

Collect Detailed ZTNA Logs for Troubleshooting

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Introduction

This document describes how to collect detailed ZTA troubleshooting logs, when to enable and step by step.

Background Information

As organizations increasingly adopt Zero Trust Architecture (ZTA) to secure users, devices, and applications, troubleshooting connectivity and policy enforcement issues has become more complex. Unlike traditional perimeter-based models, ZTA relies on multiple real-time decisions across identity, device posture, network context, and cloud-based policy engines. When issues arise, high-level logs are often insufficient to pinpoint the root cause.

Collecting detailed ZTA level tracing plays a critical role in gaining deep visibility into client behavior, policy evaluation, traffic interception, and cloud service interactions. These traces enable engineers to move beyond symptom based troubleshooting and analyze the exact sequence of events leading to access failures, performance degradation, or unexpected policy outcomes.

Collecting Logs

Pre-Checks Before Opening a TAC Case

These pre-checks will help the TAC team identify the issue more efficiently. Providing this information to the engineers will assist them in resolving your problem as quickly as possible:

- What is the issue, and how many users are affected?
- Which OS and versions are impacted?

- Is the issue consistent or intermittent? If intermittent, is it user-specific or widespread?
- Did the issue start after a change, or has it been present since deployment?
- Are there any known triggers?
- Is there a workaround available?

Logs to Collect

- DART bundle
- ZTNA Debug Trace mode logs
- Wireshark capture (all interfaces, including loopback)
- Error messages observed
- Timestamps of the issue
- CSC ZTA module status screenshot
- Username of the affected user

The next sections explain how to enable and collect each of these logs in detail.

Enable ZTNA Debug Trace Mode

Create a file named `logconfig.json` with the details below:

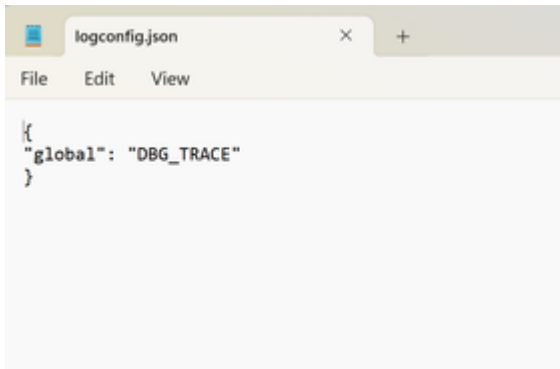
```
{ "global": "DBG_TRACE" }
```



Warning: Be sure your file is saved with the name `logconfig.json`.

After creating the file, place it in the appropriate location based on the operating system:

- Windows: `C:\ProgramData\Cisco\Cisco Secure Client\ZTA`
- macOS: `/opt/cisco/secureclient/zta`



```
{
  "global": "DBG_TRACE"
}
```

