

Understand Endpoint Diagnostics Tool (CEDT)

Contents

[Introduction](#)

[Prerequisites](#)

[System Data Collected](#)

[General System Information](#)

[Network Configuration](#)

[Product Information](#)

[Step-by-Step Walkthrough](#)

[Welcome Screen](#)

[Actions](#)

[Step 1: Diagnostic Data Collection](#)

[Network Diagnostic](#)

[Data Collection](#)

[Debug](#)

[Platform Specific](#)

[Actions](#)

[Step 2: Add Diagnostic Details](#)

[DNS Lookup Settings](#)

[Packet Capture Settings](#)

[Packet Capture Tools by Platform](#)

[Packet Capture Output Files](#)

[Ping Settings](#)

[URL Reachability Settings](#)

[Policy Test Settings](#)

[HAR Capture Settings](#)

[KDF Settings](#)

[Reserved IP Settings](#)

[Reserved IP Details](#)

[Performance Diagnostics](#)

[Actions](#)

[Pause and Continue](#)

[Administrator Privileges Prompt](#)

[Diagnostics in Progress](#)

[Diagnostics Complete — Upload to TAC](#)

[Upload Complete — Final Screen](#)

[Actions](#)

[Output Location](#)

[Troubleshooting](#)

[FAQ](#)

Introduction

This document describes the CEDT to collect diagnostic data from your system and upload it to a Cisco TAC support case.

Prerequisites

The tool is available for MacOS and Windows. [Download the tool.](#)

Cisco recommends that you have knowledge of these topics:

- MacOS: Double-click Cisco Endpoint Diagnostics Tool (CEDT).app to launch.
- Windows: Double-click CEDT.exe to launch.
- An active internet connection.
- A Cisco TAC Case ID and Token (required only if you want to upload results directly).

System Data Collected

The tool collects this system data, organized by category. No personal data of any kind is captured.

General System Information

Data	macOS	Windows
OS, hardware, CPU, RAM, storage	<code>system_profiler</code> <code>SPSoftwareDataType</code> <code>SPHardwareDataType</code>	<code>systeminfo</code> , WMI classes (<code>Win32_OperatingSystem</code> , <code>Win32_ComputerSystem</code> , <code>Win32_BIOS</code>)
Kernel parameters	<code>sysctl -a</code>	N/A

Network Configuration

Data	macOS	Windows
Network interfaces & IP addresses	<code>ifconfig -a</code>	<code>ipconfig /all</code>
Routing table	<code>netstat -rn</code>	<code>netstat -rn</code>
DNS configuration	<code>scutil --dns</code>	(included in <code>ipconfig /all</code>)
Network services	<code>networksetup -listallnetworkservices</code>	<code>netsh interface show interface</code>
WiFi profiles	N/A	<code>netsh wlan show profiles</code>

Product Information

Data	macOS	Windows
Cisco preferences/config files	<code>/Library/Preferences/com.cisco.*</code>	Registry exports (<code>HKLM\SOFTWARE\Cisco</code> , <code>HKCU\SOFTWARE\Cisco</code> , <code>acsock service</code>)
Installation directories	<code>ls -laR /opt/cisco</code>	<code>%ProgramFiles%\Cisco</code> , <code>%ProgramFiles(x86)%\Cisco</code> , <code>%ProgramData%\Cisco</code>
Running Cisco processes	<code>ps aux grep -i cisco</code>	<code>tasklist findstr /i cisco</code> , <code>WMI Win32_Process</code>
Installed Cisco products	<code>mdfind</code> for Cisco apps	WMI <code>Win32_Product</code> (vendor Cisco)
Application logs	Cisco Secure Client log directories	<code>%ProgramData%\Cisco\Cisco Secure Client\Logs</code>
Event logs	N/A	Windows Event Log (Cisco Secure Client - Zero Trust Access, Application provider *Cisco*)
Crash reports	<code>~/Library/Logs/DiagnosticReports/cisco*</code> (last 7 days)	N/A

Step-by-Step Walkthrough

Welcome Screen

When you launch CEDT, the Welcome screen is displayed. It provides an overview of what the tool does:

- System scanning — Scans your system for detected Cisco Secure Access modules.
- Application logs — Collects diagnostic log file data generated by client software and the service infrastructure.
- System data — The collection of system data is secure, encrypted, and only related to Secure Access diagnostics.

Welcome to the Client Endpoint Diagnostic Tool

Use this tool to collect diagnostic data, which helps the Cisco Support team quickly identify and resolve your issues.

System scanning
The following scans are run on your system's detected Secure Access modules.

Application logs
Collects diagnostic log file data generated by client software and the service infrastructure.

System data
The collection of system data is secure, encrypted, and only related to Secure Access diagnostics.

