

IBM Informix 12.10 System Administration

2-Day Course Description

FA-0246 · 2-Day

DevOps, Cloud & Infrastructure · Automation, RPA & Power Platform

Introduction

This comprehensive 2-day course provides an in-depth understanding of the system administration tasks necessary to manage an Informix 12.10 environment effectively. The course caters to System Administrators, IT managers, and other IT professionals who are responsible for maintaining the underlying infrastructure of Informix databases. Covering a range of topics from installation to advanced system tuning, participants will leave equipped with the skills needed to ensure the seamless operation, security, and optimization of Informix 12.10 systems.

Learning outcomes

Upon successful completion of this course, participants will be able to:

- Install and set up Informix 12.10 on various platforms.
- Understand the key components and architecture of Informix 12.10.
- Configure and manage networking for Informix.
- Implement security features, including network security, encryption, and auditing.
- Perform routine maintenance tasks, including backups and updates.
- Monitor system performance and execute tuning to optimize system resources.
- Troubleshoot common system-related issues and implement corrective measures.
- Develop and implement automation and scripting for routine tasks.

Prerequisites

This is an IBM course and as with most IBM courses, a lot of specialized skill sets are required and also trained on. The course is intensive and thus requires the following minimum from the learner:

- Good understanding of relational database concepts.
- Experience with SQL syntax and queries.
- Usage knowledge on UNIX/Linux operating systems and basic commands.
- Some experience with general systems administration tasks.
- Hard working attitude.
- Ability and willingness to learn together.

Training outline

1. Day 1

Module 1: Introduction to Informix 12.10 System Administration

1. Overview of Informix 12.10
2. Role of a System Administrator

Module 2: Installing Informix 12.10

1. Supported Platforms
2. Installation Requirements and Steps

Lab 1: Installation and Setup

1. Hands-on exercise to install Informix 12.10

Module 3: Informix 12.10 Architecture

1. On-disk Architecture
2. Memory Architecture
3. Process Model

Module 4: Networking in Informix

1. Listener Threads
2. SQLHOSTS Configuration
3. Connectivity Troubleshooting

Lab 2: Networking Setup and Configuration

1. Exercise to configure network settings and test connectivity

Module 5: Security Features

1. User Access Control
2. Network Security

3. Data Encryption

Lab 3: Implementing Security

1. Hands-on lab to set up user privileges, network security, and encryption

2. Day 2

Module 6: Routine Maintenance

1. Backup Strategies
2. Applying Patches and Upgrades
3. Log Management
4. Lab 4: Maintenance Tasks
5. Performing backups, log rotation, and applying a sample patch

Module 7: Monitoring and Performance Tuning

1. Monitoring Tools
2. Tuning the Operating System and Database
3. SQL Query Tuning

Lab 5: Monitoring and Tuning

1. Hands-on exercises to monitor and tune a live system

Module 8: Troubleshooting and Diagnostics

1. Basic Troubleshooting Steps
2. Diagnostic Tools
3. Common Issues and Resolutions

Module 9: Automation and Scripting

1. Overview of ON-Bar and ON-Tape
2. Automation Using Cron and Windows Scheduler
3. Custom Scripting for Monitoring and Maintenance

Lab 6: Automation and Scripting

1. Creating simple automation scripts for routine tasks

Module 10: Course Wrap-Up

1. Summary of Key Concepts
2. Additional Resources for Further Learning
3. Q&A and Feedback Session

Each module is crafted to provide a balance between theoretical knowledge and practical application, ensuring participants are well-equipped to manage Informix 12.10 systems in a real-world environment.

