z/OS 3.1 IBM Education Assistant

Solution Name: Pervasive Data Set Encryption

Solution Element(s): ISPF

July 2023

Agenda

- Trademarks

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Trademarks

- See url http://www.ibm.com/legal/copytrade.shtml for a list of trademarks.

- Additional Trademarks:
  - None

Objectives

- Support the allocation of encrypted data sets from the ISPF 3.2 allocation panel. The DFSMS supported data sets that will be eligible include:
  - Sequential
  - PDSEv2
  - VSAM
- This is to address Idea ZOS-I-1893 "ISPF 3.2 support for DSKEYLBL".
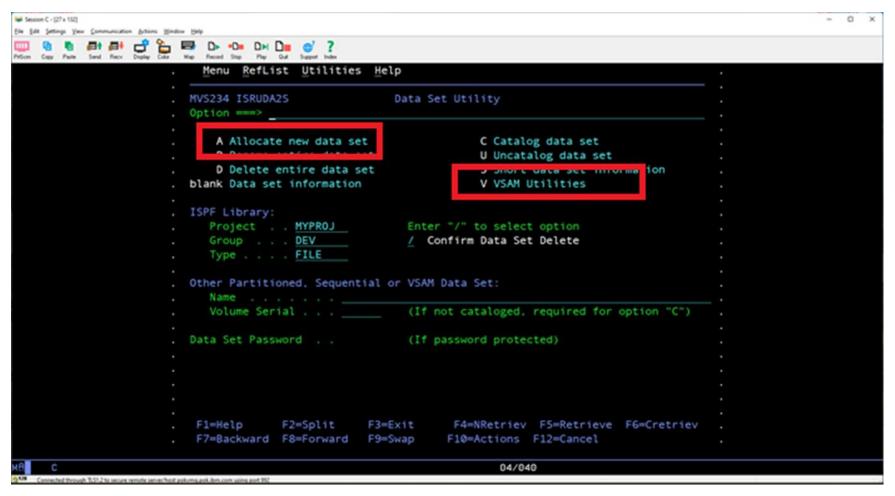
Overview

- ## Who (Audience)
  - System administrators

- ## What (Solution)
  - Data set encryption is supported on several existing ISPF panels via a new Data Set Key Label field

- ## Wow (Benefit / Value, Need Addressed)
  - Previously encrypted data sets could only be allocated via TSO or using JCL.

Usage & Invocation

- Sequential and PDSEv2 data sets can be encrypted via the 3.2 panels ISRUUASE and ISRUAAP2. A new "**key label**" field has been added to these panels. Additionally, the "**Multiple Volumes**" field has been moved up under "**Volume serial**" which is a more appropriate location. These panels require 2 screens and are shown on the next several slides…
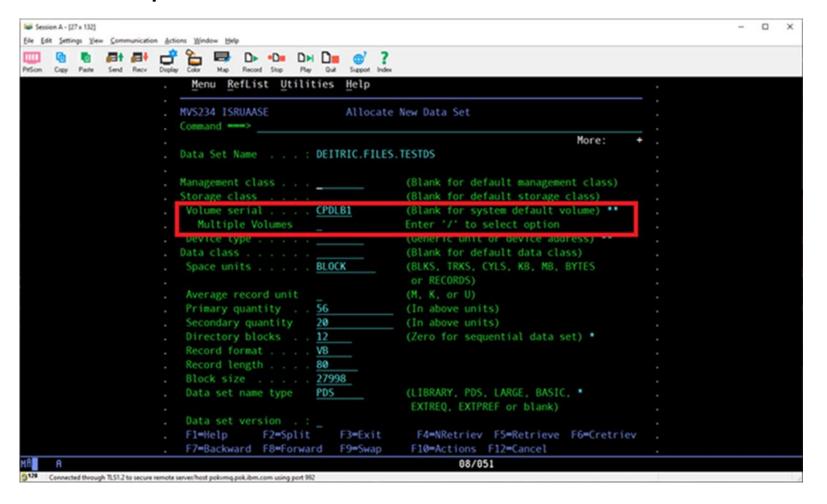
Usage & Invocation (panel ISRUDA2S)
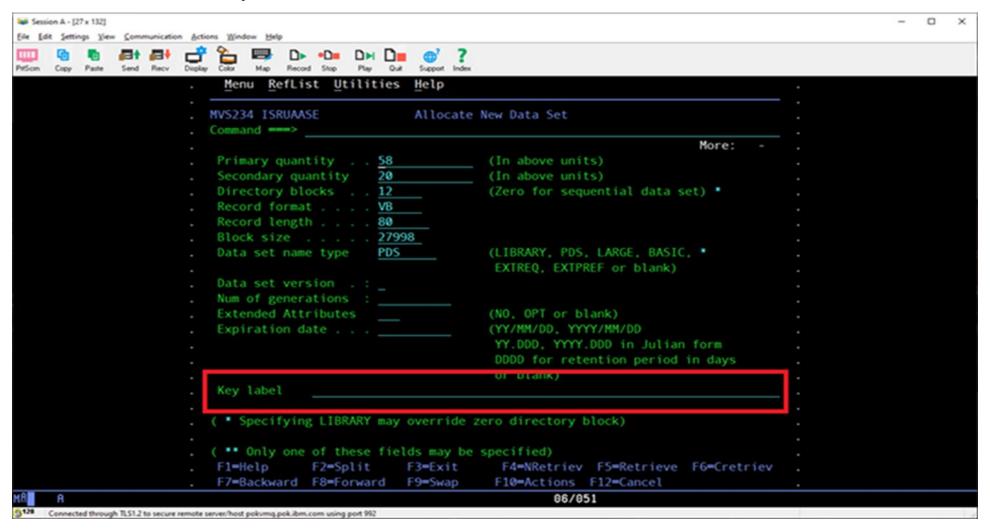
- Option 3.2 Panel

