Managing Your Environment with Dynamic Resource Definition and the IMS 12 Repository Function: Hands-On Lab

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DRD Refresher

- OBJECTIVE: *Improve the availability* of the IMS online environment
- Allow user to *dynamically* define and enable *MODBLKS resource definitions*
  - *Databases*
  - *Programs*
  - *Transactions*
  - *Routing Codes*
- Benefits
  - No requirement for MODBLKS SYSGEN
  - No requirement for IMS restart/MODBLKS online change
    - Limitations associated with these methods eliminated
  - Increased resource availability
- Type-2 commands: CREATE, DELETE, UPDATE, EXPORT, IMPORT, and QUERY

How Resources are Stored When Using DRD

- Before IMS 12: MODBLKS stored resource definitions kept in:
  - Set of resource definition data sets (RDDS)
    - Contains statically (SYSGEN) and dynamically created definitions
      - *Resource definitions*
      - *Model descriptors*
    - Autoimport reads in stored resource definitions from RDDS at IMS coldstart
    - Autoexport to RDDS at system checkpoint
- In IMS 12: MODBLKS stored resource definitions kept in either:
  - RDDS (used in DRD lab at previous SHARE conferences)
  - IMS repository (used in current and future DRD labs)
    - Autoimport function can read in stored resource definitions from repository at IMS coldstart
    - No autoexport capability

IMS Repository Function Benefits

- Consolidation of resource definitions in a single place, the repository

- DRD definitions are the initial implementation of the IMS repository function (to replace RDDSs)

- Full support for populating, managing, storing, sharing, and retrieving a consistent set of DRD stored resource definitions for multiple-IMS IMSplexes and single-IMS IMSplexes

- Manual coordination of multiple RDDSs in a multiple-IMS IMSplex eliminated, replaced by basic functioning of the IMS repository

- Improvements in IMSplex systems and resource management with the repository

- A strategic direction for IMS architecture

Lab Activities

- Review CSL + DRD with repository setup
- Set IMSplex name in TSO SPOC preferences
- Dynamically create resources
  - Setting attribute values in command syntax
  - Referencing a model descriptor
- Exporting/importing resources to/from the repository
  - Avoiding common pitfalls
  - Resources with unique vs. generic attributes
- Displaying runtime and stored resource definitions in repository

Lab Activities

- Capturing runtime resource definitional changes in repository
  - Different ways to export definitions without having to specify exact resource names
- DRD/RM utilities

  - Migration aid: generating a repository from RDDS or IMS log records

  - Fallback aid: generating an RDDS or MODBLKS from repository
- Command shortcuts

Lab Admin

- You will be assigned a user ID named IMPOTxx

User ID: IMPOTxx
Password: IBM01POT

Have fun, ask questions and provide feedback!