logconfig	02-09-2025 07:33	JSON File	1 KB
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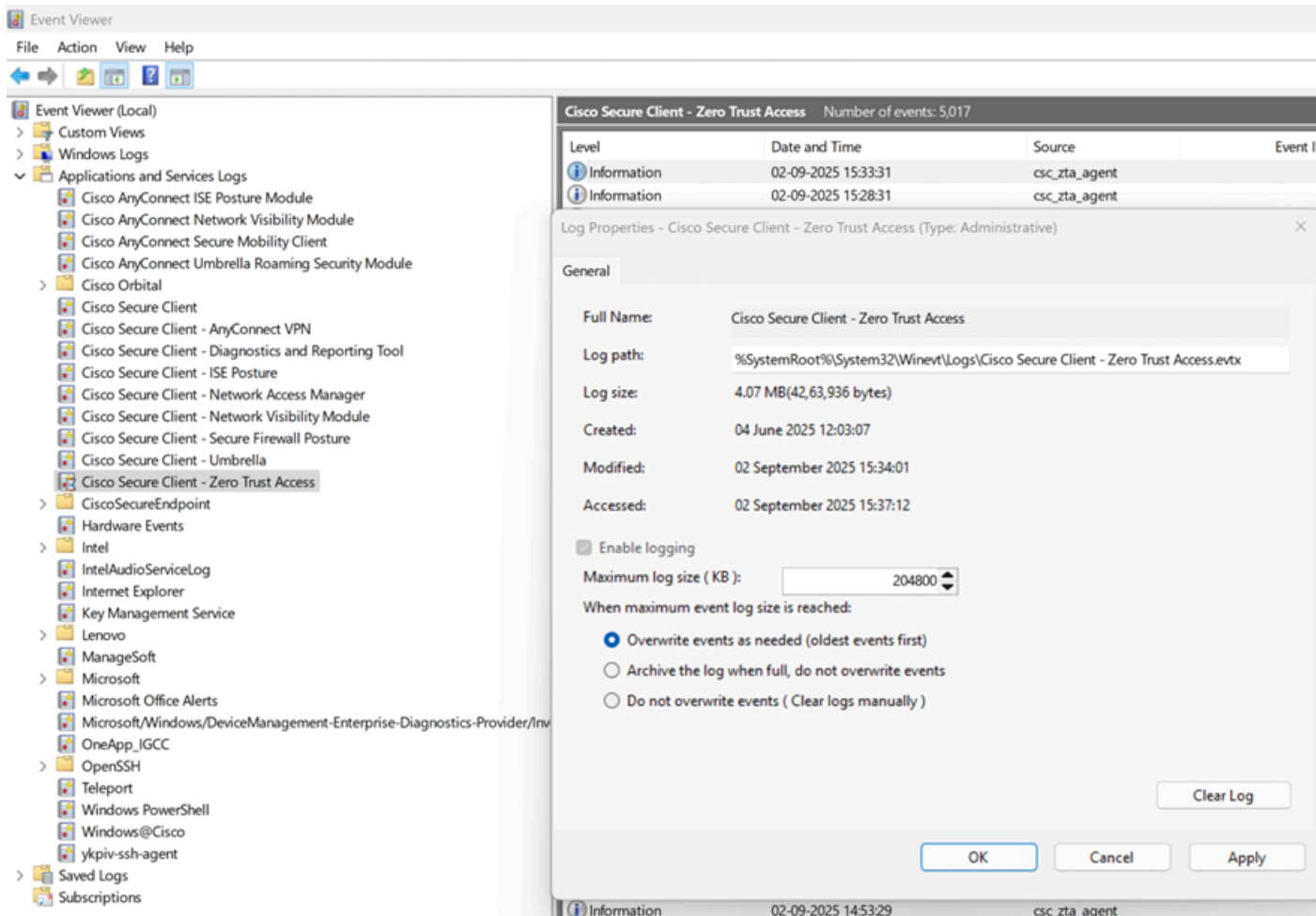
Note: Once you have created the specified file, you must restart the Zero Trust Access Agent service (Please check step [Restarting ZTA service](#)). If restarting the service is not possible, please restart the computer.

Increase ZTA log size in Event Viewer

On Windows PCs, after enabling trace-level logging, you must manually increase the ZTA log file size.

1. Open Event Viewer.
2. In the left pane, expand Applications and Services Logs.
3. Right click Cisco Secure Client – Zero Trust Access and select Properties.
4. Under Maximum log size (KB), set the value to 204800 (equivalent to 200 MB).

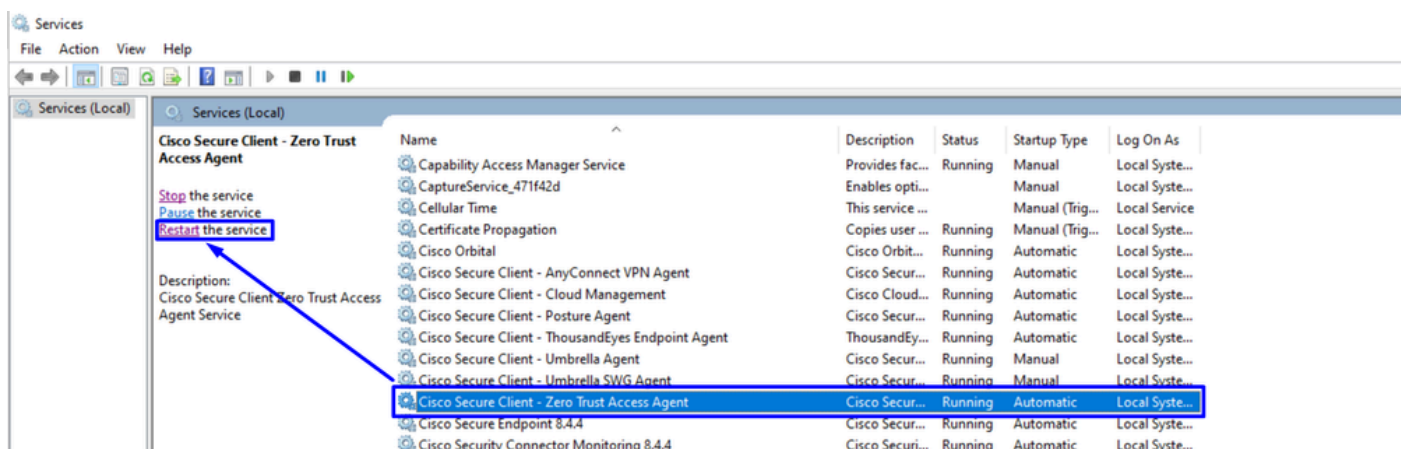
To finalize click on **Apply** and then OK.



