Faysal Aziz

IBM Informix

4-Day Exam Prep Course

FA-0244 · 4-Day

Data & Analytics

Introduction

Welcome to a comprehensive 4-day course on IBM Informix. This course is designed to guide both new and experienced database administrators through the basics and best practices of Informix.

Learning outcomes

- Gain a fundamental understanding of the Informix database server.
- Learn how to configure, monitor, and manage Informix servers.
- Understand advanced best practices for Informix DBAs.
- Develop an ability to optimize performance, manage security, and ensure high availability for Informix servers.
- Get insights into the new Informix Version 14 and Informix HQ.

Prerequisites

- Basic knowledge of relational database management systems.
- Familiarity with Unix/Linux operating systems is beneficial.

Exam Details:

Purchase link: https://www.iiug.org/event/informix-14-10-badge-exam-purchase/

Contact: Cindy Lichtenauer <cindy@iiug.org>
Link Valid till: 31st December, 2023
Badge Exam Price: USD 150.00

Training outline

1. Day 1: Introduction to Informix Database Servers

1. Informix Tutorials – Getting Started with Informix

- Introduction to Informix
- Installing Informix Server
- Introduction to InformixHQ and IBM Informix Knowledge Center
- Resources for getting started

2. Configuring a New Informix Server

- Overview of Informix ONCONFIG file
- Configuring memory, CPUs, network, and disk for Informix servers

3. Managing Informix Disk Space

- Setting up and configuring disk space
- Best practices for disk and RAID configurations

4. Managing Informix Logs

- Overview of Informix physical and logical logs
- Best practices for managing logs
- Backup and recovery of logical logs

2. Day 2: Advanced Configurations and User Connectivity

5. Informix Backup, Recovery, and High Availability (HDR)

- Overview of Informix backup and recovery
- Setting up and managing HDR
- Switching between Primary and Secondary servers

6. Connecting Users and Tools to Informix Servers

- Connection methodologies for different platforms
- Using Microsoft ODBC, Informix SDK, Java, PHP, DRDA, and more

7. Creating Databases, Tables, and Managing Security

- Best practices for creating databases and tables
- Object-oriented data types and using SQL scripts
- Managing Informix database security

8. Informix Database Server Monitoring

- Command-line utilities: onstat, oncheck, and InformixHQ

3. Day 3: Advanced Best Practices for Informix DBAs (Part 1)

9. Informix Database Indexes

- Best practices for Informix indexing
- Optimizing database performance using indexes

10. Informix SQL Explain – Using the SQL Optimizer Query Explain Plan

- Viewing and understanding the SQL Explain plan

11. Informix Update Statistics

- Overview of Automated Update Statistics
- Monitoring and managing statistics for tables and indexes

12. Informix OLAP and Advanced SQL Functions

- Introduction to SQL OLAP functions
- Window Partitioning, Ranking, and ANSI SQL-99 standards

4. Day 4: Advanced Best Practices for Informix DBAs (Part 2)

13. Capturing Informix SQL Metrics with SQLTrace

- Overview of SQL Trace and Sysmaster tables

13. Automatic Informix Range Interval Partitioning and Rolling Windows

- Fragmenting large Informix tables
- Managing partitions and old data

14. Optimizing the Operating System for Informix Performance

- Kernel Settings, HugePages, and CPU management
- Tools for monitoring Unix and Linux

15. Using the Sysmaster Database for Informix Server Health Check

- Identifying performance bottlenecks

16. Installing and Upgrading to Informix Version 14 and Informix HQ

- Introduction to the new Informix 14
- Upgrading databases and using Informix HQ

By the end of this course, participants will have a deep understanding of the core features, capabilities, and best practices for managing IBM Informix databases. Whether you're just getting started or seeking to optimize your existing setup, this course offers a comprehensive view of Informix from basic to advanced levels.

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