Db2 12 for z/OS Introduction to System Administration

Duration: 3 Days Course Code: CV853G

Overview:

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

Target Audience:

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

Objectives:

- **After completing this course, students should be able to:**
- Start and stop a Db2 subsystem
- Use the SET SYSPARM command
- Access the system log to gather information about the subsystem initialization, operation, or shutdown
- Describe the components and address space structure of a Db2 subsystem
- Explain the use of RACF (or another external security program) for Db2 connection security
- Explain the use of Roles and Trusted Contexts
- Implement security procredures for a Db2 subsystem
- Explain Db2 program flow for all environments
- Explain parameter setting for the IRLM
- Invoke and utilitze Db2 TSO facilities
- Use the Db2 Catalog to monitor subsystem authorizations
- Work with the Active Log data sets
- Explain Db2 logging
- Use SET LOG SUSPEND and SET LOG RESUME
- Use DSNJU004 to print log map and interpret the results
- Use DSNJU003 to rename Db2 data sets
- Plan for recovery of a BSDS failure
- Monitor and control a Db2 subsystem
- Explain transaction flow in IMS and CICS environments (optional)
- Describe the CICS and DB2 environment (optional)
- Explain the difference between JDBC and SQLJ
- And much more

Prerequisites:

- 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

Testing and Certification

None

Follow-on-Courses:

None

Content:

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

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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