Restarting ZTA service

Windows

- Use Windows + R to open the Run Search write services.msc and press enter
- Locate the service Cisco Secure Client - Zero trust Access Agent and click on Restart. Once its done , verify the CSC ZTA module status to confirm it is active



Note: If ZTA service cannot be restarted due to lack of administrative access, a full system reboot is your next option.

MacOS

Stop Service

```
sudo "/opt/cisco/secureclient/zta/bin/Cisco Secure Client - Zero Trust Access.app/Contents/MacOS/Cisco
```

Start Service

```
open -a "/opt/cisco/secureclient/zta/bin/Cisco Secure Client - Zero Trust Access.app"
```



Note: If commands cannot be executed or the ZTA service cannot be restarted due to lack of administrative access, a full system reboot it is your next option.

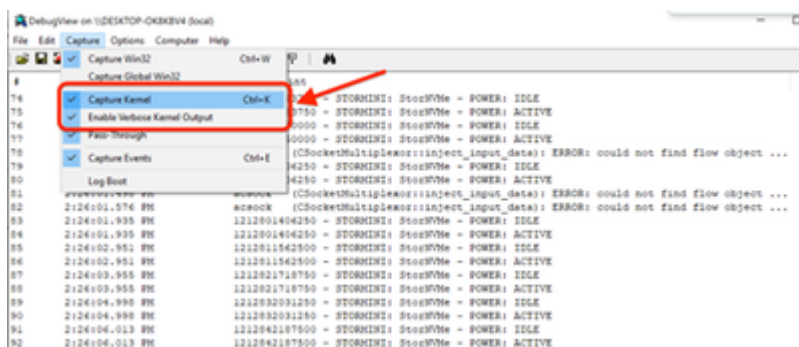
Enable KDF Logging, Packet Capture, Duo Debug Mode and Dart Bundle

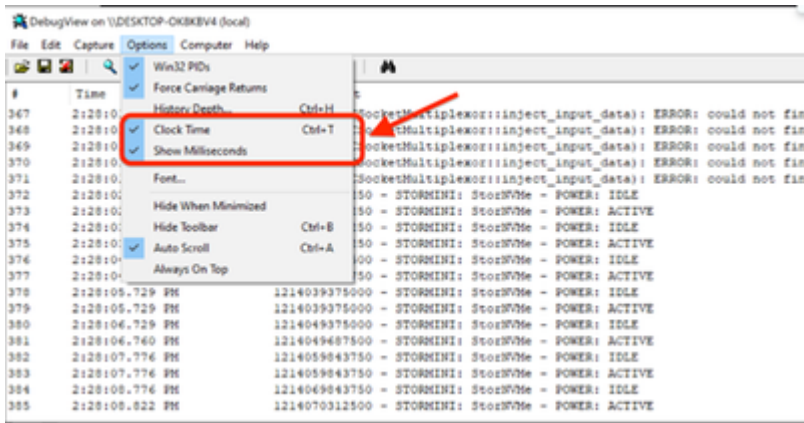
Windows

Open a CMD with admin privileges and run the next command:

```
"%ProgramFiles(x86)%\Cisco\Cisco Secure Client\acsocktool.exe" -sdf 0x400080152
```

- Download [DebugView](#) from SysInternal to capture the KDF log
- Run DebugView as administrator and enable the next menu options:
- Click on Capture
 - Checkmark Capture Kernel
 - Checkmark Enable Verbose Kernel Output
- Options
 - Checkmark Clock Time
 - Checkmark Show Milliseconds

