

Telemetry Parser Implementation Guide

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Ver 1.0

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Overview

About Telemetry Parser

Telemetry Parser is designed to provide a text report from the JSON file that is generated from execution of Telemetry.

Support

By using Telemetry Parser, you agree to the following:

This script is provided 'as-is'. The developer makes no representations or warranties of any kind concerning the safety, suitability, lack of viruses, inaccuracies, typographical errors, or other harmful components of this script.

You are solely responsible for determining whether this script is compatible with your environment.

You are also solely responsible for the protection of your equipment and backup of your data. The developer will not be liable for any damages you may suffer in connection with using, modifying, or distributing this script.

Please note that this script is NOT supported by CyberArk.

Pre-Requisites

Supported OS

Telemetry Parser can be used on any platform that supports Python. Telemetry Parser was developed on MacOS and has been tested both on MacOS and Windows 11.

Python

Python must be installed and working on the server from where Telemetry Parser will be run. For additional information on Python, visit <https://www.python.org>.

CyberArk Telemetry

CyberArk Telemetry must be installed and working properly. It is not necessary to use Telemetry Parser on the same server where Telemetry is installed so long as the capability exists to copy files from server to server (i.e., shared drive capability).

CyberArk Telemetry can be downloaded from the Technical Community Marketplace:

<https://cyberark-customers.force.com/mplace/s/#a352J000000IB1MQAU-a392J000001eKbDQAU>

Information and documentation on Telemetry can be accessed from

https://docs.cyberark.com/PAS/Latest/en/Content/TelemetryTool/Telemetry-intro.htm?tocpath=Administrator%7CUtilities%7CTelemetry%7C_0

By default, CyberArk Telemetry will send the generated information to the Telemetry Dashboard in Technical Community. It can be configured for two output locations

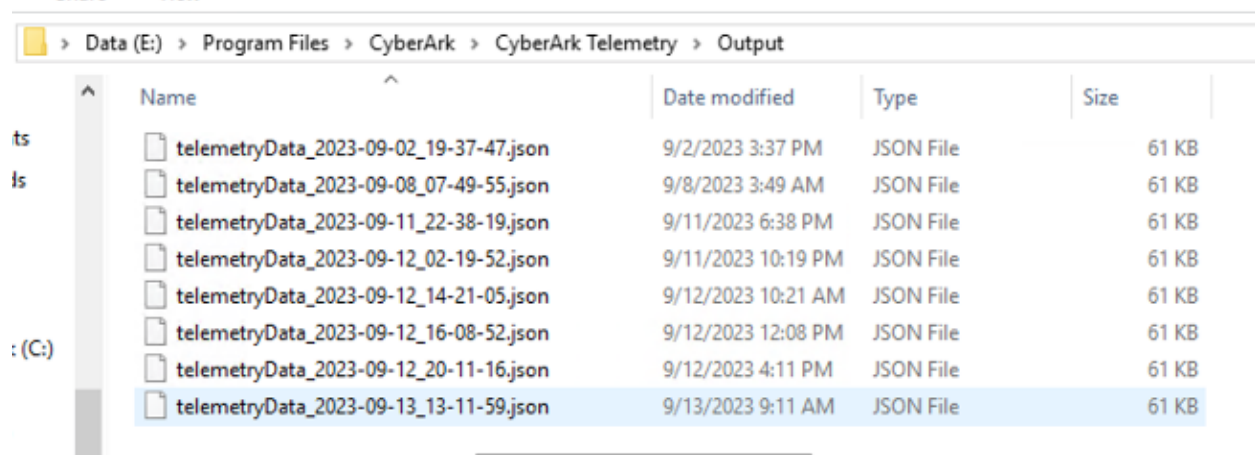
- Telemetry Dashboard
- Generated JSON file

While Telemetry uses the JSON file to populate the dashboard, it is not automatically saved. The JSON file is required to run Telemetry Parser. To configure this,

1. Open '%INSTALLDIR%\ConfigFiles\config.json' in a text editor, where %INSTALLDIR% is the location where Telemetry is installed (the default location is C:\Program Files\CyberArk\CyberArk Telemetry)
2. Navigate to the 'outputAdapters' section
3. Look for the JsonFileOutputAdapter section. It will be similar to

```
"name": "JsonFileOutputAdapter",  
  "type": "CyberArk.Telemetry.Output.File.JsonFileOutputAdapter,  
CyberArk.Telemetry.Output.File",  
  "enabled": true,  
  "adapterSettings": {"outputFilePath": "Output\\telemetryData_#date#.json"}
```

