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IBM Big SQL for Administrators (v5.0)  
Information

**Length:** 6.0 Hours  
**Ref:** DW664G  
**Delivery method:** Classroom  
**Price:** AUD

Overview

This course is designed to introduce the student to some of the additional capabilities and the administration of IBM Big SQL. IBM Big SQL allows you to access your HDFS data by providing a logical view to it. You can use the same SQL that was developed for your data warehouse data on your HDFS data. This course covers Big SQL security using row and column access controls, impersonation, and data federation. The course also covers some of the best practices, performance tuning, and monitoring techniques, YARN integration and also includes an optional unit to explore a Big SQL installation.

Public

- Administrators, Developers

Prerequisites

- Basic Linux knowledge
- Basic SQL knowledge
- Working knowledge with big data and Hadoop technologies

Objective

Prior to enrolling, IBM Employees must follow their Division/Department processes to obtain approval to attend this public training class. Failure to follow Division/Department approval processes may result in the IBM Employee being personally responsible for the class charges.

GBS practitioners that use the EViTA system for requesting external training should use that same process for this course. Go to the EViTA site to start this process:

<http://w3.ibm.com/services/gbs/evita/BCSVTEnrl.nsf>

Once you enroll in a GTP class, you will receive a confirmation letter that should show:

- The current GTP list price
- The 20% discounted price available to IBMers. This is the price you will be invoiced for the class.

Topics

1: Managing the Big SQL Server

- Configure the Big SQL Server
- Configure the Big SQL Scheduler
- List the registries for compiler and runtime performance improvement
- Backup and restore Big SQL

2: Configuring Big SQL security

- Configure authentication for Big SQL
- Manage security with Apache Ranger
- Enable SSL encryption
- Configure authorization of Big SQL objects
- Configure impersonation with Big SQL

3: Data federation with Big SQL

- Configure wrappers, servers, user mappings and nicknames for data federation

4: Using statistical data to improve Big SQL performance

- Understand the Big SQL data access plan
- Use Big SQL statistics to improve query performance

5: Monitoring Big SQL

- Use the Big SQL query interface
- Monitor the performance of read and write access

6: Big SQL and YARN integration

- Configure Big SQL and YARN integration through Apache Slider

7: Troubleshooting Big SQL

- Troubleshoot common problems and understand the known resolutions

Exploring Big SQL installation (Optional)

- Explore Big SQL installation