Detected Cisco Secure Access modules
Select products to diagnose. Cisco only scanning your system for Secure Access related modules. Not personal data of any kind is captured.

- Secure Web Gateway – unknown
- Zero Trust Access (ZTNA) – v5.1.14.3417
- Remote Access VPN – v5.1.14.145
- Common System Information

Cancel Help Start

On the right side, the tool automatically detects any installed Cisco Secure Access modules on your system.

You can see checkboxes for each detected module along with its version number:

- Zero Trust Access (ZTNA)
- Secure Web Gateway (SWG)
- Remote Access VPN (RAVPN)
- Common System Information (always available)

Actions

1. Select or deselect the products you want to diagnose.
2. Click **Let's Start** to proceed, or click **Help** for more information.



Note: This tool only collects data for Secure Access related modules. No personal data of any kind is captured.

The screenshot shows the Cisco Client Endpoint Diagnostic Tool interface. At the top left is the Cisco logo. In the center, there is a white square icon with a blue heartbeat line. Below this, the text reads "Welcome to the Client Endpoint Diagnostic Tool" and "Use this tool to collect diagnostic data, which helps the Cisco Support team quickly identify and resolve your issues." The interface is divided into two main sections. On the left, there are three light gray boxes: "System scanning" (with a lightning bolt icon) stating "The following scans are run on your system's detected Secure Access modules.", "Application logs" (with a shield icon) stating "Collects diagnostic log file data generated by client software and the service infrastructure.", and "System data" (with a checkmark icon) stating "The collection of system data is secure, encrypted, and only related to Secure Access diagnostics." On the right, there is a larger light gray box titled "Detected Cisco Secure Access modules" with the instruction "Select products to diagnose. Cisco only scanning your system for Secure Access related modules. Not personal data of any kind is captured." This box contains a list of modules with checkboxes: "Secure Web Gateway – unknown" (unchecked), "Zero Trust Access (ZTNA) – v5.1.14.3417" (checked), "Remote Access VPN – v5.1.14.145" (checked), and "Common System Information" (checked). At the bottom left is a "Cancel" button, and at the bottom right are "Help" and "Start" buttons.

Step 1: Diagnostic Data Collection

This screen lets you choose which diagnostic tests and data collection modules to include.

Network Diagnostic

Select which connectivity tests to run:

- **DNS Lookup** — Performs DNS resolution tests against specified hosts. Supports custom resolver IPs for targeted lookups. All results are consolidated into a single output file (dns/dns_lookups.txt) with structured section delimiters.
- **Packet Capture** — Captures network packets for a specified duration (requires administrator privileges).
- **Ping Hosts** — Pings specified hosts to check connectivity.
- **Policy Test Output** — Tests policy enforcement against specified URLs using the Cisco policy test endpoint (policy.test.sse.cisco.com). Supports multiple comma-separated hosts (maximum 10). Results include HAR data automatically captured during the policy test navigation.
- **Network Speed Test** — Measures upload/download speed and latency against the Cisco speed test endpoint (speed.test.sse.cisco.com). Collects download speed (6 parallel streams), upload speed (3 parallel streams), and ping latency/jitter (10 ICMP samples). Results are saved in both JSON and text summary formats.
- **URL Reachability** — Checks whether specified URLs are reachable using HTTP GET requests. Supports both HTTP (port 80) and HTTPS (port 443) by default. Non-standard ports can be specified in the URL (such as <https://example.com:8443>). Maximum 20 URLs per check with a 30-second timeout per URL. Data collected per URL includes: URL, reachability status, HTTP status code, response time (ms), content length, resolved IP address, TLS version, and timestamp. Results are saved to reachability/reachability_results.json and reachability/reachability_summary.txt.

Data Collection

Select modules to collect performance and connectivity data:

- **HAR Capture** — Records HTTP Archive (HAR) data from a browser session. Currently supports Google Chrome only (uses the Chrome DevTools Protocol via headless browser automation). The tool

auto-detects the Chrome installation on your system. Firefox and Safari are not supported at this time. HAR output follows the HAR 1.2 specification and includes full network traces (including JS-triggered XHR/fetch calls).

- **DART Bundle Collection** — Collects a DART diagnostic bundle from the Cisco Secure Client. This includes all module logs, including Zero Trust Access (ZTA) logs (such as flowlog.db on Windows at C:\ProgramData\Cisco\Cisco Secure Client\ZTA\logs\).
- **Reserved IP** — Runs reserved IP diagnostic checks. See the next section for the complete list of diagnostics collected.

Debug

- **Enable Debug Flags** — Collect detailed logs of endpoint activities to diagnose endpoint issues. This option is only available when at least one Cisco Secure Access product is detected and selected.

