



User Guide

AWS Client VPN



AWS Client VPN: User Guide

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What is AWS Client VPN?

AWS Client VPN is a managed client-based VPN service that enables you to securely access AWS resources and resources in your on-premises network.

This guide provides steps for establishing a VPN connection to a Client VPN endpoint using a client application on your device.

Client VPN components

The following are the key components for using AWS Client VPN.

- **Client VPN endpoint** — Your Client VPN administrator creates and configures a Client VPN endpoint in AWS. Your administrator controls which networks and resources you can access when you establish a VPN connection.
- **VPN client application** — The software application that you use to connect to the Client VPN endpoint and establish a secure VPN connection.
- **Client VPN endpoint configuration file** — A configuration file that's provided to you by your Client VPN administrator. The file includes information about the Client VPN endpoint and the certificates that are required to establish a VPN connection. You load this file into your chosen VPN client application. The AWS provided client allows you to connect to five concurrent sessions, each session with its own configuration file provided by the Client VPN administrator. For more information about concurrent sessions, see [Support for concurrent connections](#).

Additional resources for configuring Client VPN

If you're a Client VPN administrator, see the [AWS Client VPN Administrator Guide](#) for more information about creating and configuring a Client VPN endpoint.

Get started with AWS Client VPN

Before you can establish a VPN session, your Client VPN administrator must create and configure a Client VPN endpoint. Your administrator controls which networks and resources you can access when you establish a VPN session. You then use a VPN client application to connect to a Client VPN endpoint and establish a secure VPN connection.

If you're an administrator who needs to create a Client VPN endpoint, see the [AWS Client VPN Administrator Guide](#).

Topics

- [Prerequisites for using Client VPN](#)
- [Step 1: Get a VPN client application](#)
- [Step 2: Get the Client VPN endpoint configuration file](#)
- [Step 3: Connect to the VPN](#)
- [Download the AWS Client VPN from the self-service portal](#)

Prerequisites for using Client VPN

To establish a VPN connection, you must have the following:

- Access to the internet
- A supported device
- A supported version of [Windows](#), [macOS](#), or [Linux](#).
- For Client VPN endpoints that use SAML-based federated authentication (single sign-on), one of the following browsers:
 - Apple Safari
 - Google Chrome
 - Microsoft Edge
 - Mozilla Firefox

Step 1: Get a VPN client application

You can connect to a Client VPN endpoint and establish a VPN connection using the AWS provided client or another OpenVPN-based client application.

You can download the Client VPN application through one of two methods, depending on whether the administrator created the endpoint configuration file for the application:

- If your administrator did not set up endpoint configuration files, download and install the client from [AWS Client VPN download](#). After downloading and installing the application, proceed to [the section called “Step 2: Get the Client VPN endpoint configuration file”](#) to get the endpoint configuration file from your administrator. If you're connecting to multiple profiles, you'll need a configuration file for each profile.
- If your administrator has already preconfigured the endpoint configuration file, you can download the Client VPN application, along with the configuration file, from the self-service portal. For the steps to download the client and configuration file from the self-service portal, see [the section called “Download Client VPN”](#). After downloading and installing the application and file, go to [the section called “Step 3: Connect to the VPN”](#).

Alternatively, download and install an OpenVPN client application on the device from which you intend to establish the VPN connection.

Step 2: Get the Client VPN endpoint configuration file

You get the Client VPN endpoint configuration file from your administrator. The configuration file includes the information about the Client VPN endpoint and the certificates that are required to establish a VPN connection.

Alternatively, if your Client VPN administrator has configured a self-service portal for the Client VPN endpoint, you can download the latest version of the AWS provided client and the latest version of the Client VPN endpoint configuration file yourself. For more information, see [Download the AWS Client VPN from the self-service portal](#).

Step 3: Connect to the VPN

Import the Client VPN endpoint configuration file to the AWS provided client or to your OpenVPN client application and connect to the VPN. For steps to connect to a VPN, including importing one or more endpoint configuration files for an AWS provided client, see the following topics:

- [Connect to an AWS Client VPN endpoint using an AWS provided client](#)
- [Connect to an AWS Client VPN endpoint using an OpenVPN client](#)

For Client VPN endpoints that use Active Directory authentication, you will be prompted to enter your user name and password. If multi-factor authentication (MFA) has been enabled for the directory, you will also be prompted to enter your MFA code.

For Client VPN endpoints that use SAML-based federated authentication (single sign-on), the AWS provided client opens a browser window on your computer. You'll be prompted to enter your corporate credentials before you can connect to the Client VPN endpoint.

Download the AWS Client VPN from the self-service portal

The self-service portal is a web page that enables you to download the latest version of the AWS provided client and the latest versions of Client VPN endpoint configuration files. If your Client VPN endpoint administrator has preconfigured one or more configuration files for the Client VPN client, you can download and install that Client VPN application along with those configuration files, from this portal.

Note

If you're an administrator and want to configure the self-service portal, see [Client VPN endpoints](#) in the *AWS Client VPN Administrator Guide*.

Before you begin, you must have the ID of each Client VPN endpoint you want to download. Your Client VPN endpoint administrator can provide you with the ID, or can give you a self-service portal URL that includes the ID. For multiple endpoint connections you'll need the endpoint ID for each profile you want to connect to.

To access the self-service portal

1. Go to the self-service portal at <https://self-service.clientvpn.amazonaws.com/>, or use the URL that was provided to you by your administrator.
2. If required, enter the ID of the Client VPN endpoint, for example, `cvpn-endpoint-0123456abcd123456`. Choose **Next**.

3. Enter your user name and password and choose **Sign In**. This is the same user name and password that you use to connect to the Client VPN endpoint.
4. In the self-service portal, you can do the following:
 - Download the latest version of the client configuration file for the Client VPN endpoint. If you want to connect to multiple endpoints, you'll need to download the configuration file for each endpoint.
 - Download the latest version of the AWS provided client for your platform.
5. Repeat these steps for each endpoint configuration file you want to create a connection profile for.

Connect to an AWS Client VPN endpoint using an AWS provided client

You can connect to a Client VPN endpoint using the AWS provided client, which is supported on Windows, macOS, and Ubuntu. The AWS provided client also supports up to five concurrent connections as well as OpenVPN directives.

Topics

- [Support for concurrent connections](#)
- [OpenVPN directives](#)

Security

Security is the highest priority in the AWS provided client. We regularly release patches to improve the security posture of the application. The AWS provided client includes several unique security features compared to other OpenVPN clients, including SAML authentication, Client Routes Enforcement, and device settings monitoring.

While the AWS provided client is designed to mitigate threats originating from misconfigured or compromised network environment, it is not responsible for modifying the environment or eliminating the external threats at their source. The AWS provided client relies on the customers to maintain a secure and well-configured environment. This includes:

- Preventing unauthorized modification or abuse by local users
- Restricting administrative privileges to trusted users
- Maintaining up-to-date security patches

Support for concurrent connections using an AWS provided client


The AWS provided client allows to connect to multiple concurrent sessions. This is helpful if you need access to resources across multiple AWS environments and have different endpoints for those resources. For example, you might need access to a database in an environment at an endpoint that's different from the endpoint you're currently connected to, but you don't want to disconnect

the current connection. To enable your AWS provided client to connect to current sessions, download the configuration file that your administrator created for each endpoint, and then create a connection profile for each file. Using the AWS provided client, you can then connect to multiple sessions without disconnecting from any session currently open. This is supported for AWS provided clients only. For the steps to connect to concurrent sessions, see the following:

- [Connect using the AWS provided client for Windows](#)
- [Connect using the AWS provided client for macOS](#)
- [Connect using the AWS provided client for Linux](#)

When connecting to multiple endpoints, Client VPN implements checks to ensure there are no conflicts with other open endpoint connections — for example, if two sessions have conflicting CIDR blocks or routing policies; or, if you're already connected with a full tunnel connection. If the check finds conflicts, a connection won't be established until you either choose a different connection that isn't in conflict with the open connection, or you disconnect from the open session that's causing the conflict.

Concurrent DNS connections are allowed. The DNS server of one of the DNS-enabled connections will be applied. Depending on the DNS server, you might be prompted for authentication during that reconnection.

 **Note**

The maximum number of allowed concurrent sessions is five.

OpenVPN directives

The AWS provided client supports the following OpenVPN directives. For more information about these directives, see the documentation at the [OpenVPN website](#).

- auth-federate
- auth-nocache
- auth-retry
- auth-user-pass
- block-outside-dns

- ca
- cert
- cipher
- client
- connect-retry
- connect-retry-max
- cryptoapicert
- dev
- dev-type
- bb
- dhcp-option
- ifconfig-ipv6
- inactive
- keepalive
- key
- mssfix
- nobind
- persist-key
- persist-tun
- ping
- ping-exit
- ping-restart
- proto
- pull
- pull-filter
- rcvbuf
- remote
- remote-cert-tls
- remote-random-hostname

- `reneg-sec`
- `resolv-retry`
- `route`
- `route-ipv6`
- `server-poll-timeout`
- `static-challenge`
- `tap-sleep`
- `tun-mtu`
- `tun-mtu-extra`
- `verb`
- `verify-x509-name`

AWS Client VPN for Windows

These sections describe how to establish a VPN connection using the AWS provided client for Windows x64 and Windows Arm64 systems. You can download and install the client at [AWS Client VPN download](#). The AWS provided client does not support automatic updates.

Requirements

The AWS provided client supports both Windows x64 and Arm64 systems. The following is required for each operating system:

Windows Arm64 operating systems

- Windows 11 (64-bit operating system, Arm64 processor)
- .NET Framework 4.8.1 or higher

Note

This application includes background processes that utilize Arm64 emulation. This is fully supported and enabled by default on Windows 11 Arm64 devices, ensuring seamless operation without any additional setup required. For more information, see [How emulation works on Arm](#).

Windows x64 operating systems

- Windows 11 (64-bit operating system, x64 processor)
- .NET Framework 4.7.2 or higher

Note

For both Windows x64 and Arm64 operating systems, Client VPN endpoints that use SAML-based federated authentication (single sign-on), the client reserves TCP ports 8096-8115 on your computer.

Before you begin, ensure that your Client VPN administrator has [created a Client VPN endpoint](#) and provided you with the [Client VPN endpoint configuration file](#). If you want to connect to multiple profiles simultaneously, you'll need a configuration file for each profile.

Topics

- [Connect to AWS Client VPN with an AWS provided client for Windows](#)
- [Endpoint security software compatibility](#)
- [AWS Client VPN for Windows release notes](#)


Connect to AWS Client VPN with an AWS provided client for Windows

Before you begin, ensure that you've read the [requirements](#). The AWS provided client is also referred to as *AWS VPN Client* in the following steps.

To connect using the AWS provided client for Windows x64-based or Windows Arm64-based systems:

1. Open the **AWS VPN Client** app.
2. Choose **File, Manage Profiles**.
3. Choose **Add Profile**.
4. For **Display Name**, enter a name for the profile.
5. For **VPN Configuration File**, browse to and then select the configuration file that you received from your Client VPN administrator, and choose **Add Profile**.

6. If you want to create multiple connections, repeat the **Add Profile** steps for each configuration file you want to add. You can add as many profiles as you like, but you can only have up to five open connections.
7. In the **AWS VPN Client** window, choose the profile that you want to connect to, and then choose **Connect**. If the Client VPN endpoint has been configured to use credential-based authentication, you'll be prompted to enter a user name and password. Repeat this step for each profile connection you want to initiate, connecting up to five concurrent endpoints.

 **Note**

If any profile you connect to conflicts with a currently open session, you won't be able to make the connection. Either choose a new connection or disconnect from the session causing the conflict.

8. To view statistics for a connection, choose **Connection** in the **AWS VPN client** window, choose **Show Details**, and then choose the connection you want to see details about.
9. To disconnect a connection, choose a connection in the **AWS VPN client** window, and then choose **Disconnect**. If you have multiple open connections, you must close each connection individually. Alternatively, choose the client icon on the Windows taskbar, and then choose **Disconnect**.

Endpoint security software compatibility

Enterprise endpoint security products such as host-based firewalls, endpoint detection and response (EDR) agents, and antivirus software can sometimes interfere with AWS Client VPN connections. If you experience connectivity issues when using the AWS provided client for Windows, you might need to configure exclusions in your endpoint security software.

AWS Client VPN executable paths

The AWS provided client for Windows installs the following key executables. You might need these paths when configuring firewall rules, application allowlists, or endpoint security policies.

