



DB5001: DB2 for z/OS Installation, Migration and Systems Administration

Course ID #: 0370-246-DB-W

Hours: 35

Course Content

Course Description:

During this hands-on workshop the attendee will install their own Db2 subsystem, migrate their subsystem to a new release and implement additional Db2 functions. Detailed attention is given to Db2 in a data sharing environment, what facilities are supplied to manage and the recovery of system resources, the Db2 environment and how Db2 relates to the z/OS environment.

Course Objectives:

Upon successful completion of this course, the student will be able to:

- Db2 Installation and Migration Planning
- Db2 Installation Process
- Migration planning and procedures
- Additional Function Implementation
- Db2 Data Sharing
- Systems Administration Role and Responsibilities
- Perform critical system resource recovery
- Develop and implement systems recovery procedures
- Address Data Sharing Recovery Considerations

Target Audience:

Db2 Systems Programmers, Db2 Systems Administrators and Systems Database Administrators who will be installing and migrating Db2 for z/OS.

Prerequisites:

A working knowledge of Db2 for z/OS (DB5000), z/OS JCL, TSO/ISPF & z/OS Utilities (MF1010) and SMP/E Fundamentals (MF5020, optional).

Topics:

Introduction

- Db2 Installation and Migration Overview
- Preparation Steps
- Hardware and Software requirements
- Personnel
- Critical Subsystem Structures
- Critical Subsystem Resources
- System Administration Basics

Db2 Installation

- Db2 Installation Steps
- Running the Installation CLISTs
- Running the Installation Jobs
- Prepare Db2 for use
- Installation Verification



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Db2 Migration

- Migration Planning
- Pre-migration procedures
- Running the Migration CLISTs
- Running the Migration Jobs
- Migration Verification
- Post-migration New Features Implementation

- Connection Failures
- Restart after failure

Managing the BSDS and LOGs

- Stand-alone Utilities
- Commands
- Recovering from BSDS failures
- Recovering from Log failures

Installing or Enabling Additional Functions

- Installing Db2 supplied Stored Procedures and Functions
- Connecting local Attachments
- Connecting Distributed Database Applications
- Connecting systems with TCP/IP
- IBM Data Server Driver for JDBC and SQLJ

Db2 non-Sysplex Failure Recovery

- Member Failures
- Database Failures
- Db2 Catalog
- Db2 Directory
- Application Failures
- Short on Storage
- SCA
- Lock Structures
- Group Buffer Pools

Installing, Migrating and Enabling Data Sharing

- Planning for Data Sharing
- Sysplex Requirements
- Installing a new Data Sharing Group
- Enabling Db2 Data Sharing
- Adding New Members
- Migrating a Data Sharing Group
- Mixed Release Considerations

Db2 Sysplex Failure Recovery

- Sysplex Configuration Overview
- CPC Failures
- Sysplex Timer Failures
- Structure Failures
- Duplexed Group Buffer Pool

Introduction to Operations and Recovery

- Db2 for z/OS Operations
- Db2 Recovery Environment
- Preparing for Recovery
- Failure Types
- Db2 Troubleshooting

Security Administration Overview

- Db2 Security Overview
- Access Control Options
- Recommendations
- Security Control Install Parameters

Db2 Subsystem Startup and Shutdown

- Normal Operations
- Subsystem Failure
- Attachment Failures