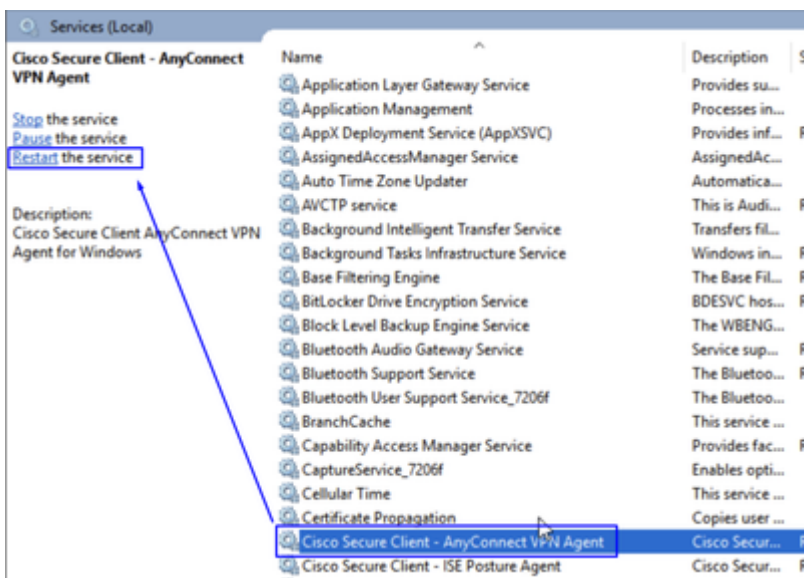




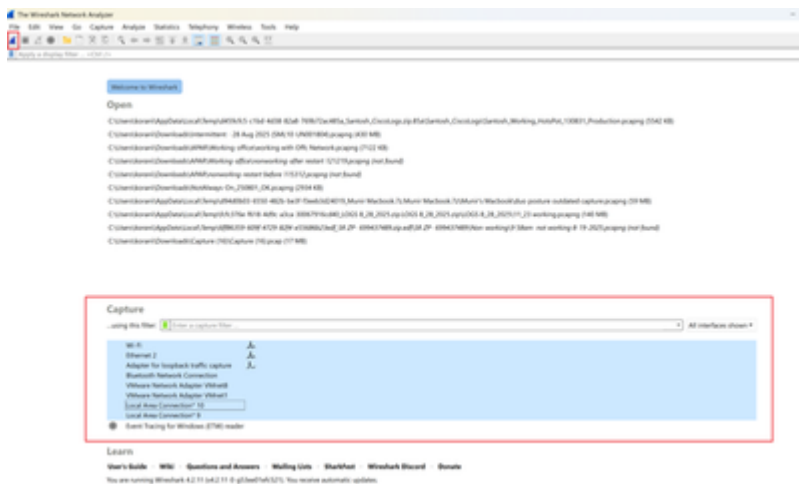
- Restart the client service via admin prompt:

```
net stop csc_vpnagent && net start csc_vpnagent
```

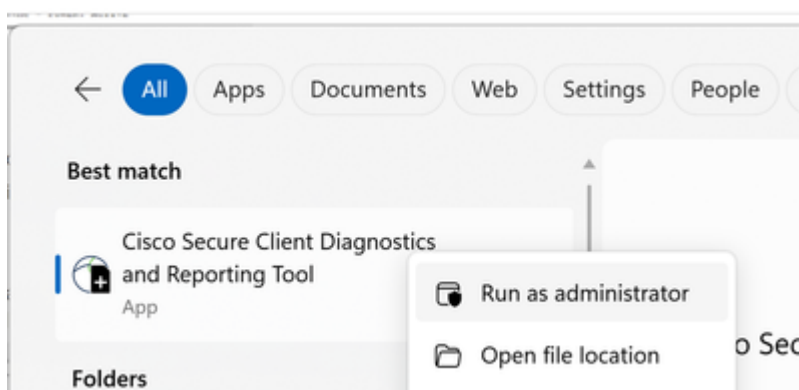
- If net stop csc_vpnagent && net start csc_vpnagent does not work, restart Cisco Secure Client service from services.msc