4. Make sure the 'enabled' tag is set to 'true'.
5. Save the file. At this point, any subsequent Telemetry executions will save the JSON file in %INSTALLDIR%\Output



Data (E:) > Program Files > CyberArk > CyberArk Telemetry > Output				
	Name	Date modified	Type	Size
ts ls : (C:)	telemetryData_2023-09-02_19-37-47.json	9/2/2023 3:37 PM	JSON File	61 KB
	telemetryData_2023-09-08_07-49-55.json	9/8/2023 3:49 AM	JSON File	61 KB
	telemetryData_2023-09-11_22-38-19.json	9/11/2023 6:38 PM	JSON File	61 KB
	telemetryData_2023-09-12_02-19-52.json	9/11/2023 10:19 PM	JSON File	61 KB
	telemetryData_2023-09-12_14-21-05.json	9/12/2023 10:21 AM	JSON File	61 KB
	telemetryData_2023-09-12_16-08-52.json	9/12/2023 12:08 PM	JSON File	61 KB
	telemetryData_2023-09-12_20-11-16.json	9/12/2023 4:11 PM	JSON File	61 KB
	telemetryData_2023-09-13_13-11-59.json	9/13/2023 9:11 AM	JSON File	61 KB

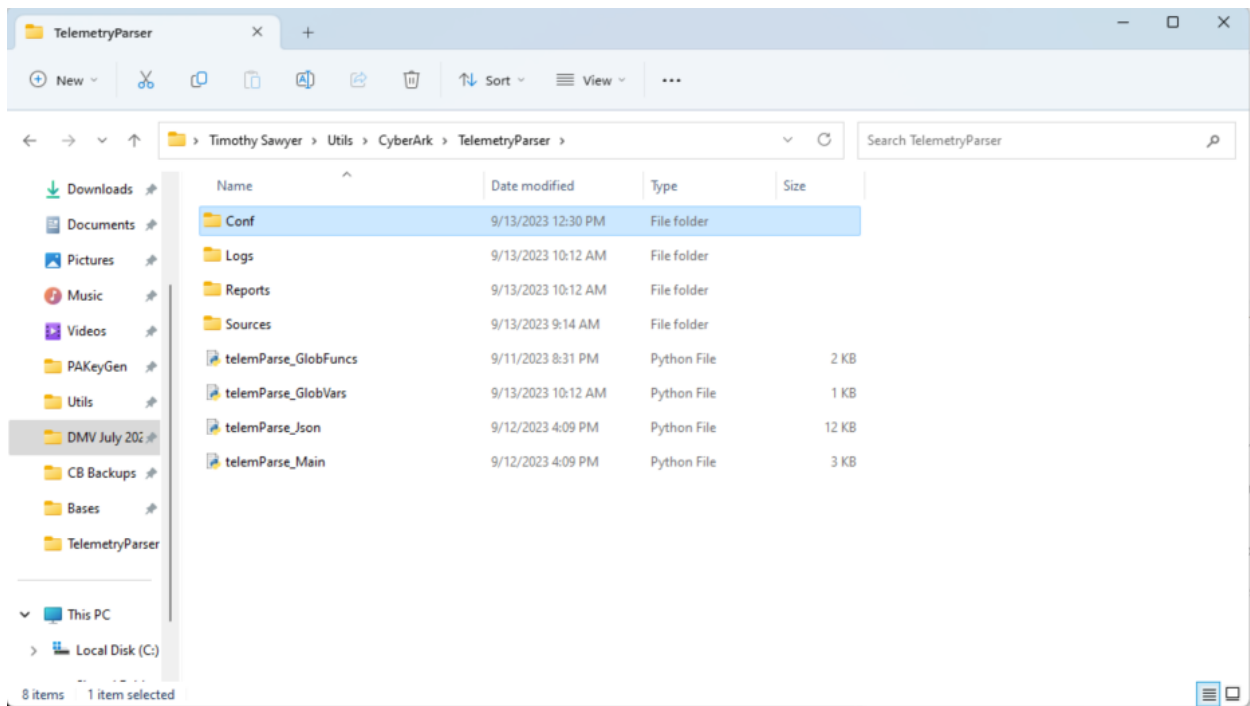
Setup and Use

Setup

The Telemetry Parser package contains four (4) Python scripts, telemParse_Main.py, telemParse_Json.py, telemParse_GlobVars.py and telemParse_GlobFuncs.py

On the server hosting Telemetry Parser, a structure must be created

1. Create a directory named 'TelemetryParser'
2. In the TelemetryParser directory, create the following directories
 - a. Reports (required)
 - b. Logs (Required)
 - c. Conf (optional)
 - d. Sources (optional)
3. Copy the four Python scripts to the Telemetry Parser folder. The directory structure will be similar to this:



4. Now, the telemParse_GlobVars.py needs to be edited to reflect the correct folders. Open the 'telemParse_GlobVars.py' in a text editor.
 - a. Change the 's_workDir' variable to the actual location where Telemetry Parser is installed (refer to the screenshot in the previous step)

IMPORTANT NOTE:

Note the directory separator, either '/' (Linux, including MacOS) and '\' (Windows OS). Make sure the separator is compatible with the OS where Telemetry Parser is installed.

