Tabulate TSS zOS User and Resource Permissions Listing

Python 3 program tabulates user and resource permission information from CA Top Secret IBM mainframe listing.

Developed and tested environments:

- Python and IDLE v3.7.2, Tk v8.6.8 (32 bit)

- Ubuntu 18.10 Desktop (64 bit)

Program consists of 4 steps and could be used as a template for future development efforts:

1. IBM zOS TSS listing contains multiple lines for some parameters. This step eliminates multiple lines appending each continuation line to first line of any parameter, eliminates non-relevant message lines and add segment names like basic, TSO and OMVS to the beginning of each line. Segment names are located on top of segment parameters. Single line parameter information is written to a separate file.
2. Output of step 1 file is reread line by line and selected parameters are written to another file. Omitted parameters are written to a separate file for further review. In this step, TSS parameter names and FACILITY types are collected, sorted and written to a headers file.
3. Output of selected parameters file from step 2 is read and a user listing with selected parameters is prepared in CSV format.
4. Output of selected parameters file from step 2 is read and a resource permissions for all users listing with selected parameters is prepared in CSV format.

Input to the program is prepared with following steps:

1. A batch jobstream is prepared and executed utilizing zOS terminal monitor program utility IKJEFT01.

2. TSS Listing information is either written directly to a sequential dataset or copied from JES spool to a sequential dataset using SDSF XDC utility.

3. Sequential dataset is transferred to a workstation ASCII file using one of file transfer programs.

4. ASCII file is renamed as "aa1_list_acids.txt" and put in the same folder with Python 3 program.

5. Python 3 program is executed and all files are created in the same folder.

6. Output CSV files are converted to spreadsheets using available office program.

Following are related public domain zOS and TSS documentation links

LIST Function—Display ACID Security Data

- CA Top Secret® for z/OS - 16.0

- https://docops.ca.com/ca-top-secret-for-z-os/16-0/en/using/issuing-commands-to-communicate-administrative-requirements/command-functions/list-functiondisplay-acid-security-data

Writing JCL for command execution

- IBM® z/OS 2.3.0 TSO/E Customization Executing the terminal monitor program

- https://www.ibm.com/support/knowledgecenter/SSLTBW_2.3.0/com.ibm.zos.v2r3.ikjb400/xtmpjcl.htm

Copying a JES joblog to a data set

- IBM® z/OS 2.3.0 z/OS Management Facility Online Help Problem Determination Incident Log task Viewing diagnostic details View Diagnostic Details page Diagnostic Data tab New Attachment page

- https://www.ibm.com/support/knowledgecenter/SSLTBW_2.3.0/com.ibm.zosmfincidentlog.help.doc/izuP00hpActCopyJLtoDS.html

Printing from SDSF Panels

- IBM® z/OS 2.3.0 SDSF User's Guide Introduction to SDSF

- https://www.ibm.com/support/knowledgecenter/SSLTBW_2.3.0/com.ibm.zos.v2r3.isfa600/useprt.htm