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Automated replatforming of DataStage workloads to native AWS Glue

VIDEO TRANSCRIPT

Are you planning to modernize your ETL workloads from DataStage to AWS Glue, but worried about business disruption?

Enterprises are modernizing their DataStage workloads to AWS Glue to improve scalability, reduce costs, enhance flexibility, and enable faster deployment.

LeapLogic, Impetus' cloud migration accelerator, can help you achieve this by ensuring an end-to-end automated transformation from DataStage to AWS Glue.

Here's a demo of how LeapLogic simplifies the migration of DataStage workloads to AWS Glue – starting with a comprehensive assessment, followed by automated transformation, validation, and all the way up to operationalization.

It first assesses the existing DataStage workloads and provides comprehensive insights. You can get an overall summary of the assessment and additional details for the complexity level of each file.

For instance, we've uploaded 11 files, consisting of 112 entities, 90 jobs, and 493 components. LeapLogic has successfully analyzed 87% of the ETL scripts, indicating that it can automate the transformation of nearly all DataStage scripts to their Glue Studio equivalent.

LeapLogic calculates the complexity of each file and job based on various parameters, helping you identify the nature of workloads and the level of transformation effort required.

You can go to the Source Analysis section in the Analysis tab to view summarized statistics for all files, including complexity, queries executed, jobs, and more. Similarly, in the Entities section, you can view details regarding various tables. You can get more details related to the parallel and sequential jobs under the Jobs section. The Artifacts section will provide a list of missing, additional, and unparsed artifacts.

The Lineage section provides a graphical lineage showcasing complex interdependencies between different workloads, highlighting

dependencies between scripts, used and impacted tables, and more.

You can also download comprehensive reports with detailed insights for offline use. These reports provide information on files, jobs, transformation patterns, generated artifacts, and more.

You can go to the Report Summary section to view details regarding all the generated artifacts. The Volumetric Info tab offers a summary of the aggregated inventory after analyzing the source files. The File Summary section lists all input files along with the total number of jobs, components, complexity, and more. Also, you can go to the Job Summary section to get details related to individual jobs.

Now, let's have a look at how LeapLogic's intelligent transformation engine automates the conversion of DataStage jobs and components to AWS Glue Studio equivalent.

You can undergo different stages of the transformation lifecycle on LeapLogic's user-friendly interface. First, you can configure the DataStage ETL scripts that you want to transform and select AWS Glue Studio as the preferred target.

Subsequently, you can provide database connection details and configure the target data source, job, source, and execution types.

That's it! You can now execute the automation-driven conversion of DataStage scripts to AWS Glue Studio equivalent. Simply go to the Results tab to check the converted code. As you can see, LeapLogic automates component-to-component transformation for DataStage ETL scripts to AWS Glue Studio equivalent, thereby preserving and optimizing the core business logic. However, where a direct equivalent is not available, it does component-to-query conversion to ensure seamless end-to-end transformation.

LeapLogic also provides a target-compatible package, which can be orchestrated and executed as-is on AWS Glue Studio. Its unit and integration testing ensure that your transformed code is rigorously validated before productionization. You can now simply download the converted package, which contains the AWS Glue Studio equivalent code. Under the Execution stage, you can see that all the converted scripts are executed successfully.

Now, let's log-in to the AWS portal and initiate the Glue service. You can now import the converted DataStage jobs into Glue Studio.

Here, you can visualize the data transformation workflow and view the converted code snippet. As you can see, all DataStage jobs and components have been converted successfully, along with the business logic. You can now execute the imported package on AWS Glue Studio.

LeapLogic streamlines your migration journey, ensuring a successful transformation of DataStage workloads to AWS Glue.

Explore LeapLogic's automation capabilities for the end-to-end transformation of data warehouse, ETL, Hadoop, analytics, and reporting systems to an AWS-native stack – faster, at a lower cost, and with minimal risk.

It's more than the next step. It's a leap into the future of your business.