For example:

s_workDir = '/Users/tsawyer/tmp/TelemetryParser/' is for Linux / MacOS

s_workDir = '\\Users\\tsawyer\\tmp\\TelemetryParser\\' is for Windows OS

This needs to be edited for the 's_logDir' and 's_rptDir' as well. For example:

```
s_workDir = '/Users/tsawyer/tmp/TelemetryParser/'  
s_logDir = s_workDir + 'Logs/'  
s_rptDir = s_workDir + 'Reports/'
```

Use

1. You will need to run Telemetry if you do not have any JSON files in the Output directory (see CyberArk Telemetry).
2. Copy the JSON file to a location accessible from the server where Telemetry Parser is installed
3. Open a command prompt (or console)
4. Navigate to the directory containing the TelemetryParser directory

python -m TelemetryParser.telemParse_Main <Path to JSON file>

For example:

***python -m TelemetryParser.telemParse_Main
C:\Users\tims1\Utils\CyberArk\TelemetryParser\Sources\telemetryData_2023-09-13_13-11-59.json***

5. This will produce a report in the Reports folder

Reporting

Reports

The Telemetry JSON file contains the following sections

- General
- Components
- Users
- Applications
- Accounts
- Platforms

Details on each of these sections can be found in

<https://docs.cyberark.com/PAS/Latest/en/Content/TelemetryTool/Telemetry-dashboard-output-file-contents.htm?tocpath=Administrator%7CUtilities%7CTelemetry%7C3>

General

*** General Section ***

Telemetry Version: 2.5.0.246

Execution Time: 2023-09-13T13:11:48

Execution Duration: 00:00:10.899

Components

*** Components Section ***

Component: Vault
Version: 13.2.0.34
Deployed: None
Licensed: None

Component: Provider
Version: None
Deployed: 1
Licensed: 25

Users

User Type: EPVUser
Licensed Users: 25
Allocated Users: 11
Allocated Percentage: (44.00%)
Logged On Information:
 Last Week: 2
 Last Month: 3
 Last Year: 10
Exposed Secrets:
 Day: 1
 Last Week: 1
 Last Month: 1
 Last Year: 1
Connected:
 Day: 0
 Last Week: 1
 Last Month: 2
 Last Year: 2

Applications

*** Applications Section ***

User Type: AAMAccount
Licensed Users: 250
Allocated Users: 0
Allocated Percentage: (0%)
Logged On Information:
 Last Week: 0
 Last Month: 0
 Last Year: 0
Exposed Secrets:
 Day: 0
 Last Week: 0

Last Month: 0
Last Year: 0
Connected:
Day: 0
Last Week: 0
Last Month: 0
Last Year: 0

Accounts

*** Accounts Section ***

Compliance:
Total Accounts: 79
Compliant Accounts: 52
Compliance Percentage: (65.82%)

Exposed Secrets:
Last Day: 2
Last Week: 5
Last Month: 19
Last Year: 36

Connections:
Last Day: 0
Last Week: 8
Last Month: 29
Last Year: 38

Platforms

Each platform is listed along with Active status.

Platform ID: DB2UnixSSH
Platform Active: False

For active platforms, the following information is included

Platform ID: Platform-UNIX
Platform Active: True
Compliance Status:
Attached Accounts: 35
Compliant Accounts: 29
Compliance Percentage: (82.86%)
Password Management Status:

Periodic Change: True
Periodic Verification: True
Automatic Reconciliation: True

FAQ

Q: Does this have any impact on the PAM Vault?

A: Telemetry Parser does not interact at all with a vault or the vault components such as PVWA, PSM or CPM. This runs independently.

Q: Does this have any impact on the CyberArk Telemetry installation?

A: As with PAM Vault, Telemetry Parser runs independently of CyberArk Telemetry

Q: Is this supported by CyberArk Technical Support?

A: No, as this is considered a 'Community' integration, it is not supported. If there are issues with the script, please contact Tim Sawyer (tim.sawyer@cyberark.com)