Platform Specific

- **DebugView Capture (Windows)** — Enables debug logging on the Windows Secure Endpoint Connector. This option is only available on Windows systems.

Ready to start diagnostics

Cisco Client Endpoint Diagnostic Tool

Step 1: Diagnostic Data Collection

Select from the options listed here to collect diagnostic data from your system.

Network Diagnostic

Select which tests to run to collect system connectivity data.

- DNS Lookup
- Packet Capture
- Ping Hosts
- Policy Test Output
- Network Speed Test
- URL Reachability
- Page Load Time
- Connection Type Detection
- Proxy / PAC Configuration
- Debug Page Load

Data Collection

Select modules to collect performance and connectivity issues.

- HTTP Archive Capture
- Secure Client DART bundle collection
- Reserved IP Addresses
- Certificate Store Inventory
- Browser Detection

Cancel

Back

Step 2: Add diagnostic details

Actions

1. Check or uncheck the diagnostic options you want.
2. Click Step 2: **Add diagnostic details** to proceed.
3. Click **Back** to return to the Welcome screen, or **Cancel** to exit.

Step 2: Add Diagnostic Details

This screen lets you configure the specific parameters for each enabled diagnostic test. Only settings for tests you enabled in Step 1 are shown.

DNS Lookup Settings

- Hosts to lookup — Enter one or more hostnames (comma-separated). Example: cisco.com
- Resolver IPs (optional) — Enter custom DNS resolver IPs (comma-separated). Example: 208.67.222.222, 208.67.220.220. Leave empty to use the system default DNS resolver. When specified, each host is queried against each resolver, providing comparative DNS resolution results across different DNS servers.

All DNS lookup results are consolidated into a single output file: dns/dns_lookups.txt, with structured TextFSM section delimiters for each host/resolver combination.

Cisco Client Endpoint Diagnostic Tool

Step 2: Add diagnostic details

Add details for the listed diagnostic settings to fine tune your tests.

Hosts to lookup

Resolver IPs (optional)

Comma-separated DNS resolver IPs. Leave empty to use system default.

Packet Capture Settings

- Interfaces — Select the network interface to capture on (or leave as All).
 - When set to All (auto mode):
 - macOS/Linux: The tool runs **tcpdump -D** to enumerate all available interfaces, then filters for interfaces that are **Up and Running** (excluding disconnected interfaces). If no active interfaces are found, it falls back to the special any interface. Captures run on all matching interfaces in parallel.
 - Windows: Captures on all NICs using the selected capture backend (see tools in the next section). When using **dumpcap** with no interface selected, up to the first 3 detected interfaces are captured simultaneously.

- Packet count — Number of packets to capture per interface. Default: **100**. Maximum: **10,000**.
- Duration (sec) — Maximum capture duration in seconds. Default: **20** seconds on macOS/Linux, **5** seconds on Windows. Maximum: **300** seconds. The capture stops when either the packet count or duration limit is reached, whichever comes first.

Packet Capture Tools by Platform



Note: (Windows): The tool automatically selects the best available capture backend. `pktmon` is preferred (built into Windows 10 v2004+), falling back to `dumpcap` (if Wireshark is installed), then `netsh trace` as a last resort.

Platform	Primary Tool	Fallback 1	Fallback 2
macOS/Linux	<code>tcpdump</code>	N/A	N/A
Windows	<code>pktmon</code> (Packet Monitor) — captures to ETL, converts to PCAPNG	<code>dumpcap</code> (Wireshark) — captures to PCAP	<code>netsh trace</code> — captures to ETL

Packet Capture Settings

Interfaces ⓘ

en0 (ISP) × lo0 (Loopback) × utun5 (VPN) ×

Packet count (max 10,000)

10000

Duration (max 300 sec)

300

Packet Capture Output Files

The capture of each interface is saved as a separate file using the naming convention: `tcpdump/{interface_name}_capture.pcap` (such as `en0_capture.pcap`, `eth0_capture.pcap`). A metadata manifest file (`tcpdump/packet_capture_manifest.txt`) is also generated, recording the platform, packet count, duration, interfaces captured, and capture backend used.

Ping Settings

- Host/s to ping — Enter hosts to ping (comma-separated). Example: www.cisco.com

Ping Settings

Host/s to ping (comma-separated)

URL Reachability Settings

- URLs to check — Enter URLs to test (comma-separated). Example: <https://github.com>
 - Uses **HTTP GET** requests to test reachability.
 - Default ports: **80** (HTTP) / **443** (HTTPS). Include the port in the URL for non-standard ports (such as <https://example.com:8443>).
 - Maximum **20 URLs** per check.
 - Timeout: **30 seconds** per URL.
 - Data collected per URL: URL, reachability status, HTTP status code, response time (ms), content length, resolved IP address, TLS version, and timestamp.
 - Results are saved to reachability/reachability_results.json and reachability/reachability_summary.txt.

