PAS System Health Report Implementation Guide

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Ver 1.1

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Overview

About the Script

This script is designed to obtain the PAS system health for all components (as would be seen in the System Health screen on the Password Vault Web Access (PVWA) UI. The generated report can then be distributed.

This is also a helpful report when opening a PAS related case with CyberArk, as the report can be attached to the case.

Support

This script is not supported by CyberArk. By using the script, you agree to the disclaimer (shown when the script is executed).

Pre-Requisites

Before preparation for use, ensure the following is in place

Environment

- Vault environment
  - Supported version: Any. This has been tested with vault version 12.2
- PowerShell
  - Version 7, tested on Mac and Windows 10 Professional
- Licensing
  - No additional licensing is required

Knowledge

The end user should have the following pre-requisite knowledge

- Fundamental knowledge of the CyberArk PAS solution
- Knowledge of PowerShell scripting is helpful

Required Access

The end user should have the following access

- Administrative privileges on the vault
- A separate user should be created for access to the vault with the API

Installation

The script has two parts

1. PASHealth.ps1 – this is the actual script
2. PASHealthEnv.ps1 – this script contains global variables

The two scripts must reside in the same folder / directory. The scripts can be placed in any folder or directory.

Operational Overview

Syntax

PASHealth.ps1

Arguments

No arguments are required

Database / Vault Impact

This script is a 'read only' script that will not modify the database.

Operation

The script uses the 'System Health' API calls (more information is located here) to get the overall system health for the vault and installed components. The report is output to a text file. The default file name is 'PAS System Health.txt' which is stored in the same directory from where the script is run. This can be changed; see Default Values for more information.

Implementation

Preparation

1. Create a vault user with password authentication that has the same privileges as the default 'administrator' user. This user should be placed in the 'Vault Admins' group.

Operation

1. Accept the disclaimer
2. Review the process and press 'c' to continue
3. When prompted, enter the full URL for a PVWA
4. Enter the username and password when required
5. When prompted for the filename, either accept the default './PAS System Health.txt' (This will be created in the same folder as the script) or input another filename. Ensure that a valid path is entered (Hint: ./ can be used to store the file in the current directory)

Miscellaneous

Data Output

The output from the API call contains the system health details for each installed component. This includes the component, version, IP address, component user and the status of the component's connection. The following is an example file

> PAS System Health Summary: 03/21/2022 10:18:02
> Vault Information:
> Primary Vault: 192.168.247.6
> DR Vault: 192.168.247.7

Component Information:
(Note: SessionManagement refers to Privileged Session Manager (PSM) and Privileged Session Manager SSH Proxy (PSMP))
Component: PVWA
Version 12.2.0.65
IP Address: 192.168.247.128
Component User: PVWAAppUser
Connected: True

Component: CPM
Version 12.2.0.65
IP Address: 192.168.247.128
Component User: PasswordManager
Connected: True

Component: SessionManagement
Version 12.2.0.65
IP Address: 192.168.247.128
Component User: PSMApp_LAB-COMP
Connected: True

Component: SessionManagement
Version 12.2.0.0
IP Address: 192.168.247.126
Component User: PSMPApp_lab-auth.lab.tsawyer.local
Connected: False

Component: PTA
Version 12.2.3
IP Address: lab-ptapri.lab.tsawyer.local
Component User: PTAAppUser
Connected: True

Default Values

The GetPendingAccountsEnv.ps1 contains global variables for use during operation. The variables that can be changed without adverse effect are

- ***$defRptFN***: This is the default file name for the output report file. This can be changed to meet needs as appropriate. If specifying a path, it is recommended to include a full path.

**** NOTE **** If variables are changed, please remember to save the file before running the script**

Known Issues

- The logoff sequence returns an error, but this is due to the session being disconnected beforehand