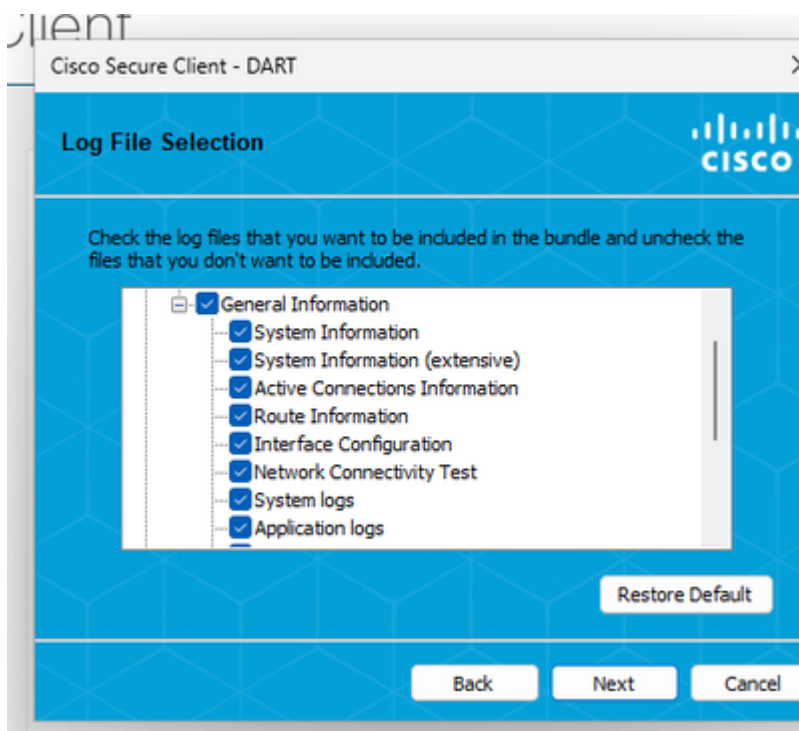
- Enable [Duo in Debug mode](#)
- Start Wireshark Capture
- Select all the interfaces, and start the packet capture



- Reproduce the issue, and save KDF Logs and Wireshark Capture, then follow the steps to capture DART Bundle
- Open the Cisco Secure Client Diagnostics & Reporting Tool (DART) with administrator privileges



- Click on Custom
 - Include System Information Extensive and Network Connectivity Test



- To stop the KDF logging on Windows use the next command:

```
"%ProgramFiles(x86)%\Cisco\Cisco Secure Client\acsocktool.exe" -cdf
```



Note: Collect all the logs, KDF Logs, Wireshark Capture and DART Bundle to the TAC Case.

MacOS

Open terminal and follow the next command chain to enable KDF Logging on MacOS:

- Stop Service

```
sudo "/opt/cisco/secureclient/bin/Cisco Secure Client - AnyConnect VPN Service.app/Contents/MacOS/Cisco
```

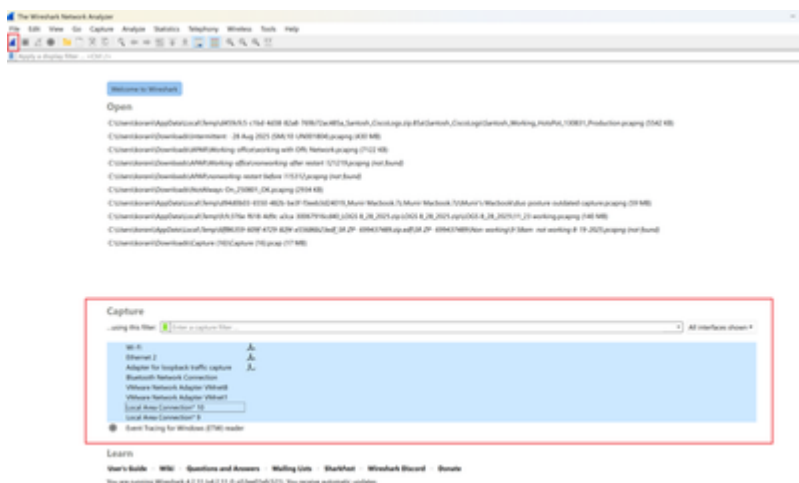
- Enable Flag

```
echo debug=0x400080152 | sudo tee /opt/cisco/secureclient/kdf/acsock.cfg
```

