

CA ACF2 r15: Intermediate Administration 300

Course Summary

Description

This course will introduce additional features of CA ACF2 Security for z/OS (CA ACF2) that provide default protection for your mainframe operating systems. Topics covered in class include maintaining infostorage records (such as scope, shift, profile and cross-reference) and defining the global system options, as well as working with the FDR, LIDREC DSECT and ACF commands and utilities. During the course, the material covered will be reinforced through case studies and demonstrations.

Objectives

After taking this course, students will be able to:

- How to describe how CA ACF2 provides protection by default
- How to describe the CA ACF2 control databases
- How to describe and maintain the macros of the Field Definition Record (FDR) and LIDREC DSECT
- How to describe and update the Global System Options (GSO)
- How to maintain Infostorage Records, including cross-reference records, scope, shift, and profile records
- How to use ACF commands, subcommands, and console commands

Topics

- Overview
- ACF Field Definition Record
- Describe Global System Options
- Maintain Global System Options
- Cross Reference
- Record Types and Groupings
- Shift, Zone and Scope Records
- Profile Records and Commands
- Commands and Utilities

Audience

- Security Administrators
- Systems Programmers
- Security Auditors
- Database Administrators

Prerequisites

- CA ACF2 R12: Basic Administration 200 (06ACF20021)
- Understanding of data processing concepts and terminology
- Experience with TSO/ISPF

Duration

Two Days

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Course Outline

I. Overview

- A. Data Security
- B. System Entry Validation
- C. Password Controls
- D. Data and Resource Controls
- E. Audit Concerns
- F. Default Protection
- G. Control Databases
- H. Logon ID Database
- I. User Identification (UID) String Concept
- J. Access Rule Database
- K. Infostorage Database
- L. Infostorage Record Classes
- M. Global System Options (GSO) Records
- N. ACFFDR
- O. System Options
- P. Security Modes

II. ACF Field Definition Record

- A. About UID
- B. UID Design Considerations
- C. Creation Steps
- D. @UID Macro
- E. Logon ID Field Definition — @CFDE
- F. Logon ID Field Definition — LIDREC DSECTS
- G. Defining UID Fields
- H. Defining UID DSECT
- I. LIST Using the UID String
- J. CHANGE Using the UID String
- K. DELETE Using the UID String
- L. ACFRPTSL — Selected Logon ID List
- M. ACFFDR Record
- N. CA-ACF2 Macros
- O. Logon ID Considerations
- P. Dataset Name Allocation
- Q. Create Supervisor Call — @CSVCL Macro
- R. System Management Facility

III. Describe Global System Options

- A. GSO Records
- B. Password Management
- C. RESWORD Record
- D. PWPHRASE Record

- E. System Access Considerations
- F. Auditing and Logging Controls
- G. Miscellaneous Options
- H. STC Access Considerations
- I. STC Record
- J. STC Record Examples

IV. Maintain Global System Options

- A. Rule Maintenance Options
- B. Security Boundaries for DASD
- C. Security Boundaries for Tape
- D. Security Boundaries Example
- E. CA-ACF2 User Exits
- F. Resident Rules and Directories
- G. TSO Record
- H. Controlling TSO
- I. Unix Security UNIXOPTS
- J. Digital Certificates
- K. CERTMAP
- L. CRITMAP
- M. CLASMAP Records
- N. SAFDEF Records
- O. Message During Warn Mode
- P. Tape BLP
- Q. Programs to be Logged
- R. Protected Program List
- S. System Maintenance Programs
- T. CA ACF2 Database Backup
- U. Displaying System Options
- V. GSO Subcommands (8 slides)
- W. Primary ISPF Menu
- X. CA ACF2 Option Selection Menu
- Y. Inserting a GSO Record

V. Cross Reference Record Types and Groupings

- A. Cross-Reference Record Types
- B. Cross-Reference Records
- C. Source Groups
- D. Using Source Groups
- E. Source Group Commands
- F. Source Groups
- G. Resource Groups
- H. Resource Groupings
- I. Resource Grouping Utility
- J. Resource Group Commands
- K. Grouping Groups
- L. Role Group Utility, Role Group Commands

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Course Outline (cont.)

- M. Grouping Role Groups, Role \$ROLESET

VI. *Shift, Zone and Scope Records*

- A. Shift Records
- B. Shift Key Structure
- C. Zone Records
- D. Part Time Access
- E. Shift Control of Resource Access
- F. Shift Commands
- G. Zone Commands
- H. Scope List Principle, Scope List Key Structure, Scope List Key Example
- I. Scope Lists, Scope List Purpose, Scope List Parameters
- J. Scope Commands (SET SCOPE(SCP), INSERT...CHANGE ...LIST ...DELETE ...)
- K. CASECAUT Resource Class
- L. ACFCMD.USER.* fields in CASECAUT class

VII. *Profile Records and Commands*

- A. Profile Record Types, Profile Records
- B. General Profile Record Types
- C. USER Profile Record Types
- D. Profile Record Structure
- E. USER Profile Commands
- F. Seamless Profile Command Example
- G. OMVS Profile Data Record, OMVS Show commands
- H. Data Classification Option, DCO Record DATA
- I. DCO Record commands, CERTDATA Digital Certificate
- J. CERTDATA Commands, PTKTDATA Passtickets
- K. ACFRPTTEL

VIII. *Commands and Utilities*

- A. Issue in Any CA ACF2 Command Setting
- B. HELP Output — Sample for LIST
- C. O/S Operator Commands
- D. O/S Operator Modify Commands
- E. ACFRPTPP
- F. ACFRPTNV Environment Log
- G. ACFRPTNV