

# BASICS OF Z/OS RACF ADMINISTRATION

Course Code: 0005

IBM Course Code: ES191CE

Learn how to administer the z/OS Security Server Resource Access Control Facility (RACF). Get an introduction to the z/OS environment, Time Sharing Option (TSO) and Interactive System Productivity Facility / Program Development Facility (ISPF/PDF), batch processing, and z/OS data sets. Gain experience with z/OS by viewing, and allocating datasets, submitting a batch job, and viewing job output. Learn how to use basic RACF command parameters, and panels, to define users and groups, protect general resources, z/OS data sets, and choose a basic set of RACF options.

## Course Materials

The course materials cover z/OS Security Server RACF.

## Hands-On Labs

Nine labs are included to address logging on to the z/OS system, working with z/OS data sets, submitting batch jobs to z/OS, using System Display and Search Facility (SDSF) to view jobs in the system, defining a RACF group structure, RACF user administration, delegating security administration, protecting z/OS data sets, and using RACF for TSO administration.

Hands-on lab projects may be done in teams depending on the number of attendees and location.

## What You'll Learn

- Understand the basic features and concepts of zSeries architecture and of the z/OS operating system as they relate to security administration
- Describe the allocation process for data sets in the z/OS environment
- Understand how programs access data sets and how RACF security interacts in that process
- Identify the security requirements of an z/OS system
- Use basic facilities and features of RACF
- Define new users and groups to RACF
- Use RACF to protect z/OS data sets and general resources
- Select a base set of options to tailor RACF

## Who Needs to Attend

This is a basic course for individuals who are new to z/OS and the z/OS Security Server RACF and who administration security using the RACF element of the z/OS Security Server.

Experienced z/OS users should take:

- Effective RACF Administration (BE87)

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VIRTUAL CLASSROOM LIVE

\$6,175 CAD

5 Day

## Virtual Classroom Live Outline

### 1. Review of z/Architecture and z/OS

- Describe z/Architecture
- Provide an overview of z/OS and its components
- Explain the concept of virtual storage and its exploitation in z/OS
- List the different kinds of data sets and discuss their management in z/OS
- Name the main end-user interfaces of z/OS

### 2. An Introduction to ISPF and ISPF/PDF

- Name and describe the components of ISPF
- Log on to the lab system of this class
- Log off from the lab system of this class
- Start ISPF/PDF
- Provide an overview of the structure of ISPF/PDF panels
- Alter the ISPF/PDF settings
- Use ISPF/PDF to view a data set

### 3. An Introduction to Data Sets

- Describe data management concepts
- Explain the data set allocation process
- Describe the catalog structure
- Explain how data sets are defined and used
- Allocate a new data set
- Edit a data set using ISPF/PDF
- Delete a data set
- Use ISPF/PDF data set list

### 4. Batch Processing

- Name and explain the Job Entry Subsystem 2 (JES2) job processing phases
- Describe the general layout of a job
- List and describe the components of a Job Control Language (JCL) statement

- Submit a batch job to z/OS
- Use ISPF 3.8 and SDSF to handle the job output

## 5. Security and RACF Overview

- Explain the role RACF plays in data security
- List the four major functions of RACF
- Explain how RACF allows or denies a user access to a resource, given a diagram of RACF's resource authorization checking process
- Define the terms Universal Access Authority (UACC), access list, user profile, and resource profile
- Describe the role of the security administrator and the auditor
- Explain the features of RRSF

## 6. Administering Groups and Users

- Describe the group structure in RACF
- Create a group structure by defining appropriate RACF group profiles
- Define new users to RACF
- Implement a centralized or decentralized administrative structure

## 7. Protecting z/OS Data Sets

- State the differences between generic and discrete data set profiles
- Explain the process RACF uses to grant or deny user access to a data set
- Use the RACF commands or panels to define data set profiles

## 8. Introduction to General Resources

- Describe the concepts of general resources
- Add a Time Sharing Option (TSO) user to RACF
- Add a UNIX System Service user to RACF
- Set up a user help desk function

## 10. RACF Options

- Understand the impact that RACF options have on an installation
- Identify those options that require special planning before activation
- Identify a basic set of options appropriate for an installation

## 11. Other Administrative Facilities and Features

- Describe the use of the global access table
- Describe the purpose of the started procedure table
- Define a protected user
- Explain the use of the restricted user attribute
- Use the RACF database unload utility to document your RACF system
- Describe how to map a digital certificate to a RACF userid

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PRIVATE GROUP TRAINING

5 Day

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