URL Reachability Settings

URLs to check (comma-separated)

Policy Test Settings

- Host URLs — Enter hosts for policy testing (comma-separated, maximum 10). Example: www.cisco.com
- Policy tests are executed against the Cisco policy test endpoint: policy.test.sse.cisco.com
- Results include both structured policy test output and HAR data automatically captured during the test navigation.

Policy Test Settings

Host URLs

www.cisco.com

HAR Capture Settings

- Target URLs — Enter URLs for HAR capture (comma-separated). Example: <https://www.cisco.com/>



Tip: HAR capture currently supports Google Chrome only. The tool uses the Chrome DevTools Protocol (via chromedp) to automate a headless Chrome session and capture network traffic. Ensure Google Chrome is installed on your system. Firefox and Safari are not supported at this time.

HAR Capture Settings

Target URLs

www.cisco.com|

Comma-separated URLs, e.g., <https://www.cisco.com/>

KDF Settings

Configure the Key Derivation Function flags used during diagnostic collection. KDF flags control which debug categories are enabled in the Cisco Secure Client:

- KDF preset — Select a **Key Derivation Function** preset.
- KDF HEX — The hex value is auto-populated based on the selected preset. When "Custom" is selected, enter your own hex value.

Preset	Hex Value	Description
Module Default	<i>(none)</i>	No KDF override is applied. The Cisco Secure Client's built-in module defaults are used. This preserves the customer's current debug settings.
DNS/OpenDNS	0x20801FF	Enables DNS resolution and OpenDNS proxy debug flags via <code>acsocktool -sdf</code> .
SWG Proxy+DNS	0x70C01FF	Enables SWG + DNS debug flags via <code>acsocktool -sdf</code> . Also sets <code>SWGConfigOverride.json</code> with <code>"logLevel": "1"</code> for enhanced SWG logging.

ZTA (ZTNA)	0x400080152	Enables ZTA debug flags via <code>acsocktool -sdf</code> . Also sets <code>logconfig.json</code> with <code>"global": "DBG_TRACE"</code> for maximum verbosity logging. May trigger a VPN agent restart on Windows.
Custom	User-provided	Allows entering a custom hex value for advanced troubleshooting.

KDF Settings

KDF preset

Module Default (no override) ▼

KDF HEX

0x20801FF

Extra args

optional, e.g., -u -t

optional, e.g., -u -t

KDF Settings

KDF preset

Module Default (no override) ^

Module Default (no override) ✓

DNS/OpenDNS

SWG Proxy+DNS

ZTA

Custom

Reserved IP Settings

- NSLookup URLs — Optional custom **nslookup** hosts (comma-separated). Maximum 10 URLs. Each custom host is queried against all configured resolvers.
- Trace URLs — Optional custom traceroute/tracert hosts (comma-separated). Maximum 10 URLs. The tool automatically uses **traceroute** on macOS/Linux and **tracert** on Windows.
- Resolver IPs — Optional custom resolver IPs for **nslookup** queries (comma-separated, such as 208.67.222.222, 222, 208.67.220.220). Maximum 5 IPs. When specified, custom resolvers are used in addition to the three built-in resolvers (system default DNS, 127.0.0.1, 208.67.222.222).

Reserved IP Settings

NSLookup URLs

proxy [REDACTED]tia.sse.cisco.com

optional custom nslookup hosts (comma separated)

Traceroute URLs

proxy [REDACTED]tia.sse.cisco.com

optional custom traceroute hosts (comma-separated)

Resolver IPs (optional)

208.67.222.222]

Comma-separated resolver IPs. Leave empty to use system default.

Reserved IP Details

The Reserved IP diagnostic collects this data by default:

Default Traceroute/Tracert targets (run against all of these automatically):

Target	Purpose
208.67.222.222	Route to OpenDNS primary nameserver
208.67.220.220	Route to OpenDNS secondary nameserver
146.112.255.50	Route to Cisco SWG infrastructure IP
swg-url-proxy-https-sse.sigproxy.qq.opendns.com	Route to SWG proxy hostname

- macOS/Linux: Uses **traceroute** command
- Windows: Uses **tracert** command

Default NSLookup queries (run against all of these automatically):

Every nslookup target is queried against each resolver in the resolver list. By default, the resolver list includes three built-in resolvers:

Resolver	Description
System default DNS	The OS-configured DNS resolver (no explicit server argument)
127.0.0.1	Localhost / local DNS proxy (e.g., Cisco Secure Client's local resolver)
208.67.222.222	OpenDNS public resolver

If custom **Resolver IPs** are configured (such as 208.67.222.222), those are added to the resolver list and every **nslookup** target is also queried against them.