VPN client application

```
C:\Program Files\Amazon\AWS VPN Client\AWSVPNClient.exe
```

OpenVPN process

```
C:\Program Files\Amazon\AWS VPN Client\Resources\openvpn\acvc-openvpn.exe
```

This is the core process that establishes and maintains the VPN tunnel connection.

Windows service

```
C:\Program Files\Amazon\AWS VPN Client\AWSVPNClient.Service.exe
```

Network requirements

The AWS provided client requires outbound network access to the Client VPN endpoint to establish a VPN connection. Ensure that your firewall or endpoint security software allows outbound traffic from the `acvc-openvpn.exe` process to the port and protocol configured on your Client VPN endpoint.

Configuring endpoint security exclusions

If your endpoint security product interferes with AWS provided client connectivity, review the following exclusion categories with your security administrator:

Process-based exclusions

Add the executables listed in [the section called "AWS Client VPN executable paths"](#) to your endpoint security product's process allowlist or exclusion list.

Network-based exclusions

Allow outbound traffic from the `acvc-openvpn.exe` process to your Client VPN endpoint's port and protocol.

Path-based exclusions

Exclude the AWS provided client installation directory from real-time scanning or behavioral analysis:

```
C:\Program Files\Amazon\AWS VPN Client\
```

⚠ Important

Prescriptive configuration instructions for specific third-party endpoint security products are outside the scope of AWS documentation due to variability across product versions and configurations. Consult your endpoint security vendor's documentation for detailed instructions on configuring exclusions for your specific product.

AWS Client VPN for Windows release notes

The following table contains the release notes and download links for the current and previous versions of AWS Client VPN for Windows x64-based and Windows Arm64-based systems.

ℹ Note

We continue to provide usability and security fixes with every release. We strongly recommend that you use the latest version for every platform. Previous versions might be affected by usability and/or security issues. See release notes for details.

Version	Changes	Date	Download link and SHA256
5.4.0 (x64 and Arm64)	<ul style="list-style-type: none"> Improved security posture 	June 22, 2026	<ul style="list-style-type: none"> Download Windows x64 version 5.4.0 sha256: a373d0494 f153b7007 01451cdac 70a371b64 56d0e05aa 1fe6c14ef 87d63b5c6d

Version	Changes	Date	Download link and SHA256
			<ul style="list-style-type: none"><li data-bbox="1227 260 1503 390">• Download Windows Arm64 version 5.4.0 <p data-bbox="1260 432 1438 800">sha256: f8ce24709 9c6864f6c 03247a820 d9de1924a 14df24be7 4c8cebe8f abbe19f58c</p>

Version	Changes	Date	Download link and SHA256
5.3.7 (x64 and Arm64)	<ul style="list-style-type: none">Minor bug fixes and enhancements	June 15, 2026	<ul style="list-style-type: none">Download Windows x64 version 5.3.7 sha256: 64ee088e6 0b3eab83f bae6b1d1d b56da1156 e8094ce0b 1d3fdf6e3 e2c285b731Download Windows Arm64 version 5.3.7 sha256: 38412d18b 80f9a1382 6e0a4422f 403a93fed 51b067f15 affeb0727 d23e76c7d9

Version	Changes	Date	Download link and SHA256
5.3.6 (x64 and Arm64)	<ul style="list-style-type: none">• Rolled back changes from 5.3.5	May 28, 2026	<ul style="list-style-type: none">• Download Windows x64 version 5.3.6 sha256: a16212bdd e30c1547a cb33aae45 a72b12615 dc6e30839 eb0b1a36d 815279e95b• Download Windows Arm64 version 5.3.6 sha256: bc02e64ef ef9559fc9 91553e10b bc605bc27 42f1d2015 74adcf4d7 7d500ee0d7

Version	Changes	Date	Download link and SHA256
5.3.5 (x64 and Arm64)	<ul style="list-style-type: none">• Minor bug fixes and enhancements• Improved security posture	May 27, 2026	<ul style="list-style-type: none">• Download Windows x64 version 5.3.5 sha256: 8cfc8f5d7 de80c5b46 73d1c9874 b150ecc31 33e9628e1 7208b5a4d e30a050608• Download Windows Arm64 version 5.3.5 sha256: 1457fe9a8 521cc5b4b 07539ca57 995714efb 943265ad7 134e464c1 cc6698e6d0

Version	Changes	Date	Download link and SHA256
5.3.4 (x64 and Arm64)	<ul style="list-style-type: none">• Minor bug fixes and enhancements• Improved security posture	March 27, 2026	<ul style="list-style-type: none">• Download Windows x64 version 5.3.4 sha256: 81a5c5101 624c5f74d e8afdcb81 6f03ea8ff 9e8c6a5ea a8890a957 79a94dbe41• Download Windows Arm64 version 5.3.4 sha256: 3410282eb b024e6481 2a63668b3 0117657d4 70ed4c51f 05e96fc81 2b8871587d

Version	Changes	Date	Download link and SHA256
5.3.3 (x64 and Arm64)	<ul style="list-style-type: none"> Fixed connection failures in version 5.3.2 	February 28, 2026	<ul style="list-style-type: none"> Download Windows x64 version 5.3.3 sha256: bbaebb977 b270add64 97c941505 fed5913b5 8056e980e 372170733 7dc051ac86 Download Windows Arm64 version 5.3.3 sha256: c30b6d012 1a5070643 fdbebc27e 7f9569d57 4a5698631 480becb5c b96cac9fde

Version	Changes	Date	Download link and SHA256
5.3.2 (x64 and Arm64)	<ul style="list-style-type: none">• Minor bug fixes and enhancements.• Improved security posture.	February 17, 2026	<ul style="list-style-type: none">• Download Windows x64 version 5.3.2 sha256: dd1e4fb67 18dddbf13 a5aee5421 75761bf8e d854290c5 76a488b98 173a0ccf92• Download Windows Arm64 version 5.3.2 sha256: d2d18d91c a9ef53cc5 57434db18 ef5d0002e 7825a998f 2d739eac4 43b034af00

Version	Changes	Date	Download link and SHA256
5.3.1 (x64 and Arm64)	Minor bug fixes and enhancements.	September 30, 2025	<ul style="list-style-type: none"> <li data-bbox="1227 275 1503 405">• Download Windows x64 version 5.3.1 <li data-bbox="1260 453 1430 814">sha256: b71ddbc78 230630963 acf3ebba7 afeb6e525 99843091f f589aed6a fce4c9eb06 <li data-bbox="1227 898 1503 1029">• Download Windows Arm64 version 5.3.1 <li data-bbox="1260 1077 1430 1438">sha256: e691bdb0b dcb55b3da 36f4fb2e5 198f20f18 78dc22a00 bf55bc660 999698500b

Version	Changes	Date	Download link and SHA256
5.3.0 (Arm64)	<p>New AWS Client VPN support for Windows Arm64-based operating systems.</p> <p>This release includes all updates from the Windows (x64) 5.3.0 release.</p>	August 26, 2025	<p>Download Windows Arm64 version 5.3.0</p> <p>sha256: 3f1be6b48 7af8307da fbb0f7737 cd597cf71 dc64dcd31 775aeefbf 91d04b8dce</p>
5.3.0	<ul style="list-style-type: none"> • Minor enhancements. • Added support for IPv6 connections 	August 14, 2025	<p>Download Windows x64 version 5.3.0</p> <p>sha256: e3cf1aff6 e14d79aa4 4378229a3 a0602a9e9 c2a0c6d0d 055df9014 40b6d1454a</p>
5.2.2	Improved security posture.	June 2, 2025	<p>Download version 5.2.2</p> <p>sha256: f27cb0eed 7c9c5354c aa5d7e375 95eefbb04 8d7481bf6 98b2e5fb6 53b667c190</p>

Version	Changes	Date	Download link and SHA256
5.2.1	<ul style="list-style-type: none"> Added support for the ping-exit OpenVPN flag. Updated the OpenSSL library. Minor bug fixes and enhancements. 	April 21, 2025	No longer supported.
5.2.0	<ul style="list-style-type: none"> Minor enhancements. Added support for Client Route Enforcement. 	April 8, 2025	No longer supported.
5.1.0	<ul style="list-style-type: none"> Fixed an issue that caused AWS Client VPN version 5.0.x to automatically reconnect to VPN after an inactivity timeout disconnect. Minor bug fixes and enhancements. 	March 17, 2025	No longer supported.
5.0.2	<ul style="list-style-type: none"> Fixed a DNS issue for concurrent connections. Fixed sporadic issues when installing new TAP adapters. 	February 24, 2025	No longer supported.
5.0.1	Fixed an issue that led to sporadic VPN connection errors on Windows client version 5.0.0.	January 30, 2025	No longer supported.
5.0.0	<ul style="list-style-type: none"> Added support for concurrent connections. Updated the TAP driver version. Updated the graphical user interface. Minor bug fixes and enhancements 	January 21, 2025	No longer supported.
4.1.0	Minor bug fixes and enhancements.	November 12, 2024	No longer supported.

Version	Changes	Date	Download link and SHA256
4.0.0	Minor enhancements.	September 25, 2024	Download version 4.0.0 sha256: 6532f9113 85ec8fac1 494d0847c 8f90a999b 3bd738084 4e2ea4318 e9db4a2ebc
3.14.2	Added support for the <code>mssfix</code> OpenVPN flag.	September 4, 2024	Download version 3.14.2 sha256: c171639d7 e07e5fd48 998cf76f7 4e6e49e5c be3356c62 64a67b4a9 bf473b5f5d
3.14.1	Minor bug fixes and enhancements.	August 22, 2024	Download version 3.14.1 sha256: f743a7b4b c82daa4b8 03c299439 0529997bb 57a4bb54d 1f5195ab2 8827283335

Version	Changes	Date	Download link and SHA256
3.14.0	<ul style="list-style-type: none"> Added support for the tap-sleep OpenVPN flag. Updated the OpenVPN and OpenSSL libraries. 	August 12, 2024	Download version 3.14.0 sha256: 812fb2f6d 263288c66 4d598f6bd 70e3f601d 11dcb89e6 3b281b0a9 6b96354516
3.13.0	Updated the OpenVPN and OpenSSL libraries.	July 29, 2024	Download version 3.13.0 sha256: c9cc896e8 1a7441184 0951e349e ed9384507 c53337fb7 03c5ec64d 522c29388b
3.12.1	Fixed issue that prevents Windows client version 3.12.0 from establishing VPN connection for some users.	July 18, 2024	Download version 3.12.1 sha256: 5ed34aee6 c03aa281e 625acdbed 272896c67 046364a9e 5846ca697 e05dbfec08

Version	Changes	Date	Download link and SHA256
3.12.0	<ul style="list-style-type: none"> Automatically reconnect when local area network ranges change. Removed automatic application focus when connected with SAML endpoints. 	May 21, 2024	No longer supported
3.11.2	Resolved a SAML authentication issue with Chromium-based browsers since version 123.	April 11, 2024	Download version 3.11.2 sha256: 8ba258dd1 5bea3e861 adad108f8 a6d6d4bcd 8fe42cb9e f8bbc294e 72f365c7cc
3.11.1	<ul style="list-style-type: none"> Fixed a buffer overflow action that could potentially allow a local actor to execute arbitrary commands with elevated permissions. Improved security posture. 	February 16, 2024	Download version 3.11.1 sha256: fb67b60aa 837019795 8a11ea6f5 7d5bc0512 279560b52 a857ae34c b321eaefd0

Version	Changes	Date	Download link and SHA256
3.11.0	<ul style="list-style-type: none"> Fixed a connectivity issue caused by Windows VMs. Fixed connectivity issues for some LAN configurations. Improved accessibility. 	December 6, 2023	Download version 3.11.0 sha256: 9b6b7def9 9d76c59a9 7b067b6a7 3bdc6ee1c 6b89a2063 286f542e9 6b32df5ae9
3.10.0	<ul style="list-style-type: none"> Fixed a connectivity issue when NAT64 is enabled in the client network. Fixed a connectivity issue when Hyper-V network adapters are installed on the client machine. Minor bug fixes and enhancements. 	August 24, 2023	Download version 3.10.0 sha256: d46721aad 40ccb816f 163e406c3 66ff03b11 20abbb43a 20607e06d 3b1fa8667f
3.9.0	Improved security posture.	August 3, 2023	Download version 3.9.0 sha256: de9a3800e a23491555 40bd32bba e472404c6 36d8d8267 a0e1fb217 3a8aae21ed

