

IBM InfoSphere DataStage engine Administration for Information Server v11.5 - SPVC

Course#: 2M520G
Duration: 1 Days
Price: 0.00

Course Description

This course teaches Information Server and/or DataStage administrators to configure, manage, and monitor the DataStage Engine which plays a crucial role in Information Server. It not only runs high performance parallel ETL jobs designed and built in DataStage. It also supports other Information Server products including Information Analyzer, QualityStage, and Data Click. After introducing DataStage parallel jobs and the Engine that runs them, the course describes DataStage project configuration, the Engines development and runtime environments, and the Engines data source connectivity. In addition the course explains how to import and export DataStage objects, how to run and monitor DataStage jobs through the command line and GUI, and how to use some important Engine utilities.

If you are enrolling in a Self Paced Virtual Classroom or Web Based Training course, before you enroll, please review the Self-Paced Virtual Classes and Web-Based Training Classes on our Terms and Conditions page, as well as the system requirements, to ensure that your system meets the minimum requirements for this course.<http://www.ibm.com/training/terms>

Learning Journeys that reference this course:

IBM Information Server - Administrator

Objectives

After completing this course, you should be able to:

Describe how the DataStage Engine is used within Information Server

Describe how the engine achieves high performance through partition parallelism

Describe the DataStage job compilation process

- Describe the engine runtime process and environment
- Describe the purpose and format of the DataStage configuration file
- Describe how to configure the engine using environment variables
- Describe how to configure data source connections
- Describe the ways of running DataStage jobs
- Describe how to monitor DataStage jobs and the runtime environment
- Describe engine workload management
- Import and export DataStage jobs and other engine objects

Audience

This course is for those who will be administering Information Server and DataStage.

Prerequisites

It is recommend that students take KM510 IBM InfoSphere Administrative Tasks for Information Server v11.5 course

Content

1: Introduction to the Information Server (DataStage) engine

- Information Server architecture

- How the DataStage Engine is used in Information Server

- DataStage Engine features

2: Elements of a DataStage job

- Anatomy of a DataStage parallel job

- Explore the elements of an example DataStage job, including its stages and job parameters

- Understand the OSH that is generated by the job during compile

- Log into Designer

- Import DataStage jobs

- Open a DataStage job and explore its elements

- Examine the OSH generated from the job

3: Engine architecture

- Partition parallelism

- Runtime architecture

- Configuration files

- The Score

Examine the Configuration file

Run a DataStage job

Examine the Score

4: Engine project configuration

DataStage project authorizations

Runtime Column Propagation (RCP)

Environment variables

Create a DataStage user and assign DataStage project roles

Set environment variables

Configure a DataStage project in DataStage Administrator

5: Configuring database connectivity

Configuring ODBC data sources

Configuring native database connections

Enable a DataStage project to access DB2

Setup ODBC data source connections

Test ODBC connectivity

Create a data source connection in Metadata Asset Manager

6: Running DataStage jobs

Running jobs from the command line

Monitoring jobs in Director and the Operations Console

Workload management

Starting and stopping the Engine

Run a job from the command line

View the job log from the command line

Monitor DataStage jobs in DataStage Director

Monitor jobs in the Operations Console

Explore Workload Manager

Start and stop the Engine

7: Engine utilities

Data set utilities

Multiple job compile

Resource estimation tool

View a data set using the Data Set Editor

View a data set from the command line

Estimate the resources of a DataStage job using the Resource Estimator tool

Run the Multiple Job Compile utility

8: Importing and exporting DataStage objects

DataStage Designer exports and imports

Command line exports and imports

Import and export DataStage objects in Designer

Import and export DataStage objects using the DSXImportService command