com.teamviewer.teamviewer): Service only ran for 0 seconds. Pushing
respawn out by 10 seconds.
Jan  8 17:50:06 10 com.apple.xpc.launchd[1] (com.teamviewer.desktop[28247]): Service could not initialize: Unable to
set current working directory. error=2, path=/Applications/TeamViewer 8/TeamViewer.app/Contents/Resources: 14B25:
xpcproxy + 12907 [1227][1016C726-9ACF-3A24-9C51-A279F5C6B167]: 0x2
Jan  8 17:50:06 10 com.apple.xpc.launchd[1] (com.teamviewer.desktop): Service only ran for 0 seconds. Pushing respaw
n out by 10 seconds.
Jan  8 17:50:09 10.8.4.94 emond[28248]: SetUpLogs: uid = 0 gid = 0
Jan  8 17:50:09 10.8.4.94 emond[28248]: SetUpLogs: opening /Library/Logs/EventMonitor/EventMonitor.error.log
Jan  8 17:50:10 10 com.apple.xpc.launchd[1] (com.apple.emond): Service only ran for 0 seconds. Pushing respawn out by
10 seconds.

```

3 Limitations

The Standalone Array Client does not support Proxy.

The Standalone Array Client does not support the HTTPS (https://) protocol in the URL.

The Standalone Array Client does not support reconnection.

The Standalone Array Client does not support customization.