Version	Changes	Date	Download link and SHA256
3.8.0	Improved security posture.	July 15, 2023	No longer supported
3.7.0	Rolled back changes from 3.6.0.	July 15, 2023	No longer supported
3.6.0	Improved security posture.	July 14, 2023	No longer supported
3.5.0	Minor bug fixes and enhancements.	April 3, 2023	No longer supported
3.4.0	Rolled back the changes from version 3.3.0.	March 28, 2023	No longer supported
3.3.0	Minor bug fixes and enhancements.	March 17, 2023	No longer supported
3.2.0	<ul style="list-style-type: none">• Added support for "verify-x509-name" OpenVPN flag.• Automatically detect when updated versions of the client are available.• Added the ability to automatically install new client versions when available.	January 23, 2023	No longer supported
3.1.0	Improved security posture.	May 23, 2022	No longer supported

Version	Changes	Date	Download link and SHA256
3.0.0	<ul style="list-style-type: none"> Added Windows 11 support. Fixed TAP Windows driver naming causing other driver names to be affected. Fixed the banner message not being displayed when using federated authentication. Fixed banner text display for longer text. Enhanced security posture. 	March 3, 2022	No longer supported
2.0.0	<ul style="list-style-type: none"> Added support for banner text after new connection is established. Removed ability to use pull-filter in relation to echo. i.e. pull-filter * echo Minor bug fixes and enhancements. 	January 20, 2022	No longer supported
1.3.7	<ul style="list-style-type: none"> Fixed federated authentication connection attempt in some cases. Minor bug fixes and enhancements. 	November 8, 2021	No longer supported
1.3.6	<ul style="list-style-type: none"> Added support for OpenVPN flags: connect-retry-max, dev-type, keepalive, ping, ping-restart, pull, rcvbuf, server-poll-timeout. Minor bug fixes and enhancements. 	September 20, 2021	No longer supported
1.3.5	Patch to delete large windows log files.	August 16, 2021	No longer supported
1.3.4	<ul style="list-style-type: none"> Added support for OpenVPN flag: dhcp-option. Minor bug fixes and enhancements. 	August 4, 2021	No longer supported

Version	Changes	Date	Download link and SHA256
1.3.3	<ul style="list-style-type: none"> Added support for OpenVPN flags: inactive, pull-filter, route. Fixed an issue that caused app crashes on disconnect or exit. Fixed an issue with Active Directory usernames with backslash. Fixed app crash when manipulating profile list outside of app. Minor bug fixes and enhancements. 	July 1, 2021	No longer supported
1.3.2	<ul style="list-style-type: none"> Add IPv6 leak prevention, when it is configured. Fixed a potential crash when you use the Show Details option under Connection. 	May 12, 2021	No longer supported
1.3.1	<ul style="list-style-type: none"> Added support for multiple client certificates with same subject. Expired certificates will be ignored. Fixed local log retention to reduce disk usage. Added support for 'route-ipv6' OpenVPN directive. Minor bug fixes and enhancements. 	April 5, 2021	No longer supported
1.3.0	Added support features such as error reporting, sending diagnostic logs, and analytics.	March 8, 2021	No longer supported

Version	Changes	Date	Download link and SHA256
1.2.7	<ul style="list-style-type: none"> Added support for the cryptoapicert OpenVPN directive. Fixed stale routes between connections. Minor bug fixes and enhancements. 	February 25, 2021	No longer supported
1.2.6	Minor bug fixes and enhancements.	October 26, 2020	No longer supported
1.2.5	<ul style="list-style-type: none"> Added support for comments in the OpenVPN configuration. Added an error message for TLS handshake errors. 	October 8, 2020	No longer supported
1.2.4	Minor bug fixes and enhancements.	September 1, 2020	No longer supported
1.2.3	Roll back changes in version 1.2.2.	August 20, 2020	No longer supported
1.2.1	Minor bug fixes and enhancements.	July 1, 2020	No longer supported
1.2.0	<ul style="list-style-type: none"> Added support for SAML 2.0-based federated authentication. Deprecated support for the Windows 7 platform. 	May 19, 2020	No longer supported
1.1.1	Minor bug fixes and enhancements.	April 21, 2020	No longer supported

Version	Changes	Date	Download link and SHA256
1.1.0	<ul style="list-style-type: none">Added support for OpenVPN static challenge echo functionality to hide or show the text displayed in the user interface.Minor bug fixes and enhancements.	March 9, 2020	No longer supported
1.0.0	The initial release.	February 4, 2020	No longer supported

AWS Client VPN for macOS

These sections describe how to establish a VPN connection using the AWS provided client for macOS. You can download and install the client at [AWS Client VPN download](#). The AWS provided client does not support automatic updates.

Requirements

To use the AWS provided client for macOS, the following is required:

- macOS Sonoma (14.0), Sequoia (15.0), or Tahoe (26.0)
- x86_64 or ARM64 processor compatible.
- For Client VPN, endpoints that use SAML-based federated authentication (single sign-on), The client reserves TCP ports 8096-8115 on your computer.

Topics

- [Connect to AWS Client VPN with an AWS provided client for macOS](#)
- [AWS Client VPN for macOS release notes](#)

Connect to AWS Client VPN with an AWS provided client for macOS

Before you begin, ensure that your Client VPN administrator has [created a Client VPN endpoint](#) and provided you with the [Client VPN endpoint configuration file](#). If you want to connect to multiple profiles simultaneously, you'll need a configuration file for each profile.

Also, ensure that you've read the [requirements](#). The AWS provided client is also referred to as the *AWS VPN Client* in the following steps.

To connect using the AWS provided client for macOS

1. Open the **AWS VPN Client** app.
2. Choose **File, Manage Profiles**.
3. Choose **Add Profile**.
4. For **Display Name**, enter a name for the profile.
5. For **VPN Configuration File**, browse to and then select the configuration file that you received from your Client VPN administrator, and choose **Add Profile**.
6. If you want to create multiple connections, repeat the **Add Profile** steps for each configuration file you want to add. You can add as many profiles as you like, but you can only have up to five open connections.
7. In the **AWS VPN Client** window, choose the profile that you want to connect to, and then choose **Connect**. If the Client VPN endpoint has been configured to use credential-based authentication, you'll be prompted to enter a user name and password. Repeat this step for each profile connection you want to initiate, connecting up to five concurrent endpoints.

Note

If any profile you connect to conflicts with a currently open session, you won't be able to make the connection. Either choose a new connection or disconnect from the session causing the conflict.

8. To view statistics for a connection, choose **Connection** in the **AWS VPN client** window, choose **Show Details**, and then choose the connection you want to see details about.
9. To disconnect a connection, choose a connection in the **AWS VPN client** window, and then choose **Disconnect**. If you have multiple open connections, you must close each connection individually.

AWS Client VPN for macOS release notes

The following table contains the release notes and download links for the current and previous versions of AWS Client VPN for macOS.

Note

We continue to provide usability and security fixes with every release. We strongly recommend that you use the latest version for every platform. Previous versions may be affected by usability and/or security issues. See release notes for details.

Version	Changes	Date	Download link
5.4.0	<ul style="list-style-type: none"> Improved security posture 	June 22, 2026	<ul style="list-style-type: none"> Download macOS ARM64 version 5.4.0 sha256: b9b6c384f d265fc5d2b94467c5d cd80c47c1a1265623f 157ec8b99b833ad82a9 Download macOS x64 version 5.4.0 sha256: c9729ad51 c1ede2551e27d7a7af fedfe9fe7a8935b563 5ddf554715fb8c1a61b
5.3.5	<ul style="list-style-type: none"> Minor bug fixes and enhancements Improved security posture Enabled automatic upgrade to native ARM64 client for ARM-based Mac users in future updates, removing the need for manual migration from the 	May 14, 2026	<ul style="list-style-type: none"> Download macOS ARM64 version 5.3.5 sha256: 048c9011b 7cea43720cb92d7c2f e064c8d853b391ee49 9408736cba5d9111652

Version	Changes	Date	Download link
	Intel-based client running under the Rosetta translation layer		<ul style="list-style-type: none"> Download macOS x64 version 5.3.5 <pre>sha256: 64a84f529 a09b2ee9756dd8f5e1 93b9624b3239bcd76d 9f20411a72d1f93887c</pre>
5.3.4	<ul style="list-style-type: none"> Removed Intel compatibility layer (Rosetta) requirement on ARM machines Minor bug fixes and enhancements 	February 17, 2026	No longer supported.
5.3.3	<ul style="list-style-type: none"> Minor bug fixes and enhancements. Improved security posture. 	December 26, 2025	No longer supported.
5.3.2	<ul style="list-style-type: none"> Added native support for Apple Silicon architecture and a new macOS ARM64 installer. Minor bug fixes and enhancements. 	October 27, 2025	No longer supported.
5.3.1	<ul style="list-style-type: none"> Minor bug fixes and enhancements. 	September 9, 2025	No longer supported.
5.3.0	<ul style="list-style-type: none"> Minor enhancements. Added support for IPv6 connections. 	August 14, 2025	No longer supported.
5.2.1	<ul style="list-style-type: none"> Added support for the ping-exit OpenVPN flag. Updated the OpenSSL library. Improved security posture. Minor bug fixes and enhancements. 	June 18, 2025	No longer supported.

Version	Changes	Date	Download link
5.2.0	<ul style="list-style-type: none"> • Minor enhancements. • Added support for Client Route Enforcement. 	April 8, 2025	No longer supported.
5.1.0	<ul style="list-style-type: none"> • Fixed an issue that caused AWS Client VPN version 5.0.x to automatically reconnect to VPN after an inactivity timeout disconnect. • Fixed an issue that prevented AWS Client VPN from establishing a VPN connection for configuration files with Windows-style line endings. • Minor bug fixes and enhancements. 	March 17, 2025	No longer supported.
5.0.3	Minor bug fixes and enhancements.	March 6, 2025	No longer supported.
5.0.2	Fixed an issue that led to sporadic errors when choosing Connect .	February 17, 2025	No longer supported.
5.0.1	Fixed an issue that prevented client version 5.0.0 from establishing a VPN connection for profile names that contained spaces.	January 22, 2025	No longer supported.
5.0.0	<ul style="list-style-type: none"> • Added support for concurrent connections. • Updated the graphical user interface. • Minor bug fixes and enhancements. 	January 21, 2025	No longer supported.
4.1.0	Minor bug fixes and enhancements.	November 12, 2024	No longer supported.
4.0.0	Minor enhancements.	September 25, 2024	No longer supported.

Version	Changes	Date	Download link
3.12.1	Added support for the <code>mssfix</code> OpenVPN flag.	September 4, 2024	No longer supported.
3.12.0	<ul style="list-style-type: none">Added support for the <code>tap-sleep</code> OpenVPN flag.Updated the OpenVPN and OpenSSL libraries.	August 12, 2024	No longer supported.
3.11.0	<ul style="list-style-type: none">Updated the OpenVPN and OpenSSL libraries.	July 29, 2024	No longer supported.
3.10.0	<ul style="list-style-type: none">Automatically reconnect when local area network ranges change.Fixed a DNS restoration issue during network switch.Removed automatic application focus when connected with SAML endpoints.	May 21, 2024	No longer supported.
3.9.2	<ul style="list-style-type: none">Resolved a SAML authentication issue with Chromium-based browsers since version 123.Added support for macOS Sonoma. Deprecate support for macOS Big Sur.Improved security posture.	April 11, 2024	No longer supported.
3.9.1	<ul style="list-style-type: none">Fixed a buffer overflow action that could potentially allow a local actor to execute arbitrary commands with elevated permissions.Fixed application update download progress bar.Improved security posture.	February 16, 2024	No longer supported.

Version	Changes	Date	Download link
3.9.0	<ul style="list-style-type: none"> Fixed connectivity issues for some LAN configurations. Improved accessibility. 	December 6, 2023	No longer supported.
3.8.0	<ul style="list-style-type: none"> Fixed a connectivity issue when NAT64 is enabled in the client network. Minor bug fixes and enhancements. 	August 24, 2023	No longer supported.
3.7.0	<ul style="list-style-type: none"> Improved security posture. 	August 3, 2023	No longer supported.
3.6.0	<ul style="list-style-type: none"> Improved security posture. 	July 15, 2023	No longer supported.
3.5.0	<ul style="list-style-type: none"> Rolled back changes from 3.4.0. 	July 15, 2023	No longer supported.
3.4.0	<ul style="list-style-type: none"> Improved security posture. 	July 14, 2023	No longer supported.
3.3.0	<ul style="list-style-type: none"> Added support for macOS Ventura (13.0). Minor bug fixes and enhancements. 	April 27, 2023	No longer supported.
3.2.0	<ul style="list-style-type: none"> Added support for "verify-x509-name" OpenVPN flag. Automatically detect when updated versions of the client are available. Added the ability to automatically install new client versions when available. 	January 23, 2023	No longer supported.