Usage & Invocation (panel ISRUAASE 1)
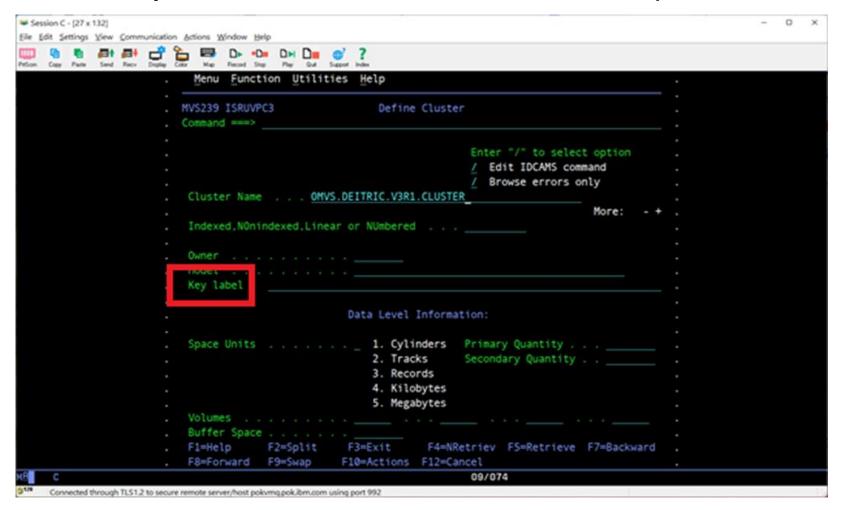
- ISRUUASE allocation panel screen 1

Usage & Invocation (panel ISRUAASE 2)
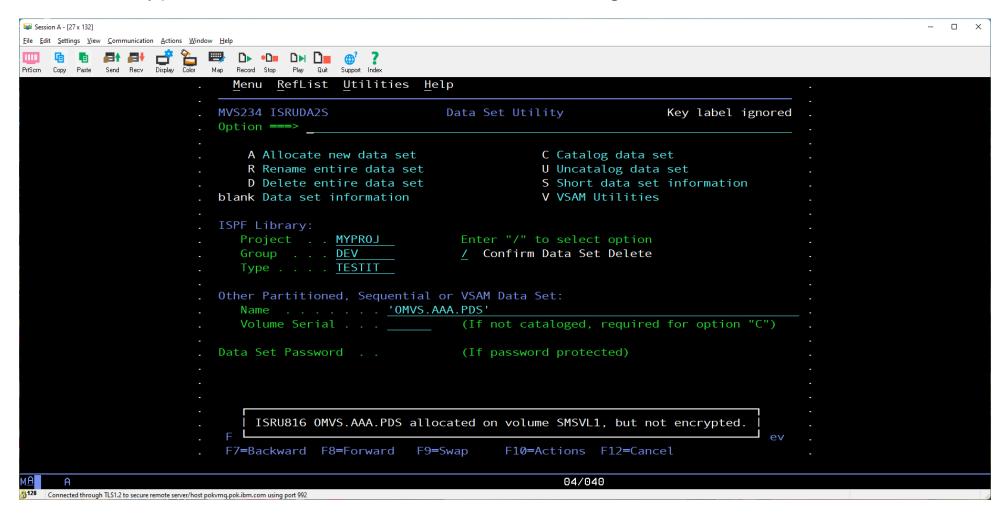
- ISRUUASE allocation panel screen 2

Usage & Invocation (panel ISRUVPC3)

- VSAM data sets are allocated via the IDCAMS command generated from panel ISRUVPC3. A key label field has been added to this panel to allow encryption.

Usage & Invocation (Message ISRU816)

- The key label on the allocation panels may be ignored by DFSMS if encryption is not supported for the requested data set type. If so, ISPF will issue a new message ISRU816:

Interactions & Dependencies

- Software Dependencies
  - None

- Hardware Dependencies
  - None

- Exploiters
  - None

Upgrade & Coexistence Considerations

- To exploit this solution, all systems in the Plex must be at the new z/OS level: No

- List any toleration/coexistence APARs/PTFs: None

- Upgrade or coexistence concerns: None

Installation & Configuration

- None

Summary

- Allocating encrypted data sets is supported via a new key label field for sequential, PDSEv2, and VSAM datasets.

- New message ISRU816 will be issued if DFSMS allocates a dataset ignoring the key label field. In this case, the data set is not encrypted.

Appendix

- z/OS ISPF Publications
    - ISPF Dialog Developers Guide and Reference SC19-3619-60
    - ISPF Dialog Tag Language Guide and Reference SC19-3620-60
    - ISPF Edit and Edit Macros SC19-3621-60
    - **ISPF Messages and Codes SC19-3622-60**
    - ISPF Planning and Customization SC19-3623-60
    - ISPF Reference Summary SC19-3624-60
    - ISPF SCLM Guide and Reference SC19-3625-60
    - ISPF Services Guide SC19-3626-60
    - ISPF Users Guide Volume I SC19-3627-60
    - **ISPF Users Guide Volume II SC19-3628-60**