

Instalación, Configuración y Administración de Informix

Código: IFX-006

Propuesta de Valor: OTROS CURSOS DE CAPACITACIÓN TECNOLÓGICA

Duración: 40 Horas



Este curso de prepara para la certificación IBM Informix 12.10 System Administrator que demuestra que el candidato seleccionado tiene conocimientos, y habilidades importantes necesarias para instalar, administrar, afinar, configurar, supervisar y solucionar problemas de Informix v12.10



AUDIENCIA

- Este curso está dirigido a: Administradores de Bases de Datos que utilizan o desean utilizar como motor de Base de Datos a Informix.



PRE REQUISITOS

- Los participantes en este curso deben cumplir los siguientes requisitos previos:
 - Conocimiento del lenguaje estructurado de consulta (SQL)
 - Conocimiento de dbaccess
 - Experiencia utilizando la funcionalidad básica de Linux
 - Experiencia utilizando el editor vi



OBJETIVOS

- En este curso los participantes desarrollarán las habilidades necesarias para administrar uno o más servidores de base de datos Informix. Aprenderán cómo configurar y utilizar una instancia de servidor de base de datos, configurar y probar la conectividad del cliente, configurar y administrar el uso de la memoria y el disco, planificar e implementar las tareas de mantenimiento del sistema y configurar el servidor para el procesamiento óptimo de transacciones en línea (OLTP) o el soporte de decisiones (DS) utilización.



CERTIFICACIÓN DISPONIBLE

- Certificación emitida por COGNOS.



CONTENIDO

1. SECTION 1 - INSTALLATION AND CONFIGURATION

- 1.1. DETERMINE APPROPRIATE CONNECTION TYPES AND COMMUNICATION PROTOCOLS
- 1.2. PLAN FOR DISTRIBUTED SYSTEM CAPABILITIES
- 1.3. DETERMINE THE NUMBER AND SIZE AND PLACEMENT OF LOGICAL AND PHYSICAL LOGS TO ACCOMMODATE TRANSACTION ACTIVITY
- 1.4. SET UP OPERATING SYSTEM FILES AND PARAMETERS
- 1.5. SET UP OPERATING SYSTEM FILES AND PARAMETERS
- 1.6. KNOWLEDGE OF MIGRATION AND UPGRADING
- 1.7. KNOWLEDGE OF INSTALLATION OPTIONS
- 1.8. KNOWLEDGE OF ACTIVATION OF BUILT-IN TECHNOLOGIES
- 1.9. KNOWLEDGE OF DYNAMIC AND AUTOMATIC CONFIGURATION PARAMETERS
- 1.10. UNDERSTANDING DIFFERENT OPERATING MODES
- 1.11. KNOWLEDGE OF DATA MOVEMENT UTILITIES
- 1.12. KNOWLEDGE OF MOBILE DATABASE

2. SECTION 2 - SPACE MANAGEMENT

- 2.1. CONFIGURE AND MANAGE DBSPACES AND SBSPACES
- 2.2. KNOWLEDGE OF ONLINE TABLE MANAGEMENT
- 2.3. KNOWLEDGE OF DYNAMIC STORAGE
- 2.4. KNOWLEDGE OF PRO-ACTIVE/REACTIVE SPACE ALLOCATION
- 2.5. KNOWLEDGE OF FRAGMENTATION AND DATABASE DESIGN
- 2.6. KNOWLEDGE OF COMPRESSION

3. SECTION 3 - SYSTEM ACTIVITY MONITORING AND TROUBLESHOOTING

- 3.1. MONITOR AND ISOLATE PROBLEMS USING SYSTEM DATABASES
- 3.2. MONITOR THE MESSAGE LOG FILE FOR ABNORMAL ACTIVITY
- 3.3. USE THE INFORMIX UTILITIES TO VIEW INFORMATION ABOUT THE DATABASE SERVER
- 3.4. USE THE ADMIN API TO VIEW INFORMATION ABOUT THE DATABASE SERVER
- 3.5. SQL CONCURRENCY AND LOCKING