Version	Changes	Date	Download link
3.1.0	<ul style="list-style-type: none"> • Added support for macOS Monterey. • Fixed issue for drive type detection. • Improved security posture. 	May 23, 2022	No longer supported.
3.0.0	<ul style="list-style-type: none"> • Fixed the banner message not being displayed when using federated authentication. • Fixed banner text display for longer text. • Enhanced security posture. 	March 3, 2022	No longer supported.
2.0.0	<ul style="list-style-type: none"> • Added support for banner text after new connection is established. • Removed ability to use pull-filter in relation to echo. i.e. pull-filter * echo • Minor bug fixes and enhancements. 	January 20, 2022	No longer supported.
1.4.0	<ul style="list-style-type: none"> • Added DNS server monitoring during connection. Settings will be re-configured if they do not match VPN settings. • Fixed federated authentication connection attempt in some cases. • Minor bug fixes and enhancements. 	November 9, 2021	No longer supported.
1.3.5	<ul style="list-style-type: none"> • Added support for OpenVPN flags: connect-retry-max, dev-type, keepalive, ping, ping-restart, pull, rcvbuf, server-poll-timeout. • Minor bug fixes and enhancements. 	September 20, 2021	No longer supported.
1.3.4	<ul style="list-style-type: none"> • Added support for OpenVPN flag: dhcp-option. • Minor bug fixes and enhancements. 	August 4, 2021	No longer supported.

Version	Changes	Date	Download link
1.3.3	<ul style="list-style-type: none">• Added support for OpenVPN flags: inactive, pull-filter, route.• Fixed an issue with configuration filenames with spaces or Unicode.• Fixed an issue that caused app crashes on disconnect or exit.• Fixed an issue with Active Directory usernames with backslash.• Fixed app crash when manipulating profile list outside of app.• Minor bug fixes and enhancements.	July 1, 2021	No longer supported.
1.3.2	<ul style="list-style-type: none">• Add IPv6 leak prevention, when it is configured.• Fixed a potential crash when you use the Show Details option under Connection.• Add daemon log rotation.	May 12, 2021	No longer supported.
1.3.1	<ul style="list-style-type: none">• Added support for macOS Big Sur (10.16).• Fixed issue that removed DNS settings configured by other applications.• Fixed issue when using a non-valid certificate for mutual authentication causing connectivity issues.• Added support for 'route-ipv6' OpenVPN directive.• Minor bug fixes and enhancements.	April 5, 2021	No longer supported.

Version	Changes	Date	Download link
1.3.0	Added support features such as error reporting, sending diagnostic logs, and analytics.	March 8, 2021	No longer supported.
1.2.5	Minor bug fixes and enhancements.	February 25, 2021	No longer supported.
1.2.4	Minor bug fixes and enhancements.	October 26, 2020	No longer supported.
1.2.3	<ul style="list-style-type: none"> • Added support for comments in the OpenVPN configuration. • Added an error message for TLS handshake errors. • Fixed an uninstall bug that was affecting some users. 	October 8, 2020	No longer supported.
1.2.2	Minor bug fixes and enhancements.	August 12, 2020	No longer supported.
1.2.1	<ul style="list-style-type: none"> • Added support for uninstalling application. • Minor bug fixes and enhancements. 	July 1, 2020	No longer supported.
1.2.0	<ul style="list-style-type: none"> • Added support for SAML 2.0-based federated authentication. • Added support for macOS Catalina (10.15). 	May 19, 2020	No longer supported.
1.1.2	Minor bug fixes and enhancements.	April 21, 2020	No longer supported.

Version	Changes	Date	Download link
1.1.1	<ul style="list-style-type: none"> Fixed issue where DNS was not resolving. Fixed an app crash issue caused by longer connections. Fixed an MFA issue. 	April 2, 2020	No longer supported.
1.1.0	<ul style="list-style-type: none"> Added support for macOS DNS configuration. Added support for OpenVPN static challenge echo functionality to hide or show the text displayed in the user interface. Minor bug fixes and enhancements. 	March 9, 2020	No longer supported.
1.0.0	The initial release.	February 4, 2020	No longer supported.

AWS Client VPN for Linux

These sections describe installing the AWS provided client for Linux and then establishing a VPN connection using the AWS provided client. The AWS provided client for Linux does not support automatic updates. For the latest updates and downloads, see the [the section called "Release notes"](#).

Requirements for connecting to Client VPN with an AWS provided client for Linux

To use the AWS provided client for Linux, the following is required:

- Ubuntu 22.04 LTS (AMD64), Ubuntu 24.04 LTS (AMD64 only), or Ubuntu 26.04 LTS (AMD64 only)

For Client VPN endpoints that use SAML-based federated authentication (single sign-on) the client reserves TCP ports 8096-8115 on your computer.

Before you begin, ensure that your Client VPN administrator has [created a Client VPN endpoint](#) and provided you with the [Client VPN endpoint configuration file](#). If you want to connect to multiple profiles simultaneously, you'll need a configuration file for each profile.

Topics

- [Install the provided AWS Client VPN for Linux](#)
- [Connect to the provided AWS Client VPN for Linux](#)
- [AWS Client VPN for Linux release notes](#)

Install the provided AWS Client VPN for Linux

There are multiple methods that can be used to install the AWS provided client for Linux. Use one of the methods provided in the following options. Before you begin, ensure that you've read the [requirements](#).

Option 1: Install via package repository

1. Add the AWS VPN Client public key to your Ubuntu OS.

```
wget -q0- https://d20adtpz83p9s.cloudfront.net/GTK/latest/debian-repo/awsvpnclient_public_key.asc | sudo tee /etc/apt/trusted.gpg.d/awsvpnclient_public_key.asc
```

2. Use the following command to add the repository to your Ubuntu OS (version 22.04 and above):

```
echo "deb [arch=amd64] https://d20adtpz83p9s.cloudfront.net/GTK/latest/debian-repo/ubuntu main" | sudo tee /etc/apt/sources.list.d/aws-vpn-client.list
```

3. Use the following command to update the repositories on your system.

```
sudo apt-get update
```

4. Use the following command to install the AWS provided client for Linux.

```
sudo apt-get install awsvpnclient
```

Option 2: Install using the .deb package file

1. Download the .deb file from [AWS Client VPN download](#) or by using the following command.

```
curl https://d20adtpz83p9s.cloudfront.net/GTK/latest/awsvpnclient_amd64.deb -o  
awsvpnclient_amd64.deb
```

2. Install the AWS provided client for Linux using the dpkg utility.

```
sudo dpkg -i awsvpnclient_amd64.deb
```

Option 3 -- Install the .deb package using Ubuntu Software Center

1. Download the .deb package file from [AWS Client VPN download](#).
2. After downloading the .deb package file, use the Ubuntu Software Center to install the package. Follow the steps for installing from a standalone .deb package using Ubuntu Software Center, as described on the [Ubuntu Wiki](#).

Connect to the provided AWS Client VPN for Linux

The AWS provided client is also referred to as the *AWS VPN Client* in the following steps.

To connect using the AWS provided client for Linux

1. Open the **AWS VPN Client** app.
2. Choose **File, Manage Profiles**.
3. Choose **Add Profile**.
4. For **Display Name**, enter a name for the profile.
5. For **VPN Configuration File**, browse to the configuration file that you received from your Client VPN administrator. Choose **Open**.
6. Choose **Add Profile**.
7. If you want to create multiple connections, repeat the **Add Profile** steps for each configuration file you want to add. You can add as many profiles as you like, but you can only have up to five open connections.
8. In the **AWS VPN Client** window, choose the profile that you want to connect to, and then choose **Connect**. If the Client VPN endpoint has been configured to use credential-based

authentication, you'll be prompted to enter a user name and password. Repeat this step for each profile connection you want to initiate, connecting up to five concurrent endpoints.

Note

If any profile you connect to conflicts with a currently open session, you won't be able to make the connection. Either choose a new connection or disconnect from the session causing the conflict.

9. To view statistics for a connection, choose **Connection** in the **AWS VPN client** window, choose **Show Details**, and then choose the connection you want to see details about.
10. To disconnect a connection, choose a connection in the **AWS VPN client** window, and then choose **Disconnect**. If you have multiple open connections, you must close each connection individually.

AWS Client VPN for Linux release notes

The following table contains the release notes and download links for the current and previous versions of AWS Client VPN for Linux.

Note

We continue to provide usability and security fixes with every release. We strongly recommend that you use the latest version for every platform. Previous versions may be affected by usability and/or security issues. See release notes for details.

Version	Changes	Date	Download link
5.4.0	<ul style="list-style-type: none"> • Improved security posture 	June 22, 2026	Download version 5.4.0 sha256: 7dd9e2896 2bf64bf94 ef41b8e1f 68de5e0d0

Version	Changes	Date	Download link
			393d71300 767698fb3 36c69276cc
5.3.3	<ul style="list-style-type: none"> • Minor bug fixes and enhancements • Improved security posture 	May 18, 2026	Download version 5.3.3 sha256: d0096c934 b36122c24 5d8c2243d 4146cdac6 7125c7421 c4e1e6ad4 30eb3adfcf
5.3.2	<ul style="list-style-type: none"> • Minor bug fixes and enhancements. • Improved security posture. 	December 17, 2025	No longer supported.
5.3.1	<ul style="list-style-type: none"> • Minor enhancements. 	September 25, 2025	No longer supported.
5.3.0	<ul style="list-style-type: none"> • Minor enhancements. • Added support for IPv6 connections. 	August 14, 2025	No longer supported.
5.2.0	<ul style="list-style-type: none"> • Minor enhancements. • Added support for Client Route Enforcement. 	April 8, 2025	No longer supported.
5.1.0	<ul style="list-style-type: none"> • Fixed an issue that caused AWS Client VPN version 5.0.x to automatically reconnect to VPN after an inactivity timeout disconnect. • Minor bug fixes and enhancements. 	March 17, 2025	No longer supported.

Version	Changes	Date	Download link
5.0.0	<ul style="list-style-type: none"> Added support for multiple concurrent connections. Updated the graphical user interface. Minor bug fixes and enhancements. 	January 21, 2025	No longer supported.
4.1.0	<ul style="list-style-type: none"> Added support for Ubuntu 22.04 and 24.04. Bug fixes. 	November 12, 2024	No longer supported.
4.0.0	Minor enhancements.	September 25, 2024	No longer supported.
3.15.1	Added support for the <code>mssfix</code> OpenVPN flag.	September 4, 2024	No longer supported.
3.15.0	<ul style="list-style-type: none"> Added support for the <code>tap-sleep</code> OpenVPN flag. Updated the OpenVPN and OpenSSL libraries. 	August 12, 2024	No longer supported.
3.14.0	<ul style="list-style-type: none"> Updated the OpenVPN and OpenSSL libraries. 	July 29, 2024	No longer supported.
3.13.0	<ul style="list-style-type: none"> Automatically reconnect when local area network ranges change. 	May 21, 2024	No longer supported.
3.12.2	<ul style="list-style-type: none"> Resolved a SAML authentication issue with Chromium-based browsers since version 123. 	April 11, 2024	No longer supported.
3.12.1	<ul style="list-style-type: none"> Fixed a buffer overflow action that could potentially allow a local actor to execute arbitrary commands with elevated permissions. Improved security posture. 	February 16, 2024	No longer supported.

Version	Changes	Date	Download link
3.12.0	<ul style="list-style-type: none"> Fixed connectivity issues for some LAN configurations. 	December 19, 2023	No longer supported.
3.11.0	<ul style="list-style-type: none"> Rollback for "Fixed connectivity issues for some LAN configurations". Improved accessibility. 	December 6, 2023	No longer supported.
3.10.0	<ul style="list-style-type: none"> Fixed connectivity issues for some LAN configurations. Improved accessibility. 	December 6, 2023	No longer supported.
3.9.0	<ul style="list-style-type: none"> Fixed a connectivity issue when NAT64 is enabled in the client network. Minor bug fixes and enhancements. 	August 24, 2023	No longer supported.
3.8.0	<ul style="list-style-type: none"> Improved security posture. 	August 3, 2023	No longer supported.
3.7.0	<ul style="list-style-type: none"> Improved security posture. 	July 15, 2023	No longer supported.
3.6.0	<ul style="list-style-type: none"> Rolled back changes from 3.5.0. 	July 15, 2023	No longer supported.
3.5.0	<ul style="list-style-type: none"> Improved security posture. 	July 14, 2023	No longer supported.
3.4.0	<ul style="list-style-type: none"> Added support for "verify-x509-name" OpenVPN flag. 	February 14, 2023	No longer supported.
3.1.0	<ul style="list-style-type: none"> Fixed issue for drive type detection. Improved security posture. 	May 23, 2022	No longer supported.

