

DB2 for z/OS Data Sharing Implementation

Course Summary

Description

This course covers the planning and implementation of a DB2 for z/OS data sharing group on a parallel sysplex mainframe cluster.

Objectives

At the end of this course, students will be able to:

- Describe the components of a parallel sysplex
- Describe the major components of a DB2 data sharing group
- Understand the planning considerations for DB2 data sharing
- Describe the detailed mechanics of DB2 data sharing
- Understand the installation requirements of DB2 data sharing
- Know the syntax and usage of DB2 data sharing commands
- Understand how DB2 data sharing has been enhanced with DB2 product releases since the introduction of the technology with DB2 for z/OS Version 4
- Describe the impact of DB2 data sharing on distributed database processing
- Understand high level DB2 data sharing performance considerations

Topics

- z/OS Parallel Sysplex Overview
- DB2 Data Sharing Introduction
- Planning for DB2 Data Sharing
- DB2 Data Sharing Mechanic
- Installation and Migration
- DB2 Data Sharing Commands
- DB2 Data Sharing Enhancements
- DB2 Data Sharing Considerations for Distributed Database Processing
- Introduction to DB2 Data Sharing Performance

Audience

This course is intended for experienced DB2 professionals responsible for planning and implementing a DB2 data sharing group.

Prerequisites

Students should be familiar with the DB2 for z/OS mainframe environment, with production experience with DB2 for z/OS Version 7 or beyond.

Duration

Three days

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Course Outline

- I. z/OS Parallel Sysplex Overview**
 - A. Covers the highlights of a parallel sysplex, including the XES and XCF components of z/OS, and coupling facility hardware and software
- II. DB2 Data Sharing Introduction**
 - A. Describes the architecture of data sharing, and discusses the components of data sharing and how they interact with z/OS to provide data integrity across a data sharing group
- III. Planning for DB2 Data Sharing**
 - A. Emphasizes the importance of planning for the naming convention to be used in the DB2 data sharing environment
- IV. DB2 Data Sharing Mechanics**
 - A. Covers the technical details of DB2's exploitation of parallel sysplex services and the coupling facility shared-memory devices
 - B. The mechanisms for global buffering, global locking, and global communications are explained and illustrated with examples
- V. Installation and Migration**
 - A. Covers the unique installation considerations for data sharing, as well as the implications of migration and of disabling data sharing
- VI. DB2 Data Sharing Commands**
 - A. Covers the z/OS and DB2 commands used to operate a data sharing group
- VII. DB2 Data Sharing Enhancements**
 - A. Covers the major enhancements to data sharing delivered in DB2 Versions 5, 6, 7, 8, and 9 (the technology was introduced with DB2 for z/OS Version 4)
- VIII. DB2 Data Sharing Considerations for Distributed Database Processing**
 - A. Covers the impact of data sharing on DB2 distributed database processing
- IX. Introduction to DB2 Data Sharing Performance**
 - A. Covers the main performance considerations in data sharing