NSLookup targets:

Target	Query Type	Purpose
debug.opendns.com	TXT (-type=txt)	OpenDNS debug record — returns device identity, organization ID, policy flags, and server info
swg-url-proxy-https-sse.sigproxy.qq.opendns.com	A (default)	SWG proxy hostname resolution — verifies DNS is correctly resolving the SWG proxy endpoint

For example, with the default 3 resolvers, this produces 6 **nslookup** queries (2 targets x 3 resolvers). Adding one custom resolver IP increases this to 8 queries (2 targets x 4 resolvers).

Custom user-supplied NSLookup URLs are each queried against the same full resolver list (built-in + custom resolvers).

All results are consolidated into a single file: reserved_ip/reserved_ip_diagnostics.txt, grouped by section (**traceroute**, **nslookup**) with human-readable headers indicating the target and resolver for each entry.

Performance Diagnostics

Compares page load times through SWG proxy vs Direct Internet Access (DIA). It has two modes:

1 **Overall Diagnostic Mode**: Each URL is tested both through the current proxy and directly, then results are compared side-by-side. Optionally generates HAR files for detailed analysis.

Performance Diagnostics

Compares page load times through SWG proxy vs Direct Internet Access (DIA). Each URL is tested both through the current proxy and directly, then results are compared side-by-side. Optionally generates HAR files for detailed analysis.

Diagnostic Mode

Overall Diagnostic

Default URLs (always tested)

https://amazon.com
https://ebay.com
https://bing.com
https://en.wikipedia.org
https://facebook.com

Additional URLs (optional, comma-separated)

https://your-site.com, https://internal-app.example.com

Generate HAR files (captures full network waterfall via headless browser)

Number of test runs per URL

3

Results are averaged across runs. HAR mode uses a single run.

2 One URL Diagnostic Mode: We can enter specific URL to be tested via both through the current proxy and directly, then results are compared side-by-side. Optionally generates HAR files for detailed analysis.

Diagnostic Mode

One URL Diagnostic

URL to test

https://www.example.com

Generate HAR files (captures full network waterfall via headless browser)

Number of test runs per URL

3

Results are averaged across runs. HAR mode uses a single run.

Certificate Store Inventory Settings

- Enumerates certificates from configured certificate stores:
 - System

- Login
- Root
- And more
- Quickly identifies missing, expired, or untrusted certificates

Certificate Store Inventory Settings

Collects certificates from system certificate stores to identify missing, expired, or untrusted certificates.

Certificate stores to scan (comma-separated, leave blank for all)

Debug Page Load Settings:

- Loads configurable debug URLs.
- Captures:
 - Response headers
 - Response body
 - Timing information
 - SSL metadata

Debug Page Load Settings

Loads debug/diagnostic web pages and captures rendered content and timing data.

Debug page URLs (comma-separated)

Actions

1. Fill in or adjust the settings for each enabled diagnostic.
2. Click **Start Diagnostics** to begin the diagnostic run.
3. Click **Back** to return to Step 1, or **Cancel** to exit



Note: Fields with validation errors are highlighted. You must correct them before the diagnostics can start.

Pause and Continue

When you run a diagnostic collection that includes advanced troubleshooting (for example ZTNA or SWG tracing), the Cisco Endpoint Diagnostic Tool can **pause** partway through the run and ask you to reproduce the problem before it continues.

This gives you time to trigger the issue *while* detailed logging is turned on, so the support team receives more useful diagnostic data.

- When the **Diagnostics Paused** window appears, read the message — it tells you which logging features are now active.
- **Reproduce the issue** you are troubleshooting. For example:
 - Reconnect to VPN
 - Open the internal application that is failing
 - Repeat the steps that cause the error
- When you are done reproducing the issue, click **Continue**