Version	Changes	Date	Download link
3.0.0	<ul style="list-style-type: none"> Fixed the banner message not being displayed when using federated authentication. Fixed banner text display for longer text and specific character sequences. Enhanced security posture. 	March 3, 2022	No longer supported.
2.0.0	<ul style="list-style-type: none"> Added support for banner text after new connection is established. Removed ability to use pull-filter in relation to echo. i.e. pull-filter * echo Minor bug fixes and enhancements. 	January 20, 2022	No longer supported.
1.0.3	<ul style="list-style-type: none"> Fixed federated authentication connection attempt in some cases. Minor bug fixes and enhancements. 	November 8, 2021	No longer supported.
1.0.2	<ul style="list-style-type: none"> Added support for OpenVPN flags: connect-retry-max, dev-type, keepalive, ping, ping-restart, pull, rcvbuf, server-poll-timeout. Minor bug fixes and enhancements. 	September 28, 2021	No longer supported.
1.0.1	<ul style="list-style-type: none"> Enabled option to quit from Ubuntu application bar. Added support for OpenVPN flags: inactive, pull-filter, route. Minor bug fixes and enhancements. 	August 4, 2021	No longer supported.
1.0.0	The initial release.	June 11, 2021	No longer supported.

Connect to an AWS Client VPN endpoint using an OpenVPN client

You can establish a connection to a Client VPN endpoint using common OpenVPN client applications. Client VPN is supported on the following operating systems:

- **Windows**

Use a certificate and private key from the Windows Certificate Store. Once you've generated the certificate and key you can establish an AWS Client connection using either the OpenVPN GUI client application or the OpenVPN GUI Connect Client. For the steps to create the certificate and key, see [Establish a VPN connection using a certificate on Windows](#).

- **macOS**

Establish a VPN connection using a configuration file for macOS-based Tunnelblick or for AWS Client VPN. For more information, see [Establish a VPN connection on macOS](#).

- **Linux**

Establish a VPN connection on Linux using either the **OpenVPN - Network Manager** interface or the OpenVPN application. To use the **OpenVPN - Network Manager** interface you'll first need to install the network manager module if it's not already installed. For more information, see [Establish a VPN connection on Linux](#).

- **Android and iOS**

Establish a VPN connection using the OpenVPN client application on an Android or iOS device. For more information see [Client VPN connections on Android and iOS](#).

Important

If the Client VPN endpoint has been configured to use [SAML-based federated authentication](#), you cannot use the OpenVPN-based VPN client to connect to a Client VPN endpoint. This includes any ARM-based architectures. If you are using a device with an ARM processor (such as Apple Silicon Macs or ARM-based Windows devices), you must use SAML-based VPN endpoints with the AWS provided client instead of OpenVPN clients.

Client applications

- [Connect to an AWS Client VPN endpoint using a Windows client application](#)
- [Connect to an AWS Client VPN endpoint using a macOS client application](#)
- [Connect to an AWS Client VPN endpoint using an OpenVPN client application](#)
- [AWS Client VPN connections on Android and iOS applications](#)

Connect to an AWS Client VPN endpoint using a Windows client application

These sections describe how to establish a VPN connection using Windows-based VPN clients.

Before you begin, ensure that your Client VPN administrator has [created a Client VPN endpoint](#) and provided you with the [Client VPN endpoint configuration file](#). If you want to connect to multiple profiles simultaneously, you'll need a configuration file for each profile.

For troubleshooting information, see [Troubleshooting AWS Client VPN connections with Windows-based clients](#).

Important

If the Client VPN endpoint has been configured to use [SAML-based federated authentication](#), you cannot use the OpenVPN-based VPN client to connect to a Client VPN endpoint. This includes any ARM-based architectures. If you are using a device with an ARM processor (such as Apple Silicon Macs or ARM-based Windows devices), you must use SAML-based VPN endpoints with the AWS provided client instead of OpenVPN clients.

Tasks

- [Use a certificate and establish an AWS Client VPN connection on Windows](#)

Use a certificate and establish an AWS Client VPN connection on Windows

You can configure the OpenVPN client to use a certificate and private key from the Windows Certificate System Store. This option is useful when you use a smart card as part of your Client VPN

connection. For information about the OpenVPN client `cryptoapicert` option, see [Reference Manual for OpenVPN](#) on the OpenVPN website.

Note

The certificate must be stored on the local computer.

To use a certificate and establish a connection

1. Create a `.pfx` file that contains the client certificate and the private key.
2. Import the `.pfx` file to your personal certificate store, on your local computer. For more information, see [How to: View certificates with the MMC snap-in](#) on the Microsoft website.
3. Verify that your account has permissions to read the local computer certificate. You can use the Microsoft Management Console to modify the permissions. For more information, see [Rights to see the local computer certificates store](#) on the Microsoft website.
4. Update the OpenVPN configuration file and specify the certificate by using either the certificate subject, or the certificate thumbprint.

The following is an example of specifying the certificate by using a subject.

```
cryptoapicert "SUBJ:Jane Doe"
```

The following is an example of specifying the certificate by using a thumbprint. You can find the thumbprint by using the Microsoft Management Console. For more information, see [How to: Retrieve the Thumbprint of a Certificate](#) on the Microsoft website.

```
cryptoapicert "THUMB:a5 42 00 42 01"
```

5. After you complete the configuration, use OpenVPN to establish a VPN connection by doing one of the following:
 - **Use the OpenVPN GUI client application**
 1. Start the OpenVPN client application.
 2. On the Windows taskbar, choose **Show/Hide icons**. Right-click **OpenVPN GUI**, and then choose **Import file**.

3. In the Open dialog box, select the configuration file that you received from your Client VPN administrator and choose **Open**.
 4. On the Windows taskbar, choose **Show/Hide icons**. Right-click **OpenVPN GUI**, and then choose **Connect**.
- **Use the OpenVPN GUI Connect Client**
 1. Start the OpenVPN application, and choose **Import, From local file....**
 2. Navigate to the configuration file that you received from your VPN administrator, and choose **Open**.

Connect to an AWS Client VPN endpoint using a macOS client application

These sections describe how to establish a VPN connection using the macOS-based VPN client, Tunnelblick or AWS Client VPN.

Before you begin, ensure that your Client VPN administrator has [created a Client VPN endpoint](#) and provided you with the [Client VPN endpoint configuration file](#). If you want to connect to multiple profiles simultaneously, you'll need a configuration file for each profile.

For troubleshooting information, see [Troubleshooting AWS Client VPN connections with macOS clients](#).

Important

If the Client VPN endpoint has been configured to use [SAML-based federated authentication](#), you cannot use the OpenVPN-based VPN client to connect to a Client VPN endpoint. This includes any ARM-based architectures. If you are using a device with an ARM processor (such as Apple Silicon Macs or ARM-based Windows devices), you must use SAML-based VPN endpoints with the AWS provided client instead of OpenVPN clients.

Topics

- [Establish an AWS Client VPN connection on macOS](#)

Establish an AWS Client VPN connection on macOS

You can establish a VPN connection using the Tunnelblick client application on a macOS computer.

Note

For more information about the Tunnelblick client application for macOS, see the [Tunnelblick documentation](#) on the Tunnelblick website.

To establish a VPN connection using Tunnelblick

1. Start the Tunnelblick client application and choose **I have configuration files**.
2. Drag and drop the configuration file that you received from your VPN administrator in the **Configurations** panel.
3. Select the configuration file in the **Configurations** panel and choose **Connect**.

To establish a VPN connection using AWS Client VPN.

1. Start the OpenVPN application, and choose **Import, From local file...**
2. Navigate to the configuration file that you received from your VPN administrator, and choose **Open**.

Connect to an AWS Client VPN endpoint using an OpenVPN client application

These sections describe how to establish a VPN connection using either OpenVPN - Network Manager or OpenVPN.

Before you begin, ensure that your Client VPN administrator has [created a Client VPN endpoint](#) and provided you with the [Client VPN endpoint configuration file](#). If you want to connect to multiple profiles simultaneously, you'll need a configuration file for each profile.

For troubleshooting information, see [Troubleshooting AWS Client VPN connections with Linux-based clients](#).

Important

If the Client VPN endpoint has been configured to use [SAML-based federated authentication](#), you cannot use the OpenVPN-based VPN client to connect to a Client VPN endpoint. This includes any ARM-based architectures. If you are using a device with an ARM processor (such as Apple Silicon Macs or ARM-based Windows devices), you must use SAML-based VPN endpoints with the AWS provided client instead of OpenVPN clients.

Topics

- [Establish an AWS Client VPN connection on Linux](#)

Establish an AWS Client VPN connection on Linux

Establish a VPN connection using either the Network Manager GUI on an Ubuntu computer or the OpenVPN application.

To establish a VPN connection using OpenVPN - Network Manager

1. Install the network manager module using the following command.

```
sudo apt-get install --reinstall network-manager network-manager-gnome network-manager-openvpn network-manager-openvpn-gnome
```

2. Go to **Settings, Network**.
3. Choose the plus symbol (+) next to **VPN**, and then choose **Import from file...**
4. Navigate to the configuration file that you received from your VPN administrator and choose **Open**.
5. In the **Add VPN** window, choose **Add**.
6. Start the connection by enabling the toggle next to the VPN profile that you added.

To establish a VPN connection using OpenVPN

1. Install OpenVPN using the following command.

```
sudo apt-get install openvpn
```

2. Start the connection by loading the configuration file that you received from your VPN administrator.

```
sudo openvpn --config /path/to/config/file
```

AWS Client VPN connections on Android and iOS applications

Important

If the Client VPN endpoint has been configured to use [SAML-based federated authentication](#), you cannot use the OpenVPN-based VPN client to connect to a Client VPN endpoint. This includes any ARM-based architectures. If you are using a device with an ARM processor (such as Apple Silicon Macs or ARM-based Windows devices), you must use SAML-based VPN endpoints with the AWS provided client instead of OpenVPN clients.

The following information shows how to establish a VPN connection using the OpenVPN client application on an Android or iOS mobile device. The steps for Android and iOS are the same.

Note

For more information about downloading and using the OpenVPN client application for iOS or Android, see the [OpenVPN Connect User Guide](#) on the OpenVPN website.

Before you begin, ensure that your Client VPN administrator has [created a Client VPN endpoint](#) and provided you with the [Client VPN endpoint configuration file](#). If you want to connect to multiple profiles simultaneously, you'll need a configuration file for each profile.

To establish the connection, start the OpenVPN client application, and then import the file that you received from your Client VPN administrator.

Troubleshooting AWS Client VPN connections

Use the following topics to troubleshoot problems that you might have when using a client application to connect to a Client VPN endpoint.

Topics

- [Client VPN endpoint troubleshooting for administrators](#)
- [Send diagnostic logs to AWS Support in the AWS provided client](#)
- [Troubleshooting AWS Client VPN connections with Windows-based clients](#)
- [Troubleshooting AWS Client VPN connections with macOS clients](#)
- [Troubleshooting AWS Client VPN connections with Linux-based clients](#)
- [Troubleshooting common AWS Client VPN problems](#)

Client VPN endpoint troubleshooting for administrators

Some of the steps in this guide can be performed by you. Other steps must be performed by your Client VPN administrator on the Client VPN endpoint itself. The following sections let you know when you need to contact your administrator.

For additional information about troubleshooting Client VPN endpoint issues, see [Troubleshooting Client VPN](#) in the *AWS Client VPN Administrator Guide*.

Send diagnostic logs to AWS Support in the AWS provided client

If you have problems with the AWS provided client and you need to contact AWS Support to help troubleshoot, the AWS provided client has an option for sending the diagnostic logs to AWS Support. The option is available on the Windows, macOS and Linux client applications.

Before you send the files, you must agree to allow AWS Support to access your diagnostic logs. After you agree, we provide you with a reference number that you can give to AWS Support so that they can immediately access the files.

Send diagnostic logs

The AWS provided client is also referred to as the *AWS VPN Client* in the following steps.

