

Course Code: N/A

Course Name: z/OS Connect Installation and Maintenance

OEM/Tech Origin: IBM

Duration:

Actual: 32 hours

Proposed: 4 days, 8 hours per day

Overview:

This course is designed to provide the skills necessary for the installation, configuration, and maintenance of z/OS Connect. It covers the essential concepts, tools, and practices required to set up and manage z/OS Connect in a z/OS environment.

Audience:

System programmers, administrators, and IT professionals responsible for installing, configuring, and maintaining z/OS Connect.

Prerequisites:

- Basic understanding of z/OS and its utilities
- Knowledge of JCL statements
- Familiarity with z/OS utility programs such as assembler, linkage editor, IEBCOPY, IEBUPDTE, and AMASPZAP
- Understanding of access method services commands and parameters used in creating a VSAM KSDS
- Experience with ISPF/PDF panels.

Course Objectives:

- Install and configure z/OS Connect
- Understand the use of OpenAPI3 support in z/OS Connect
- Configure security settings for z/OS Connect
- Troubleshoot common issues in z/OS Connect
- Integrate z/OS Connect with other z/OS components

Relevant Certifications:

- ✦ IBM Certified System Administrator - z/OS
- ✦ IBM Certified System Programmer - z/OS

Detailed Course Outline:

Topic 1: Introduction to z/OS Connect

1.1) Overview of z/OS Connect

- ✦ Purpose and benefits of using z/OS Connect
- ✦ Architecture and components of z/OS Connect

1.2) Prerequisites for z/OS Connect

- ✦ System requirements and software prerequisites
- ✦ Setting up the environment for z/OS Connect.

Topic 2: Installation of z/OS Connect

2.1) Using SMP/E for Installation

- ✦ SMP/E installation process for z/OS Connect
- ✦ Following the Program Directory for installation

2.2) Configuring z/OS Connect

- ✦ Creating a default server and customizing server.xml
- ✦ Enabling OpenAPI3 support.

Topic 3: Security Configuration

3.1) Basic Authentication and SSL Configuration

- ✦ Configuring server.xml for basic authentication and SSL
- ✦ Understanding pass tickets and RSE daemon configuration

3.2) Advanced Security Settings

- ✦ Using webAppSecurity to allow failover to basic authentication
- ✦ Managing user IDs and passwords.

Topic 4: Troubleshooting z/OS Connect

4.1) Common Errors and Solutions

- ✦ Resolving 403 errors and connection issues
- ✦ Analyzing SYSLOG messages for z/OS Connect and RSE daemon

4.2) Debugging Techniques

- ✦ Using logs and traces to identify issues
- ✦ Troubleshooting steps for common problems.

Topic 5: Integration and Maintenance

5.1) Integrating z/OS Connect with Other Components

- Integrating with CICS and other z/OS subsystems
- Using z/OS Connect for RESTful APIs

5.2) Automated Maintenance

- Using SMP/E for automated maintenance and updates
- Ensuring connectivity to IBM maintenance servers for updates.

Labs Included:

Lab 1: Installing z/OS Connect Using SMP/E

- Step-by-step installation of z/OS Connect using SMP/E commands.
- Verifying the installation and configuring the basic settings.

Lab 2: Configuring Security for z/OS Connect

- Configuring server.xml for basic authentication and SSL.
- Testing the security settings and resolving common security-related issues.

Lab 3: Troubleshooting z/OS Connect

- Simulating common errors (e.g., 403 errors) and resolving them.
- Analyzing SYSLOG messages to identify and fix issues.

Lab 4: Integrating z/OS Connect with CICS

- Setting up z/OS Connect to work with CICS for RESTful APIs.
- Testing the integration and ensuring proper communication between components.

Lab 5: Automated Maintenance Using SMP/E

- Setting up SMP/E for automated maintenance and updates.
- Downloading and applying PTFs from IBM maintenance servers.