Db2 12 for z/OS Introduction to System Administration

Information

Length:	24.0 Hours
__Ref:	CV853G
Delivery method:	Classroom
Price:	AUD

Overview

This course provides students with an introduction to the skills and knowledge needed to administer a Db2 12 for z/OS system.

Public

This course is intended for z/OS system administrators, database administrators, or other technical individuals who will be managing Db2 12 for z/OS.

Prerequisits

- Understanding of the objects (such as databases, table spaces, tables, indexes, and so forth) used in a Db2 subsystem
- Basic knowledge of SQL
- At least one year as a z/OS systems programmer or equivalent knowledge

OR

- At least one year as a Db2 for z/OS Database Administrator

Objective

Prior to enrolling, IBM Employees must follow their Division/Department processes to obtain approval to attend this public training class. Failure to follow Division/Department approval processes may result in the IBM Employee being personally responsible for the class charges.

GBS practitioners that use the EViTA system for requesting external training should use that same process for this course. Go to the EViTA site to start this process:

http://w3.ibm.com/services/gbs/evita/BCSVTEnrl.nsf

Once you enroll in a GTP class, you will receive a confirmation letter that should show:

- The current GTP list price
- The 20% discounted price available to IBMers. This is the price you will be invoiced for the class.

Topics

Starting, stopping, and accessing Db2
• Starting Db2 as part of the z/OS IPL process
• Data set allocation and APF authorization
• The START DB2 and STOP DB2 commands
• zParms, DSNTIJUZ, and DSNZPARM
• Address spaces
• IRLM and lock storage

Db2 components and processes
• BSDS and logging
• Catalog and directory
• Program preparation and execution
• Transaction execution
• Data sharing in the sysplex

System security
• Protecting Db2 data sets
• Controlling connections to Db2
• Db2 authorization exits
• Trusted context and roles
• Securing an application server

Db2 authorization
• Authorizations
• Controlling access for dynamic and static SQL
• Access control authorization exits
• Distributed security

Program flow for all environments
• Connection types and language interfaces
• Program flow

TSO and batch environments
• TSO
• Utilities

Transaction flow in IMS and CICS (optional)
• Transaction processing
• Thread reuse
• SIGNON exit

CICS - Db2 environment (optional)
• CICS connections to Db2
• DSNC transaction

IMS - Db2 environment (optional)
• IMS-Db2 introduction
• IMS TM
• IMS/DLI batch environment

Distributed - Db2 environment
• Distributed attachment
• Location aliases
• DDF profiling
• Block fetch
• Db2 REST services

Logging
• The Db2 log
• Log commands
• Archiving considerations
• BSDS

Db2 utilities
• Categorization
• DSNJU003 and DSNJU004
• BACKUP and RESTORE SYSTEM

Operations (monitoring and controlling Db2)
• Issuing Db2 commands
• Basic workload controls
• Monitoring and controlling utilities
• DISPLAY commands
• Starting / stopping databases

Recovery

• Planning for recovery
• Table space recovery
• Log considerations
• DISPLAY and SET LOG commands
• Recovery considerations

System recover/restart
• System checkpoints
• System restart after normal shutdown
• Page externalization
• Two-phase commit processing
• System restart after system failure
• Recovery considerations

Java with Db2 (optional)
• Java

Administrative task scheduler (optional)
• Overview
• Routines
• Scheduling features
• Life cycle
• Syncronization
• Commands