To send diagnostic logs using the AWS provided client for Windows

1. Open the **AWS VPN Client** app.
2. Choose **Help, Send Diagnostic Logs**.
3. In the **Send Diagnostic Logs** window, choose **Yes**.
4. In the **Send Diagnostic Logs** window, perform one of the following operations:
 - To copy the reference number to the clipboard, choose **Yes**, and then choose **OK**.
 - To manually track the reference number, choose **No**.

When you contact AWS Support, you will need to provide them with the reference number.

To send diagnostic logs using the AWS provided client for macOS

1. Open the **AWS VPN Client** app.
2. Choose **Help, Send Diagnostic Logs**.
3. In the **Send Diagnostic Logs** window, choose **Yes**.
4. Note the reference number from the confirmation window, and then choose **OK**.

When you contact AWS Support, you will need to provide them with the reference number.

To send diagnostic logs using the AWS provided client for Ubuntu

1. Open the **AWS VPN Client** app.
2. Choose **Help, Send Diagnostic Logs**.
3. In the **Send Diagnostic Logs** window, choose **Send**.
4. Note the reference number from the confirmation window. You are given a choice to copy the information to your clipboard.

When you contact AWS Support, you will need to provide them with the reference number.

Troubleshooting AWS Client VPN connections with Windows-based clients

The following sections contain information about problems that you might have when using Windows-based clients to connect to a Client VPN endpoint.

AWS provided client event logs

The AWS provided client creates event logs and stores them in the following location on your computer.

```
C:\Users\User\AppData\Roaming\AWSVPNClient\logs
```

The following types of logs are available:

- **Application logs:** Contain information about the application. These logs are prefixed with 'aws_vpn_client_'.
- **OpenVPN logs:** Contain information about OpenVPN processes. These logs are prefixed with 'ovpn_aws_vpn_client_'.

The AWS provided client uses the Windows service to perform root operations. Windows service logs are stored in the following location on your computer.

```
C:\Program Files\Amazon\AWS VPN Client\WinServiceLogs\username
```

Troubleshooting topics

- [Client cannot connect](#)
- [Client cannot connect with "no TAP-Windows adapters" log message](#)
- [Client is stuck in a reconnecting state](#)
- [VPN connection process quits unexpectedly](#)
- [Application fails to launch](#)
- [Client cannot create profile](#)
- [VPN disconnects with a pop up message](#)
- [Client crash occurs on Dell PCs using Windows 10 or 11](#)
- [OpenVPN GUI](#)

- [OpenVPN connect client](#)
- [Unable to resolve DNS](#)
- [Missing PKI alias](#)

Client cannot connect

Problem

The AWS provided client cannot connect to the Client VPN endpoint.

Cause

The cause of this problem might be one of the following:

- Another OpenVPN process is already running on your computer, which prevents the client from connecting.
- Your configuration (.ovpn) file is not valid.

Solution

Check to see if there are other OpenVPN applications running on your computer. If there are, stop or quit these processes and try connecting to the Client VPN endpoint again. Check the OpenVPN logs for errors, and ask your Client VPN administrator to verify the following information:

- That the configuration file contains the correct client key and certificate. For more information, see [Export Client Configuration](#) in the *AWS Client VPN Administrator Guide*.
- That the CRL is still valid. For more information, see [Clients Unable to Connect to a Client VPN Endpoint](#) in the *AWS Client VPN Administrator Guide*.

Client cannot connect with "no TAP-Windows adapters" log message

Problem

The AWS provided client cannot connect to the Client VPN endpoint *and* the following error message appears in the application logs: "There are no TAP-Windows adapters on this system. You should be able to create a TAP-Windows adapter by going to Start -> All Programs -> TAP-Windows -> Utilities -> Add a new TAP-Windows virtual ethernet adapter".

Solution

You can remediate this problem by taking one or more of the following actions:

- Restart the TAP-Windows adapter.
- Reinstall the TAP-Windows driver.
- Create a new TAP-Windows adapter.

Client is stuck in a reconnecting state

Problem

The AWS provided client is trying to connect to the Client VPN endpoint, but is stuck in a reconnecting state.

Cause

The cause of this problem might be one of the following:

- Your computer is not connected to the internet.
- The DNS hostname does not resolve to an IP address.
- An OpenVPN process is indefinitely trying to connect to the endpoint.

Solution

Verify that your computer is connected to the internet. Ask your Client VPN administrator to verify that the `remote` directive in the configuration file resolves to a valid IP address. You can also disconnect the VPN session by choosing **Disconnect** in the AWS VPN Client window, and try connecting again.

VPN connection process quits unexpectedly

Problem

While connecting to a Client VPN endpoint, the client quits unexpectedly.

Cause

TAP-Windows is not installed on your computer. This software is required to run the client.

Solution

Rerun the AWS provided client installer to install all of the required dependencies.

Application fails to launch

Problem

On Windows 7, the AWS provided client does not launch when you try to open it.

Cause

.NET Framework 4.7.2 or higher is not installed on your computer. This is required to run the client.

Solution

Rerun the AWS provided client installer to install all of the required dependencies.

Client cannot create profile

Problem

You get the following error when you try to create a profile using the AWS provided client.

```
The config should have either cert and key or auth-user-pass specified.
```

Cause

If the Client VPN endpoint uses mutual authentication, the configuration (.ovpn) file does not contain the client certificate and key.

Solution

Ensure that your Client VPN administrator adds the client certificate and key to the configuration file. For more information, see [Export Client Configuration](#) in the *AWS Client VPN Administrator Guide*.

VPN disconnects with a pop up message

Problem

The VPN disconnects with a pop up message that says: "The VPN connection is being terminated because the address space of the local network your device is connected to has changed. Please establish a new VPN connection."

Cause

TAP-Windows adapter does not contain the required description.

Solution

If the Description field does not match below, first remove the TAP-Windows adapter, then rerun the AWS provided client installer to install all of the required dependencies.

```
C:\Users\jdoe> ipconfig /all

Ethernet adapter Ethernet 2:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : AWS VPN Client TAP-Windows Adapter V9
Physical Address. . . . . : 00-FF-50-ED-5A-DE
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
```

Client crash occurs on Dell PCs using Windows 10 or 11

Problem

On certain Dell PCs (desktop and laptop) that are running Windows 10 or 11, a crash can occur when you're browsing your file system to import a VPN configuration file. If this issue occurs, you'll see messages like the following in the logs of the AWS provided client:

```
System.AccessViolationException: Attempted to read or write protected memory. This is
often an indication that other memory is corrupt.
   at System.Data.SQLite.UnsafeNativeMethods.sqlite3_open_interop(Byte[] utf8Filename,
Int32 flags, IntPtr& db)
   at System.Data.SQLite.SQLite3.Open(String strFilename, SQLiteConnectionFlags
connectionFlags, SQLiteOpenFlagsEnum openFlags, Int32 maxPoolSize, Boolean usePool)
   at System.Data.SQLite.SQLiteConnection.Open()
   at
STCommonShellIntegration.DataShellManagement.CreateNewConnection(SQLiteConnection&
newConnection)
   at STCommonShellIntegration.DataShellManagement.InitConfiguration(Dictionary`2
targetSettings)
   at DBROverlayIcon.DBROverlayIcon.initComponent()
```

Cause

The Dell Backup and Recovery system in Windows 10 and 11 might cause conflicts with the AWS provided client, particularly with the following three DLLs:

- DBRShellExtension.dll
- DBROverlayIconBackupped.dll
- DBROverlayIconNotBackupped.dll

Solution

To avoid this problem, first make sure that your client is up to date with the latest version of the AWS provided client. Go to [AWS Client VPN download](#) and if a newer version is available, upgrade to the latest version.

In addition, do one of the following:

- If you are using the Dell Backup and Recovery application, make sure that it's up to date. A [Dell forum post](#) states that this issue is resolved in newer versions of the application.
- If you're not using the Dell Backup and Recovery application, some action will still need to be taken if you are experiencing this problem. If you do not wish to upgrade the application, as an alternative, you can delete or rename the DLL files. However, note that this will prevent the Dell Backup and Recovery application from functioning completely.

Delete or rename the DLL files

1. Go to Windows Explorer and browse to the location where Dell Backup and Recovery is installed. It typically is installed in the following location, but you might need to search to find it.

```
C:\Program Files (x86)\Dell Backup and Recovery\Components\Shell
```

2. Manually delete the following DLL files from the installation directory, or rename them. Either action will prevent them from being loaded.
 - DBRShellExtension.dll
 - DBROverlayIconBackupped.dll
 - DBROverlayIconNotBackupped.dll

You can rename the files by adding ".bak" to the end of the file name, for example, **DBROverlayIconBackuped.dll.bak**.

OpenVPN GUI

The following troubleshooting information was tested on versions 11.10.0.0 and 11.11.0.0 of the OpenVPN GUI software on Windows 10 Home (64-bit) and Windows Server 2016 (64-bit).

The configuration file is stored in the following location on your computer.

```
C:\Users\User\OpenVPN\config
```

The connection logs are stored in the following location on your computer.

```
C:\Users\User\OpenVPN\log
```

OpenVPN connect client

The following troubleshooting information was tested on versions 2.6.0.100 and 2.7.1.101 of the OpenVPN Connect Client software on Windows 10 Home (64-bit) and Windows Server 2016 (64-bit).

The configuration file is stored in the following location on your computer.

```
C:\Users\User\AppData\Roaming\OpenVPN Connect\profile
```

The connection logs are stored in the following location on your computer.

```
C:\Users\User\AppData\Roaming\OpenVPN Connect\logs
```

Unable to resolve DNS

Problem

The connection fails with the following error.

```
Transport Error: DNS resolve error on 'cvpn-endpoint-xyz123.prod.clientvpn.us-east-1.amazonaws.com (http://cvpn-endpoint-xyz123.prod.clientvpn.us-east-1.amazonaws.com/)' for UDP session: No such host is known.
```

Cause

The DNS name cannot be resolved. The client must prepend a random string to the DNS name to prevent DNS caching; however, some clients do not do this.

Solution

See the solution for [Unable to Resolve Client VPN Endpoint DNS Name](#) in the *AWS Client VPN Administrator Guide*.

Missing PKI alias

Problem

A connection to a Client VPN endpoint that does not use mutual authentication fails with the following error.

```
FATAL:CLIENT_EXCEPTION: connect error: Missing External PKI alias
```

Cause

The OpenVPN Connect Client software has a known issue where it attempts to authenticate using mutual authentication. If the configuration file does not contain a client key and certificate, authentication fails.

Solution

Specify a random client key and certificate in the Client VPN configuration file and import the new configuration into the OpenVPN Connect Client software. Alternatively, use a different client, such as the OpenVPN GUI client (v11.12.0.0) or the Viscosity client (v.1.7.14).

Troubleshooting AWS Client VPN connections with macOS clients

The following sections contain information about logging and problems that you might have when using macOS clients. Please ensure that you are running the latest version of these clients.

AWS provided client event logs

The AWS provided client creates event logs and stores them in the following location on your computer.

```
/Users/username/.config/AWSVPNClient/logs
```

The following types of logs are available:

- **Application logs:** Contain information about the application. These logs are prefixed with 'aws_vpn_client_'.
- **OpenVPN logs:** Contain information about OpenVPN processes. These logs are prefixed with 'ovpn_aws_vpn_client_'.

The AWS provided client uses the client daemon to perform root operations. The daemon logs are stored in the following locations on your computer.

```
/var/log/AWSVPNClient/AcvcHelperErrLog.txt  
/var/log/AWSVPNClient/AcvcHelperOutLog.txt
```

The AWS provided client stores the configuration files in the following location on your computer.

```
/Users/username/.config/AWSVPNClient/OpenVpnConfigs
```

Troubleshooting topics

- [Client cannot connect](#)
- [Client is stuck in a reconnecting state](#)
- [Client cannot create profile](#)
- [Helper tool is required error](#)
- [Tunnelblick](#)
- [Cipher algorithm 'AES-256-GCM' not found](#)
- [Connection stops responding and resets](#)
- [Extended key usage \(EKU\)](#)
- [Expired certificate](#)
- [OpenVPN](#)

- [Cannot resolve DNS](#)

Client cannot connect

Problem

The AWS provided client cannot connect to the Client VPN endpoint.

Cause

The cause of this problem might be one of the following:

- Another OpenVPN process is already running on your computer, which prevents the client from connecting.
- Your configuration (.ovpn) file is not valid.