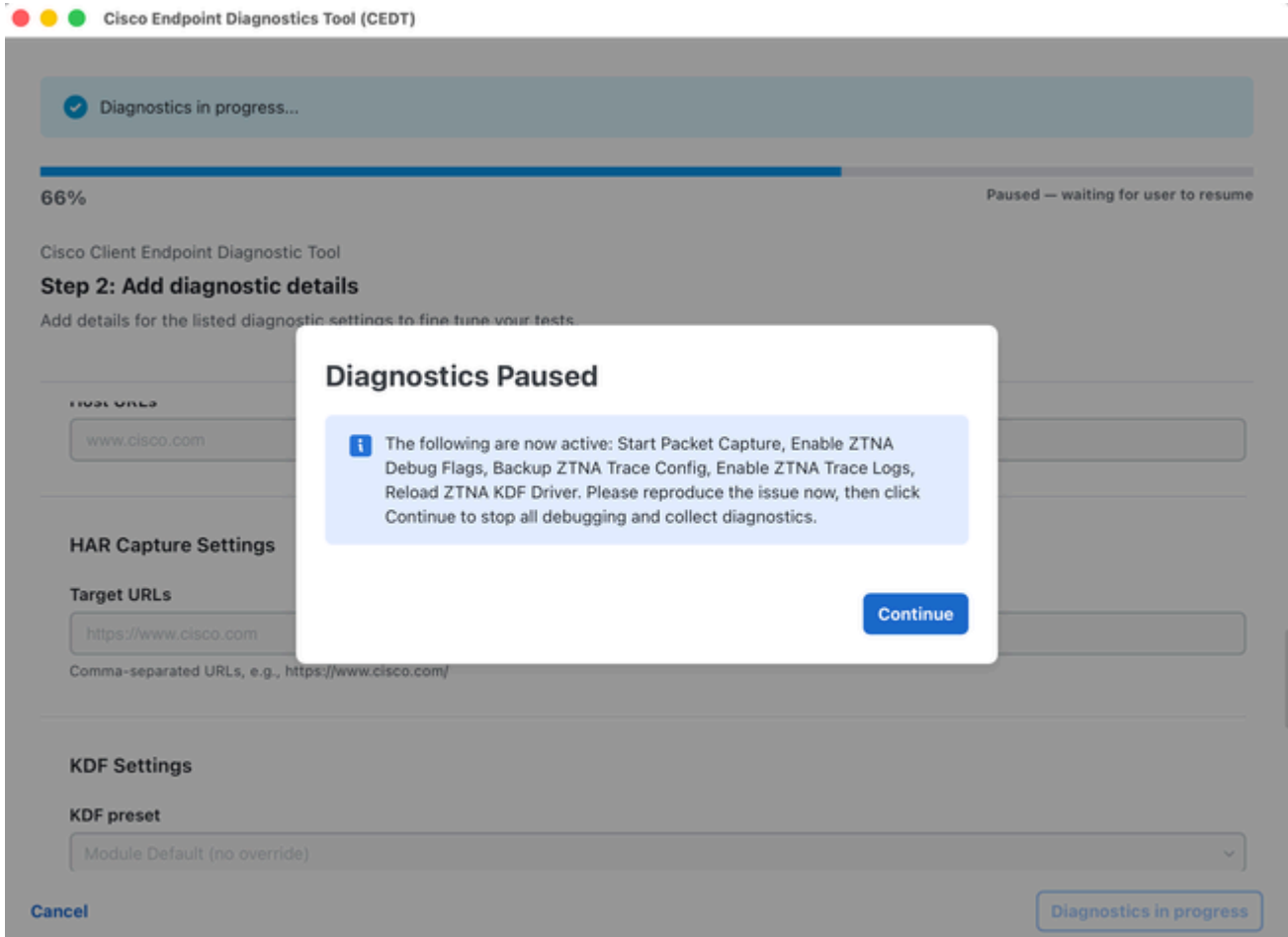
Let the run finish. The tool then collects files, restore your normal settings, and create the diagnostic archive.

NOTE: Do not close the application while paused. Logging remains active until you click **Continue** and the run completes.

(Command line)

If you are running the tool from a terminal, you can see a pause message in the window instead of a dialog box.

1. Read the pause message shown in the terminal.
2. Reproduce the issue.
3. Return to the terminal and press **Enter** to continue.
4. Wait for the run to finish.



Administrator Privileges Prompt

After clicking **Start Diagnostics**, the tool can prompt you for administrator privileges if you enabled features that require elevated access (such as Packet Capture or Debug Flags).

A dialog appears with the title **Administrator Privileges Required**:

- Click **Yes** to grant administrator privileges. This triggers the native macOS/Windows credential prompt.
- Click **Limited mode** to proceed without elevation. Privileged tasks (packet capture, debug flags) is skipped.
- macOS: You can see the standard macOS password dialog from osascript. Enter your system password and click **OK**.
- Windows: A standard UAC elevation prompt appears. Click **Yes** to allow.

Administrator Privileges Required

Some diagnostics (debug flag, packet capture) require administrator privileges. Enable administrator privileges to run a full diagnostics of your system.

i Select Limited Mode to run diagnostics without administrator privileges.

Limited mode

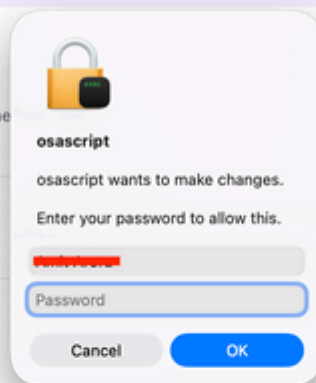
Cisco Endpoint Diagnostics Tool (CEDT)

i Configure your diagnostic settings below, then click Start Diagnostics.