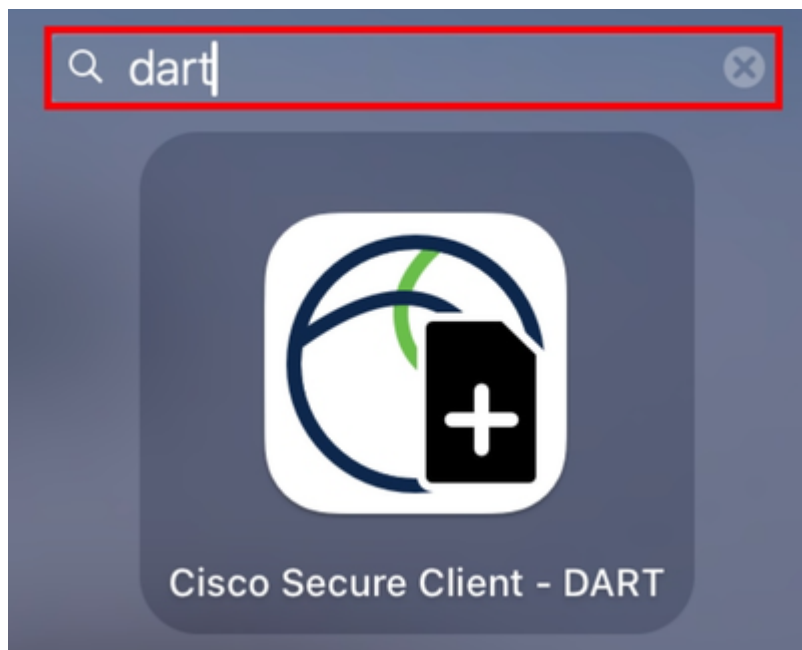
- Start Service

```
open -a "/opt/cisco/secureclient/bin/Cisco Secure Client - AnyConnect VPN Service.app"
```

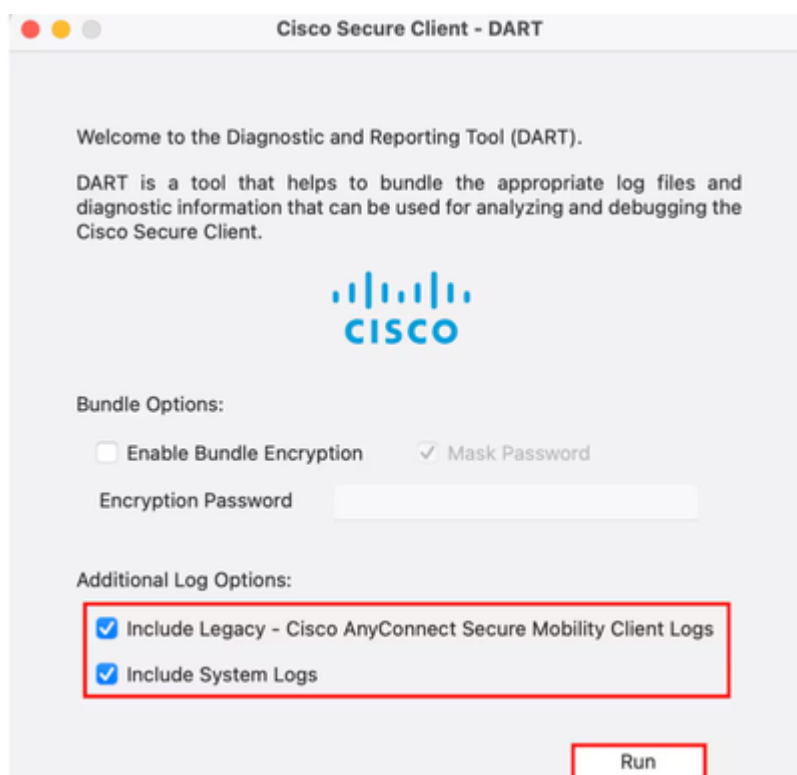
- Enable [Duo in Debug mode](#)
- Start Wireshark Capture
- Select all the interfaces, and start the packet capture



- Reproduce the issue, and save KDF Logs and Wireshark Capture, then follow the steps to capture DART Bundle
- Open the Cisco Secure Client - DART



- Checkmark the next options:
 - Include Legacy - Cisco AnyConnect Secure Mobility Client Logs
 - Include System Logs
- Click Run



Note: Collect all the logs, KDF Logs, Wireshark Capture and DART Bundle to the TAC Case.

Related Information

- [Cisco Technical Support & Downloads](#)
- [Cisco Secure Access Help Center](#)
- [Cisco SASE Design Guide](#)
- [Collecting KDF Logs for Secure Client on Windows and MacOS](#)