ProTech Professional Technical Services, Inc.

Using RACF with CICS

Course Summary

Description

This course describes and explains how RACF is implemented within a CICS environment, essential knowledge for all security administrators and technician working with RACF in a CICS/System Z environment. The course (designed, written, and presented by specialist RACF consultants) provides a detailed insight into the CICS-RACF Interface.

Objectives

At the end of this course, students will be able to:
- Describe the necessary requirements to implement a secure RACF CICS environment.
- Administrate RACF to protect CICS regions and their User IDs.
- Define RACF General Resource Profiles to protect CICS transactions, resources, and internal CICS commands.
- Amend CICS system parameters to invoke RACF security.
- Understanding the implications using CICS prefixes.
- Take advantage of the RACF Class Descriptor Table or the new RACT CDT class to create new CICS regions.
- Describe how CICS and Db2 security work together.

Topics

- CICS Overview
- RACR Review
- CICS & RACF
- CICS & RACF in a Single CICS Region
- CICS & RACF in MRO Environments
- Setting up CICS RACF Security
- Problem Determination

Audience

Those who can benefit from this Using RACF with CICS course include:
- All Security Administrators and Systems Programmers responsible for CICS

Prerequisites

- A clear understanding of z/OS at a conceptual level
- RACF Administration & Auditing
- Familiarity with CICS and a knowledge of TSO/ISPF and JCL

Duration

Two days

Course Outline

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I. CICS Overview
- A. The CICS family
- B. Today's CICS
- C. Product Identifiers
- D. What is CICS?
- E. Terminology
- F. CICS tables
- G. What is a Business Transaction?
- H. What is a CICS task /CICS transaction?
- I. What is a CICS program?
- J. CICS characteristics
- K. On-line processing
- L. IBM CICS Transaction Server for z/OS;
- M. Workload management
- N. Access to CICS
- O. Accessing CICS from the Web
- P. CICS Web Support (CWS)
- Q. CICS Web Services; CICS Web Services support
- R. The IBM client family
- S. IBM CICS Transaction Gateway, Version 7.0
- T. XML support
- U. CICS organization
- V. Application services
- W. Principal Domains/Management modules
- X. CICS resource definitions
- Y. RDO overview
- Z. RDO components
- AA. The CICS System Definition File
- BB. The CICS Global Catalog
- CC. Available documentation (RACF related)

II. RACF Review
- A. What is required of a security system?
- B. IBM's Resource Access Control Facility (RACF)
- C. Main RACF/MVS components
- D. How does RACF work?
- E. RACF Profiles
- F. User Profiles
- G. Group Profiles
- H. Resource Profiles
- I. RACF classes
- J. Always present
- K. IBM-supplied general resource classes
- L. Controlling access
- M. Allowing access
- N. RACF commands

III. CICS & RACF
- A. The CICS-RACF interface
- B. The role of CICS in security control
- C. Region-wide requirements
- D. Interface implementation
- E. CICS-RACF interfaces

IV. CICS & RACF in a Single CICS Region
- A. CICS & RACF in a single CICS region
- B. CICS region userid
- C. Creating the CICS region userids
- D. CICS default userid
- E. Access requirements

V. CICS & RACF in MRO Environments
- A. Overview
- B. Types of connections
- C. Intercommunication security
- D. BIND security
- E. Link security
- F. User security

VI. Setting up CICS RACF Security
- A. CICS SIT parameters
- B. SEC
- C. SIT parameters: typical configuration
- D. Protect the CICS region
- E. User access from a terminal
- F. User Signon
- G. Controlling Userid propagation
- H. PROPCNTL
- I. SURROGAT
- J. RACF Classes for CICS
- K. Member or grouping class?
- L. Member class profiles
- M. Grouping class profiles
- N. How RACF merges profiles
- O. Who has access to STOH?
- P. IBM-supplied grouping profiles
- Q. Additional transactions
- R. Securing CSD transactions
- S. Setting up CICS RACF security

VII. Problem Determination
- A. Problems?
- B. Messages
- C. SMF records
- D. Information Startup
- E. CICS region job log