Cisco Client Endpoint Diagnostic Tool

Step 2: Add diagnostic details

Add details for the listed diagnostic settings to fine tune



Reserved IP Settings

NSLookup URLs

proxy.ia.sse.cisco.com

optional custom nslookup hosts (comma separated)

Traceroute URLs

proxy.ia.sse.cisco.com

optional custom traceroute hosts (comma-separated)

Resolver IPs (optional)

208.67.222.222

Comma-separated resolver IPs. Leave empty to use system default.

Cancel

Back

Start Diagnostics

Diagnostics in Progress

Once started, the tool runs through all selected diagnostic tasks:

- A progress bar shows overall completion (such as 59% — Executing task 3/9: DNS Lookup).
- A **Diagnostics in progress...** banner is displayed at the top.

- All settings fields are disabled/greyed out during the run.
- The footer shows a **Diagnostics in progress** button (disabled) to indicate the tool is busy.

Please wait while the diagnostics complete. Do not close the application.

✓ Diagnostics in progress...

58% Executing task 3/10: DNS Lookup

Cisco Client Endpoint Diagnostic Tool

Step 2: Add diagnostic details

Add details for the listed diagnostic settings to fine tune your tests.

optional, e.g., -u -t

optional, e.g., -u -t

Reserved IP Settings

NSLookup URLs

proxy [redacted] ia.sse.cisco.com

optional custom nslookup hosts (comma separated)

Traceroute URLs

proxy [redacted] ia.sse.cisco.com

optional custom traceroute hosts (comma-separated)

Resolver IPs (optional)

Cancel Diagnostics in progress

1.

Diagnostics Complete — Upload to TAC

When all diagnostics finish, a completion dialog appears:

Diagnostics complete. Upload file to a TAC case.

The dialog displays:

- Archive — The filename of the generated diagnostic archive (such as cisco_diagnostics.tar.gz).
- File size — The size of the archive (such as 7.72 MB).
- SHA256 — The checksum of the archive file for integrity verification.

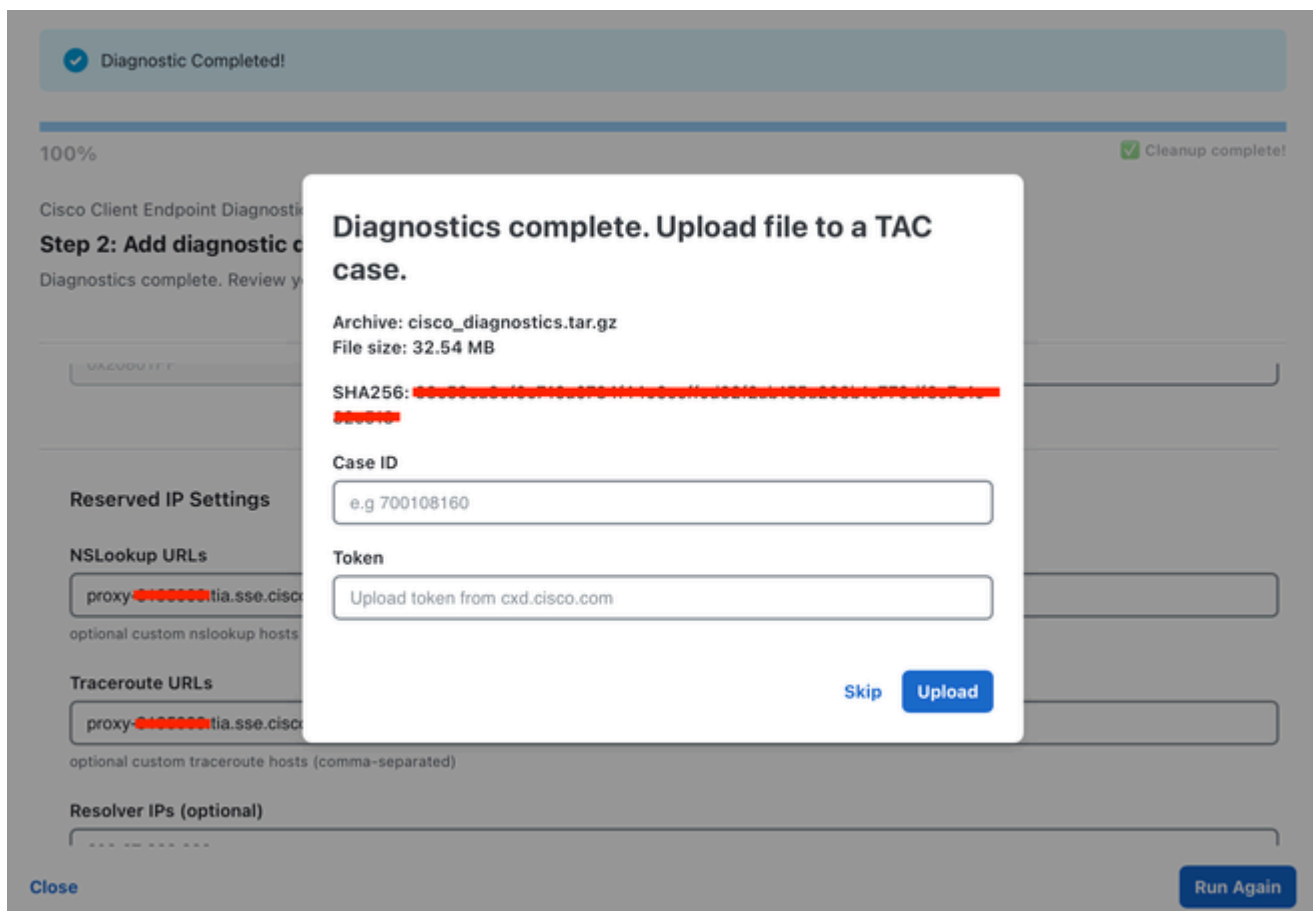
To upload to a TAC case:

1. Enter your **Case ID** (such as 698746730).
2. Enter your **Token** (provided by Cisco support).
3. Click **Open TAC Case** to start the upload.

A progress bar shows the upload status (such as **Uploading... 85.0% (6.56 MB / 7.72 MB)**).

To skip the upload:

- Click **Skip** to close the dialog without uploading. The archive file is still saved locally.



Upload Complete — Final Screen

After a successful upload, the completion banner updates to:

Diagnostic archive successfully uploaded to case [Case ID]

The progress bar shows 100% with a **Cleanup complete** status.

Actions

- Click **Run Again** to start a new diagnostic run.
- Click **Close** to exit the application.

Output Location

Diagnostic output is saved to:

- macOS: ~/Desktop/cisco_diagnostics/
- Windows: %USERPROFILE%\Desktop\cisco_diagnostics\

The output archive file (cisco_diagnostics.tar.gz) contains all collected diagnostic data in a structured format.

Troubleshooting

Issue	Resolution
No products detected	Ensure Cisco Secure Client is installed and running on your system.
Packet Capture greyed out	Enable it in Step 1, and grant administrator privileges when prompted.
Debug Flags greyed out	At least one Cisco Secure Access product must be detected and selected.
DebugView greyed out	This option is only available on Windows.
Upload fails	Verify your Case ID and Token are correct. Check your internet connection.
"Administrator credentials could not be obtained"	You cancelled the password prompt or entered an incorrect password. Click Start Diagnostics again to retry.
Limited mode warning	Some privileged tasks were skipped. Re-run with administrator privileges for a full diagnostic.

FAQ

Q: What data does this tool collect?

A: The tool collects system information (OS, hardware, network configuration), application logs, Cisco product configuration and installed module data, and network diagnostic data related to Cisco Secure Access modules only. See the [What System Data is Collected](#) the preceding section for a detailed breakdown. No personal data is captured.

Q: Do I need administrator/root access?

A: Administrator access is optional but recommended. Without it, some diagnostics (packet capture, debug flags) are skipped. The tool prompts you and let you choose.

Q: Can I run the tool multiple times?

A: Yes. After each run completes, you can click "Run Again" to start a new diagnostic session.

Q: Where is the output saved?

A: The diagnostic archive is saved to your Desktop under the cisco_diagnostics folder.

Q: What if I don't have a TAC Case ID?

A: You can click "Skip" on the upload dialog. The archive file is still saved locally. You can manually upload it to a TAC case later or share it with your support engineer.

Q: Is the data encrypted?

A: The diagnostic archive is compressed (tar.gz) and sensitive data is automatically redacted before packaging.

Q: Which browsers does HAR capture support?

A: HAR capture currently supports **Google Chrome** only. The tool uses the Chrome DevTools Protocol for headless browser automation. Ensure Chrome is installed before running HAR capture.

Q The pause screen never appeared. Is something wrong?

A: Not necessarily. The pause step only appears when detailed logging was successfully enabled for your scenario. Check the run log in the app — if enable steps were skipped, the tool continues without pausing.

Q The run seems stuck. What should I do?

A: Look for the **Diagnostics Paused** window — it can be behind other windows. The run does not move forward until you click **Continue** (or press **Enter** in the command line).

Q The message lists features I did not expect. Is that normal?

A: Yes. The message shows whichever logging features the tool enabled for your platform and the diagnostic options you selected.

Q I closed the app during the pause. What now?

A: Run the diagnostic collection again and let it finish. If you are unsure whether logging was left on, contact your support engineer for guidance.