Db2 for z/OS 13: Introduction to System Administration

Duration: 3 Days   Course Code: CV854G   Delivery Method: Virtual Classroom

Overview:

This course introduces the skills and knowledge required to administer a Db2 13 for z/OS system. Utilizing the lecture and a z/OS lab environment, learners will gain practical practice starting, stopping, and accessing Db2; examining the zParms and data sets; connecting to a Db2 subsystem via Data Studio; querying the catalog; exploring RACF; examining threads; working with DB2I; modifying Db2 active and archived logs; utilizing online utilities; monitoring and controlling Db2; recovering the catalog and directory; and using the administrative task scheduler.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

This course is intended for z/OS system administrators, database administrators, or other technical individuals who will be managing Db2 13 for z/OS.

Objectives:

- Start the Db2 subsystem using command syntax

- Identify and describe the function of the three required Db2 address spaces

- Describe the Db2 program preparation process, including precompilation, compilation, link editing, and binding steps

- Apply RACF commands to assign and manage access permissions for user groups

- Explain Trusted Contexts and Roles, then create and test them

- Check SYSADM authority and work with secondary authorization IDs and database privileges

- Explain Db2 program flow for all environments

- Run a Db2 program in a TSO batch environment

- Identify the steps involved in transaction processing and the purpose of the Db2 SIGNON protocol in CICS and IMS environments

- Explain the role and configuration of the CICS Db2 Attachment Facility in establishing connections between CICS and Db2 subsystems

- Explain the role of the Subsystem Member (SSM) in controlling Db2 connections within IMS environments

- Explain the characteristics and functionality of Distributed Data Facility (DDF) transactions in Db2 for z/OS, including their classification and usage with Workload Manager (WLM)

- Explain the role of the Db2 log in data recovery and system restart processes

- Explain the operation of the Db2 BACKUP SYSTEM utility, including system preparation, invocation of the DFSMShsm fast replication function and updating the BSDS

- Demonstrate the use of Db2 commands to monitor and control utilities and connections

- Describe the components and function of a Unit of Recovery (UR) in Db2, including the role of log RBSa and the process of back-chaining records for rollback

- Describe the phases of Db2 system restart following a system failure, including log initialization, current status rebuild, forward log recovery, and backward log recovery

- Execute a restart following a normal shutdown and an abnormal shutdown

- Explain how JDBC enables Java applications to access Db2 for z/OS

- Explain the synchronization process and command operations of the Db2 administrative task scheduler and the steps to start or stop the scheduler manually

Prerequisites:

Participants should have the following skills:

- A basic understanding of the objects (such as databases, table spaces, tables, indexes, etc) 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

Content:

Unit 1: Starting, Stopping, and Accessing Db2

Unit 2: Db2 Components and Processes

Unit 3: System Security

Unit 4: Db2 Authorization

Unit 5: Program Flow for All Environments

Unit 6: TSO and Batch Environments

Unit 7: Transaction Flow in IMS and CICS (optional)

Unit 8: CICS - Db2 Environment (optional)

Unit 9: IMS - Db2 Environment (optional)

Unit 10: Distributed - Db2 Environment

Unit 11: Logging

Unit 12: Db2 Utilities

Unit 13: Operations (Monitoring and Controlling Db2)

Unit 14: Recovery

Unit 15:System Recover / Restart

Unit 16: Java with Db2 (optional)

Unit 17: Administrative Task Scheduler (optional)

Further Information:

For More information, or to book your course, please call us on 00 966 92000 9278

training@globalknowledge.com.sa

www.globalknowledge.com/en-sa/

Global Knowledge - KSA, 393 Al-Uroubah Road, Al Worood, Riyadh 3140, Saudi Arabia