4. SECTION 4 - PERFORMANCE TUNING

- 4.1. CONFIGURE SHARED MEMORY PARAMETERS
- 4.2. BEST PRACTICES FOR LOGICAL AND PHYSICAL DESIGN OF DBSPACES
- 4.3. UTILIZE PARALLEL DATABASE QUERY (PDQ) TO OPTIMIZE QUERY PERFORMANCE
- 4.4. USE UPDATE STATISTICS TO ACHIEVE OPTIMAL PERFORMANCE
- 4.5. MANAGE NETWORK PARAMETERS FOR OPTIMAL COMMUNICATION PERFORMANCE

- 4.6. KNOWLEDGE OF DSS VS OLTP TUNING DIFFERENCES
- 4.7. MANAGE TEMPORARY TABLES AND FILES
- 4.8. MANAGE TEMPORARY TABLES AND FILES
- 4.9. KNOWLEDGE OF AUTONOMIC FEATURES OF THE ENGINE

5. SECTION 5 - OAT AND DATABASE SCHEDULER

- 5.1. KNOWLEDGE OF GENERAL OAT FUNCTIONALITY
- 5.2. UNDERSTANDING, USING AND ADMINISTERING TASKS AND SENSORS

6. SECTION 6 - BACKUP AND RESTORE

- 6.1. UNDERSTAND THE DIFFERENT BACKUP AND RESTORE TOOLS, FUNCTIONALITY, AND LEVELS
- 6.2. CONFIGURE ONBAR PARAMETERS FOR OPTIMAL BACKUP AND RESTORE PERFORMANCE
- 6.3. CONFIGURE ONTAPE PARAMETERS FOR OPTIMAL BACKUP AND RESTORE PERFORMANCE
- 6.4. KNOWLEDGE OF ARCHECKER FUNCTIONALITY
- 6.5. UNDERSTANDING VARIOUS RESTORE OPTIONS
- 6.6. UNDERSTANDING AND USING INFORMIX PRIMARY STORAGE MANAGER (PSM)

7. SECTION 7 - REPLICATION AND HIGH AVAILABILITY

- 7.1. DEMONSTRATE THE ABILITY TO MANAGE AND CONFIGURE ER
- 7.2. DEMONSTRATE THE ABILITY TO MANAGE AND CONFIGURE GRID
- 7.3. DEMONSTRATE THE ABILITY TO MANAGE AND CONFIGURE AN H/A CLUSTER
- 7.4. DEMONSTRATE KNOWLEDGE OF CONNECTION MANAGER
- 7.5. DEMONSTRATE THE ABILITY TO MANAGE AND USE IFXCLONE
- 7.6. KNOWLEDGE OF NEW REPLICATION AND H/A CLUSTER FEATURES
- 7.7. PERFORMING ROLLING APPLICATION AND DATABASE SOFTWARE UPGRADES

8. SECTION 8 - WAREHOUSING

- 8.1. KNOWLEDGE OF GENERAL WAREHOUSING FUNCTIONALITY IN THE ENGINE
- 8.2. KNOWLEDGE OF INFORMIX WAREHOUSE ACCELERATOR (IWA)

9. SECTION 9 - SECURITY

- 9.1. KNOWLEDGE OF NON OS USERS
- 9.2. KNOWLEDGE OF AUDITING
- 9.3. KNOWLEDGE OF TRUSTED CONTEXT AND TRUSTED CONNECTIONS
- 9.4. KNOWLEDGE OF AUTHENTICATION AND AUTHORIZATION
- 9.5. KNOWLEDGE OF PRIVILEGES AND ROLES
- 9.6. DEMONSTRATE KNOWLEDGE OF SESSION, REPLICATION AND ONDISK ENCRYPTION

BENEFICIOS

- Al finalizar el curso los estudiantes tendrán los conocimientos y habilidades necesarias para Instalar y configurar Informix.