Solution

Check to see if there are other OpenVPN applications running on your computer. If there are, stop or quit these processes and try connecting to the Client VPN endpoint again. Check the OpenVPN logs for errors, and ask your Client VPN administrator to verify the following information:

- That the configuration file contains the correct client key and certificate. For more information, see [Export Client Configuration](#) in the *AWS Client VPN Administrator Guide*.
- That the CRL is still valid. For more information, see [Clients Unable to Connect to a Client VPN Endpoint](#) in the *AWS Client VPN Administrator Guide*.

Client is stuck in a reconnecting state

Problem

The AWS provided client is trying to connect to the Client VPN endpoint, but is stuck in a reconnecting state.

Cause

The cause of this problem might be one of the following:

- Your computer is not connected to the internet.

- The DNS hostname does not resolve to an IP address.
- An OpenVPN process is indefinitely trying to connect to the endpoint.

Solution

Verify that your computer is connected to the internet. Ask your Client VPN administrator to verify that the `remote` directive in the configuration file resolves to a valid IP address. You can also disconnect the VPN session by choosing **Disconnect** in the AWS VPN Client window, and try connecting again.

Client cannot create profile

Problem

You get the following error when you try to create a profile using the AWS provided client.

```
The config should have either cert and key or auth-user-pass specified.
```

Cause

If the Client VPN endpoint uses mutual authentication, the configuration (`.ovpn`) file does not contain the client certificate and key.

Solution

Ensure that your Client VPN administrator adds the client certificate and key to the configuration file. For more information, see [Export Client Configuration](#) in the *AWS Client VPN Administrator Guide*.

Helper tool is required error

Problem

You get the following error when you try to connect the VPN.

```
AWS VPN Client Helper Tool is required to establish the connection.
```

Solution

See the following article on AWS re:Post. [AWS VPN Client - Helper tool is required error](#)

Tunnelblick

The following troubleshooting information was tested on version 3.7.8 (build 5180) of the Tunnelblick software on macOS High Sierra 10.13.6.

The configuration file for private configurations is stored in the following location on your computer.

```
/Users/username/Library/Application Support/Tunnelblick/Configurations
```

The configuration file for shared configurations is stored in the following location on your computer.

```
/Library/Application Support/Tunnelblick/Shared
```

The connection logs are stored in the following location on your computer.

```
/Library/Application Support/Tunnelblick/Logs
```

To increase the log verbosity, open the Tunnelblick application, choose **Settings**, and adjust the value for **VPN log level**.

Cipher algorithm 'AES-256-GCM' not found

Problem

The connection fails and returns the following error in the logs.

```
2019-04-11 09:37:14 Cipher algorithm 'AES-256-GCM' not found
2019-04-11 09:37:14 Exiting due to fatal error
```

Cause

The application is using an OpenVPN version that doesn't support cipher algorithm AES-256-GCM.

Solution

Choose a compatible OpenVPN version by doing the following:

1. Open the Tunnelblick application.

2. Choose **Settings**.
3. For **OpenVPN version**, choose **2.4.6 - OpenSSL version is v1.0.2q**.

Connection stops responding and resets

Problem

The connection fails and returns the following error in the logs.

```
MANAGEMENT: >STATE:1559117927,WAIT,,,,,,,,
MANAGEMENT: >STATE:1559117928,AUTH,,,,,,,,
TLS: Initial packet from [AF_INET]3.217.107.5:443, sid=df19e70f a992cda3
VERIFY OK: depth=1, CN=server-certificate
VERIFY KU OK
Validating certificate extended key usage
Certificate has EKU (str) TLS Web Server Authentication, expects TLS Web Server
  Authentication
VERIFY EKU OK
VERIFY OK: depth=0, CN=server-cvpn
Connection reset, restarting [0]
SIGUSR1[soft,connection-reset] received, process restarting
```

Cause

The client certificate has been revoked. The connection stops responding after trying to authenticate and is eventually reset from the server side.

Solution

Request a new configuration file from your Client VPN administrator.

Extended key usage (EKU)

Problem

The connection fails and returns the following error in the logs.

```
TLS: Initial packet from [AF_INET]50.19.205.135:443, sid=29f2c917 4856ad34
VERIFY OK: depth=2, O=Digital Signature Trust Co., CN=DST Root CA X3
VERIFY OK: depth=1, C=US, O=Let's Encrypt, CN=Let's Encrypt Authority X3
VERIFY KU OK
```

```
Validating certificate extended key usage
++ Certificate has EKU (str) TLS Web Server Authentication, expects TLS Web Server
Authentication
VERIFY EKU OK
VERIFY OK: depth=0, CN=cvpn-lab.myrandomnotes.com (http://cvpn-lab.myrandomnotes.com/)
Connection reset, restarting [0]
SIGUSR1[soft,connection-reset] received, process restarting
MANAGEMENT: >STATE:1559138717,RECONNECTING,connection-reset,,,,,
```

Cause

The server authentication succeeded. However, the client authentication fails because the client certificate has the extended key usage (EKU) field enabled for server authentication.

Solution

Verify that you are using correct client certificate and key. If necessary, verify with your Client VPN administrator. This error might occur if you're using the server certificate and not the client certificate to connect to the Client VPN endpoint.

Expired certificate

Problem

The server authentication succeeds but the client authentication fails with the following error.

```
WARNING: "Connection reset, restarting [0] , SIGUSR1[soft,connection-reset] received,
process restarting"
```

Cause

The client certificate validity has expired.

Solution

Request a new client certificate from your Client VPN administrator.

OpenVPN

The following troubleshooting information was tested on version 2.7.1.100 of the OpenVPN Connect Client software on macOS High Sierra 10.13.6.

The configuration file is stored in the following location on your computer.

```
/Library/Application Support/OpenVPN/profile
```

The connection logs are stored in the following location on your computer.

```
Library/Application Support/OpenVPN/log/connection_name.log
```

Cannot resolve DNS

Problem

The connection fails with the following error.

```
Mon Jul 15 13:07:17 2019 Transport Error: DNS resolve error on 'cvpn-  
endpoint-1234.prod.clientvpn.us-east-1.amazonaws.com' for UDP session: Host not found  
(authoritative)  
Mon Jul 15 13:07:17 2019 Client terminated, restarting in 2000 ms...  
Mon Jul 15 13:07:18 2019 CONNECTION_TIMEOUT [FATAL-ERR]  
Mon Jul 15 13:07:18 2019 DISCONNECTED  
Mon Jul 15 13:07:18 2019 >FATAL:CONNECTION_TIMEOUT
```

Cause

OpenVPN Connect is unable to resolve the Client VPN DNS name.

Solution

See the solution for [Unable to Resolve Client VPN Endpoint DNS Name](#) in the *AWS Client VPN Administrator Guide*.

Troubleshooting AWS Client VPN connections with Linux-based clients

The following sections contain information about logging, and about problems that you might have when using Linux-based clients. Please ensure that you are running the latest version of these clients.

Topics

- [AWS provided client event logs](#)
- [DNS queries go to a default nameserver](#)
- [OpenVPN \(command line\)](#)
- [OpenVPN through Network Manager \(GUI\)](#)

AWS provided client event logs

The AWS provided client stores log files and configuration files in the following location on your system:

```
/home/username/.config/AWSVPNClient/
```

The AWS provided client daemon process stores log files in the following location on your system:

```
/var/log/aws-vpn-client/
```

For example, you can check the following log files to find errors in the DNS up/down scripts that cause the connection to fail:

- `/var/log/aws-vpn-client/configure-dns-up.log`
- `/var/log/aws-vpn-client/configure-dns-down.log`

DNS queries go to a default nameserver

Problem

Under some circumstances after a VPN connection is established, DNS queries will still go to the default system nameserver, instead of the nameservers that are configured for the ClientVPN endpoint.

Cause

The client interacts with **systemd-resolved**, a service available on Linux systems, which serves as a central piece of DNS management. It is used to configure DNS servers that are pushed from the

ClientVPN endpoint. The problem occurs because **systemd-resolved** doesn't set the highest priority to DNS servers that are provided by the ClientVPN endpoint. Instead, it appends the servers to the existing list of DNS servers that are configured on the local system. As a result, the original DNS servers might still have the highest priority, and therefore be used to resolve DNS queries.

Solution

1. Add the following directive on the first line of the OpenVPN config file, to make sure that all DNS queries are sent to the VPN tunnel.

```
dhcp-option DOMAIN-ROUTE .
```

2. Use the stub resolver provided by **systemd-resolved**. To do this, symlink `/etc/resolv.conf` to `/run/systemd/resolve/stub-resolv.conf` by running the following command on the system.

```
sudo ln -sf /run/systemd/resolve/stub-resolv.conf /etc/resolv.conf
```

3. (Optional) If you do not want **systemd-resolved** to proxy DNS queries, and instead would like the queries to be sent to the real DNS nameservers directly, symlink `/etc/resolv.conf` to `/run/systemd/resolve/resolv.conf` instead.

```
sudo ln -sf /run/systemd/resolve/resolv.conf /etc/resolv.conf
```

You might want to do this procedure in order to bypass the **systemd-resolved** configuration, for example for DNS answer caching, per-interface DNS configuration, DNSSEC enforcement, and so on. This option is especially useful when you have a need to override a public DNS record with a private record when connected to VPN. For example, you might have a private DNS resolver in your private VPC with a record for `www.example.com`, which resolves to a private IP. This option could be used to override the public record of `www.example.com`, which resolves to a public IP.

OpenVPN (command line)

Problem

The connection does not function correctly because DNS resolution is not working.

Cause

The DNS server is not configured on the Client VPN endpoint, or it is not being honored by the client software.

Solution

Use the following steps to check that the DNS server is configured and working correctly.

1. Ensure that a DNS server entry is present in the logs. In the following example, the DNS server 192.168.0.2 (configured in the Client VPN endpoint) is returned in the last line.

```
Mon Apr 15 21:26:55 2019 us=274574 SENT CONTROL [server]: 'PUSH_REQUEST' (status=1)
WRRMon Apr 15 21:26:55 2019 us=276082 PUSH: Received control message:
  'PUSH_REPLY,redirect-gateway def1 bypass-dhcp,dhcp-option DNS 192.168.0.2,route-
gateway 10.0.0.97,topology subnet,ping 1,ping-restart 20,auth-token,ifconfig
10.0.0.98 255.255.255.224,peer-id 0
```

If there is no DNS server specified, ask your Client VPN administrator to modify the Client VPN endpoint and ensure that a DNS server (for example, the VPC DNS server) has been specified for the Client VPN endpoint. For more information, see [Client VPN Endpoints](#) in the *AWS Client VPN Administrator Guide*.

2. Ensure that the `resolvconf` package is installed by running the following command.

```
sudo apt list resolvconf
```

The output should return the following.

```
Listing... Done
resolvconf/bionic-updates,now 1.79ubuntu10.18.04.3 all [installed]
```

If it's not installed, install it using the following command.

```
sudo apt install resolvconf
```

3. Open the Client VPN configuration file (the `.ovpn` file) in a text editor and add the following lines.

```
script-security 2
up /etc/openvpn/update-resolv-conf
down /etc/openvpn/update-resolv-conf
```

Check the logs to verify that the `resolvconf` script has been invoked. The logs should contain a line similar to the following.

```
Mon Apr 15 21:33:52 2019 us=795388 /etc/openvpn/update-resolv-conf tun0 1500 1552
10.0.0.98 255.255.255.224 init
dhcp-option DNS 192.168.0.2
```

OpenVPN through Network Manager (GUI)

Problem

When using the Network Manager OpenVPN client, the connection fails with the following error.

```
Apr 15 17:11:07 OpenVPN 2.4.4 x86_64-pc-linux-gnu [SSL (OpenSSL)] [LZO] [LZ4] [EPOLL]
[PKCS11] [MH/PKTINFO] [AEAD] built on Sep 5 2018
Apr 15 17:11:07 library versions: OpenSSL 1.1.0g 2 Nov 2017, LZ0 2.08
Apr 15 17:11:07 RESOLVE: Cannot resolve host address: cvpn-
endpoint-1234.prod.clientvpn.us-east-1.amazonaws.com:443 (Name or service not known)
Apr 15 17:11:07 RESOLVE: Cannot resolve host
Apr 15 17:11:07 Could not determine IPv4/IPv6 protocol
```

Cause

The `remote-random-hostname` flag is not honored, and the client cannot connect using the `network-manager-gnome` package.

Solution

See the solution for [Unable to Resolve Client VPN Endpoint DNS Name](#) in the *AWS Client VPN Administrator Guide*.

Troubleshooting common AWS Client VPN problems

The following are common problems that you might have when using a client to connect to a Client VPN endpoint.

