Enterprise Computing Solutions - Education Services

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DFSMS Implementation

CODE:	DURÉE:	PRIX H.T.:
SS84G	32 Hours (4 Jours)	€3,150.00

Description

Learn how to plan and implement DFSMS. Learn a step-by-step implementation strategy emphasizing coexistence considerations reinforced by hands-on labs. Learn how to manage temporary and permanent data sets with an emphasis on disk storage. Discuss exploitation of the functions provided by DFSMS as the installation evolves to the DFSMS environment.
Hands-On Labs Six labs are included to address:

- using Interactive Storage Management Facility (ISMF)
- activating System Managed Storage (SMS) with a minimal configuration
- managing data temporary data sets
- managing permanent data sets
- volume and data set conversion to SMS
- system operations

Hands-on lab projects may be done in teams depending on the number of attendees and location.

Objectifs

- Establish a DFSMS configuration to automatically enforce your installation's storage management policies
- Convert service level requirements into appropriate parameters for data class, storage class, management class, and storage groups
- Create and test Automatic Class Selection (ACS) routines
- Convert volumes and move data to system-managed volumes with DFSMS Data Set Services (DFSMSdss)
- Specify appropriate management class and storage group parameters for DFSMS Hierarchical Storage Management (DFSMShsm) processing of system-managed data sets
- Plan to maintain your DFSMS environment using Naviquest
- Establish procedures to control, manage, and recover the storage management subsystem with ISMF and operator commands
- Develop a DFSMS implementation plan

Audience

This is an intermediate course for individuals responsible for developing and implementing effective storage management techniques.

Prérequis

You should have completed:

- *An Introduction to Data Storage Subsystems (SS050)*
- *Fundamentals of Storage Management (SS060)*
- **or** have equivalent knowledge

Programme

Course introduction and DFSMS overview

- specify the storage administration functions that can be automatically performed by the system

- identify the types of data set services that need to be established by negotiating service level agreements
- correlate data set service requirements to the SMS configuration components: data class, storage class, management class, storage group, and automatic class selection routines

Activating SMS

- identify the functions eligible for exploitation with the installation of DFSMS Data Facility Product (DFSMSdfp) and the activation of SMS
- create SMS control data sets
- code SYS1.PARMLIB operands necessary to bring up SMS
- create a minimal configuration
- activate a configuration

Writing ACS routines

- identify the purpose of the ACS routines
- develop an understanding of the statements
- differentiate between literals and masks
- describe the read variables available in the ACS routines

Managing temporary data sets

- create/alter storage classes and storage groups
- identify steps to install and use the starter set
- write ACS routines to handle temporary data sets
- activate a system to manage temporary data sets
- code commands to change volume/group SMS status
- issue operator commands to display current status

Exploiting DFSMS

- describe the purpose of the data class
- identify the features that the data class can exploit
- create data sets using the space parameter
- define Virtual Storage Access Method (VSAM) and volume attributes for data class
- identify special data sets and their exploitation through the data class

Managing permanent data sets

- create/alter data classes, storage classes, management classes, and storage groups
- translate current (DFSMShsm) service level agreements to management class parameters
- identify alternatives and concerns for standard naming conventions
- establish the controls for automatic backup of data sets
- establish the controls for automatic volume dump
- write ACS routines to manage permanent data
- create a configuration that manages permanent data sets
- create a new managed data set
- identify function of storage class exit provided by Custom-Built Installation Process Offering (CBIPO) and resulting System Management Facility (SMF) records

Using Naviquest

- create test cases using Naviquest
- perform storage administration tasks in batch
- create online DFSMS reports
- create model commands using Naviquest
- use the COPYFILT macro

Device preparation and data movement

- initialize volumes as system-managed
- move data into/out from system-managed control
- convert volumes to/from system-managed
- move data to utilize new hardware capabilities

Controlling DFSMS

- code commands to change SMS volume/group status
- issue commands to save configurations and use alternate Active Control Data Set (ACDS)
- issue command to use alternate Communication Data Set (COMMDS)
- issue VARY SMS commands

- communicate with the security administrator about storage management requirements

Additional considerations

- establish a plan for implementing SMS
- locate sources of implementation planning checklists
- identify the tools available to document the current system
- identify multiple site considerations for recovery and exploitation

Dates de session

Sur demande. Merci de nous contacter

Informations Complémentaires

Cette formation est également disponible sous forme de formation sur site. Veuillez nous contacter pour en savoir plus.