TLS key negotiation failed

Problem

The TLS negotiation fails with the following error.

```
TLS key negotiation failed to occur within 60 seconds (check your network connectivity)
TLS Error: TLS handshake failed
```

Cause

The cause of this problem might be one of the following:

- Firewall rules are blocking UDP or TCP traffic.
- You're using the incorrect client key and certificate in your configuration (.ovpn) file.
- The client certificate revocation list (CRL) has expired.

Solution

Check to see if the firewall rules on your computer are blocking inbound or outbound TCP or UDP traffic on ports 443 or 1194. Ask your Client VPN administrator to verify the following information:

- That the firewall rules for the Client VPN endpoint do not block TCP or UDP traffic on ports 443 or 1194.
- That the configuration file contains the correct client key and certificate. For more information, see [Export Client Configuration](#) in the *AWS Client VPN Administrator Guide*.
- That the CRL is still valid. For more information, see [Clients Unable to Connect to a Client VPN Endpoint](#) in the *AWS Client VPN Administrator Guide*.

Document history

The following table describes the AWS Client VPN User Guide updates.

Change	Description	Date
AWS provided client (5.4.0) for macOS ARM64 and x64 released	See release notes for details.	June 22, 2026
AWS provided client (5.4.0) for Windows ARM64 and x64 released	See release notes for details.	June 22, 2026
AWS provided client (5.4.0) for Ubuntu released	See release notes for details.	June 22, 2026
AWS provided client (5.3.7) for Windows ARM64 and x64 released	See release notes for details.	June 15, 2026
AWS provided client (5.3.6) for Windows ARM64 and x64 released	See release notes for details.	May 28, 2026
AWS provided client (5.3.5) for Windows ARM64 and x64 released	See release notes for details.	May 27, 2026
AWS provided client (5.3.3) for Ubuntu released	See release notes for details.	May 18, 2026
AWS provided client (5.3.5) for macOS ARM64 and x64 released	See release notes for details.	May 14, 2026

AWS provided client (5.3.4) for Windows ARM64 and x64 released	See release notes for details.	March 26, 2026
AWS provided client (5.3.3) for Windows ARM64 and x64 released	See release notes for details.	February 28, 2026
AWS provided client (5.3.4) for macOS ARM64 and x64 released	See release notes for details.	February 17, 2026
AWS provided client (5.3.2) for Windows ARM64 and x64 released	See release notes for details.	February 17, 2026
AWS provided client (5.3.3) for macOS ARM64 and x64 released	See release notes for details.	December 26, 2025
AWS provided client (5.3.2) for Ubuntu released	See release notes for details.	December 17, 2025
AWS provided client (5.3.2) for macOS x64 released	See release notes for details.	October 27, 2025
AWS provided client (5.3.2) for macOS ARM64 systems released	Support is now added for macOS ARM64-based operating systems. This includes a new AWS Client VPN version 5.3.2 download specifically for macOS ARM64 systems. See Client VPN for macOS Requirements for more details and the AWS Client VPN for macOS release notes for the download link.	October 27, 2025

AWS provided client (5.3.1) for Windows x64 and Arm64 released	See release notes for details.	September 30, 2025
AWS provided client for macOS now supports Tahoe (26.0)	See Requirements for details.	September 25, 2025
AWS provided client (5.3.1) for Ubuntu released	See release notes for details.	September 25, 2025
AWS provided client (5.3.1) for macOS released	See release notes for details.	September 9, 2025
AWS provided client (5.3.0) for Windows Arm64 systems released	Support is now added for Windows Arm64-based operating systems. This includes a new AWS Client VPN version 5.3.0 download specifically for Windows Arm64 systems. See Client VPN for Windows Requirements for more details and the AWS Client VPN for Windows release notes for the download link.	August 26, 2025
AWS provided client (5.3.0) for macOS released	See release notes for details.	August 14, 2025
AWS provided client (5.3.0) for Windows released	See release notes for details.	August 14, 2025
AWS provided client (5.3.0) for Ubuntu released	See release notes for details.	August 14, 2025
AWS provided client (5.2.1) for macOS released	See release notes for details.	June 18, 2025

AWS provided client (5.2.2) for Windows released	See release notes for details.	June 2, 2025
AWS provided client (5.2.1) for Windows released	See release notes for details.	April 21, 2025
AWS provided client (5.2.0) for macOS released	See release notes for details.	April 8, 2025
AWS provided client (5.2.0) for Windows released	See release notes for details.	April 8, 2025
AWS provided client (5.2.0) for Ubuntu released	See release notes for details.	April 8, 2025
AWS provided client (5.1.0) for macOS released	See release notes for details.	March 17, 2025
AWS provided client (5.1.0) for Windows released	See release notes for details.	March 17, 2025
AWS provided client (5.1.0) for Ubuntu released	See release notes for details.	March 17, 2025
Removed support for macOS Monterey and added support for macOS Sonoma (14.0)	See Client VPN for macOS Requirements for details.	March 12, 2025
Removed support for both Ubuntu 18.0.4 (LTS) and Ubuntu 20.04 LTS (AMD64 only)	See Client VPN for Linux Requirements for details.	March 12, 2025
AWS provided client (5.0.3) for macOS released	See release notes for details.	March 6, 2025
AWS provided client (5.0.2) for Windows released	See release notes for details.	February 24, 2025

AWS provided client (5.0.2) for macOS released	See release notes for details.	February 17, 2025
AWS provided client (5.0.1) for Windows released	See release notes for details.	January 30, 2025
AWS provided client (5.0.1) for macOS released	See release notes for details.	January 22, 2025
The AWS provided client now supports up to five concurrent connections	See Support for concurrent connections using an AWS provided client for details.	January 21, 2025
AWS provided client (5.0.0) for macOS released	See release notes for details.	January 21, 2025
AWS provided client (5.0.0) for Windows released	See release notes for details.	January 21, 2025
AWS provided client (5.0.0) for Ubuntu released	See release notes for details.	November 12, 2024
AWS provided client (4.1.0) for macOS released	See release notes for details.	November 12, 2024
AWS provided client (4.1.0) for Windows released	See release notes for details.	November 12, 2024
AWS provided client (4.1.0) for Ubuntu released	See release notes for details.	November 12, 2024
AWS provided client (4.0.0) for macOS released	See release notes for details.	September 25, 2024
AWS provided client (4.0.0) for Windows released	See release notes for details.	September 25, 2024
AWS provided client (4.0.0) for Ubuntu released	See release notes for details.	September 25, 2024

AWS provided client (3.15.1) for Ubuntu released	See release notes for details.	September 4, 2024
AWS provided client (3.14.2) for Windows released	See release notes for details.	September 4, 2024
AWS provided client (3.12.1) for macOS released	See release notes for details.	September 4, 2024
AWS provided client (3.14.1) for Windows released	See release notes for details.	August 22, 2024
AWS provided client (3.15.0) for Ubuntu released	See release notes for details.	August 12, 2024
AWS provided client (3.14.0) for Windows released	See release notes for details.	August 12, 2024
AWS provided client (3.12.0) for macOS released	See release notes for details.	August 12, 2024
AWS provided client (3.14.0) for Ubuntu released	See release notes for details.	July 29, 2024
AWS provided client (3.13.0) for Windows released	See release notes for details.	July 29, 2024
AWS provided client (3.11.0) for macOS released	See release notes for details.	July 29, 2024
AWS provided client (3.12.1) for Windows released	See release notes for details.	July 18, 2024
AWS provided client (3.13.0) for Ubuntu released	See release notes for details.	May 21, 2024
AWS provided client (3.12.0) for Windows released	See release notes for details.	May 21, 2024

AWS provided client (3.10.0) for macOS released	See release notes for details.	May 21, 2024
AWS provided client (3.9.2) for macOS released	See release notes for details.	April 11, 2024
AWS provided client (3.12.2) for Ubuntu released	See release notes for details.	April 11, 2024
AWS provided client (3.11.2) for Windows released	See release notes for details.	April 11, 2024
AWS provided client (3.9.1) for macOS released	See release notes for details.	February 16, 2024
AWS provided client (3.12.1) for Ubuntu released	See release notes for details.	February 16, 2024
AWS provided client (3.11.1) for Windows released	See release notes for details.	February 16, 2024
AWS provided client (3.12.0) for Ubuntu released	See release notes for details.	December 19, 2023
AWS provided client (3.9.0) for macOS released	See release notes for details.	December 6, 2023
AWS provided client (3.11.0) for Windows released	See release notes for details.	December 6, 2023
AWS provided client (3.11.0) for Ubuntu released	See release notes for details.	December 6, 2023
AWS provided client (3.10.0) for Ubuntu released	See release notes for details.	December 6, 2023
AWS provided client (3.9.0) for Ubuntu released	See release notes for details.	August 24, 2023

AWS provided client (3.8.0) for macOS released	See release notes for details.	August 24, 2023
AWS provided client (3.10.0) for Windows released	See release notes for details.	August 24, 2023
AWS provided client (3.9.0) for Windows released	See release notes for details.	August 3, 2023
AWS provided client (3.8.0) for Ubuntu released	See release notes for details.	August 3, 2023
AWS provided client (3.7.0) for macOS released	See release notes for details.	August 3, 2023
AWS provided client (3.8.0) for Windows released	See release notes for details.	July 15, 2023
AWS provided client (3.7.0) for Windows released	See release notes for details.	July 15, 2023
AWS provided client (3.7.0) for Ubuntu released	See release notes for details.	July 15, 2023
AWS provided client (3.6.0) for macOS released	See release notes for details.	July 15, 2023
AWS provided client (3.6.0) for Ubuntu released	See release notes for details.	July 15, 2023
AWS provided client (3.5.0) for macOS released	See release notes for details.	July 15, 2023
AWS provided client (3.6.0) for Windows released	See release notes for details.	July 14, 2023
AWS provided client (3.5.0) for Ubuntu released	See release notes for details.	July 14, 2023

AWS provided client (3.4.0) for macOS released	See release notes for details.	July 14, 2023
AWS provided client (3.3.0) for macOS released	See release notes for details.	April 27, 2023
AWS provided client (3.5.0) for Windows released	See release notes for details.	April 3, 2023
AWS provided client (3.4.0) for Windows released	See release notes for details.	March 28, 2023
AWS provided client (3.3.0) for Windows released	See release notes for details.	March 17, 2023
AWS provided client (3.4.0) for Ubuntu released	See release notes for details.	February 14, 2023
AWS provided client (3.2.0) for macOS released	See release notes for details.	January 23, 2023
AWS provided client (3.2.0) for Windows released	See release notes for details.	January 23, 2023
AWS provided client (3.1.0) for macOS released	See release notes for details.	May 23, 2022
AWS provided client (3.1.0) for Windows released	See release notes for details.	May 23, 2022
AWS provided client (3.1.0) for Ubuntu released	See release notes for details.	May 23, 2022
AWS provided client (3.0.0) for macOS released	See release notes for details.	March 3, 2022
AWS provided client (3.0.0) for Windows released	See release notes for details.	March 3, 2022

AWS provided client (3.0.0) for Ubuntu released	See release notes for details.	March 3, 2022
AWS provided client (2.0.0) for macOS released	See release notes for details.	January 20, 2022
AWS provided client (2.0.0) for Windows released	See release notes for details.	January 20, 2022
AWS provided client (2.0.0) for Ubuntu released	See release notes for details.	January 20, 2022
AWS provided client (1.4.0) for macOS released	See release notes for details.	November 9, 2021
AWS provided client for Windows (1.3.7) released	See release notes for details.	November 8, 2021
AWS provided client (1.0.3) for Ubuntu released	See release notes for details.	November 8, 2021
AWS provided client (1.0.2) for Ubuntu released	See release notes for details.	September 28, 2021
AWS provided client for Windows (1.3.6) and macOS (1.3.5) released	See release notes for details.	September 20, 2021
AWS provided client for Ubuntu 18.04 LTS and Ubuntu 20.04 LTS released	You can use the AWS-provided client on Ubuntu 18.04 LTS and Ubuntu 20.04 LTS.	June 11, 2021
Support for OpenVPN using a certificate from the Windows Certificate System Store	You can use OpenVPN with a certificate from the Windows Certificate System Store.	February 25, 2021

Self-service portal	You can access a self-service portal to get the latest AWS provided client and configuration file.	October 29, 2020
AWS provided client	You can use the AWS provided client to connect to a Client VPN endpoint.	February 4, 2020
Initial release	This release introduces AWS Client VPN.	December 18, 2018